University of Minnesota

CLASS SCHEDULE

Fall Quarter

1966

Minneapolis and St. Paul Campuses

including

- Registration Instructions, page 2
- Final Examination Schedule, page 166
- Courses Reserved in College Offices, page 171
- Course Fees, page 170
- Calendar, page 174

Every Student Is Held Accountable for Information Contained Herein and Should Save This Bulletin for Future Reference.

HOW TO USE THIS BULLETIN

Bold face titles—You must obtain a class reservation card to enroll in courses which appear with **bold face** titles. Instructions on where to get these class reservation cards appear on page 171.

Prerequisites—Before you can enroll in some courses, you must have completed or be concurrently enrolled in certain other courses or possess some particular qualification or class standing. These requirements are known as prerequisites. If no prerequisites are listed, there are none, except insofar as the course number indicates a class standing requirement.

Class standing requirements, unless otherwise noted, are indicated by the course number:

1-49 for freshmen and sophomores
50-99 for juniors, seniors, and fifth-year students
100-199 for juniors, seniors, fifth-year students, and graduate students
200 and over for graduate students only

A minimum of prerequisite information is shown. For example, when courses which must be taken in sequence are prerequisites, only the last course of the sequence is listed. A comma always means "and"; while a semi-colon indicates that there are alternative prerequisites.

Example: prereq 2 or 5, Psy 1 (you must have had Psychology 1 plus either courses 2 or 5)

Example: prereq C or 12H; 3A or 3B or Comm 3, 5 addtl cr; 5 cr in 21 or 22 or 23; exempt, 5 cr lit (you must have had either C or 12H; or 5 credits in the same department plus either 3A or 3B or Communication 3; or 5 credits from either course 21, course 22, or course 23; or 5 credits of literature with exemption from freshman English).

When no departmental designation precedes the course number listed as a prerequisite, that course is in the same department as the course being offered. Likewise, a prerequisite reading "6 cr" means 6 credits in courses offered by the same department.

Work equivalent to a prerequisite course (having the same content) is ordinarily accepted in lieu of that prerequisite. You will also note that the instructor may, in some instances, waive prerequisites at his discretion. See your college bulletin for further information.

Symbols—The following symbols are used throughout this bulletin:

† To receive credit, all courses listed after the dagger must be completed.
‡ Students may enter any quarter.
§ No credit if credit received for equivalent course after the symbol.
¶ Means "concurrent registration in."
♯ Means "consent of instructor."
△ Means "consent of department or school offering the course."

Hours and Days—Class hours are identified by Roman numerals, and continue for 45 minutes after the starting time shown below in all colleges on the Twin Cities Campus.

0	I	II	III	IV	V	VI	VII	VIII	IX	X
7:15	8:15	9:15	10:15	11:15	12:15	1:15	2:15	3:15	4:15	5:15

The University Senate approved the foregoing class-hour schedule with the understanding that classes may continue for 50 minutes after the starting times shown whenever this is feasible with respect to the students' schedules.

A class listed I-III TTh meets the first through the third hours Tuesdays and Thursdays, the hyphen always indicating "through." Days of the week are abbreviated M, T, W, Th, F, and S.

Televised courses—Those courses to be given on closed circuit television are designated with the abbreviation, **CCTV**.

Building name abbreviations—Refer to the index for page reference.

Choice of classes—When section numbers precede the hours and days listed, you may choose the section in which you wish to enroll. Many courses have a choice of laboratory or recitation periods, but only a single lecture period for all students taking the course. Occasionally there will be a choice of both lecture and laboratory or recitation periods. The choice of the laboratory or recitation section will determine the lecture section whenever the lecture sections have no identifying section number.

Examples:

—1, I TThS	Lect III MWF	Lect II T	—1, Lect T
—2, II MWF	—1, Lab V-VI M	—1, Lab III-IV T	—2, Lect II Th
—3, IV TThS	—2, Lab V-VI W	—2, Lab III-IV Th	—1, Lab III-IV T
		Lect II Th	—2, Lab III-IV Th
		—3, Lab VI-VII T	—3, Lab VI-VII T
		—4, Lab VI-VII Th	—4, Lab VI-VII Th

Missing Information—When hours and days or the place of meeting are missing, consult the instructor or department offering the course.

Changes—Changes made subsequent to publication of the *Class Schedule* are published in the Official Daily Bulletin, which appears in the *Minnesota Daily*. Room changes are posted on classroom doors.

REGISTRATION INSTRUCTIONS

Accurate registration is your personal responsibility. You will receive credit in only those courses for which you are properly registered. Likewise, you will be held responsible for every course for which you register unless you officially cancel it on a regular cancellation form available at your college office. Registration is not complete or official until fees are paid; student status is withdrawn when fees are delinquent even though you have filed a study program.

Colleges of the University reserve the right to cancel courses in which enrollment is not sufficient to warrant giving the course, or to depart from this schedule.

Do not register from the *Class Schedule* alone. Your college bulletin contains full course descriptions, college rules and requirements, and other information necessary for sound program planning.

All new students, both undergraduate and graduate, must obtain a student identification card before a statement of fees will be issued. Undergraduate students will obtain their I.D. cards either during orientation or by presenting their registration permit or I.D. card authorization to the I.D. office in Room B-35 Johnston Hall. I.D. pictures for all students are taken in B-35 Johnston Hall.

Step 1—Have your program approved by your college office. Follow the instructions given you by your college. Registration dates for each college are listed on the back cover.

Step 2—Get class reservation cards for courses reserved in the college offices. Courses which are reserved in college offices are listed on page 171.

Step 3—New students who do not already have a Health Service Clearance Slip go to the University Health Service to make proper arrangements. Required of all undergraduate students taking 6 credits or more and of all graduate students except "teachers in service" taking less than 6 credits.

Step 4—Present "I.D." card and turn in registration permit, class reservation cards, and approved registration blank at your record window in the Office of Admissions and Records to obtain statement of fees. New students, in addition, must present Health Service Clearance slip (if required) and turn in University Relations mailing slips, Dean of Students information card, and (optional) religious census card.

Step 5—pay your fees to the bursar.

Every fee statement must be receipted, even when no payment is required, before you are considered officially registered.

Except for Graduate School, both registration and payment of fees must be completed by September 23. Fees for students registered through September 9 are due September 15. Students in the Graduate School must complete registration and payment of fees by September 30. The fee for late payment is $3 through the first week of classes, $5 during the second week, and $10 thereafter. Fall quarter classes begin on Monday, September 26.

Change of registration—Obtain a "cancel-add" form and approval at your college office, get necessary class reservation cards for courses you are adding as in step 2 above, and present to your college window in the Office of Admissions and Records. You will get a supplementary fee statement or fee refund statement as necessary.

Withdrawal from the University—Notify your college and the Office of Admissions and Records of your intention to withdraw from the University. All University property such as library books, military, athletic or band equipment, laboratory material, locker keys or locks, athletic tickets, etc., must be turned in before you leave. P.L. 815 and 894 veterans must also notify 105 Morrill Hall.

Accounts Paid by Various Agencies

If you have authorization for the University to bill a donor for your tuition and fees you must have your fee statement approved at window 18 in Morrill Hall (or room 220 Coffey Hall, St. Paul Campus) and *receipted by the bursar or cashier.* Failure to have your fee statement receipted before the last date for payment will necessitate a "late fee."

Veterans and War Orphans

Ch. 34 (new GI Bill) Veterans and P. L. 634 (Ch. 35 trainees)—You must register and pay fees like every other student. Your business with the Veterans Administration is separate, and you are to attend to it on your own responsibility. The University assists you by certifying as required. You initiate this certification at window 18 on the first floor of Morrill Hall (or room 220 Coffey Hall, St. Paul Campus).
Do the following:

Make application to the Veterans Administration for benefits on or before your first day of class. You don't get paid unless you do apply; you obtain a certification of eligibility from the Veterans Administration. Present the certificate and your receipted fee statement *in person* at one of the above addresses.

If you are returning for another session, your previous training period under the law having been officially interrupted, you may have to make out a re-entrance form to notify the Veterans Administration that you wish to resume training status. Do this at one of the above addresses.

P. L. 815 and 894 Veterans—Have your fee statement approved at window 18, Morrill Hall (or room 220 Coffey Hall, St. Paul Campus), and then receipted by the bursar. Bring the receipted statement and your course list to room 105 Morrill Hall to obtain an order for books and supplies.

Additional information concerning University attendance under the above designated laws may be obtained at room 105 Morrill Hall, or in the Official Daily Bulletin.

Selective Service Certification

The University endeavors to be helpful to its students who ask deferment by their Selective Service boards for full-time study while making satisfactory progress toward a given degree objective. Authorization for reports on attendance, assistance in making out forms, counsel on solving problems with Selective Service, or information on how Selective Service may apply to you as a student can be arranged through a unit of the Recorder's office, room 105 Morrill Hall, Minneapolis Campus (or room 220 Coffey Hall for students whose college is at St. Paul). See under *Registration Instructions* and note that a student who has not paid fees by the time official class lists are prepared will be considered as not a student at the University of Minnesota.

Tuition Rates for Staff Members and Military Personnel

All academic appointees giving 25 per cent or more of full time service and all 75 per cent time or more civil service appointees, when enrolled in the Graduate School, will pay tuition at the Graduate School resident rate, regardless of source of fund, resident status, or curriculum pursued. Similar staff members when enrolled in the final year of a Master's degree curriculum in an undergraduate college will pay tuition at the respective college resident rate. If you are a nonresident, entitled to resident fee privileges under these regulations, tell the fee statement clerk that you are a staff member when you turn in your approved registration blank at your college window in the Office of Admissions and Records, Morrill Hall.

Any full-time faculty members with rank of instructor or above, University civil service personnel eligible for faculty group insurance, certain accredited foreign diplomatic officials, and their immediate families may pay resident fees in all colleges. Similar provision, 1 year after their arrival, is made for military personnel on duty in Minnesota for other than college attendance. Full-time faculty under contract in accredited Minnesota colleges (not their families) have the same privilege as provided for new University faculty. Persons for whom these provisions are meaningful should contact the Recorder's Office, 120 Morrill Hall, to make appropriate arrangements.

If You Are Graduating This Year

For the December Commencement, you must file a form called "Application for Degree" at the appropriate window in the Office of Admissions and Records, Morrill Hall (or room 220 Coffey Hall, St. Paul Campus), preferably with your fall quarter registration material. A graduation fee of $10 is due November 7 for fall quarter graduation.

If you expect to graduate anytime within the year (through August 1967), file your formal Application for Degree now. Shortly thereafter you will receive a balance sheet which shows whatever requirements for the degree you still must complete.

Foreign Students

Your first action on arriving at the University should be to show your passport at the Foreign Student Adviser's Office, 717 East River Road. There you will be given full information about federal, state, and local regulations, and about housing, finance, health and personal problems. Following this, you register in the same manner as all other students.

COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS

Courses offered on the St. Paul Campus by Minneapolis Campus Departments:

Acct 24	Geo 1
Anth 1A	Math Z, T, 10
Biol 1, 1A, 2, 2A, 2H (CCTV)	Mus 43S
Clas 42A	Phys 1
GeCh 4	Psy 1
Geog 1	Soc 1A, 14A

For additional information, see the course listing under the appropriate department.

AGRICULTURAL ECONOMICS (AgEc)

Fall Quarter

1 Prin of Economics I (3 cr)
—1, II MWF, GH 120, Helmberger
—2, VI MWF, DI 15, Helmberger

3 Prin of Economic Analysis (3 cr; prereq 2)
11:15-12:30 TTh, DI 15, Peterson

12 Farm Mgt (3 cr; prereq 2)
I MWF, HH 210, Nodland

40 Prin of Marketing Organization (3 cr; prereq soph, 2)
III MWF, AgEng 109, D Dahl

50 Farm Finance (5 cr; prereq soph with ♯, 2, AFHE students only)
III MTWThF, HH 100, Koller

80 Farm Accounting (3 cr, §180; prereq 12 or 82)
8:15-9:30 TTh, HH 210, Nodland

82 Farm Planning (3 cr; prereq 2)
9:45-11:00 TTh, HH 210, Jensen

99 Special Probs (1-3 cr, total 6 cr; prereq AgEc or Ag BA maj or min, ♯)

110 Economics of Production (3 cr; prereq 3 or 82)
I MWF, HH 100, Engene

140 Grain Marketing (3 cr; prereq 40)
II MWF, HH 210, R Dahl

175 Agricultural Trade, Commercial Policy (3 cr; prereq Econ 65, 66)
VII MWF, HH 210, Houck

180 Farm Accounting (3 cr, §80; prereq ♯)
8:15-9:30 TTh, HH 210, Nodland

200 Seminar (ar cr)

221 Farm Mgt Research Methods (3 cr) Jensen

241 Seminar: Marketing (3 cr)
3:45-5:00 MW, HH 210, D Dahl

Winter and Spring Quarters

1w See 1f: III or VI MWF

2w,s Prin of Economics II (3 cr; prereq 1) II or IV MWF (w); II or VI MWF

3s See 3f

12s See 12f: III MWF

25w Prin of Accounting (4 cr; prereq soph, regis AFHE) Lect VII MWF, Lab VIII-IX M; VIII-IX W

30s Agricultural Prices (3 cr; prereq soph, 2) VII MWF

40w See 40f

82s See 82f

95s Junior-Senior Seminar (1 cr; prereq maj or min or Ag BA, completion 120 cr) 3:45-5:00 Th

99w,s See 99f

101w Statistical Methods for Social Sciences (4 cr; prereq Biom 100) Lect VI MWF, Lab I-II T

108s Agricultural Policy (3 cr) III MWF

126w Economics of Consumption (3 cr; prereq 2 or ♯) III-IV TTh

127w Economics of Food Consumption, Distribution (3 cr; prereq 2 or ♯) VII-VIII TTh

131s Market Prices (3 cr; prereq 30, Econ 65) I MWF

141w Dairy Marketing (3 cr; prereq 40) II MWF

143w Livestock, Poultry Marketing (3 cr; prereq 40) IV MWF

144s Co-operative Organization (3 cr; prereq 40) IV MWF

150s Adv Farm Finance (3 cr; prereq 50) 2:15-3:30 TTh

170w Land Economics (3 cr; prereq 110 or ♯) VII MWF

172s Economics of World Agriculture (3 cr) 2:15-3:30 WF

183w Adv Farm Planning (3 cr; prereq ‡) 9:45-11:00 TTh
-201w-202s‡ See 200f
208w Seminar: Agricultural Price, Income Policies (3 cr)
211s Economics of Agricultural Production II (3 cr; prereq 110, Econ 165 or ‡) 3:45-5:00 MW
226w Seminar: Farm Mgt (3 cr) 3:45-5:00 TTh
235w Methods of Price Analysis (3 cr; prereq 101, 131 or ‡) 3:45-5:00 TTh
246s Seminar: Consumption (3 cr)
278s Seminar: Agricultural, Economic Development (3 cr; prereq 172 or Econ 103) 3:45-5:00 TTh

AGRICULTURAL ENGINEERING

Mechanized Agriculture (MeAg)

Fall Quarter

1 **Slide Rule Computation** (1 cr; prereq Math 10 or ‡)
IV T, AgEng 108, Machmeier
3 **Technical Drawing** (3 cr)
II-IV TTh, AgEng 102, Pomroy
4 **Agricultural Shop-Metalwork** (4 cr; prereq GeCh 4 or ‡)
Lect VI TTh, AgEng 35, Bear
Lab VII-IX TTh, AgEng 20, Bear
12 **Agricultural Machinery** (3 cr; prereq 23)
Lect VI MW, AgEng 109, Solstad
Dem VI F, AgEng 37, Solstad
12A **Machinery Lab** (1 cr; prereq 12 or ¶)
VIII-IX M, AgEng 49, Solstad
25 **College Physics II** (4 cr; prereq 24)
Lect II MWF, DI 15, Sabo, lab ar
42 **Surveying** (4 cr; prereq 3, Math T)
Lect VI TTh, AgEng 109, Manson
—1, Lab VII-IX TTh, AgEng 102, Manson
—2, Lab VII-IX MW, AgEng 102, Manson
64 Rural Sanitation, Water Supply (3 cr; prereq 23, GeCh 5)
IV MWF, AgEng 16, Allred
65 **Materials Handling on the Farmstead** (3 cr; prereq 23)
Lect VI TTh, AgEng 41, Pomroy
Lab VII-IX Th, AgEng 41, Pomroy
84 Hydrology, Erosion Control (3 cr; prereq 23 or 24, Math 10, Soil 18 or 19)
III MWF, AgEng 16, Manson
114 Probs: Farm Buildings (2-4 cr; prereq 3, 7, 14) Pomroy
127 **Radioisotope Measurements** (3 cr; prereq sr, 1 yr phys, Math T)
Lect I TTh, AgEng 105, Hustrulid
—1, Lab VI-VIII T, AgEng 6, Hustrulid
—2, Lab VI-VIII W, AgEng 6, Hustrulid

Winter and Spring Quarters

1w See 1f
3w,s See 3f: II-IV TTh (w,s); VI-VIII TTh (w)
4w,s See 4f: Lect I TTh (w,s); Lab II-IV TTh
7w Farm Building Construction (3 cr; prereq 23) Lect VI TTh (w,s); Lab VII-IX T or VII-IX Th (w,s)
12s See 12f: Lect V TTh, Dem III Th or IV Th
12As See 12Af: VII-VIII Th
14s Farm Buildings (3 cr; prereq 23) II MWF
42s See 42f
45w,s Engines, Tractors (3 cr; prereq 23) Lect VI MW, dem VI F
45Aw,s Engines, Tractors Lab (1 cr; prereq 45 or ¶) VIII-X M
55w,s Electricity (2 cr; prereq 23) III TTh
114w,s See 114f
115w Drainage, Irrigation (3 cr; prereq 84) IV MWF
124s Machinery, Mechanical Power Mgt (3 cr; prereq 9 cr in MeAg, incl 12) 8:00-9:30 am TTh
125s Topics: Agricultural Physics (3 cr; prereq Phys 50 or inte calc, 25)
130w Instructional Methods in Farm Mechanics (3 cr; prereq 10 cr MeAg, AgEd 91 or ¶) Lect VI-VII MWF, Lab VIII-IX MW or VIII-IX TTh
134s Soil, Water Engineering Design Procedures (3 cr; prereq 42 or ‡, 115) Lect VI M, Lab VII-IX M or VI-VIII W
174s Probs: Soil, Water Mgt (2-4 cr; prereq 84-115, 134)

AGRONOMY AND PLANT GENETICS (Agro)

Fall Quarter

1 **Introduction** (4 cr)
Lect IV MWF, Agr 202, Smith
—1, Lab III-IV T, Agr 104, Smith
—2, Lab VI-VII T, Agr 104, Smith
—3, Lab III-IV Th, Agr 104, Smith
27 Forage Crops (4 cr, §127; prereq 1 or ‡)
Lect VI MWF, Agr 202, Schmid
Lab VII MWF, Agr 104, Schmid

50 Crop Judging (4 cr; prereq 22) VI-IX TTh, Agr 106, Elling
127 Forage Crops (4 cr, §27; prereq 1 or ‡) Lect VI MWF, Agr 202, Schmid
Lab VII MWF, Agr 104, Schmid
135 Weed Control (3 cr; prereq 1 or ‡) 2:15-3:30 TTh, Agr 202, Behrens
201 Research: Farm Crops (ar cr; prereq 121, 127)
202 Seminar: Farm Crops (1 cr; prereq 9 cr farm crops)
IX W, Agr 408
241 Research: Plant Genetics (ar cr)
242 Seminar: Plant Breeding (1 cr)
IX F, Agr 408
244 Lab Methods: Plant Breeding (ar cr; prereq 132)
251 Probs: Application of Statistics (ar cr; prereq Biom 100) Thomas
255 Topics: Genetics (2 cr; prereq 252 or △)

Winter and Spring Quarters

1w,s See 1f: Lect IV MWF, lab III-IV T (w,s); III-IV Th (w); VI-VII T (w,s)
21w Grain, Oilseed Crops (4 cr, §121; prereq 1 or ‡) Lect VI MWF, labs VII MF; VII-VIII W
22s Crop Grading, Identification (3 cr, §122; prereq 1) VII-IX TTh
77w Literature (1 cr; prereq sr, 9 cr) IX W
121w Grain, Oilseed Crops (4 cr, §21; prereq 1 or ‡) Lect VI MWF, lab VII MF; VII-VIII W
122s Crop Grading, Identification (3 cr, §22; prereq 1 or ‡) Lab VII-IX TTh
132w Intro to Plant Breeding (3 cr; prereq Gen 66) Lect IV MWF
134s Adv Forage Crops (4 cr; prereq 27 or ‡) Lect VI MWF, lab VII MWF
201w,s See 201f
202w See 202f
233w-234s Prins of Plant Breeding I (3 cr; prereq 132, Gen 141) II MWF
241w,s See 241f
242w See 242f: IX F
245s Topics: Plant Breeding (2 cr; prereq 131, 243, 244 or cons staff)
248w Applied Statistics (3 cr; prereq Biom 100 or PubH 110) V MWF
251w See 251f
252w Cytogenetics (4 cr; prereq 240, Bot 118 or ‡) Lect I MWF, lab ar
253s Methods: Plant Genetics (2 cr; prereq 131) I TTh
263s Application of Quantitative Genetics to Plant Breeding (3 cr; prereq 234, 262)

ANIMAL HUSBANDRY (AnHu)

Fall Quarter

1 Introduction (4 cr)
II MTWThF, PetH 110, Goodrich
36 Livestock Feeding I (3 cr; prereq 1... BioC 51 rec)
III MWF, PetH 110, Smith
36A Livestock Feeding I Lab (1 cr; prereq 36 or ¶)
—1, VIII-IX T, LsPav 203, Smith
—2, VIII-IX Th, LsPav 203, Smith
53 Adv Meats (3 cr; prereq 31)
VI-VII TTh, MSh 102, Forrest
55 Adv Livestock Judging (3 cr; prereq 54 or ‡)
VI-VII MWF, LsPav 100, Christians
60 Current Topics (1 cr; prereq sr)
IX W, PetH 108, Meiske
63 Swine Production (3 cr, §163; prereq 37, 52 or ‡)
VIII MWF, PetH 110, Meade
163 Swine Production (3 cr, §63; prereq 37, 52 or ‡)
VIII MWF, PetH 110, Meade
201 Adv Animal Breeding (3 cr; prereq Gen 66, Biom 101)
III MWF, PetH 108, Rempel
208 Seminar: Animal Husbandry (1 cr)
IX M, PetH 108, Hanson
213 Research: Animal Husbandry (3-9 cr)

Winter and Spring Quarters

1w,s See 1f
21w Meat Animal Evaluation (3 cr) III-IV TTh; VI-VII TTh
30w Meat Selection, Utilization (3 cr; prereq soph) VI-VII MW
31s Meats (3 cr; prereq 30) VI-VII TTh
37w Livestock Feeding II (3 cr; prereq 36) II MWF
37Aw Livestock Feeding II Lab (1 cr; prereq 37 or ¶) VIII-IX TTh
40s Horse Production (3 cr; prereq 36 or ‡) VI-VII TTh
52w Animal Breeding I (3 cr; prereq Agro 30) IV MWF
54s Livestock Judging (3 cr; prereq 21, 52 or ‡) VI-VII MWF
-61w‡ See 60f
64w Sheep Production (3 cr, §164; prereq 37, 52 or ‡) VI-VII TTh
65s Beef Cattle Production (2 or 3 cr, §165; prereq 37, 52 or ‡) VIII MWF
66s Intro to Animal Nutrition (3 cr, §166; prereq 37, BioC 52 rec or ‡) VII MWF
71s Feeds, Feeding (3 cr; prereq vet med student or ‡) VI-VII M; VII-VIII W
107s Meat Technology (3 cr; prereq 30 or ‡)

160s Animal Breeding II (3 cr; prereq 52) III MWF
164w Sheep Production (3 cr, §64; prereq 37, 52 or ‡) VI-VII TTh
165s Beef Cattle Production (3 cr; prereq 37, 52 or ‡) VIII MWF
166s Intro to Animal Nutrition (3 cr, §66; prereq 37, BioC 52 rec or ‡) VII MWF
205s Quantitative Inheritance (3 cr; prereq Gen 262) VI-VII TTh
-209w-210s See 208f
211w Experimental Methods (3 cr; prereq Biom 181) IV MWF
213w,s See 213f
222w Energy in Animal Nutrition (3 cr; prereq BioC 52 or ‡...BioC 143 rec)
223s Protein, Amino Acid Nutrition (3 cr; prereq BioC 52 or ‡...BioC 143) VI MWF
226s Ruminant Nutrition (3 cr; prereq BioC 52 or ‡...MicB 121, 223 rec) VIII MWF

DAIRY HUSBANDRY (DyHu)

Fall Quarter

11 Milk Production (5 cr)
IV MTWThF, HH 100, Williams
49 **Reproduction, Artificial Insemination** (3 cr)
VI-VIII TTh, HH 9, Graham
105 Dairy Literature Seminar (2 cr; prereq sr or 2 courses DyHu) Hunter
121 Physiology of Lactation (3 cr)
II MWF, HH 9, Hunter
199 Special Probs (1-3 cr; prereq ‡)
202 Research: Dairy Production (ar cr)
216 Seminar (1 cr) Cole
219 Dairy Cattle Reproduction (3 cr; prereq ‡)
II-IV TTh, HH 9, Graham

Winter and Spring Quarters

1w Elements of Dairying (3 cr, §FScI 1)
III MWF, DI 15, Morris, Williams
19s Elem Dairy Cattle Mgt (1 cr) VI-VIII Th
30s Anatomical Evaluation of Dairy Cattle (2 cr) VI-VII TTh
49w See 49f
51s Adv Dairy Cattle Judging (1 cr; prereq 30) VI-VIII F
120w Feeding, Mgt (3 cr; prereq vet med student or ‡) VIII-IX MF
122w Principles for Genetic Improvement of Dairy Cattle (4 cr; prereq Agro 30) VI-VII TTh
123s Dairy Farm Mgt (3 cr) VI-VII TTh
124w Dairy Cattle Nutrition (3 cr; prereq AnHu 36, 36A) II MWF
149s Reproduction, Artificial Insemination (3 cr, §49; prereq grad or ‡) VI-VIII TTh
199w,s See 199f
202w,s See 202f
216w,s See 216f
220s Lactation (3 cr; prereq 121 or ‡) VI-VII TTh
222 Energy in Animal Nutrition (3 cr; prereq BioC 52 or ‡...BioC 143 rec) VI MWF
223s Protein, Amino Acid Nutrition (3 cr; prereq BioC 52 or ‡) VI MWF
226s Ruminant Nutrition (3 cr; prereq BioC 52 or ‡) VIII MWF

ENTOMOLOGY, FISHERIES, AND WILDLIFE (Ent)

Fall Quarter

1 **Insect Life** (4 cr)
Lect IV MWF, CofH 307, Radcliffe
—1, Lab VI-VIII T, CofH 302
—2, Lab VI-VIII W, CofH 302
2 Orientation: Fisheries, Wildlife (nō cr)
II T, DI 15, Beer, Marshall, Smith, Tester, Waters
21F Beekeeping (3 cr)
11:00-12:15 TTh, CofH 307
55 Entomological Techniques (1-3 cr; prereq 74) Cook
103 Basic Entomology or Fishery Biology or Wildlife Biology (ar cr; prereq △)
125 **Insect Morphology** (5 cr, §Zool 125; prereq 74 or ‡)
Lect I TTh, CofH 302, Cook
Lab II-IV TTh, CofH 302
132 **Adv Insect Taxonomy II** (2 cr; prereq 131)
Lect I S, CofH 302, Price
Lab II-IV S, CofH 302
139 Probs: Microtechnique (2 cr; prereq ‡) Brooks
144 **Medical Entomology** (3 cr; prereq 15 cr incl 74, ‡)
Lec(VI TTh, Z 208, Price
Lab VII-VIII TTh, Z 208, Price
193 Adv Work in Entomology or Fishery Biology or Wildlife Biology (ar cr; prereq ‡)
200 Seminar (1 cr)
204 Insect Microbiology (5 cr; prereq 127, ‡)
Lect I MWF, CofH 11, Brooks
Lab II-III MWF, CofH 11
240 Research (ar cr)

264 Research: Fishery Biology (ar cr) Smith, Waters
275 Wildlife Mgt: Waterfowl (3 cr; prereq 65, Zool 75, 116, Bot 50 or ‡) I TThS, LsPav 203, Tester
277 Research: Wildlife Biology (ar cr) Beer, Marshall, Tester

Winter and Spring Quarters

1s See 1f: Lect IV MWF, lab VI-VIII T
21s Beekeeping (5 cr) Lect VI MWF, Lab VII-VIII MWF
50s Economic Entomology (5 cr; prereq 1 or Biol 2) Lect VI MWF, lab VII-IX WF
56w Forest Entomology (4 cr; prereq Biol 2) Lect VIII MWF, Lab VI-VII WF; IX-X WF
64w Wildlife Populations (2 cr; prereq jr, Biol 2, 80 or For 54) I MW
65w Fishery Populations (2 cr; prereq 64, Biol 2, 80) I TTh
66w Intro to Fish, Wildlife Mgmt (3 cr; prereq 64, 65) II TThS
67s Forest Wildlife Mgt (2 cr; prereq 64)
74s Intro Entomology (5 cr; prereq Biol 2) Lect VII MWF, Lab V-VI MWF; VIII-IX MWF
77w Mammalogy (4 cr; prereq Zool 53) Lect II MWF, lab I-II TTh; VI-VII TTh
104w, 105s See 103f
114s Apiculture (3 cr; prereq 9 cr ent or biol) I MW
118w Experimental Ecology (3 cr; prereq 9 cr biol, 3 cr animal or plant ecology, ‡) VI T; VI-VII Th
126w Embryology, Development of Insects (5 cr, §Zool 126; prereq 125, OrCh 42 or 62, ‡) Lect VI MWF, lab VII-VIII MWF
127s Insect Metabolism, Coordination (5 cr, §Zool 127; prereq 126, ‡...MdBc 101 or BioC 106 rec) Lect I-II T, I Th, lab III-V T, II-IV Th
130s Prin of Systematic Entomology (2 cr; prereq 15 cr ent or zool, ‡) V MW
131s Adv Insect Taxonomy I (3 cr; prereq 74) Lect I Th, Lab II-III Th, I-IV S
141w Insects in Relation to Plant Diseases (3 cr, §PlPa 141; prereq 5 cr plpa, ent or ‡) I-II TThS
165s Techniques of Fishery Biology (3 cr; prereq 65, 119, 121 or ‡) Lect VI-VII TTh, lab VIII TTh
166s Techniques of Wildlife Biology (3 cr; prereq 65, 77, Zool 76, Bot 50 or ‡) Lect V TTh, lab ar
175w Economic Entomology (4 cr; prereq 15 cr incl 50 or ‡) I MWF
180w Sr Seminar: Fisheries, Wildlife (1 cr; prereq sr)
194w-195s See 193f
200w,s See 200f
201w Experimental Ecology Lab (2 cr; prereq 118 or ¶) VII-IX T; VIII-X Th
202s Insect Ecology (3 cr; prereq 118 or ‡) Lect VI TTh, Lab VII-VIII TTh
208s Integrated Control (3 cr; prereq 74 or ‡) IV MWF
-241w-242s See 240f
251s Fishery Habitats, Development (3 cr; prereq 118, 165, Biom 100 or ‡) Lect VI-VII MW, Lab VIII MW
-265w-266s See 264f
273w Wildlife Mgt: Fur Bearers (3 cr; prereq 65, 77, Zool 116, Bot 50 or ‡) I TTh
-278w-279s‡ See 277f

FOOD SCIENCE AND INDUSTRIES (FSci)

Fall Quarter

10 Man's Food (3 cr) III MWF, DI 118, Morris
51 Food Process Chemistry (3 cr; prereq ¶61 except with ‡, BioC 2) I MWF, DI 255
61 Food Process Chemistry Lab (2 cr; prereq ¶51, BioC 2) VI-VIII TTh, DI 10
151 Food Process Chemistry (3 cr; prereq grad with ‡) I MWF, DI 255
154 Poultry Products (3 cr, §Poul 154; prereq 50, 51, 52, Poul 1) VIII-IX TTh, DI 118
161 Food Process Chemistry Lab (2 cr; prereq grad with ‡) VI-VIII TTh, DI 10
170 Special Probs: Food Manufacturing (1-3 cr; prereq sr or ‡) Coulter, Morris, Thomas
180 Special Probs: Dairy, Food Microbiology (1-3 cr; prereq sr or ‡) Jezeski, Olson
205 General Seminar (1 cr)

Winter and Spring Quarters

20s Intro Microbiology (4 cr; prereq 3rd qtr fr, ‡) Lect VI MF, Lab VI-VII W
40s Raw Food Procurement (3 cr; prereq MicB 53, BioC 2) Lect VI TTh, Lab VII-IX Th

50w Dairy, Food Microbiology (3 or 5 cr; prereq soph, MicB 53, lect only ‡) Lect VI MWF, Lab VII-VIII MWF

52w Food Physics, Process Engineering (5 cr; prereq Phys 2 or 5) Lect IV MWF, Lab VI-VIII TTh

100w Seminar: Food Industries Literature (2 cr; prereq sr, 3 courses FScI) V TTh

101s Prin of Dairy Processing I (3 or 5 cr; prereq 50, 51, 52) Lect IV MWF, lab VI-VIII MW

105w Sensory Testing of Foods; Theory, Methodology (2 cr; prereq 51) Lect I Th, Lab II-IV Th

106s Supervised Industry Practices (3 cr; prereq 15 cr FScI)

107s Quality Control Procedures (3 cr; prereq sr, 50, 51) I-III TTh

110w Sanitation Microbiology (3 cr; prereq sr, BioC 2, 2 courses MicB or ‡) III MWF

150w Dairy, Food Microbiology (3 or 5 cr; prereq grad or ‡, MicB 53) Lect VI MWF, Lab VII-VIII MWF

152w Food Physics, Process Engineering (5 cr; prereq grad, ‡) IV MWF

170w,s See 170f

180w,s See 180f

181s Adv Dairy, Food Microbiology (3 cr; prereq sr, 50, 101 or 102) II-III MWF

205w,s See 205f

FORESTRY (For)

Fall Quarter

1 Introduction (1 cr)
II TTh, GH 120, Hallgren

3 Intro to Forest Products (1 cr)
II TTh, FP 25

4 Dendrology (4 cr; prereq Biol 2)
Lect IV MWF, GH 120, Mohn, Pauley, lab ar

10 **Farm Forestry** (3 cr; prereq not open to forestry resources dev, science maj)
Lect IV TTh, GH 202, Scholten
—1, Lab VI-VIII T, FP 26
—2, Lab VI-VIII Th, GH 202

52 **Forest Mensuration** (3 cr, §7; prereq 6)
Lect I TTh, GH 211, Wensel
—1, Lab VII-IX T, GH 202
—2, Lab VII-IX W, GH 202

53 Forest Meteorology, Climatology (2 cr; prereq MeAg 25)
III TTh, GH 211

74 **Wood Structure, Identification** (3 cr; prereq 4)
Lect VII TTh, GH 211, Haygreen
—1, Lab VII-IX M, FP 26
—2, Lab VII-IX W, FP 26
—3, Lab VII-IX F, FP 26

77 Forest Products (2 cr)
Lect I TTh, GH 120, Kaufert, lab ar

78 Wood Products Quality Standards, Control (3 cr; prereq 74, Biom 90)
VI-VIII TTh, Haygreen, Thompson

122 Forest Business Practices (3 cr; prereq AgEc 3 or ¶)
III MWF, GH 211, Skok

141 Prins of Silvics (3 cr; prereq sr, 5, 128 or ‡) Hansen

150 Forest Genetics (3 cr; prereq Agro 30 or 131 or ‡) Pauley

153 Adv Forest Mgt (3 cr, §140; prereq sr, 139, 147 or ‡) Irving

156 Research (3 cr; prereq sr, ‡)
III TTh, V F, FP 25, Hossfeld, John, Merriam

183 Wood Finishing (2 cr) Hossfeld

198 Senior Topics (ar cr)

199 **Seminar** (1 cr; prereq sr)
—1, VI-VII M, GH 14, Kaufert, Winsness
—2, VIII-IX T, GH 14

200 Research Probs: Silviculture (ar cr) Bakuzis, B Brown, Hansen

203 Research Probs: Forest Mgt (ar cr) Hughes, Irving, Meyer, Winsness

205 Research Probs: Forest Economics (ar cr) Hughes, Skok

207 Research Probs: Forest Products Engineering (ar cr) Haygreen, Hossfeld, Kaufert

213 Research Probs: Forest Utilization (ar cr) Haygreen, Hossfeld, Kaufert

215 Research Probs: Forest-Tree Physiology (ar cr) Sucoff

218 Research Probs: Forest Measurements, Photogrammetry (ar cr) John, Meyer

219 Research Probs: Forest Recreation (ar cr) Hansen, Hughes, Merriam, Skok

220 Probs: Forest-Tree Genetics (ar cr) Pauley

221 Probs: Forest Influence (ar cr)

222 Probs: Forest Policy (ar cr) Hughes, Irving, Skok, Winsness

223 Seminar (1 cr)
VIII-IX Th, GH 211

Winter and Spring Quarters

10s See 10f

11w Conservation of Natural Resources (3 cr, §1A) III MWF

51w Logging (2 cr) II TTh

60s Forest Engineering (1 cr) Given at Cloquet
79w Strength of Wood Materials (4 cr; prereq 74, Math 10) Lect I MWF, lab II-IV T
81w Wood Drying (3 cr; prereq 74) Lect I TTh, lab VIII-IX T, IX F
82s Wood Preservation (3 cr; prereq 74, organic chem) Lect III TTh, lab ar
85w Glued Wood Products (3 cr, §57; prereq 74) Lect VII TTh, lab VIII-IX Th
86s Wood Fiber, Particle Products (3 cr; prereq 74, 85) Lect VI TTh
87s Building Materials Merchandising (3 cr; prereq AgEc 3) Lect VIII TTh
88w Building Materials Estimating (3 cr; prereq 78, MeAg 7, Ind 9) Lect VIII MW
100w Forest Fire (2 cr; prereq 4, 53) IV TTh
105s Range Mgt (2 cr, §104; prereq 53 or ‡ for nonforestry maj, Biol 2) VII TTh
109w Forest Aerial Photogrammetry (3 cr, §59; prereq 52 or ‡) I-III TTh or VI-VIII TTh
111w Statistical Methods (4 cr, §8; prereq 52, ¶109, Math 10 or ‡) Lect II MWF, lab VI-VIII M or T
123w Forest Economics (5 cr, §47; prereq 77, 122 or ‡) IV MTWThF
125s Silviculture I (2 cr; prereq 54)
128s Silviculture II (4 cr; prereq ¶125)
129s Regional Silviculture (3 cr; prereq 128 or ‡) III MWF
131w Forest Policy (3 cr; prereq sr)
133s Forest Mgmt, Utilization (4 cr; prereq 100, AgEc 3)
134s Forest Inventory, Photographic Interpretation (4 cr; prereq 111)
136s Adv Forest Economics (3 cr; prereq 123 or ‡) VI T, VI-VII Th
139s Timber Mgt (3 cr; prereq 111, 123, 125, 133 or ‡) IV MWF
143s Mgt of Recreational Lands (3 cr) I MWF
145w Adv Silviculture (3 cr; prereq sr, 129 or ‡)
146s Adv Forest Aerial Photogrammetry (3 cr; prereq sr, 109 or ‡)
147s Forest Admin (3 cr; prereq 123, 133 or ‡) III Th, IV TTh
148w Forest Hydrology (2 cr, §104; prereq 5, 53 or ‡ for nonforestry maj, Soil 3, Geo 1 or ‡) III TTh
149s Adv Forest Mensuration (3 cr; prereq 111 or ‡)
152w Forest-Tree Physiology (3 cr; prereq Biol 2, MeAg 25, BioC 1A or OrCh 42) III MWF
154w Adv Forest Hydrology (3 cr; prereq 148 or ‡)
157w Recreational Land Policy (3 cr; prereq 143 or ‡)
175w Wood Pulp, Paper (3 cr; prereq 74, organ chem) II MWF
176s Design of Wood Structures (4 cr; prereq 79 or ‡) VII TTh, lab VI-VIII MF
177s Wood Chemistry (3 cr; prereq 74, organ chem) III MWF
178s Woody Tissue Microtechnique (2 cr; prereq 74 or ‡) II-IV TTh
181w Moisture Relations in Wood (3 cr; prereq 81, 177)
182s Adv Wood Preservation (3 cr; prereq 82)
184s Adv Wood Chemistry (2 cr; prereq 177, AnCh 57) IV-IX W
185w Adhesion in Manufactured Wood Products (3 cr; prereq 86, 177)
186s Mechanical Behavior of Wood (3 cr; prereq 79 or ‡)
187w Adv Building Materials Merchandising (3 cr; prereq 87, Mktg 197)
195w Adv Wood Pulp, Paper (2 cr; prereq 175, AnCh 57) VI-VIII MW
198w,s See 198f
199w See 199f: Lect VIII-IX M; VIII-IX T
200w,s See 200f
203w,s See 203f
205w,s See 205f
207w,s See 207f
213w,s See 213f
215w,s See 215f
218w,s See 218f
219w,s See 219f
220w,s See 220f
221w,s See 221f
222w,s See 222f
224Aw Seminar: Forest Biology (1 cr) VIII-IX Th
224Bw Seminar: Forest Mgt (1 cr) VIII-IX Th
224Cw Seminar: Forest Products (1 cr) VIII-IX Th
225s Seminar (1 cr) VIII-IX Th
230s Forest Synecology (3 cr) I MWF

HOME ECONOMICS (HE)

Fall Quarter

1 **Clothing Selection** (3 cr, §GC 3C, no seniors)
III MWF, McNH 227, Grindereng
3 **Clothing Construction I** (3 cr; prereq 1)
—1, II-IV TTh, McNH 327, Williams
—2, II-IV TTh, McNH 328

4 Clothing Construction II (3 cr; prereq soph, 3)
VI-VII MWF, McNH 327, Williams

5 Contemporary Society (3 cr)
Lect II TTh, McNH 227, Gallagher
—1, Lab III T, McNH 227
—2, Lab IV T, McNH 227
—3, Lab III Th, McNH 227
—4, Lab IV Th, McNH 227
—5, Lab II W, McNH 303
—6, Lab II F, McNH 303

19 Visual Presentation (3 cr)
II-III MWF, McNH 433, Abell

20 Related Art (3 cr)
—1, II MWF, McNH 350, Myren
—2, III MWF, McNH 350, Myren
—3, IV MWF, McNH 350, Betsinger

21 Color (3 cr)
—1, III-IV MWF, McNH 342, Nagle
—2, IV-V MWF, McNH 359
—3, II-IV TTh, McNH 342, Bagley
—4, VI-VIII TTh, McNH 359

22 Costume Design (3 cr; prereq 1, 21, 19 or 23 or ‡)
6:00-9:00 TTh, McNH 342, Amir-Fazli

23 Design I (3 cr; prereq 21)
VI-VIII TTh, McNH 342, Bagley

24A Home Planning, Furnishings I (3 cr; prereq soph)
V MWF, McNH 350, Stoeckeler

24B Home Planning, Furnishings Experiences I (3 cr; prereq 21, 24A or ‡)
—1, II-IV TTh, McNH 360, 425, Nagle
—2, VI-VIII TTh, McNH 360, 425

26 Craft Probs I (3 cr...19 rec or ‡)
II-IV TTh, McNH 433, Abell

31 Nutrition (3 cr, §30 or GC 3B, not open to HE srs)
II MWF, McNH 227, Ross

40 Food Preparation (5 cr; prereq 3rd qtr fr, 2 qtrs chem)
—1, Lect IV TTh, McNH 48
Lab III-IV MWF, McNH 157
—2, Lect VII TTh, McNH 48
Lab VI-VII MWF, McNH 157

41 Food Mgt, Marketing (5 cr; prereq soph, 31, 40)
—1, Lect III WTh, McNH 150, Lund
Lab III-IV M, III-V F, McNH 156, 150, 152, Lund
Conf IV W, McNH 150, Lund
—2, Lect III TF, McNH 150, Trammell
Lab III-IV M, III-V Th, McNH 150, 152, 156
Conf IV T, McNH 150
—3, Lect VI WTh, McNH 150, Lund
Lab VI-VII M, VI-VIII T, McNH 150, 152, 156, Lund
Conf VII Th, McNH 150, Lund

49 Household Equipment (3 cr; prereq soph, Phys 1 or ‡)
—1, Lect VI-VII M, McNH 227
—1, Lab VI-VII W, McNH 128
—2, Lab VI-VII F, McNH 128
—2, Lect VI-VII T, McNH 128, Ehrenkranz
Lab VI-VII Th, McNH 128

50 Textiles (4 cr; prereq 3rd qtr soph, GeCh 5 or NSci 2 or ‡)
—1, III-IV MWF, McNH 303, Franzen
—2, II-IV TTh, McNH 303, Franzen

53 Adv Clothing (3 cr; prereq jr, 4, 50 or ¶)
VI-VII MWF, McNH 328, Mahannah

58 Supervised Retail Training (4 cr; prereq 21, 50, Psy 2, ‡)
VIII WF, all day S, McNH 303, Grindereng

58A Field Experiences (3 cr; prereq completion one half prof sequence, ‡, Psy 2)
IX T and ar, McNH 342, Ludwig

63 Quantity Food Purchasing, Production (5 cr; prereq 41, 3rd qtr soph)
I-IV TTh, 2 hrs ar, DinC 152, Verstraete

67 Food Service Organization, Mgt (3 cr; prereq 63)
IV MWF, DinC 154, Verstraete

70 Adv Food Preparation (3 cr; prereq 40, BioC 1A)
Lect VII-VIII M, McNH 48, Trammell
—1, Lab VII-VIII W, McNH 56
—2, Lab VII-VIII F, McNH 56

76 Nutrition of the Family (3 cr, §170; prereq 31, 40, phsl or hum biol)
IV MWF, 1 hr ar, McNH 48, Swan

85 Home Mgt Principles (3 cr; prereq 40, AgEc 2...41 rec)
VII MWF, McNH 201, Jeary

86 Home Mgt Lab (4 cr; prereq 85 or ¶...41 rec)
—1, I MTWThFS, Home Mgt House
—2, I MTWThFS, Home Mgt House

86A Home Mgt Lab (4 cr; prereq ‡)

87 Family Relationships (3 cr; prereq Psy 2, Soc 1 or 1A)
2:15-2:30 TTh, McNH 201

102 Adv Textiles (3 cr; prereq 50, BioC 1A or OrCh 42, AgEc 2 or Econ 2 or ‡)
VI-VIII TTh, McNH 303, 304, Davison

120 Art History (3 cr)
VIII MWF, McNH 350, Esteros

121 Textile Design (3 cr; prereq 21, 23 or ‡...19 rec)
VI-VIII TTh, McNH 433, Abell

122A Interior Design Presentation (3 cr; prereq 19, 24B)
III-IV TTh, 1 hr ar, McNH 359, Forsyth

123A **History of Home Interiors, Furnishings I** (3 cr; prereq 120)
II MWF, McNH 360, Forsyth

126 **Craft Probs II** (3 cr; prereq 25 or 26 or ‡)
II-IV TTh, McNH 433, Abell

126A **Probs: Related Art** (3 cr; prereq cons div chrm) Esteros

127 **Purchasing Home Furnishings** (3 cr; prereq 24A, 50)
VI-VII MWF, McNH 360, Ludwig

140 New Developments in Food Preparation (3 cr; prereq sr, 40...73 rec)
9:15-10:25 TTh, McNH 44, Noble

142 **Experimental Cookery** (3 cr; prereq 73, BioC 1A)
Lect VI TTh, McNH 48, Maruyama
Lab VII-VIII TTh, McNH 56, Maruyama

170 **Nutrition Prins** (3 cr; prereq 31, 40, BioC 1A, Phsl 51)
III MWF, McNH 48, Morse

177 Metabolic Basis for Therapeutic Nutrition (4 cr; prereq ¶178 or ‡)

178 **Clinical Probs in Nutrition** (2-4 cr; prereq 35 or ¶, 170)
—1, Lab VI-VIII T, 1 hr ar, U Hosp **(Mpls Campus)** Ross
—2, Lab VI-VIII Th, 1 hr ar, U Hosp **(Mpls Campus)** Ross

185 **Theory, Research: Family Relationships** (3 cr; prereq 87)
II-III TTh, McNH 201

187 **Readings: Family Relationships** (1-3 cr, 3 cr max; prereq ‡)

189A Construction, Use Characteristics of Household Appliances (3 cr; prereq 49)
II-IV TTh, McNH 124, 128, Ehrenkranz

201 Readings: Textiles, Clothing (1-3 cr; prereq 102, 115 or 116, ‡) Davison

220 Readings: Related Art (1-3 cr; prereq ‡, no seniors)

221 Probs: Textile Design (1-3 cr; prereq 121 or ‡)

227 Probs: Home Planning, Furnishing (1-3 cr; prereq 180 or ‡...122B rec) Esteros, Ludwig

229 Seminar: Related Art (1 cr)
IX W, McNH 342, Esteros

272 Human Metabolic Studies in Health, Disease (4 cr; prereq 173, ‡)

273 Adv Diet Therapy (4 cr; prereq 173 or ‡)

279 Seminar: Nutrition (1 cr; prereq ‡)
IX W, McNH 201, Sirny

295 Probs: Home Economics (1-5 cr; prereq ‡) Brown, Burk, Davison, Doyle, Ehrenkranz, Ford, Morse, Noble, Sirny, Swan, Tallman

296 Probs: Home Economics (1-5 cr; prereq 295) Brown, Burk, Davison, Doyle, Ehrenkranz, Ford, Morse, Noble, Sirny, Swan, Tallman

Winter and Spring Quarters

1w,s See 1f

3w,s See 3f

4w,s See 4f

5w,s See 5f: Lect II Th (w); II MWF (s), lab II WF (w); III TTh (w); IV TTh (w)

19w,s See 19f: I-II MWF (w); II-IV TTh (s); VI-VIII TTh (s)

20w See 20f: II MWF; III MWF

21w,s See 21f: II-IV TTh (w,s); II-IV MWF (s); III-IV MWF (w); VI-VIII TTh (w,s)

23w See 23f: VI-VII MWF

24Aw,s See 24Af: III MWF (s); IV MWF (w)

24Bw,s See 24Bf: II-IV TTh (w,s); III-IV MWF (w); VI-VIII TTh (s)

25s Craft Design (3 cr...21, 23 rec) II-III MWF

28w Construction, Refinishing of Home Furnishings (3 cr; prereq ‡) II-IV TTh

29s Art, Environment (3 cr; prereq 3rd qtr fr) Lect IV MW, lab IV-V F

31s See 21f: VII MWF

40w,s See 40f: Lect IV TTh (w); VII TTh (w,s); II TTh (s); IV TTh (s), lab III-IV MWF (w,s); III-V TTh (s); VI-VII MWF (w,s)

41w See 41f: Lect III TW; VI WTh, lab III-IV M; III-V Th; VI-VII M; VI-VIII T, Conf IV T; VII Th

41s See 41f: Lect III TW; VI WTh, lab III-IV M; III-V Th; VI-VII M; VI-VIII T, Conf IV T; VII Th

49w,s See 49f: Lect III-IV M (s); VII-VIII T (w), lab III-IV W (s); III-IV F (s); VII-VIII Th (w)

50w,s See 50f: III-IV MWF (w,s); II-IV TTh (s)

52w Home Furnishing Textiles (3 cr; prereq 50) II-IV TTh

54A Fashion Merchandising I (3 cr; prereq Mktg 107, ‡) VIII MWF

58As See 58Af: IX Th and ar

63w,s See 63f

69w,s Administrative Food Service Experience (5 cr; prereq 67)

71s Demonstrations (1 cr; prereq 3rd qtr jr, 41) VI-VII F

73w Experimental Foods (3 cr; prereq 40, BioC 1A) Lect VI TTh, lab VII-VIII TTh

76s See 76f: II MWF
85w,s See 85f
86w,s See 86f
86Bs Experimental House (4 cr; prereq jr, ‡, △) I MTWThFS
87w,s See 87f: 2:15-3:30 TTh
88s Intro to Food Quality Evaluation (3 cr; prereq 40, 73, BioC 1A) Lect IV T, II Th, lab II-III T
100w Homes of the World (3 cr; prereq 24 or 29) 6:00-9:00 **pm** TTh
107w Textile Analysis (3 cr; prereq 50, BioC 1A or OrCh 42, InCh 11, AnCh 57) VI-VIII TTh
115w Sociological, Economic Aspects of Clothing (3 cr; prereq 50, AgEc 2 or Econ 2, Soc 1 or 1A, Psy 2 or ‡) VI MWF
116s Family Clothing Probs (3 cr; prereq 50, AgEc 2 or Econ 2, Soc 1 or 1A, Psy 2 or ‡) VI MWF
118A History of Decorative Arts I (3 cr; prereq 120) V MWF
120w See 120f
120As Seminar: Related Art (1 cr; prereq sr, rel art) IX W
122Bs Interior Design Probs (3 cr; prereq 122A, 121) II-IV TTh
-123Bw‡ See 123Af: VIII MWF
125w Adv Costume Design (3 cr; prereq 3, 22 or ‡) 6:00-9:00 **pm** TTh
126Aw,s See 126Af: ar
127s See 127f: I-II MWF; IV-V MWF
128s History of Costume (3 cr; prereq 120) VIII MWF
129s Design II (3 cr; prereq 21, 23 or ‡) VI-VII MWF
131s Lab Probs: Household Equipment (3 cr; prereq 49, 3 cr foods, clothing, textiles or ‡) II-III TTh
141w Current Literature in Foods (3 cr; prereq sr, 40) 8:45-9:55 TTh
142w,s See 142f: Lect VI MW (w); VI TTh (s), lab VII-VIII TTh (w,s)
146s Special Food Prob (3 cr; prereq sr, 142) Lect VI MW, Lab VII-VIII MW
171w Maternal, Child Nutrition (3 cr; prereq 170, HEEd 90) III MWF
173s Diet Therapy (4 cr; prereq 170...35 rec) 11:00-12:15 TTh
174w,s Topics: Nutrition (1 cr; prereq 170) V W (w,s)
176s Adv Nutrition (4 cr; prereq 35 or ¶, GeCh 6, AnCh 57) VI-VII MW
178w,s See 178f
179w Readings: Nutrition (2 cr; prereq 170)
180w Adv Home Planning, Furnishing II (3 cr; prereq 24B, 50) VI-VII MWF
182w Parent in American Society (3 cr; prereq 87) 4:15-5:30 TTh
183w The Family in World Perspective (3 cr; prereq HEEd 90 or ‡) VI-VII TTh
186s Family Economics (3 cr; prereq 85 or ‡) 7:00-8:00 **pm** TTh
188s Evaluation of Food Quality (3 cr; prereq 142, BioC 1A, Biom 90 or 100, GeCh 6, AnCh 57) Lect IV T, II Th, lab II-III T
-189Bw-189Cs See 189Af: II-IV TTh (w); ar (s)
190s Family Relationships Colloquium (2 cr, 4 cr max; prereq 185 or 15 cr child dev, psy and/or soc) 7:30-9:30 **pm** W
197w Applications of Art Theory (3 cr; prereq 120) VIII TTh
201s See 201f
209w Seminar: Textiles, Clothing (1 cr; prereq ‡) X W
220w,s See 220f
221s See 221f
227w,s See 227f
247w,s See 227f
247w Probs: Food (3 cr; prereq 142, BioC 1, ‡)
249w Seminar: Foods (1 or 2 cr; prereq ‡)
271w Human Nutrition (3 cr; prereq 270)
272w,s See 272f
273w,s See 273f
279w,s See 279f
289w Seminar: Household Equipment (2 cr; prereq 6 cr in 189)
290s Seminar: Home Mgt, Family Relationships (1-2 cr; prereq 185, stat)
295w,s See 295f
296w,s See 296f

HORTICULTURAL SCIENCE (Hort)

Fall Quarter

1 **Gen Horticulture** (4 cr)
Lect II MWF, Hr 102, Turnquist
—1, Lab VII-IX M, Hr 8
—2, Lab VII-IX T
21 Woody Plant Materials I (3 cr)
VII-IX TTh, Hr 8, Mullin
24 Theory of Landscape Design (3 cr)
III-IV TTh, Hr 302, Hard
41 Horticultural Crop Judging (3 cr; prereq 1, 6 or 32) Turnquist
43 Nursery Practices (3 cr; prereq 1 or ‡)
Lect IV TTh, Hr 8, White
Lab II-III Th, Hr 8
60 Landscape Design (3 cr; prereq 21, 22 or ‡)
VII-IX WF, Hr 302, Phillips

62 Probs: Landscape Design, Composition (2-4 cr; prereq sr, 61 or ‡) Phillips
105 Frozen Food Problems (2-4 cr; prereq 104 or ‡) Munson
107 Orchard Mgt (3 cr; prereq 6, hort maj or min or ‡) Andersen
112 Prins of Recreational Design (2 cr) III MF, Hr 106, White
112A Prins of Recreational Design Lab (3 cr; prereq 63, 112) VI-VIII TTh, Hr 302, White
135 Potatoes (2 cr; prereq 32) I TTh, Hr 106, Lauer
136 Adaptation, Maintenance of Vegetable Varieties (3 cr; prereq 32) Turnquist
190 Special Probs (2-4 cr; prereq ‡) Snyder, others
242 Seminar (1 cr; prereq 9 cr) IX W, Hr 301, Snyder, others
251 Adv Probs in Horticultural Crop Breeding (3-9 cr; prereq ‡)
252 Adv Probs in Physiology of Horticultural Crops (3-9 cr; prereq ‡)

Winter and Spring Quarters

1s See 1f
6w Fruit Growing (3 cr; prereq Biol 2 or 3 cr bot) III MWF
10s Ornamental Horticulture (3 cr) IV MWF
16s Greenhouse Mgt (3 cr; prereq Biol 2) Lect IV TTh, Lab VI-VIII TTh
22s Woody Plant Materials II (3 cr) VII-IX TTh
23s Herbaceous Plant Materials (3 cr, §51; prereq Biol 2 or 6 cr bot) Lect I TTh, Lab VII-IX M
25w History of Landscape Design III (3 cr) III-IV TTh
32s Vegetable Growing (3 cr; prereq Biol 2 or 6 cr bot) I MWF
36w Plant Propagation (3 cr; prereq Biol 2 or 6 cr bot) Lect IV TTh, Lab VI-VIII Th
40s Horticultural Practices (2 cr; prereq soph, 6 or ‡) VI-IX F
61s Planting Composition (3 cr; prereq 60 or ‡) VII-IX WF
62w,s See 62f
63w Prins of Landscape Design II (3 cr; prereq 24, 60) VII-IX TTh
76s Landscape Construction, Maintenance (3 cr) III-V TTh
99w Seminar (1 cr; prereq jr) IX Th
104w Frozen Food Processing, Storage (3 cr; prereq BioC 5 or 6 or 10, MicB 53 or ‡) IV MWF
105w,s See 105f
113w Adv Landscape Design (5 cr; prereq 63) VII-IX MWF
114s Sr Design Thesis (5 cr; prereq 113)
137w Adv Plant Propagation (3 cr, §36; prereq Bot 51 or BioC 105) Lect IV TTh, Lab VI-VIII Th
138w Light, Temperature Requirements of Horticultural Plants (3 cr; prereq 15 cr plant sci incl 3 cr plant physiol) VII MWF
144w Professional Practices (2 cr; prereq sr landscape design) VI MW
-191w-192s‡ See 190f
222w Breeding Asexually Propagated Crops (3 cr; prereq 110)
241w Organization of Research (2 cr)
242w See 242f
248w Truck Crop Breeding (3 cr; prereq 110 or Agro 132) I MWF
251w,s See 251f
252w,s See 252f

INFORMATION AND AGRICULTURAL JOURNALISM (AgJo)

Fall Quarter

53 Publicity (3 cr; prereq rhet comm req) I MWF, AgBot 107, Swanson, others

Winter and Spring Quarters

53w,s See 53f: I MWF (s); 8:15-9:30 TTh (w)
134s Rural Communication Media, Behavior (3 cr; prereq 53, Psy 1-2, Soc 14 or ‡) VIII-IX TTh

PLANT PATHOLOGY AND PHYSIOLOGY (PlPa)

Fall Quarter

1 **Plant Pathology** (5 cr, §51; prereq soph, 9 cr plant sci incl 6 cr bot or Biol 2)
Lect VIII MWF, PP 103, Moore
Lab IX-X MWF, PP 105, Moore
51 **Forest Pathology** (4 cr, §1; prereq 6 cr bot or Biol 2)
Lect VI TTh, PP 103, French
—1, Lab VII-IX TTh, PP 105, French
—2, Lab I-II MWF, PP 105, French
90 Research (ar cr; prereq 1, 51, 56 or ‡) French, Wilcoxson

91 Research Probs (ar cr; prereq 21 or ‡) Sudia

105 Study of Fungi (3 cr, §106, 107; prereq 9 cr bot or Biol 2 or ‡)
Lect II TTh, PP 103, Christensen
Lab III-IV TTh, PP 105, Christensen

113 Plant Pathology (2 cr; prereq 112)
II TTh, PP 401, Kommedahl

118 Bacterial Diseases of Plants (3 cr; prereq 1 or 51 or 120, 3 cr bact)
Lect I TThS, PP 103, Eide, Kennedy
Lab II TThS, PP 106, Eide, Kennedy

120 **Plant Pathology for Adv Students** (3 cr, §1 or 51; prereq 14 cr plant sci or ‡)
Lect VIII MWF, PP 103, Moore
Lab IX-X MWF, PP 105, Moore

164 Mineral Nutrition of Economic Plants (3 cr; prereq Biol 2, Bot 140)
III MWF, AgBot 107, Sudia

182 Plant Physiology (3 cr; prereq collular metabolism)
II TThS, HS W30, Olson, Soulen

188 Research Perspectives in Plant Physiology (1-4 cr; prereq ‡) Behrens, others

190 Biological Concepts I-II (4 cr; prereq 25 cr biol sci, Biology Institute students only)
IV-V TTh, AgBot 107, 1 hr ar, Olson

201 Research: Nematology (ar cr; prereq 101 or ‡) Kernkamp, others

203 Research (ar cr) Kernkamp, others

207 Probs: Mycology (ar cr; prereq 105, 106, 107) Anderson, French, Christensen

213 Seminar (1 cr)
IX-X T, PP 401, Kernkamp, others

215 Genetics of Plant Pathogens (3 cr; prereq 1 or 51, 105, Agro 131)
Lect III TTh, PP 401, Anderson, Kernkamp
Lab II-III S, PP 105, Anderson, Kernkamp

251 Seminar: Plant Physiology (1 cr)
IX Th, AgBot 107, Sudia

254 Research Probs: Plant Physiology (ar cr) Linck, Stadelmann, Sudia

Winter and Spring Quarters

1s See 1f

90w See 90f

91w,s See 91f

101s Nematodes in Relation to Plant Diseases (3 cr; prereq 1, 51 or 120, 6 cr zool or Biol 2 or ‡) Lect I MWF, Lab II-III MWF

106w-107s‡ Mycology (3 cr; prereq 1 or 51 or 105) Lect VI TTh, lab VII-VIII TTh

109w Physiology, Biochemistry of Fungi (3 cr; prereq BioC 51 or ‡) Lect VI MWF, Lab VII-IX MWF

112s Plant Pathology (2 cr; prereq 105, 120) II TTh

119s Plant Disease Control (3 cr; prereq 1 or 51 or 120) Lect III TTh, Lab IV-V TTh

120s See 1f

137s Animal Diseases, Poisonous Plants (3 cr, §VMC 137; prereq ‡) VI MW

141w Insects in Relation to Plant Diseases (3 cr, §Ent 141; prereq 5 cr plpa, 5 cr ent or ‡) I-II TTh

167s Physiology of the Plant Cell (3 cr; prereq plant physiology, anat, inorganic, organic chem, or biochem) VI MWF

-191w See 190f

192w Advances in Biology (1 cr, Biology Institute students only) IX F

193s Scientific Research Method (3 cr; prereq 25 or biological sci, Biology Institute students only)

201w,s See 201f

203w,s See 203f

207w,s See 207f

213w,s See 213f

217s Ecology of Plant Pathogens (3 cr; prereq 1 or 51 or 120, 105) IV MWF

251w,s See 251f

254w,s See 254f

280w Radioisotope Techniques Applied to Biology (3 cr; prereq course in nuclear physics) VI-VIII TTh

POULTRY SCIENCE (Poul)

Fall Quarter

55 Problems (1-3 cr; prereq ‡)

105 Comparative Vertebrate Physiology (3 cr; prereq VPP 41 or ‡)
II MWF, PetH 108, Phillips

214 Research (ar cr; prereq ‡)

215 Research: Poultry Nutrition (ar cr; prereq 9 cr biochem) Snetsinger, Waibel

216 Research: Avian Genetics, Cytogenetics (ar cr; prereq 9 cr gen or ‡) Shoffner

217 Seminar (1 cr; prereq ‡)

218 Research: Poultry Products (ar cr; prereq ‡)

219 Research: Avian Physiology (ar cr; prereq ‡) Phillips

Winter and Spring Quarters

1w,s Poultry Production (3 cr) II MWF

55w,s See 55f

102w Avian Genetics, Cytogenetics (3 cr; prereq Gen 66 or ♯) I MWF
-106w See 105f
131s Poultry Diseases, Production (5 cr; prereq VPap 153, ♯) I MTWThF
153s Poultry Nutrition (3 cr; prereq 1, BioC 51 or ♯) IV MWF
214w,s See 214f
215w,s 215f
216w,s See 216f
217w,s See 217f
218w,s See 218f
219w,s See 219f
222w Energy in Animal Nutrition (3 cr; prereq BioC 52 or 152 or ♯...BioC 143 rec)
223s Protein, Amino Acid Nutrition (3 cr; prereq 52 or 152 or ♯...BioC 143 rec) VI MWF

RHETORIC (Rhet)

Fall Quarter

1 **Communication I** (3 cr)
Lect I M, PetH 108, Lair, others
—1, I WF, PetH 108
—2, I TTh, PetH 108
Lect I M, McNH 350
—3, I WF, McNH 350
—4, I TTh, McNH 350
Lect I M, McNH 48
—5, I WF, McNH 48
—6, I TTh, McNH 48
Lect I M, Hr 301
—7, I WF, Hr 301
—8, I TTh, Hr 301
—9, I MWF, McNH 201
—10, I MWF, McNH 44
Lect II M, DI 118
—11, II WF, DI 118
—12, II TTh, DI 118
Lect III M, AgEng 108
—13, III WF, AgEng 108
—14, III TTh, AgEng 108
Lect III M, GorC 12
—15, III WF, GorC 12
—16, III TTh, GorC 12
Lect IV M, McNH 44
—17, IV WF, McNH 44
—18, IV TTh, McNH 44
Lect V M, GorC 12
—19, V WF, GorC 12
—20, V TTh, GorC 12
—21, V MWF, McNH 44
—22, V MWF, AgEng 317
Lect VI M, Hr 301
—23, VI WF, Hr 301
—24, VI TTh, Hr 301
—25, VI MWF, AgEng 105
—26, VI MTTh, DI 255
Lect VII M, McNH 44
—27, VII WF, McNH 44
—28, VII TTh, McNH 44

2 **Communication II** (3 cr; prereq 1)
—1, I MWF, AgEng 307, Thurston
—2, I MTTh, AgEng 317, Brock

3 **Communication III** (3 cr; prereq 1)
I MWF, DI 118, R Brown

4 **Communication IV** (3 cr; prereq 1)
I MWF, AgEng 315, J Brown

22 **Public Speaking** (3 cr; prereq rhet comm req)
—1, II MWF, AgEng 307
—2, II MWF, GorC 15, Forston
—3, III MWF, McNH 44, Marchand
—4, III MWF, AgEng 307
—5, IV MWF, AgEng 307, Nichols
—6, IV MWF, AgEng 315, R Brown
—7, V MWF, AgEng 307, Garvin
—8, VI MWF, AgEng 307
—9, VII MWF, AgEng 307, Felien

25 **Parliamentary Procedure** (1 cr)
IV TTh, DinC 154, Miller

31 **Intro to Literature** (3 cr; prereq rhet comm req)
III MWF, AgEng 105, Savage

32 **Novel, Short Story** (3 cr; prereq rhet comm req)
V MWF, AgEng 315, Savage

33 **American Literature** (3 cr; prereq rhet comm req)
9:45-11:00 T⊥n, AgEng 317, Savage

41 **Humanities: Enlightenment** (3 cr)
—1, I MWF, NorH 100, Drake
—2, II MWF, NorH 100, Marchand
—3, III MWF, NorH 100, Drake
—4, 12:45-2:00 TTh, NorH 100, Davenport
—5, III MWF, AgEng 315, J Brown

42 **Humanities: The Industrial Revolution** (3 cr; prereq 41)
—1, IV MWF, NorH 100, Price
—2, VI MWF, NorH 100, Price

43 **Humanities: Age of Darwin** (3 cr; prereq 41)
8:15-9:30 TTh, NorH 100, Drake

47 **Efficient Reading** (3 cr; prereq rhet comm req)
—1 ,VI MWF, AgEng 315, J Brown
—2, VII MWF, AgEng 315, J Brown

51 **Exposition** (3 cr; prereq jr)
—1, IV MWF, AgEng 317, Wright
—2, V MWF, AgEng 105, Brock
—3, VI MWF, AgEng 317, Horberg
—4, VII MWF, AgEng 317, Savage
—5, 9:45-11:00 TTh, PetH 108, Lair

52 **Technical Writing** (3 cr; prereq 51)
III MWF, AgEng 317, Thurston

54 **Adv Public Speaking** (3 cr; prereq 22)
II MWF, AgEng 315, Garvin
56 **Discussion Methods** (3 cr; prereq rhet comm req)
V MWF, HH 210, Geier
60 **Contemporary Literature** (3 cr; prereq rhet comm req)
II MWF, AgEng 317, Rosenthal
61 **Humanities: Individualism—An American Prob** (3 cr)
9:45-11:00 TTh, NorH 100, Price
91 **American Speech for Foreign Students** (no cr)
IX MWF, AgEng 105, White
151 **Report, Thesis Writing** (3 cr; prereq 51 or ♯)
VIII M, VIII-IX W, AgEng 307, Thurston
169 Communication Probs, Processes (3 cr; prereq ♯)
II-IV S, AgEng 105, R Brown

Winter and Spring Quarters

1w See 1f: Lect I M, lab I WF or TTh
1s See 1f: I MWF
2w See 2f: Lect I or II or III or IV or V or VI or VII M, lab I or II or III or IV or V or VI or VII MTWThF
3w See 3f: I MWF, I MTTh
3s See 3f: Lect I or II or III or IV or V M, lab I or II or III or IV or V TWThF; VI or VII MWF
4w See 4f: I or III MWF; 9:45-11:00 TTh
4s See 4f: I or II MWF; 8:15-9:30 TTh; 12:45-2:00 TTh
22w,s See 22f: II or III or IV or V or VI MWF (w,s); VII MWF (w only)
25w,s See 25f
26s Original Writing (3 cr; prereq rhet comm req) 9:45-11:00 TTh
31w,s See 31f: III MWF
32w,s See 32f
33w,s See 33f: 9:45-11:00 TTh
34s Literature of the Theatre (3 cr; prereq rhet comm req) 3:45-5:00 TTh
41w,s See 41f: II MWF (s); III MWF (w,s); IV MWF (s); V-VI MWF (w)
42w See 42f: I or II or III or IV MWF; 9:45-11:00 TTh
42s See 42f: III MWF; 9:45-11:00 TTh
43w,s See 43f: 8:15-9:30 TTh (w); I or IV MWF (s); 8:15-9:30 TTh (s)
47w,s See 47f
51w,s See 51f: IV or V or VI or VII MWF (w,s); 9:45-11:00 TTh (w,s)
52w,s See 52f
54w,s See 54f
56w,s See 56f
60w,s See 60f: II MWF
62w Humanities: Religion in American Thought, Experience (3 cr) 9:45-11:00 TTh
63s Humanities: Nationalism in American Thought, Experience (3 cr) IV MWF
91w,s See 91f
92w Communication Probs for Foreign Exchange Groups (3 cr; prereq elem knowledge of oral, written Engl) IV MWF
141s Humanities Seminar: Individual, Society (3 cr; prereq rhet 41, 42, 43 or ♯) 3:15-4:00 Th
147s Adult Reading Programs (2 cr) VIII M; VIII-X W
151w,s See 151f: VIII M (w,s); VIII-IX W (w,s); 3:45-5:00 TTh (s)
251s Seminar: Listening Comprehension (2 cr, §Spch 251; prereq undergrad spch maj, ♯) 3:15-5:00 Th

SOIL SCIENCE (Soil)

Fall Quarter

18 Forest Soils (3 cr, §19; prereq soph, GeCh 5)
III MWF, GH 120, Arneman
18B **Forest Soils Lab** (1 cr; prereq 18 or ¶)
—1, Lab VII-IX M, So 115, 120, Arneman
—2, Lab VII-IX T, So 115, 120
19 **Intro Soil Science** (4 cr, §18; prereq ¶GeCh 5 or regis technical certificate prog)
Lect I MWF, So 115, Arneman, Martin
—1, Lab VII-IX M, So 115, 120
—2, Lab VII-IX T, So 115, 120
—3, Lab VII-IX W, So 115, 120
51 Soil Mgt, Land Use (3 cr, §1; prereq 19 or regis technical certificate)
III MWF, So 115, Burson
119 **Interm Soil Science** (3 cr; prereq GeCh 5)
Lect I MWF, So 115, Arneman, Martin
—1, Lab VII-IX M, So 115, 120
—2, Lab VII-IX T, So 115, 120
—3, Lab VII-IX W, So 115, 120
125 Soil Development, Classification (3 cr; prereq 55 or 105 or ♯)
8:15-9:30 TTh, So 115, Rust
126 **Soil Physics** (4 cr; prereq 18 or 19, Math 10, MeAg 23)
Lect II MWF, So 115, Blake
Lab VII-IX T, So 132
130 Problems (1-5 cr; prereq 18 or 19 or 119)
135 **Soil Analytical Chemistry Techniques** (3 cr; prereq 18 or 19, 5 cr phys, course in anal chem) Adams

136 Organic, Pesticidal Residues (3 cr; prereq 19, 11 cr biochem and/or organ chem)
12:45-2:00 TTh, So 115, Adams
203 Seminar (1 cr)
IX T, So 215

Winter and Spring Quarters

19w See 19f: Lect I MWF, lab VII-IX W or Th or F
51w See 51f
52w Topics (1 cr; prereq 18 or 19) VIII-IX F
53s Soil, Water Mgt, Conservation (3 cr; prereq 18 or 19) 9:45-11:00 TTh
54w Soil Fertility Evaluation (3 cr; prereq 18 or 19) Lect IV TTh; lab VI-VIII M; VI-VIII T
55s Soil Geography (4 cr; prereq 18 or 19) Lect 8:15-9:30 TTh, Lab VI-VIII Th
103s Soil, Water Mgt, Conservation (2 cr; prereq 18 or 19 or 119) 9:45-11:00 TTh
105s Soil Geography (3 cr; prereq 18 or 19 or 119) Lect 8:15-9:30 TTh, lab VI-VIII Th
119w See 119f: Lect I MWF, Lab VII-IX W or Th or F
123w Fertilizers (3 cr; prereq 18 or 19 or 119 or ♯) II MWF
127s Soil Microbiology (4 cr, §MicB 103; prereq MicB 53, 8 cr organ chem, ♯) Lect II MWF, Lab III-IV MF
128s Soil Chemistry (3 cr; prereq 18 or 19 or 119) Lect 9:45-11:00 TTh
130w,s See 130f
132w Soil Fertility (3 cr; prereq 18 or 19 or 119) IV MWF
133s Microclimatology (3 cr; prereq Math 10, MeAg 23) Lect VIII-IX T; VIII Th
134w Organic Soils (3 cr; prereq 18 or 19 or 119) 8:15-9:30 TTh
203w See 203f
214w Radioisotope Techniques Applied to Biology (3 cr; prereq nuclear phys) 1:30-4:30 TTh

UNATTACHED COURSES

Biometrics (Biom)

Fall Quarter

90 Statistics (3 cr; prereq coll alg or ♯) 11:15-12:30 TTh, GorC 10, Keenan
100 Statistical Analysis I (4 cr; prereq 90, coll alg or grad)
VI MWF, GorC 10, Keenan, lab ar
202 Adv Experimental Methods (3 cr; prereq 181, 1 qtr calc)

Winter and Spring Quarters

90s See 90f: II MWF
100w See 100f: 11:15-12:30 TTh
101w Statistical Analysis (4 cr; prereq 100) IV MWF
110w Computers: Agricultural, Biological Research (3 cr; prereq 101) IV TTh
171s Sampling Techniques (3 cr; prereq 101) 11:15-12:30 TTh
181s Experimental Design (3 cr; prereq 101) III-IV T, III Th

Orientation (Orie)

Fall Quarter

1 College Orientation Lectures (1 cr)
—1, I T, PetH 110, Goodding
—2, I W, PetH 110, Goodding

Winter and Spring Quarters

1w,s See 1f: IV Th (w); I T (s)

COLLEGE OF BIOLOGICAL SCIENCES

BIOCHEMISTRY (BioC)

Fall Quarter

1 Elementary Biochemistry I (5 cr, §OrCh 41 or 61; prereq GeCh 5)
II MTWThF, GorC 10, Glass
53 Dairy Biochemistry (3 cr; prereq ¶63, 52 or ♯)
III MWF, SnH 14, Jenness
63 Dairy Biochemistry Lab (2 cr; prereq ¶53, 52)
VI-VIII MW, SnH 102, Jenness
119 Physical Biochemistry (3 cr; prereq OrCh 62, Phys 9)
IV MWF, SnH 14, Briggs
141 Gen Biochemistry (3 cr; prereq ¶145-146 or △, 1 yr org chem, cr in phy chem or ¶PCh 101, 107, or 90, ♯)
I MWF, C 325, Liener

145 **Gen Biochemistry Lab** (3 cr; prereq ¶141-142, 4 cr anal chem, ‡)
—1, VI-VIII MW, VI F, SnH 14, 102, 108, Glass, Lovrien
—2, VI-VIII TTh, VI F, SnH 14, 102, 108, Glass, Lovrien

153 Dairy Biochemistry (3 cr; prereq ¶163, 52 or 152 or ‡)
III MWF, SnH 14, Jenness

163 Dairy Biochemistry Lab (2 cr; prereq ¶153, 52 or 152)
VI-VIII MW, SnH 102, 108, Jenness

204 **Tracer Techniques** (3 cr; prereq 143, ‡ or MdBc 144, 146...MeAg 127 rec)
—1, VI-VIII MWF, SnH 102, 108, Kirkwood
—2, VI-VIII TThF, SnH 102, 108, Kirkwood

224 Vitamins (3 cr; prereq 143 or ‡)
I TThS, SnH 14, Schultze

Winter and Spring Quarters

1s See 1f

51w-52s Intro to Biochemistry (4 cr; prereq OrCh 42 or 62) I MWF (w,s); II-IV T (w,s); VI-VIII F (w,s)

-142w See 141f

143s Metabolic Reactions (3 cr; prereq 142, ‡) I MWF

-146w‡ See 145f

147s Adv Biochemical Techniques (3 cr; prereq 146 or MdBc 146, ¶143, ‡) VI F; VI-VIII MW; VI-VIII TTh

220w Adv Protein Chemistry (2 cr; prereq 143 or MdBc 144) I TTh

223s Adv Enzyme Chemistry (2 cr; prereq 143 or MdBc 144) III MW

BIOLOGY (Biol)

Fall Quarter

1 **Gen Biol** (5 cr, †1-2; prereq major requiring Biol 1-2 or jr (fall) or soph (winter); no prereq in spring)
—1, Lect I MWF, CB(W) 150, CCTV
—2, Lect I MWF, CB(W) 130, CCTV
—3, Lect I MWF, VH 303, CCTV
—4, Lect I MWF, ForH 150, CCTV
—5, Lect I MWF, AE 309, CCTV
—6, Lect I MWF, AE 313, CCTV
—7, Lect I MWF, AE 317, CCTV
—8, Lect I MWF, AgEng 108, 109 (StP Campus) CCTV
—9, Lect V MWF, AgEng 108, 109 (StP Campus) CCTV
—10, Lect IX MWF, AE 211, CCTV
—11, Lect IX MWF, AE 215, CCTV
—12, Lect IX MWF, AE 313, CCTV
—13, Lect IX MWF, AE 317, CCTV
—14, Lect IX MWF, AE 319, CCTV
—15, Lect IX MWF, AE 321, CCTV
—16, Lect IX MWF, AE 327, CCTV
—17, Lect IX MWF, Arch 15, CCTV
—18, Lect IX MWF, Arch 30, CCTV
—19, Lect IX MWF, Arch 45, CCTV
—20, Lect IX MWF, Arch 60, CCTV
—21, Lect IX MWF, ForH 150, CCTV
—22, Lect IX MWF, ForH 160, CCTV
—23, Lect IX MWF, VH 306, CCTV
—24, Lect IX MWF, AgEng 108, 109 (StP Campus) CCTV
—1, Lab I-II TTh, Z 107
—2, Lab III-IV TTh, Z 107
—3, Lab VI-VII TTh, Z 107
—4, Lab VIII-IX TTh, Z 107
—5, Lab I-II WF, Z 107
—6, Lab III-IV WF, Z 107
—7, Lab VI-VII WF, Z 107
—8, Lab VIII-IX WF, Z 107
—9, Lab I-II TTh, AgEng 303B (StP Campus)
—10, Lab III-IV TTh, AgEng 303B (StP Campus)
—11, Lab VI-VII TTh, AgEng 303B (StP Campus)
—12, Lab VIII-IX TTh, AgEng 303B (StP Campus)
—13, Lab I-II WF, AgEng 303B (StP Campus)
—14, Lab III-IV WF, AgEng 303B (StP Campus)
—15, Lab VI-VII WF, AgEng 303B (StP Campus)
—16, Lab VIII-IX WF, AgEng 303B (StP Campus)

1A **Gen Biol** (3 cr, †1A-2A)
Register for Biol 1 lect and:
—1, Dem I-II M, Z 101A
—2, Dem III-IV M, Z 101A
—3, Dem V-VI M, Z 101A
—4, Dem VII-VIIII M, Z 101A

2 **Gen Biol** (5 cr, †1-2; prereq 1)
—1, Lect V MWF, NH 45, CCTV, Kerr, Olson
—2, Lect VII MWF, NH 45, CCTV
—3, Lect II MWF, AgEng 108, 109 (StP Campus) CCTV
—4, Lect VII MWF, AgEng 108, 109 (StP Campus) CCTV
—1, Lab I-II TTh, Z 101B
—2, Lab III-IV TTh, Z 101B
—3, Lab VI-VII TTh, Z 101B
—4, Lab VIII-IX TTh, Z 101B
—5, Lab I-II WF, Z 101B
—6, Lab III-IV WF, Z 101B

—7, Lab VI-VII WF, Z 101B
—8, Lab VIII-IX WF, Z 101B
—9, Lab I-II TTh, AgEng 303E (StP Campus)
—10, Lab III-IV TTh, AgEng 303E (StP Campus)
—11, Lab VI-VII TTh, AgEng 303E (StP Campus)
—12, Lab VIII-IX TTh, AgEng 303E (StP Campus)
—13, Lab I-II WF, AgEng 303E (StP Campus)
—14, Lab III-IV WF, AgEng 303E (StP Campus)

2A Gen Biol (4 cr, †1A-2A; prereq 1A)
—1, Lect V MWF, NH 45, CCTV, Kerr, Olson
—2, Lect VII MWF, NH 45, CCTV
—3, Lect II MWF, AgEng 108, 109 (StP Campus) CCTV
—4, Lect VII MWF, AgEng 108, 109 (StP Campus) CCTV
—1, Dem I-II M, Z 101D
—2, Dem III-IV M Z 101D
—3, Dem V-VI M, Z 101D
—4, Dem VII-VIII M, Z 101D

2H Honors Course: Gen Biology Lab (5 cr; prereq grade of B in 1)
—1, Lect V MWF, NH 45, CCTV, Kerr, Olson
—2, Lect VII MWF, NH 45, CCTV
—3, Lect II MWF, AgEng 108, 109 (StP Campus) CCTV
—4, Lect VII MWF, AgEng 108, 109 (StP Campus) CCTV
Lab VIII-IX WF, Z 101C

49 Principles (3 cr, §Biol 2; prereq GeCh 5 or 25)
II MWF, Z 211, Kerr

52 Microbiology (4 cr, §MicB 153; prereq 2 or 49, OrCh 62)
Lect VI MWF, Owre 113, Dworkin
Lab VII-VIII MF, Mayo A205

71 Laboratory: Genetics (2 cr; prereq 70 or Gen 66 or ¶)
—1, VII-VIII T, Z 16
—2, VII-VIII W, Z 16
—3, VII-VIII Th, Z 16

80 Ecology (3 cr; prereq 70, Math 23 or 44 or ‡)
I MWF, MMA 125, Lawrence

Winter and Spring Quarters

1w,s See 1f
1Aw,s See 1Af
2w,s See 2f
2Aw,s See 2Af
2Hw,s See 2Hf
49s See 49f
50w Animal Biology (5 cr; prereq 49 or 2, GeCh 6) Lect III MWF, Lab VII-VIII MWF
51w Plant Biology (5 cr; prereq Biol 2, 49, GeCh 6) Lect VI MWF, Lab VII-VIII MWF
60s Biochemistry (4 cr; prereq 2 or 49, OrCh 62) VI MTWF
61s Laboratory: Biochemistry (1 cr; prereq 60 or ¶) VI-VIII Th
71w,s See 71f
80w,s See 80f
81w,s Laboratory: Ecology (1 cr; prereq 80 or ¶)
82s Field Biology (1 cr; prereq 50, 51) I-IV S
110w,s Gen Physiology (3 cr; prereq 50, 51, 52, 60, Math 44 or 23, Phys 9) II MWF
111w,s Laboratory: Gen Physiology (2 cr; prereq 110 or ¶) I T (s); I-IV Th (s); VI TTh (w,s); VI-IX TTh (w,s)

BOTANY (Bot)

Fall Quarter

52 Taxonomy (3 cr; prereq Biol 2 or 51)
VI-VIII MWF, HS W40, Baker, Gary

55 Morphological Methods (3 or 5 cr; prereq 53, ‡)
Lect III TTh, Bo B5, Abbe, Honnold, lab ar

91 Survey of Plant Physiology (3 cr; prereq Biol 2 or 51, GeCh 5 or 25)
VI MWF, HS W30, Linck, Soulen

91A Plant Physiology Lab (2 cr; prereq 91 or ¶)
VII-VIII MWF, BoG

98 Undergraduate Proseminar (1 cr; prereq maj biol sci, ‡)

99 Research Probs (1-5 cr; prereq maj biol sci, ‡)

101 Basic Botany (ar cr; prereq Biol 2, ‡)

104 Survey of Plant Kingdom (5 cr; prereq Biol 2 or 51)
Lect III MWF, HS W30, Abbe
—1, Lab I-II MWF, Bo 5
—2, Lab IV-V MWF, Bo 5

110 Gymnosperms (3 cr; prereq 52 or ‡)
I-IV TTh, HS W40, Ownbey

118 Gen Cytology (5 cr; prereq 10 cr bot or biol or zool or elem genetics or ‡)
Lect IV MWF, HS W30, Van't Hof
—1, Lab II-III MWF, Bo 4
—2, Lab VI-VII MWF, Bo 4

126 Pre-Pleistocene Palynology (3 cr; prereq 165)
VI-VIII TTh, Bo 3, Hall

130 Ecology of Plant Communities (5 cr; prereq Biol 80)
VI-IX TTh, BoG, Reiners

150 Intro to Study of Algae (5 cr; prereq 10 cr bot or biol or ‡)
VI-VIII MWF, Bo 3, Brook

182 Plant Physiology (3 cr; prereq Biol 60)
II TThS, HS W30, Olson, Soulen

188 Research Perspectives in Plant Physiology (1-4 cr; prereq ‡) Behrens, others

297 Special Topics (ar cr; prereq ‡)

298 Seminar (1 cr)

299 Research Probs (ar cr)

Winter and Spring Quarters

10s Minnesota Plant Life (3 cr) Lect VI-VII TTh; VIII T

12s Plants Useful to Man (4 cr) III MWF; V MWF

52s See 52f: VI-VIII MW

53w Plant Anatomy (5 cr; prereq Biol 2 or 51) Lect III MWF, Lab I-II MWF; IV-V MWF

91s See 91f

91As See 91Af

98w,s See 98f

99w,s See 99f

101w,s See 101f

115s Flora of Minnesota (4 cr; prereq 52 or ‡) I-III TTh

118s See 118f

119s Experimental Cytology (3 or 5 cr; prereq 118 or Zool 272)

121w Developmental Plant Anatomy (5 cr; prereq 2 or 51) Lect III MWF, lab I-II MWF; IV-V MWF

128s Phyletic Paleobotany (3 cr; prereq ‡) VI-VIII TTh

131w Structure, Function of Ecosystems (5 cr; prereq Biol 80, 81, intro chem, phys or ‡) II-IV F

138w Freshwater, Wetland Ecology (5 cr; prereq 15 cr biol, intro chem or ‡.. Biol 80 rec)

139s Paleoecology (3 cr; prereq 8 cr geol, Biol 80 or ‡)

141s Survey of Plant Physiology (3 cr; prereq Biol 2 or 51, org chem, phys

141As Plant Physiology Lab (2 cr; prereq 141 or ¶)

165w Intro to Pollen Analysis (3 cr; prereq 10 cr bot or biol)

183w-184st Plant Physiology (3 cr; prereq Biol 2 or 51, OrCh 42 or 62, phys)

185w Physiology of Photosynthetic Microorganisms (3-5 cr; prereq ‡)

186w Measurement of Plant-environment Interactions (1-4 cr; prereq PCh 90, ‡)

187s Methods of Plant Analysis (1-4 cr; prereq AnCh 57, 8 cr biochem, ‡)

188s See 188f

280w Radioisotope Techniques Applied to Biology (3 cr; prereq nuclear phys)

284s Ecological Physiology (3-5 cr; prereq ‡)

285w Photosynthesis (3 cr; prereq 182)

297w,s See 297f

298w,s See 298f

299w,s See 299f

GENETICS (Gen)

Fall Quarter

66 Principles of Genetics (3 cr; prereq Biol 2)
—1, I MWF, McNH 227, Wade
—2, II MWF, JacH 74, Snustad

96 Evolution (3 cr, §Zool 96; prereq Biol 2)
VIII MWF, Z 313, Merrell

140 Interm Genetics I (3 cr; prereq 66, Biol 60)
III MWF, GorC 10, Snyder

260 Population, Quantitative Genetics I (3 cr; prereq 141, Biom 101)
VI-VII TTh, PetH 108, Enfield

Winter and Spring Quarters

66w,s See 66f: I MWF (w); II MWF (Mpls Campus) (s)

68s Human Genetics, Social Affairs (3 cr, §Zool 68, Biol 2) III MWF

140s See 140f

141w Interm Genetics II (3 cr; prereq 66, Biol 60) III MWF

171w Genetics, Speciation (3 cr, §Zool 171; prereq 66 or Biol 70, 71 or ¶, 16 cr biol sci) VI MWF

175s Human Genetics (3 cr, §Zool 175; prereq 66 or ‡) VIII MWF

176w Probs, Methods in Human Genetics (3 cr, §Zool 176; prereq 175, PubH 110, ‡) VII TTh

230s Biochemical Genetics (3 cr; prereq 140, 141 or ‡) VI MWF

246w,s Seminar (1 cr) 4:00-5:00 Th

262w Population, Quantitative Genetics II (3 cr; prereq 260, Biom 181) VI-VII TTh

ZOOLOGY

Biophysics (BPhy)

Fall Quarter

170 Radiation (3 cr; prereq ♯) Loken

204 Research: Biophysics, Radiation Biology (ar cr) Loken

218 Seminar: Radiobiology (1 cr; prereq ♯) Jacobson

Winter and Spring Quarters

105w Review of Elem Physics for Medical Students (1 cr; prereq ♯)

171w-172s‡ See 170f

204w,s See 204f

218w,s Seminar: Radiobiology (1 cr; prereq ♯)

Zoology (Zool)

Fall Quarter

51 **Cell Biology** (3 cr; prereq Biol 2, GeCh 4-5 or ♯)
IV MWF, Z 313, Hooper

52 **Gen, Comparative Embryology** (5 cr; prereq Biol 2)
Lect I MW, Z 313, Spratt
Lab VI-VIII MW, Z 201
—1, Conf I F, Z 323
—2, Conf II F, Z 323

65 **Histology** (5 cr; prereq Biol 2)
Lect 8:15-9:30 TTh, Z 313, Olson
—1, Lab II-IV TTh, Z 201
—2, Lab VI-VIII TTh, Z 201

91 **Comparative Animal Physiology** (5 cr; prereq Biol 2, GeCh 5 or ♯)
Lect III MWF, Z 313, Schmid
—1, Lab VII-IX TTh, Z 18
—2, Lab VII-IX WF, Z 18

93 **Animal Parasitology** (5 cr; prereq Biol 2)
Lect VI MWF, Z 313, Wallace
—1, Lab I-II MWF, Z 208
—2, Lab III-IV MWF, Z 208
—3, Lab VII-VIII MWF, Z 208

96 Organic Evolution (3 cr; prereq Biol 2)
VIII MWF, Z 313, Merrell

98H Honors Course: Senior Seminar (1 cr; prereq sr, maj biol sci, ♯)

99 Adv Work (ar cr; prereq Biol 2, ♯)

101 Basic Zoology (ar cr; prereq grad)

107 **Protozoology** (4 cr; prereq ♯)
Lect VI-VII TTh, Z 211, Kerr
Lab VII-VIII TTh, Z 202

112 **Adv Gen Physiology** (3 cr; prereq 91 or 92, ♯)

121 **Ichthyology** (3 cr, §Ent 121; prereq 15 cr incl Biol 2)
Lect II TTh, Z 211, Underhill
—1, Lab VI-VIII M, Z S3
—2, Lab VI-VIII T, Z S3
—3, Lab VI-VIII Th, Z S3

125 **Insect Morphology** (5 cr, §Ent 125; prereq Zool 74, ♯)
Lect I TTh, CofH 302, Cook
Lab II-IV TTh, CofH 302

138 Seminar: Gen Physiology, Biophysics (ar cr) Schmitt

144 **Medical Entomology** (3 cr, §Ent 144; prereq 15 cr incl 74, ♯)
Lect VI TTh, Z 208, Price
Lab VII-VIII TTh, Z 208

153 **Molecular Biology** (3 cr; prereq 51, Phys 9, ♯)
III MWF, Z 323, Benolken

155 Biophysics (3 cr; prereq 28 cr betw phys, biol, ♯...phys chem, physiol rec) Schmitt

284 **Physiology of Development** (4 cr; prereq 182, ♯)
III-IV TTh, Z 323, Spratt

297 Seminar: Research Fields (ar cr)

298 Seminar (no cr)

299 Research (ar cr)

Winter and Spring Quarters

53w Comparative Anatomy (5 cr; prereq soph, Biol 2) Lect II MWF, lab III-IV MWF; VI-VIII TWThF

65s See 65f: Lect 8:15-9:30 TTh, lab II-IV TTh

71s Fauna of Central United States (5 cr; prereq Biol 2) Lect VI MWF, Lab II-III WF; VII-IX TTh; VII-IX WF

74s Intro Entomology (5 cr; prereq Biol 2) VII MWF, Lab V-VI MWF; VIII-IX MWF

75w-76s Intro Ornithology (3 cr; prereq Biol 2) Lect VII TTh (w); III TTh (s), lab I-II TTh (s); VIII-IX TTh (w)

77w Mammalogy (4 cr; prereq 53) Lect II MWF, lab I-II TTh; III-IV TTh; VI-VIII TTh

98w,s See 98f

99w,s See 99f

-101w-101s‡ See 101f

117w Theoretical Biology (3 cr; prereq ♯) IV MWF

118w Experimental Ecology (3 cr; prereq 9 cr biol, 3 cr animal or plant ecology, ♯) VI T, VI-VII Th

126w Embryology, Development of Insects (5 cr, §Ent 126; prereq 125, OrCh 42 or 62, ‡) Lect VI MWF

127s Insect Metabolism, Co-ordination (4 cr, §Ent 127; prereq BioC 106...MdBc 101 rec) Lect I-II T; I Th, Lab II-IV Th; III-V T

138w,s See 138f

145w Parasitic Protozoa (3 cr, §Ent 145; prereq 15 cr incl Biol 2, ‡) Lect VI TTh, lab VII-VIII TTh

146s Helminthology (3 cr, §Ent 146; prereq 15 cr incl Biol 2, ‡) Lect VI TTh, lab VII-VIII TTh

-156w-157s See 155f

164w-165s Cytology (3 cr; prereq 51 or ‡) 8:15-9:30 TTh (w); VI-VII Th (s)

-166w-167s Cytology Lab (2 cr; prereq ‡) II-III TTh

201w Experimental Ecology Lab (2 cr, §Ent 201; prereq 118 or ¶) VII-IX T; VIII-IX Th

202s Insect Ecology (3 cr, §Ent 202; prereq 118 or ‡) Lect VI TTh, Lab VII-VIII TTh

209w Topics: Comparative Physiology (2 cr; prereq 91 or 92 or ‡)

297w,s-298w,s‡ See 297f

299w,s See 299f

SCHOOL OF BUSINESS ADMINISTRATION

Accounting (Acct)

Fall Quarter

24 **Accounting** (3 cr, §55A; prereq 3rd qtr fr)
- —1, 8:15-9:30 TTh, ForH 150, CCTV, Purdy
- —2, 8:15-9:30 TTh, ForH 160, CCTV, Purdy
- —3, 9:45-11:00 TTh, ForH 160, CCTV, Purdy
- —4, 9:45-11:00 TTh, ForH 150, CCTV, Purdy
- —5, 11:15-12:30 TTh, ForH 160, CCTV, Purdy
- —6, 11:15-12:30 TTh, ForH 150, CCTV, Purdy
- —7, 11:15-12:30 TTh, CB(W) 150, CCTV, Purdy
- —8, 12:45-2:00 TTh, ForH 160, CCTV, Purdy
- —9, 12:45-2:00 TTh, ForH 150, CCTV, Purdy
- —10, 2:15-3:30 TTh, CB(W) 150, CCTV, Purdy
- —11, 2:15-3:30 TTh, ForH 160, CCTV, Purdy
- —12, 2:15-3:30 TTh, CB(W) 130, CCTV, Purdy
- —13, 11:15-12:30 TTh, CB(W) 130, CCTV, Purdy
- —14, 8:15-9:30 TTh, GorC 15, (StP Campus) CCTV, Purdy
- —15, 9:45-11:00 TTh, GorC 15, (StP Campus) CCTV, Purdy
- —16, 3:45-5:00 MW, CB(W) 150, CCTV, Purdy
- —17, 3:45-5:00 MW, CB(W) 130, CCTV, Purdy
- —18, 3:45-5:00 MW, ForH 115, CCTV, Purdy
- —19, 3:45-5:00 MW, VH 307, CCTV, Purdy

25 **Accounting** (3 cr; §55B; prereq 24)
- —1, 8:15-9:30 TTh, VH 303, CCTV, Stanley
- —2, 8:15-9:30 TTh, CB(W) 150, CCTV, Stanley
- —3, 9:45-11:00 TTh, VH 303, CCTV, Stanley
- —4, 9:45-11:00 TTh, VH 309, CCTV, Stanley

26 **Principles** (3 cr, §55A-B; prereq 24)
- —1, 12:45-2:00 TTh, CB(W) 150, CCTV, Gray
- —2, 12:45-2:00 TTh, VH 303, CCTV, Gray
- —3, 3:45-5:00 TTh, CB(W) 150, CCTV, Gray
- —4, 3:45-5:00 TTh, VH 303, CCTV, Gray

75A **Accounting Lab I** (1 cr; prereq 26)
- —1, 3:45-5:30 T, CB(W) 415
- —2, V-VI Th, CB(W) 440
- —3, II-III F, CB(W) 415
- —4, IV-V F, CB(W) 415

105A **Interm I** (3 cr; prereq 26)
- —1, VI MWF, CB(W) 115, Simmons
- —2, VII MWF, CB(W) 105, Simmons
- —3, 9:45-11:00 MW, CB(W) 415, Zimmer
- —4, 11:15-12:30 MW, CB(W) 415, Zimmer

105C **Interm III** (3 cr, §55D; prereq 105A) II MWF, CB(W) 140, Khemakhem

115B **Cost** (3 cr, §55C; prereq 115A) 9:45-11:00 TTh, CB(W) 110, Gray

125 **Auditing Principles, Procedures** (4 cr; prereq 105B, 105C or ¶)
—1, II MTWF, CB(W) 230, Berryman
—2, IV MTWF, CB(W) 230, Berryman
135 Income Tax (4 cr; prereq 55D or 105A or ♯)
III MTWF, CB(W) 230, Heller
145B Adv Topics (3 cr; prereq 12 cr up div acctg)
11:15-12:30 TTh, CB(W) 415, Amey
155A Intro: Managerial (3 cr, §24 or 55A; prereq grad or ♯)
12:45-2:00 TTh, CB(W) 435, Stanley
175B Data Processing (3 cr; prereq 115B)
12:45-2:00 TTh, CB(W) 240, Smith
195B Internship: Internal (3 cr; prereq 115B, ♯) Stanley
265A Managerial Cost (3 cr, §55C, 115A, 115B; prereq 26)
3:45-5:00 TTh, CB(W) 130, Khemakhem
295A Readings (ar cr; prereq cons adv, instr) Gray
295B Research (ar cr) Gray
305A Seminar: Theory—Valuation, Prin (3 cr)
VIII-IX MW, BA(W) 933, Amey

Winter and Spring Quarters

24w See 24f: 11:15-12:30 TTh; 12:45-2:00 TTh
24s See 24f: 12:45-2:00 MW; 2:15-3:30 MW
-25w See 25f: 8:15-9:340 TTh; 9:45-11:00 TTh; 2:15-3:30 MWF; 2:15-3:30 TTh
-25s See 25f: 12:45-2:00 TTh; 3:45-5:00 TTh
-26w,s See 26f: 8:15-9:30 TTh (w,s); 9:45-11:00 TTh (s); 12:45-2:00 TTh (w); 2:15-3:30 TTh (w,s)
55Cw Managerial Costs (3 cr, §115A or 115B or 265A; prereq 26) 11:15-12:30 MW
55Ds Analysis of Financial Statements (3 cr, §105C; prereq 26) 9:45-11:00 MW
75Aw See 75Af: 3:45-5:30 T; V-VI Th
75Bw,s Accounting Lab II (1 cr; prereq 115A) V-VI Th (s); VI-VII T (w); VI-VII F (w,s); 3:30-5:20 T (w); 3:30-5:20 Th (w)
105Aw Interm I (3 cr; prereq 26) I or III MWF
105Bw,s Interm II (3 cr; prereq 105A) 8:15-9:30 TTh (w,s); 11:15-12:30 TTh (w,s); 2:15-3:30 MW (s); VI MWF (w)
105Cs See 105Cf: 9:45-11:00 TTh; 12:45-2:00 TTh; IV MWF
115Aw,s Cost (3 cr, §55C; prereq 26) 12:45-2:00 TTh (w); 12:45-2:00 MW (w,s); 2:15-3:30 MW (w,s); 2:15-3:30 TTh (w)
125s See 125f: IV MTWF
135s See 135f: II or III MTWF
145Bw,s See 145Bf: 8:15-9:30 TTh (w); VIII-IX TTh (s)
-155Bw See 155Af: 12:45-2:00 TTh
175Cw Controllership Functions, Procedures (3 cr; prereq 115B) 3:45-5:00 TTh
185As Adv (3 cr; prereq 105C or ¶) VII-VIII MW
195Aw Internship: Public (3 cr; prereq 125, ♯)
265Bs Corporate Statements (3 cr, §55D or 105C; prereq 26) 12:45-2:00 TTh
295Aw,s See 295Af
295Bw,s See 295f
305Bs Seminar: Theory—Income Determination, Statement Presentation (3 cr) VIII-IX MW
315w Seminar: Cost Accounting (3 cr) VIII-IX MW

Business Finance (BFin)

Fall Quarter

56 **Corporation Finance** (3 cr, §156; prereq Acct 26)
Lect VII TTh, CB(W) 5, Stevenson
—1, VI F, CB(W) 140, Cooper
—2, VII F, CB(W) 140, Cooper
—3, VIII F, CB(W) 425, Cooper
57 Financial Mgt (3 cr, §276; prereq 56 or Acct 105B)
8:15-9:30 TTh, CB(W) 110, Hanson
66 Investment Fundamentals (3 cr; prereq 56)
IV MWF, CB(W) 125, Cooper
76 Financial Mgt (3 cr, §276; prereq 56 or Acct 105B)
3:45-5:00 TTh, CB(W) 140, Sullivan
156 Business Finance Fundamentals (3 cr, §56; prereq grad, Acct 26 or 155B)
8:15-9:30 TTh, CB(W) 415, Stevenson
266 Investment Fundamentals (3 cr, §66, old 116; prereq 56 or 156)
III MWF, CB(W) 105, Stevenson

Winter and Spring Quarters

56w,s See 56f
57w,s See 57f: 8:15-9:30 TTh (s); 9:45-11:00 TTh (w)
66w,s See 66f: 11:15-12:00 MWF
76w See 76f: 8:15-9:30 TTh
257s Financial Mgt (3 cr, §76, 276; prereq 56 or 156) 11:45-12:30 TTh
258w Topics: Financial Mgt (3 cr, §58, 196; prereq old 76 or 257 or ♯) 3:45-5:00 TTh

267w Investment Analysis (3 cr; prereq 66 or old 116 or 266) 2:15-3:30 TTh
268s Investment Mgt (3 cr, §126; prereq 66 or old 116 or 266) 8:15-9:30 TTh

Business Law (BLaw)

Fall Quarter

58 **Law, Contracts** (3 cr, §158; prereq Econ 2)
Lect III Th, CB(W) 5, Wright
—1, I TTh, CB(W) 255, Wright
—2, II TTh, CB(W) 255, Wright
—3, IV TTh, CB(W) 255, Eastlund
—4, IV TTh, CB(W) 205, Neville
—5, IV TTh, CB(W) 425, Wright
98 **Property Right, Obligations** (3 cr, §198; prereq 58)
—1, II T, II-III Th, CB(W) 425, Neville
—2, II T, CB(W) 435, II-III Th, CB(W) 435, Eastlund
158 Contracts (3 cr, §58)
Lect III Th, CB(W) 5, Wright
Rec IV TTh, CB(W) 425, Wright
198 Property Rights, Obligations (3 cr, §98; prereq 158)
II T, II-III Th, CB(W) 425, Neville

Winter and Spring Quarters

28s Business Law (3 cr, §58; prereq soph with 6 cr econ or sr without, regis AFHE or IT or Pharm with cons adv) 8:15-9:30 TTh
58w,s See 58f: Lect I TTh (w); III T (s), Lab I or II TTh (w,s)
78w Agency, Partnership, Corporations (3 cr, §178; prereq 58) Lect III Th, Lab I or II or IV Th; III T; IV Th
88s Sales, Negotiable Instruments (3 cr, §188; prereq 58) Lect III Th, Lab I or II or IV TTh; III T; IV Th
158w,s See 158f: Lect III T ((w,s), rec II TTh
178w Agency, Partnership, Corporations (3 cr, §78; prereq 158) Lect III Th, rec IV TTh
188s Sales, Negotiable Instruments (3 cr, §88; prereq 158) Lect III Th, rec IV TTh

Industrial Relations (IR)

Fall Quarter

52 **Systems: Labor Marketing** (3 cr, §152; prereq Econ 2)
Lect II TTh, CB(W) 5, Smythe
—1, III T, CB(W) 430, Woods
—2, IV T, CB(W) 430, Woods
—3, V T, CB(W) 430
—4, III Th, CB(W) 430, Vitalis
—5, IV Th, CB(W) 430, Vitalis
—6, V Th, CB(W) 430
—7, III T, CB(W) 450, Vitalis
—8, III Th, CB(W) 450
62 **Human Relations in Industry** (3 cr)
I MWF, CB(W) 255, Vitalis
72 Systems: Manpower Mgt (3 cr, §172; prereq Econ 2 or ‡)
VII MWF, CB(W) 235, Woods
152 Systems: Labor Marketing (3 cr, §52; prereq Econ 2)
VI MWF, CB(W) 105, Zaidi
162 Union Govt, Policies (3 cr; prereq 52 or 152 or ‡)
VI-VII TTh, BA(W) 735, Flagler
172 **Systems: Manpower Mgt** (3 cr, §72; prereq Econ 2 or ‡)
III-IV TTh, BA(W) 735, Smythe
182A Interm Labor Marketing (3 cr; prereq 52 or 152)
VIII-IX WF, BA(W) 468, Seltzer
182C Interm Labor Mktg, Manpower Mgt (3 cr, §182A-B; prereq grad, 152 or 152C or 172)
IX-X TTh, CB(W) 125, Zaidi
202 Organization, Staffing (3 cr; prereq 72 or 172)
VIII-IX WF, BA(W) 837, Dawis
232 Collective Bargaining: The Process (3 cr; prereq 152)
VII MWF, CB(W) 135, Smythe
292A Readings: Manpower Economics, Industrial Relations (ar cr; prereq cons adv, ‡)
292B Research: Manpower Economics, Industrial Relations (ar cr; prereq cons adv, ‡)
372 Seminar: Research Methodology (3 cr; prereq 192)
VIII-IX TTh, BA(W) 468, England

Winter and Spring Quarters

52w,s See 52f
62s See 62f: VI MWF
72w,s See 72f: I MWF
82w Modern Labor Relations (3 cr; prereq 52) II MWF
142s Settlement of Industrial Relations Disputes (3 cr; prereq 52 or 152) VI-VII TTh
152w,s See 152f: Lect II TTh (w); III MWF (s), lab III Th
152Cs Fundamentals (3 cr, §52 or 152 or 72 or 172; prereq grad, Econ 2) II MWF
172w,s See 172f: I MWF (w); IV MWF (s)

182As See 182Af: IX MWF
182Bw Interm Manpower Mgt (3 cr; prereq 72 or 172) VII MWF
192w Practices, Techniques (3 cr; prereq 72 or 172, 3 cr stat) VI-VII TTh
210s Organization Theory (3 cr; prereq 72 or 172) III-IV TTh
212Bw Employee Development, Training (3 cr; prereq 72 or 172) VI MWF
222s Compensation, Reward Theory (3 cr; prereq 152 or 172) VIII-IX TTh
252s Intl Manpower Development, Utilization (3 cr; prereq 152 or ♯) 2:15-3:30 WF
282w Collective Bargaining: Legal Framework, Public Policy Issues (3 cr; prereq 152) III-IV TTh
292Aw,s See 292Af
292Bw,s See 292Bf
362w Seminar: Organization Theory (3 cr; prereq 210) VIII-IX TTh
382s Seminar: Systems (3 cr; prereq 152, 172) VIII-IX TTh

Insurance (Ins)

Fall Quarter

53 Risk Mgt, Insurance (3 cr, §153; prereq Econ 2)
VIII MWF, CB(W) 5, Williams
73 **Life, Health Insurance** (3 cr, §203; prereq 53)
VI MWF, CB(W) 135, Whitman
153 Risk Mgt, Insurance I (3 cr, §53; prereq grad or ♯, Econ 2)
IV MWF, CB(W) 450, Williams
203 Life, Health Insurance (3 cr, §73; prereq 53 or 153)
IV MWF, CB(W) 115, Whitman

Winter and Spring Quarters

53w,s See 53f: I MWF (s); VIII MWF (w)
73s See 73f: III MWF
83w Group Insurance, Pensions (3 cr, §213; prereq 53) II MWF
93w Property, Liability Insurance I (3 cr, §223; prereq 53) VI MWF
103s Property, Liability Insurance II (3 cr, §243; prereq 53...93 rec) VI MWF
113s Actuarial Science Prin—Life, Health Insurance (3 cr, §Math 21; prereq 53 or 153 or ♯) IV MWF
163w Risk Mgt, Insurance II (3 cr; prereq grad, 153) III MWF
223w Property, Liability I (3 cr, §93; prereq 53 or 153) VII MWF

Management (Mgmt)

Fall Quarter

60 **Business Policy, Mgt Control** (3 cr, §260; prereq 3rd qtr sr)
—1, 8:15-9:30 TTh, CB 115, Gaumnitz
—2, 9:45-11:00 TTh, CB 115, Mauriel
—3, 11:15-12:30 TTh, CB 115, Mauriel
70 **Fundamentals** (3 cr)
—1, III MWF, CB 125, Juralewicz
—2, 2:15-3:30 TTh, CB 125, Mauriel
—3, VII MWF, CB 125, Juralewicz
150A **Fundamentals of Mgt** (3 cr; prereq grad or ♯)
VII MWF, CB 415, Wickesberg
250 **Executive Leadership** (3 cr)
—1, 9:45-11:00 TTh, CB 415, Burke
—2, 12:45-2:00 TTh, CB 415, Solem
270 Evolution, Development of Managerial Thought (3 cr, §70; prereq 2nd yr grad)
2:15-3:30 TTh, BA 837, Wickesberg
290A Readings: Theory, Admin (ar cr; prereq 2nd yr grad, cons adv, ♯)
290B Research: Theory, Admin (ar cr; prereq 2nd yr grad, cons adv, ♯)
360 Seminar: Mgt (3 cr; prereq 260)
12:45-2:00 TTh, BA 837, Gaumnitz

Winter and Spring Quarters

60w,s See 60f: 8:15-9:30 TTh (w,s); 9:45-11:00 TTh; 11:15-12:30 TTh (w,s); 2:15-3:30 TTh (w,s)
70w,s See 70f: I or III or VI MWF (w); II or IV or VII MWF (s)
80w,s Admin Practices (3 cr; prereq 1st qtr sr) 12:45-2:00 TTh (w,s)
90s Interpersonal Probs: Mgt (3 cr, §251; prereq 80) 12:45-2:00 TTh
109s Mgt of Administrative Services (3 cr; prereq Econ 2) 2:15-3:30 TTh
170w Adv Topics: Mgt (ar cr; prereq ♯, sr or grad standing) 2:15-3:30 TTh
251w,s Superior-Subordinate Probs (3 cr; prereq 250) 2:15-3:30 TTh (w); 3:45-5:00 TTh
260s Policy Formulation, Admin (3 cr, §60; prereq 2nd yr grad) 3:45-5:00 MF; 2:15-3:30 TTh
290Aw,s See 290Af
290Bw,s See 290Bf
340s Seminar: Interpersonal Relations (3 cr; prereq 251) 2:15-3:30 TTh
360s Seminar: Mgt (3 cr; prereq 260) 2:15-4:30 W

Marketing (Mktg)

Fall Quarter

57 **Marketing** (3 cr, §157; prereq Econ 2)
Lect I MW, CB(W) 5, Holloway
—1, I TTh, CB(W) 240
—2, V TTh, CB(W) 230
—3, V TTh, CB(W) 255
—4, VI TTh, CB(W) 255
—5, VI TTh, CB(W) 105

77 Advertising (3 cr, §207; prereq 57...Psy 156 rec)
II MWF, CB(W) 205, Pennington

97 Market Analysis, Research I (3 cr, §217; prereq 57, QA 51)
III MWF, CB(W) 115

98 Social Psychology of Behavior (3 cr; prereq 57)
2:15-3:30 TTh, CB(W) 135, Berscheid

107A Retail Mgt For Pharmacy Students (3 cr; prereq Acct 25)
III MWF, ForH 115, Werner

117 Sales Mgt I (3 cr, §237; prereq 57)
IV MWF, CB(W) 105, Lewis

157 Marketing (3 cr, §57; prereq grad, Econ 2)
9:45-11:00 TTh, CB(W) 205, Hancock

177 Foreign Trade (3 cr; prereq 57)
VII MWF, CB(W) 110, Lewis

187 Price Policy (3 cr; prereq 57)
2:15-3:30 TTh, CB(W) 225, Hancock

207 Advertising, Sales Promotion (3 cr, §77; prereq 57 or 157)
VI MWF, BA(W) 735, Pennington

217 Market Analysis, Research (3 cr, §97; prereq 51 or 151, 57 or 157)
VII MWF, BA(W) 632

287 Price Policy (3 cr, §187; prereq 57 or 157)
2:15-3:30 TTh, CB(W) 225, Hancock

Winter and Spring Quarters

57w,s See 57f: Lect III MW (w); VIII MW (s), lab I or V or VI TTh (w,s)

77s See 77f: VII MWF

97s See 97f: VII MWF

97Cw Marketing Research II (3 cr, §217C; prereq sr, 97) 9:45-11:00 TTh

98s See 98f

107w,s Retail Mgt I (3 cr, §227; prereq 57) II MWF

107Cw Retail Mgt II (3 cr, §227C; prereq sr, 107) II MWF

117w See 117f

117Cs Topics: Marketing, Social Psychology of Behavior (3 cr; prereq 57 or 157) IV MWF

147s Adv Advertising Procedure (3 cr, §Psy 147; prereq 77 or 207) III MWF

187w See 187f: III MWF

197w Purchasing (3 cr; prereq 57) VI MWF

227s Retail Mgt (3 cr, §107; prereq 57) II MWF

237Cs Topics: Marketing, Social Psychology of Behavior (3 cr; prereq 57 or 157) IV MWF

247s Management (3 cr; prereq 57 or 157) 9:45-11:00 TTh

297Bs Research (ar cr; prereq cons adv, ♯)

327s Seminar: Social, Economic Aspects of Mktg (3 cr; prereq 157, ♯) 2:15-4:15 T

Office Management (OMgt)

Fall Quarter

32 **Bgn Typewriting** (1 cr)
I MTWThF, VH 209

37 Shorthand (3 cr, †37-38-39; prereq soph, 33)
IV MWF, VH 208, Peterson

79A Admin Secretarial Studies (3 cr; prereq 34, 39)
II MWF, VH 208, Peterson

Winter and Spring Quarters

33w Interm Typewriting (1 cr; prereq 32 or 1 yr HS typing or 30 words a min)
I MWF

34s Typewriting Procedures (2 cr; prereq soph, 33 or 2 yrs HS typing with 45 words a min) II MWF

36w Office Procedures (3 cr; prereq soph)
IV MWF

-38w-39s‡ See 37f: III MWF (w); IV MWF (s)

-79Bw See 79Af: VI MWF

Production (Prod)

Fall Quarter

220 Planning, Control (3 cr; prereq 150B, QA 61, 258 or ♯)
VII MWF, BA 735, Willis

290A Readings (ar cr; prereq 2nd yr grad, cons adv, ♯)

290B Research (ar cr; prereq 2nd yr grad, cons adv, ♯)

Winter and Spring Quarters

50w,s Production Mgt (3 cr, §150B; prereq Econ 2) II MWF

100s Problems (3 cr; prereq 50) 3:45-5:00 TTh
110w Systems, Procedures Analysis: Work Measurement (3 cr; prereq 50) 2:15-3:30 TTh
150Bw Admin (3 cr, §50; prereq Mgt 150A or ♯) 9:45-11:00 TTh
290Aw,s See 290Af
290Bw,s See 290Bf

Quantitative Analysis (QA)

Fall Quarter

5 **Statistics** (4 cr, §151, Soc 45, Psy 70; prereq Math 10)
—1, I MTWF, NH 216
—2, II MTWF, FraH B1
—3, V MTWF, E 4
—4, VI MTWF, MinMet 124
51 **Business Statistics** (3 cr; prereq 5, soph with △)
—1, II MWF, CB(W) 425, Kozelka
—2, IV MWF, CB(W) 240
—3, VI MWF, CB(W) 240
—4, 9:45-11:00 TTh, CB(W) 240, Olson
52 **Quantitative Methods for Admin I** (3 cr; prereq Math 40A or 43 or ♯)
Lect IV MF, CB(W) 440, Andrew, Willis
Lab IV-V W, CB(W) 440
61 **Intro to Electronic Computers** (2 cr; prereq 5, Math 10)
Lect I TTh, CB(W) 145, Smith
—1, II-III T, BA(W) 837
—2, II-III T, CB(W) 93
—3, IV-V T, CB(W) 93
—4, IV-V T, BA(W) 933
150 Mathematics for Business Analysis (3 cr, §Math 24A, 40; prereq grad or ♯, Math 10)
III MWF, CB(W) 450, Neter
151 Statistics (3 cr, §5, Soc 45, Psy 70; prereq grad, Math 10 or ♯)
11:15-12:30 TTh, CB(W) 215, Hastings
181 Quality Control, Industrial Statistics (3 cr; prereq 51 or 151)
III MWF, CB(W) 430, Kozelka
193 Statistical Design of Experimental Research in Business (3 cr; prereq 191B or ♯)
IV MWF, CB(W) 430, Neter
258 **Quantitative Approaches to Admin Probs I** (3 cr, §58; prereq 151, Econ 65 or 165)
11:15-12:30 TTh, CB(W) 240, Olson
291B Research (ar cr)
2:15-3:30 TTh, BA(W) 632, Andrew

Winter and Spring Quarters

5w,s See 5f: I or III or V MTWF (w); IV MWF (s); IV or VI MTWF (s)
51w See 51f: III or VI MWF; 9:45-11:00 TTh; 11:15-12:30 TTh
51s See 51f: IV or VI MWF; 9:45-11:00 TTh
53w Quantitative Methods for Admin II (3 cr; prereq 52, Econ 2 or ♯) Lect IV MF, lab V-VI W
61w See 61f: Lect II TTh, Lab II-III T; V-VI T; VII-VIII T
61s See 61f: Lect I TTh
150w See 150f
171s Statistical Methods for Sample Surveys (3 cr; prereq 51 or 151) VI MWF
175s Business Forecasting (3 cr; prereq 51 or 151) III MWF
191Aw-191Bs Statistical Methods (3 cr; prereq grad or ♯, 51 or 151 or Econ 121A or ♯) 11:15-12:30 TTh (w,s); 3:45-5:00 TTh (w,s)
231s Mathematical Programming for Business Analysis (3 cr; prereq Math 10) V-VI MF
236w Stochastic Models for Business Analysis (3 cr; prereq 150 or Math 40, 258, knowledge of Fortran) V-VI MF
251w Business Research Methods, Techniques (3 cr; prereq 51 or 151) 3:45-5:00 TTh
258w-259s See 258f: IV MWF (w); 2:15-3:30 MF
291Bs See 291Bf

Transportation (Tran)

Fall Quarter

54 **Fundamentals** (3 cr, §154; prereq Econ 2)
VII MWF, CB 10, Harper
154 Fundamentals (3 cr, §54; prereq Econ 2, grad)
III MWF, BA 735, Harper
164 Business Logistics (3 cr; prereq 54 or 154)
IV MWF, CB 140, Glaskowsky
194A Regulation, National Policy I (3 cr; prereq 54 or 154)
III MWF, BA 837, Nightingale
294A Readings: Transportation, Business Logistics (ar cr; prereq cons adv, instr)
294B Graduate Research: Transportation, Business Logistics (ar cr; prereq cons adv, instr)

Winter and Spring Quarters

54w,s See 54f: VII MWF (w); VI MWF (s)
144w Transportation Pricing (3 cr; prereq 54 or 154) II MWF
174s Traffic Mgt (3 cr; prereq 54 or 154) II MWF
184s Carrier Mgt (3 cr; prereq 54 or 154) IV MWF
194Bw Regulation, National Policy II (3 cr; prereq 54 or 154) III MWF
194Cs Regulation, National Policy III (3 cr; prereq 54 or 154...194A rec) III MWF
294Aw,s See 294Af
294Bw,s See 294Bf
304s Seminar (3 cr; prereq 54 or 154 or ‡) 2:15-4:45 M

SCHOOL OF DENTISTRY

Dental Assisting (DA)

Fall Quarter

1 Oral Anatomy, Lab Procedures (2 cr)
8:00-10:00 TTh, MH 356, Hampel
2 Chairside Assisting (3 cr)
8:00-9:00 F, MH 213, Thorson
3 Clinic I (4 cr)
2:00-5:00 MTWTh, MH 356, Tuchner
7 Clinic II (5 cr)
1:30-4:30 MTWThF, Owre 310, Tuchner
8 Dental Therapeutics (2 cr)
12:15-1:00 F, MH 213, Holte
12 Seminar (1 cr)
IV Th, MH 356, Tuchner

Dental Hygiene (DH)

Fall Quarter

7 Dental Anatomy (2 cr)
Lect VI T, MH 356, Hall
Lab VI-IX M, MH 356, Hall
40 Dental Health Education (2 cr)
Lect VI Th, MH 356, Schendel, lab ar
45 Assisting in Dentistry (2 cr)
Lect 1:00-1:50 T, lab ar
53 Dental Prophylaxis (2 cr; prereq 22)
—1, II-IV T, Clinic, Jackson, Sander
—2, VII-IX M, Clinic, Jackson, Sander
—3, II-IV W, Clinic, Sander, Schendel
—4, VI-VIII W, Clinic, Sander, Schendel
—5, II-IV Th, Clinic, Jackson, Sander
—6, VI-VIII TTh, Clinic, Jackson, Sander
56 Gen Pathology (1 cr)
VI F, MH 356, Gorlin
57 Prosthetic Dentistry, Dental Lab (2 cr; prereq 9)
Lect VI M, MH 356, Hall
Lab VII-IX T, MH 356, Hall

Dentistry (Dent)

Fall Quarter

50 Oral Anatomy, Histology (4 cr)
Lect I T, VI Th, Owre 12, Grewe, Hall
Lab I-III W, VII-IX Th, Owre 1
65 Orientation (no cr)
Lect I F, Owre 12, Yamane, lab ar
66 Preventive Dentistry (2 cr)
I M, Owre 111, I Th, Owre 12, Meskin
75 Crown, Bridge Technic (3 cr)
Lect I M, Owre 12, Serr
Lab II-IV MW, JOAd 54
85 Operative Dentistry (3 cr)
Lect I T, Owre 111, Wakely
Lab II-IV TF, JOAd, 54
96 Occlusion, Periodontic Clinics (2 cr)
Lect III Th, Owre 111, Stallard, lab ar
100 Development of Occlusion (2 cr)
I WF, Owre 111, Isaacson
105 Orthodontics (2 cr)
8:00-9:00 MW, Owre 113, Isaacson
110C Dental Prosthetics Clinic (2 cr) Morstad
115C Dental Prosthetics Clinic (2 cr) Morstad
120 Crown, Bridge (1 cr)
9:00-10:00 W, Owre 111, Yock
120C Crown, Bridge Clinic (2 cr) Yock
125C Crown, Bridge Clinic (2 cr) Yock
127 Seminar: Restorative Dentistry (1 cr)
9:00-10:00 W, Owre 113, Jensen, Morstad, Yock
135 Oral Medicine (2 cr)
9:00-10:00 TTh, Owre 113, Yamane
140C Operative Dentistry Clinic (3 cr) Jensen
145C Clinical Operative Dentistry (2 cr) Jensen
155 Oral Surgery (2 cr)
9:00-10:00 MF, Owre 113, Clark

170 Predodontics (1 cr)
9:00-10:00 F, Owre 111
185 Periodontics (1 cr)
8:00-9:00 F, Owre 113, Stallard
185C Periodontics Clinic (1 cr) Stallard
195 Dental Jurisprudence, Ethics (2 cr)
8:00-9:00 TTh, Owre 113, Brand
200 Growth, Development (ar cr) Isaacson
204 Orthodontic Diagnosis, Treatment Planning (ar cr)
208 Seminar: Orthodontics (ar cr) Isaacson
212 Research: Orthodontics (ar cr) Isaacson
216 Topics: Orthodontics (ar cr) Isaacson
220 Adv Dental Anatomy (ar cr) Hall
230 Adv Oral Diagnosis (ar cr) Yamane
231 Adv Clinical Oral Diagnosis (ar cr) Yamane
232 Research Probs: Oral Medicine (ar cr) Yamane
240 Adv Technical Restorative Dentistry (ar cr) Jensen, Morstad, Wittich, Yock
241 Seminar: Adv Restorative Dentistry (ar cr) Morstad
243 Adv Clinical Restorative Dentistry (ar cr) Jensen, Morstad, Yock
245 Seminar: Prosthodontics (ar cr; prereq ‡) Olsen
246 Seminar: Prosthodontics (ar cr; prereq ‡) Olsen
247 Research Probs: Restorative Dentistry (ar cr) Jensen, Morstad, Yock
248 Adv Prosthodontics (ar cr; prereq 245, ‡) Olsen
249 Adv Prosthodontics (ar cr; prereq 246, ‡) Olsen
250 Adv Oral Surgery (ar cr) Clark
251 Seminar: Oral Surgery (1 cr) Clark
252 Research: Oral Surgery (ar cr) Clark
253 Probs: Oral Surgery (ar cr) Clark
260 Oral Pathology, Histology (4 cr) Gorlin
261 Adv Dental Roentgenology (ar cr) Yamane
262 Research: Oral Pathology (ar cr) Gorlin
263 Seminar: Oral Pathology (1 cr) Gorlin
265 Seminar: Histopathology Slide (1 cr) Gorlin
267 Seminar: Human Genetics (1 cr) Gorlin
268 Current Literature Review (1 cr) Gorlin
280 Adv Periodontics Clinic (ar cr) Stallard
281 Adv Periodontics Lectures (3 cr) Stallard
282 Research: Periodontics (ar cr) Stallard
283 Seminar: Periodontics (2 cr) Stallard
284 Supporting Structures of the Teeth (3 cr) Stallard

COLLEGE OF EDUCATION

AGRICULTURAL EDUCATION (AgEd)

Fall Quarter

1 Introduction (1 cr; prereq ‡)
III Th, Hr 301, Kitts
20 Rural Education, Community Leadership (3 cr)
11:15-12:30 TTh, Hr 102, Swanson
81 Teaching Agriculture in Secondary School (4 cr; prereq Ed 55B or ¶)
Lect IV MWF, Hr 301, Kitts
Lab VII-VIII T
103 Adult Education in Agriculture (4 cr; prereq sr)
Lect III MWF, Hr 301
Lab VII-VIII Th
104 Planning Programs (3 cr; prereq ‡)
11:15-12:30 TTh, Hr 301, Peterson
120 Rural Education, Community Leadership (3 cr, §20; prereq grad or ‡)
11:15-12:30 TTh, Hr 102, Swanson
141 Supervised Farm Practice in Vocational Agriculture (3 cr, total 9 cr; prereq grad or ‡, 10 cr educ or ‡) Peterson
221 Field Probs (3 cr)
232 Research (ar cr; prereq 15 cr educ)
286 Current Issues (ar cr; prereq ‡)

Winter and Spring Quarters

1s See 1f
20s See 20f: 11:15-12:30 TTh
56w,s Rural Education Through Extension Methods (3 cr; prereq soph) III MWF
81s See 81f
91w Student Teaching (6 cr; prereq sr, 81, Ed 55B, ‡)
101w Young Farmer Education in Agriculture (4 cr; prereq sr)

103s See 103f
104s See 104f
120s See 120f
121s Enterprise Analysis (3 cr; prereq sr or ‡)
145w High School Curriculum in Agriculture (3 cr; prereq sr, 10 cr educ)
156w,s Rural Education Through Extension Methods (3 cr, §56; prereq grad or ‡) III MWF
171s Procedures: Teaching Agriculture (3 cr; prereq ‡)
221w,s See 221f
232w,s See 232f
291w Seminar (ar cr)

ART EDUCATION (ArEd)

Fall Quarter

10 Elementary Survey (2 cr)
—1, I-II TTh, WuH 210, Bradley
—2, I-II TTh, WuH 220, Mitra
—3, I-II TTh, WuH 240
—4, III-IV TTh, WuH 210, Olson
—5, III-IV TTh, WuH 220, Salome
—6, III-IV TTh, WuH 240

14 Introduction (2 cr)
II TTh, WuH 110, Olson

17 Pictorial Expression for Elem Education (3 cr)
—1, I-II MWF, WuH 240, Mitra
—2, III-IV MWF, WuH 240, Mitra
—3, VI-VII MWF, WuH 240, Salome

18 Design Activities for Elem Education (3 cr)
—1, I-II MWF, WuH 210, Bradley
—2, VI-VII MWF, WuH 210

19 Functional Arts, Crafts in Elem Education (3 cr)
III-IV MWF, WuH 220, Hegg

53 Intro to Weaving (3 cr)
VI-VII MF, VI W, WuH 340, Smits

54 Adv Weaving (3 cr)
VII W, VIII MWF, WuH 340, Smits

56 Principles, Experiences (5 cr; prereq 14)
—1, I-II MWF, WuH 110, 120, Salome
—2, III-IV MWF, WuH 110, 120, Hastie

58 Principles, Experiences (5 cr; prereq 14)
VI-VII MTWThF, WuH 110, 120, Olson

84 Teaching Art in Elementary School (2 cr; prereq 6 or 10 cr from 17, 18, 19)
Lect VI TTh, WuH 230, Gayne
—1, Lab VII TTh, WuH 210
—2, Lab VII TTh, WuH 220
—3, Lab VII TTh, WuH 240

86 Student Teaching, Supervision (3 cr, †86-87-88; prereq sr, 56, 57, Ed 55A, 55B, ¶86A) Hastie, Olson

86A Teaching, Supervision (2 cr, †86A-87A-88A; prereq sr, 56, 57, Ed 55A, 55B, ¶86)
IX-X MWF, WuH 110, Bradley, Gayne

87 Student Teaching, Supervision (3 cr, †86-87-88; prereq sr, 56, 57, Ed 55A, 55B, ¶87A) Bradley, Mitra

88 Student Teaching, Supervision (3 cr, †86-87-88; prereq sr, 56, 57, Ed 55A, 55B, ¶88A) Hegg, Salome

151 Curriculum Building (3 cr)
III-IV S, WuH 130, Hastie

156 Intercultural Education Through Art (3 cr)
I-II S, WuH 110, Gayne

295 Problems (ar cr; prereq cons maj adv) Gayne, Hastie

296 Seminar (1 cr) Gayne, others

Winter and Spring Quarters

10w,s See 10f: I-II TTh; III-IV TTh
14w,s See 14f: I TTh; III TTh
17w,s See 17f: I-II MWF; III-IV MWF
18w,s See 18f: I-II MWF (w,s); III-IV MWF (w only); VI-VII MWF (w,s)
19w,s See 19f: III-IV MWF
53w,s See 53f
54w,s See 54f
56w-57s‡ See 56f: VI-VII MTWThF
57w-58s‡ See 56f: I-II MTWThF; III-IV MTWThF
81w Puppetry in Education (3 cr) I-II MWF
84w,s See 84f
86w,s-87w,s-88w,s See 86f-87f-88f
-87Aw-88As See 86f
189w Application of Aesthetic Theory in Education (3 cr) I-II S
284w Research (3 cr) III-IV S
295w,s See 295f
296w,s See 296f

CHILD PSYCHOLOGY (CPsy)

Fall Quarter

80 Child Psychology (3 cr; prereq Psy 2)
III MWF, Bo B6, Charlesworth

80H Honors Course: Child Psychology (3 cr; prereq Psy 2, ‡)
III MWF, CD 105, Karmel

81 Adolescent Psychology (3 cr; prereq Psy 2)
VI MWF, FraH 101, Hill

127 Social Behavior of Children (3 cr; prereq 80, ‡) Kilmer

132 Adolescent Development (3 cr, §81; prereq sr, 12 cr educ psy or psy or soc or HE)
VII MWF, ForH 346, Roff
143 Probs of Mental Deficiency (3 cr; prereq 80)
VI MWF, CD 218, Pick
179 Clinical Procedures with Children (3 cr; prereq 12 cr educ psy or psy or soc or child psy)
9:00-11:30 S, Bu 120, Reed
180 Personality Development (3 cr; prereq 80)
III MWF, CD 218, Hill
190 Topics: Child Psychology (ar cr; prereq ‡)
210 Adv Child Psychology (3 cr; prereq ‡)
IV MWF, CD 218, Hartup, Malmquist
216 Cognitive Development (3 cr; prereq 12 cr child development or psy)
3:15-4:45 MW, CD 218, Wright
220 Seminar: Current Issues in Child Psychology I (1 cr; prereq ‡)
IV-V alt T, CD 102, Flavell
223 Seminar: Developmental Psychology (ar cr; prereq ‡) Babska, Charlesworth, Karmel
226 Adv Language Development (3 cr; prereq 12 cr child psy or psy, ‡)
3:15-4:45 TTh, CD 218, Flavell
249 Treatment of Disturbed Children (3 cr; prereq ‡)
VI-VII F and ar, CD 117, Wirt
250 Practicum: Clinical Child Psychology (5 cr; prereq ‡) Ruebush

Winter and Spring Quarters

80w,s See 80f: III MWF (w), II MWF (s)
81w,s See 81f: I MWF (w), I MWF (s)
125w Experimental Research with Children (3 cr; prereq 80, ‡) VIII MWF (w)
126s Case Study of Children (3 cr; prereq 80, ‡)
127w See 127f
140w Behavior Probs (3 cr; prereq 80) I MWF
142w Psychology of Handicapped Children (3 cr; prereq 80) VI MWF
144s Psychology of the Gifted Child (3 cr; prereq 80) VIII MWF
181s Social Development (3 cr; prereq 80) II MWF
183s Language Development (3 cr; prereq 80) VII MWF
190w,s See 190f
-211w See 210f
212s Research Methods in Child Psychology (3 cr; prereq ‡) VI MWF
214w Learning in Children (3 cr; prereq Psy 129 or ‡) 3:15-4:45 TTh
215s Perception in Children (3 cr; prereq Psy 150, ‡) 3:15-4:45 MW
217w Adv Personality Development (3 cr; prereq ‡) VII MWF
218s Abnormal Child Psychology (3 cr; prereq 217, ‡) 3:15-4:45 TTh
219s Adv Social Development (3 cr; prereq ‡) 3:15-4:45 TTh
-221w-222s See 220f
-224w-225s See 223f
227s Multiple Factor Analysis (2 cr; prereq 3 qtrs stat, ment meas) VIII-IX Th
249w,s See 249f
250s See 250f
251w Practicum: Clinical Child Psychology (5 cr; prereq ‡)
287w Behavior of Preschool Children (3 cr; prereq ‡)

EDUCATIONAL ADMINISTRATION (EdAd)

Fall Quarter

101 Public School Admin (3 cr; prereq sr, 9 cr educ, non educ admin maj)
IX-X M, Pt 102, Popper
118 The Community School (3 cr; prereq sr, grad)
IX-X M, Pt 111, Pierce
167 Junior High School (3 cr; prereq sr, 9 cr educ)
IX-X W, JohH 106, Popper
210 Public School Finance (3 cr)
I-II S, Pt 111, Domian
215 The Elem School Principalship (3 cr; prereq 201, 202 or ‡)
III-IV S, Bu 105, Curtin
224 Legal Aspects of Public School Admin (3 cr)
IX-X T, Pt 111, Hooker
227 Public School Personnel Programs (3 cr)
IX-X Th, Bu 123, Davis
228 Probs: Educational Admin (1-3 cr) Davis, Domian, Hooker, Mueller
236 Field Study (0-10 cr; prereq ‡) Curtin, Davis, Domian, Firth, Hooker, Lambert, Mueller, Nickerson, Pierce, Popper
241 Seminar: Internship (1 cr)
VI-VII Th, Pt 214, Nickerson
264 The Secondary School Principalship (3 cr)
I-II S, PeikH 155, Nickerson

270A Probs: Elem School Admin (ar cr; prereq ‡) Clymer, Curtin, Goossen, Lambert
270B Probs: Secondary School Admin (ar cr; prereq ‡) Davis, Domian, Firth, Hooker, Mueller, Nickerson, Pierce, Popper
290 Financing Higher Education (3 cr; prereq ‡)
VI-VII T, Pt 214, Hendrix

Winter and Spring Quarters

200w Seminar: Elem School Admin (3 cr; prereq 215 or ‡) IX-X T
201w Foundations (3 cr) 4:15-6:45 M
202s Foundations (3 cr) I-II S
215s See 215f: IX-X T
218w Seminar: Secondary School Admin (3 cr; prereq 201, 202 or ‡) VII-VIII M
228w,s See 228f
230s School Community Relations (3 cr) IX-X M
233s Workshop: Junior High School (1-4 cr) III-IV S
235s Seminar (1-3 cr; prereq MA in educ admin or ‡) VII-IX M
236w,s See 236f
238s Seminar: Research, Theory (1-3 cr) VI-VIII W
239s School Principal's Workshop (1-4 cr)
241w,s See 241f
242w Admin Organization, Staffing of School Systems (3 cr; prereq ‡) III-IV S
253w Admin in Higher Education (3 cr; prereq EdCI 250) 3:00-5:00 M and ar
264s See 264f: IX-X T
265w Administering the High School Program (3 cr) I-II S
270Aw,s See 270Af
270Bw,s See 270Bf
274w The Junior College (3 cr) IX-X Th
275s Junior College Admin (3 cr; prereq 274 or ‡) IX-X Th

EDUCATIONAL PSYCHOLOGY (EPsy)

Fall Quarter

110 **Educational Measurement in the Classroom** (3 cr)
IX-X W, Pt 110, Becklund
116 **Introductory Statistical Methods** (3 cr)
VII MWF, CD 218, Terwilliger
116A **Introductory Statistical Methods Lab** (2 cr; prereq ¶116)
VI-VII TTh, WuH 330
125 **Group Dynamics in Education** (3 cr)
I-II TTh, Pt 110, David W Johnson
133 Intro to Guidance (3 cr; prereq 9 cr educ)
IX-X W, 1 hr ar, Bu 125, Tennyson
134 Counseling Procedures (3 cr; prereq 110 or 117, 133, ‡)
IX-X M, Pt 214, A Anderson
150 **Clinical Practice in Remedial Teaching** (3 cr; prereq EdCI 145 or 151, ‡)
159 **Personality Development, Mental Hygiene** (3 cr)
I MWF, Pt 110, Kaul
182 Education of Exceptional Children (3 cr; prereq Ed 55B or 75B)
III-IV S, Pt 110, Force
184 **Intro to Education of Mentally Retarded** (3 cr; prereq 182)
IX-X W, Pt 102
186 **Education of Emotionally Disturbed, Socially Maladjusted Children** (3 cr; prereq grad or ‡)
II MWF, CD 105, Wilderson
187 Education of Crippled Children (3 cr; prereq 182 or ‡)
IX-X Th, Pt 214, Force
188 Education of the Culturally Disadvantaged Child (3 cr; prereq HEd 90, CPsy 80)
IX-X T, Pt 214, Wood
194 Experimental Analysis of Instruction (3 cr)
VII-VIII TTh, WuH 130, Hively
196 Psychology of School Learning (3 cr, §193, †196-197; prereq sr)
III MWF, Bu 125, P Johnson
200 Seminar: Guidance (1-3 cr; prereq ‡)
V W, Bu 125, A Anderson
207 Research Practicum (3-6 cr, †9 cr total; prereq ‡) Wilk
208 Methods in Educational Research (3 cr; prereq MA students)
VII MWF, Bu 125, White
209 **Seminar: Research Planning** (1 cr)
VIII-IX T, Bu 125, Hoyt
210 **Individual Mental Testing** (3 cr, §142; prereq 110 or 117 or ¶117 with ‡)
VI-VII TTh, Bu 125, Briggs
216 **Statistical Methods** (3 cr; prereq 116 or Psy 70)
—1, II MWF, Arch 10, Collier, MacEachern
—2, II MWF, Arch 145, Collier, MacEachern
216A **Statistical Methods Lab** (2 cr; prereq ¶216)
—1, I-II TTh, WuH 330
—2, III-IV TTh, WuH 330, Schluck
—3, VI-VII MW, WuH 330, Schluck
—4, VIII-IX TTh, WuH 330, Schluck

219 Design, Analysis of Experiments (3 cr; prereq 218 or ‡)
VII MWF, Bu 120, MacEachern

219A Design, Analysis of Experiments Lab (2 cr; prereq ¶219)
IV-V MW, WuH 330, MacEachern

220 Adv Theory of Measurement (3 cr; prereq 117, 217 or ‡)
9:45-11:00 TTh, CD 105, Hoyt

233 Probs: Guidance, Personnel Work (1-9 cr) Parker, others

234 Seminar: Counseling Theory, Research (3 cr)
VI-VII TTh, ForH 346, Blocher, Parker

240 Probs: Measurement (3 cr) Hoyt

243 Probs: Statistics for Students in Education, Psychology (3 cr)

244 Research: Special Education (1 cr; prereq 116, 117, ‡)
IX-X M, Pt 110, Karlsen, Reynolds

248 Seminar: School Psychology (1 cr; prereq PhD or spec cand, ‡) Duker, Hall

250 College Student Personnel Work: Development, Admin (3 cr; prereq 1 course higher educ or ¶ or ‡)
III-IV TTh, Bu 125, Parker

251 College Student Personnel Work (1-3 cr; prereq 250 or 1 course higher educ)
VIII-IX Th, Bu 125, Parker, others

253 Research Probs (ar cr; prereq ‡) Wilk, others

255 **Diagnosis, Treatment of College Learning Difficulties** (3 cr; prereq 1 course in rdg, ‡)
VII-VIII W, 1 hr ar, JohH 106, Raygor

257 **Clinical Practice in Educational Diagnosis** (5 cr, §151; prereq 210, EdCI 145, ‡)

260 Seminar: Educational Psychology (ar cr)
VIII-IX M, Bu 125, Wilk

261 Survey of Theory, Research in Mental Retardation (3 cr; prereq ‡)
VII-VIII TTh, Bu 123, Turnure

265 Theories of Educating Disturbed Children (3 cr; prereq ‡)
VI-VIII Th, A 202

281 **Practice in Personnel Work** (3 cr; prereq 226 or ‡)
—1, VI-VII Th and ar, EdH 202, Hagenah
—2, Ar, Parker

282A Field Practice in Guidance (1-3 cr; prereq ‡)
I-IV S, Bu 125

287 Practicum: School Psychological Services (1-3 cr; prereq ‡) Duker, Hall

288 Practicum: Special Education (3-9 cr; prereq ‡) Reynolds, others

290 **Adv Counseling Practicum** (3 cr; prereq ‡) Blocher

295 Research Practicum in Programmed Instruction, Behavior Modification (1 cr; prereq 194-195 or ‡) Hively

298 Psychological Theories of Teaching (3 cr; prereq 196-197 or ‡)
VIII-IX MW, VH 303, Neale

Winter and Spring Quarters

110w,s See 110f: VIII MWF

116w,s See 116f: VI MWF (s); VII MWF (w)

116Aw,s See 116Af

117w,s Basic Prin of Measurement (3 cr; prereq 116 or 216 or Psy 70) VIII MWF (w); VII MWF (s)

125s See 125f: 4:15-5:30 TTh

126w Analysis of Behavior in Groups (3 cr; prereq 125) I-II TTh

133w,s See 133f: III-IV S (w); II MWF (s)

134w Counseling Procedures (3 cr; prereq 110 or 117, 133, ‡) III-IV S

140s Instruments, Techniques of Measurement (3 cr; prereq sr, 110 or 117) VIII MWF; IX W

148s Clinical Diagnosis of Reading Difficulties (3 cr; prereq EdCI 145) 2:15-3:30 TTh

150w,s See 150f

152s Intro to School Psychological Services (3 cr) III MWF

159w,s See 159f: IX-X MW (w); I MWF (s)

182w,s See 182f: VII MWF

183w Education of Gifted Children (3 cr; prereq Ed 55B or 75B) IX-X T

186s See 186f: IX-X T

188w See 188f: IX-X Th

190w Educational Probs of Cerebral Palsy (3 cr; prereq 183 or ‡) IX-X Th

193w,s Psychological Analysis of Instruction (3 cr, §193, 196-197; prereq sr) I MWF (w); 4:15-5:30 TTh (s)

194w Experimental Analysis of Instruction (3 cr) VII-VIII TTh

-197w See 196f

200w,s See 200f

207w See 207f

208w,s See 208f: VII MWF (w); 2:15-3:30 T (s)

209w,s See 209f: VIII-IX T (w); IX-X T (s)

210s See 210f

211w Adv Individual Mental Testing (3 cr, §143; prereq 210, ‡) VI-VII TTh

216w-217s See 216f: I MWF

216Aw-217As See 216Af: IV-V MW

217w-218s See 216f

-217Aw-218As See 216Af: I-II TTh (w,s); III-IV TTh (w,s); VI-VII MW (w,s); VIII-IX TTh (w,s)

-221w See 220f

225w Counseling Theory, Procedure I (3 cr; prereq 140 or ¶, 133 or 250 or Psy 130) VIII-IX TTh

226s Counseling Theory, Procedure II (3 cr; prereq 225) VIII-IX TTh

233w,s See 233f

234s Seminar: Counseling Theory, Research (3 cr) VI-VII TTh

240w See 240f

243w,s See 243f

244w,s See 244f

248w,s See 248f

251w,s See 251f: III-IV Th (w,s)

252s Seminar: College Student (1-3 cr; prereq 6 cr psy or educ psy) III-IV T

253w,s See 253f

254s Measurement, Evaluation in Higher Education (3 cr) VIII-IX M; 1 hr ar

256s Clinical Practice in Diagnosis, Treatment of College Learning Difficulties (3 cr; prereq 255)

257w,s See 257f

259w,s Personality Theory in Mental Hygiene (3 cr)

260w,s See 260f

262w Functional Analysis of Behavior in Mental Retardates (3 cr; prereq 261) VII-VIII TTh

263s Design, Interpretation of Behavioral Research with Mentally Retarded (3 cr; prereq 262) VII-VIII T

266w Research: Education of Disturbed Children (3 cr; prereq ‡) VI-VIII Th

267s Research Designs: Education of Disturbed Children (3 cr; prereq ‡) VI-VIII Th

268s Seminar: Culturally Disadvantaged (3 cr; prereq ‡) VII-VIII W

280w Practicum in Group Leadership (3 cr; prereq ‡)

281w,s See 281f

282Aw See 282Af

282Bw,s Supervised Practicum in Counseling (1-3 cr; prereq ‡) I-IV S (w only)

286w Adv Course: Education of Emotionally Disturbed, Socially Maladjusted Children (3 cr; prereq ‡) IX-X T

287s See 287f

288w,s See 288f

289s Survey: Special Education Probs (3 cr; prereq 182, ‡) IX-X W

295w Research Practicum in Programmed Instruction, Behavior Modification (1 cr; prereq 194-195 or ‡)

297s Psychology of Knowledge Acquisition (3 cr; prereq 196-197 or Psy 128-129 or ‡) III MWF

299s Seminar: School Learning (3 cr; prereq 196-197 or Psy 128-129, ‡) VII-VIII TTh

GENERAL EDUCATION

Curriculum and Instruction (EdCI)

Fall Quarter

45 Intro to Business, Distributive Education (3 cr)
IV MWF, Bu 105, Meyer, Price, Warmke

54 Literature, Story Telling for Young Children (2 cr; prereq CPsy 80)
VI TTh, CD 105, Headley

56 Methods, Observations in Kindergarten (3 cr; prereq CPsy 80)
VI MWF, CD 105, Headley

57 Nursery-Kindegarten-Primary Lab: Art, Music, Science, Social Studies (4 cr; prereq CPsy 80)
VIII MWF, CD 105, Headley

59 Methods, Observation in Nursery School (3 cr; prereq CPsy 80)
VIII T, VIII-IX Th, CD 105, Wade

60 **Teaching Reading in Elem School** (3 cr; prereq Ed 75A)
—1, I MWF, Bu 120, Harris
—2, III MWF, Bu 120, Odland
—3, VII MWF, Marcy School, Manning
—4, VIII MWF, Bu 120, Boesen

61 **Teaching Social Studies in Elem School** (3 cr; prereq Ed 75A)
—1, II MWF, Pt 214, Keach
—2, III MWF, Pt 214, Rogers
—3, VI MWF, Pt 214, Johnson
—4, VIII MWF, Pt 214, Rogers

62 **Teaching Mathematics in Elem School** (3 cr; prereq Ed 75A, Math 5A-B)
—1, III MWF, JohH 122, Maertens
—2, VI MWF, JohH 113, Jackson
—3, 4:15-5:30 TTh, JohH 113, Hatfield

63 **Children's Literature** (3 cr)
—1, III TTh, Bu 120, Odland
—2, VI TTh, Bu 120, Peterson
—3, IX-X W, Bu 120, Peterson

64 **Teaching English in Elem School** (3 cr; prereq Ed 75A)
—1, II MWF, Pt 110, Dykstra
—2, III MWF, Pt 110, Chase
—3, VI MWF, Pt 110, Lilja
—4, VII MWF, Pt 110, Stein

65 **Teaching Science in Elem School** (3 cr; prereq Ed 75A, 10 cr nat sci)
—1, 9:45-11:00 TTh, Pt 111, Goossen

—2, III MWF, Pt 111, Humphreys
—3, VII MWF, Pt 111, Humphreys
—4, VII-VIII T, VII Th, Pt 111, Goossen

102 Teaching, Supervision of Social Studies in Elem School (3 cr; prereq Ed 75B)
I-II S, Pt 214, Keach

105 Audio-Visual Materials in Education (3 cr; prereq sr)
I-II S, NH 211, 1 hr ar, Pearson

106 Co-ordinating an Audio-Visual Education Program (3 cr; prereq 105 or ‡)
IX-X M, WeH 206, Pearson

108 **Nonprojected Audio-Visual Materials, Equipment Lab** (3 cr; prereq 105 or ¶)
Lect IX-X T, WeH 206, Pearson
—1, VI-VII M, WeH 206
—2, IX-X Th, WeH 206

110 Practicum: Lab School Teaching, K-6 (ar cr; prereq tchg exper, ‡) Curtin, Lambert

113 Principles of Secondary School Curriculum (3 cr; prereq Ed 55B)
III-IV S, PeikH 165, 1 hr ar, Firth

115 Intro to Education of Visually Handicapped Children (3 cr; prereq ‡)
IX-X W, Pt 111, Martin

119 Elem School Curriculum (3 cr; prereq Ed 75B)
IX-X W, Bu 123, Goossen

121 Literature for Elem School (3 cr)
IX-X T, Bu 123, Odland

122 Literature for Adolescents (3 cr; prereq Ed 55B or jr-sr HS tchg exper)
I-II S, Bu 123, Kemp

124 Foundations of Career Development (3 cr)
IX-X T, NH 209A, Borow

125 **Occupational Information Lab** (3 cr; prereq ‡)
IX-X Th, PeikH 165, Hansen

129 Trends, Issues in Secondary Curriculum (3 cr; prereq 113)
IX-X T, Bu 120

136 **Organization, Admin of Distributive Education** (3 cr)
4:15-6:30 W, Bu 105, Klaurens, Meyer

143A Teaching Supervision of Reading in Elem School (3 cr; prereq 9 cr educ)
IX-X T, NH 207, Clymer

144 Teaching Reading in Secondary Schools (3 cr; prereq 9 cr educ)
IX-X M, Bu 123, Chase

145 Reading Difficulties (3 cr; prereq 143 or 144)
IX-X W, JohH 114, Manning

147 **Workshop Teaching Display** (3 cr; prereq ‡)
4:15-6:30 M, Bu 105, Klaurens

149A Teaching, Supervision of Mathematics in Elem School (3 cr, §149; prereq 62 or ‡)
IX-X Th, Pt 102, Jackson

150 Supervision, Improvement of Instruction (3 cr; prereq 9 cr educ)
IX-X T, ForH 346, Lambert

151 Diagnosis, Treatment of Learning Difficulties (3 cr)
III-IV S, Pt 111, Bormuth

153 Teaching, Supervision of English in Elem Schools (3 cr; prereq 64 or elem sch tchg experience)
IX-X W, Pt 214, Chase

155 Materials Lab for Social Studies Teachers (3 cr; prereq ‡)
III-IV S, PeikH 155, Gardner

165A Mathematics for Gifted Children (3 cr; prereq 62 or 149A or ‡)
4:15-5:30 MW, JohH 113, Stochl

171 Workshop: Curriculum Lab Practice (0-3 cr; prereq 113 or 119, ‡) Birkmaier, Firth

173 Preparation of Curriculum Materials (3 cr, §173A-B; prereq 113 or 119)
IX-X Th, PeikH 255, Firth

174 Clinical Methods, Practice in Speech Pathology (3 cr, §SSPA 164; prereq SSPA 141, 142 or ‡)
5:00-6:30 Th, FolH 103, Starr

174A Clinical Practicum in Speech Correction-Cleft Palate (1 cr; prereq SSPA 146) Starr

175 Clinical Methods, Practice in Speech Pathology (3 cr, §SSPA 165; prereq 174)
5:00-6:30 Th, FolH 103, Starr

176 Clinical Methods, Practice in Speech Pathology (3 cr, §SSPA 166; prereq 175)
5:00-6:30 Th, FolH 103, Starr

184 Supervision of Student Teaching (3 cr; prereq 15 cr educ or ‡)
III-IV S, PeikH 175, Mork

185 Adv Course: Teaching of Modern Languages (3 cr)
I-II S, PeikH 225, Birkmaier, Lange

191 Adv Teaching, Supervision of Secondary Mathematics (3 cr)
IX-X Th, PeikH 315, David C Johnson

195 **Current Development, Curriculum Construction in English** (3 cr; prereq EdT 75C or 75D)
I-II S, PeikH 245, Kegler, Piché

199E Internship (ar cr) Mork

200 Organization, Supervision of Business Education (3 cr; prereq ‡)
IX-X T, Bu 105

201 Probs: Teaching Social Studies (ar cr; prereq 102 or 155 or 168, 204 or ‡) Gardner, Keach, McCune, Morse, Rogers, Warmke, West

205 Probs: Audio-Visual Education (ar cr; prereq ‡) Pearson

207 Probs: Radio-Television Education (1-3 cr; prereq 107) Pearson

215 Probs: School Health Education Program (ar cr; prereq ‡) Grout

222 Seminar: Secondary Curriculum, Instruction (1 cr, †3 cr; prereq 113)
IX-X W, PeikH 265, Gardner, Firth

225 Probs: Secondary School Supervision (ar cr; prereq ‡) Firth

226 Seminar: Elem School Probs (no cr)
4:00-5:00 Th, PeikH 165

228 Probs: Higher Education, Teacher Education (ar cr; prereq ‡) Eckert, Morse

230 Theory, Classical Research in Math Education (3 cr; prereq 149A or 191 or ‡)
IX-X Th, NH 209A, Stochl

232 Probs: Teaching Mathematics (ar cr; prereq 230 or 231 or 291) Jackson, David C Johnson, Donovan Johnson, Stochl

233 Seminar: Mathematics Education (0-3 cr; prereq ‡)
IX-X T, PeikH 315, Jackson, David C Johnson, Donovan Johnson, Stochl

237 Seminar: Research in Business, Distributive, Economic Education (0 cr; prereq ‡) Meyer, Price, Warmke

238 Probs: Distributive Education (ar cr; prereq ‡) Meyer

239 Probs: Business Education (ar cr; prereq ‡) Price, Warmke

241 Seminar: Adv Study in Supervision, Curriculum Development (1 cr, †3 cr; prereq 113, 170 or 172)
IX-X M, PeikH 255, Birkmaier, Firth

242 Field Practicum: Supervision, Curriculum Development (1 cr, †3 cr; prereq 113, 170) Firth

243A Research Foundations for Reading Instruction (3 cr; prereq 143A, ‡)
VII-VIII W, JohH 520, Clymer

250 **Higher Education in U S** (3 cr; prereq 18 cr educ or 1 yr grad study in any field)
VII MWF, FraH B20, Eckert

252 Effective College Teaching (3 cr; prereq 18 cr educ or 1 yr grad study in any field)
I-II S, Bu 105, Eckert

254 Directed Experience in College Instruction (ar cr; prereq ‡)

261 Probs: Improvement of Instruction (ar cr; prereq ‡) Bormuth, Chase, Clymer, Curtin, Dykstra, Goossen, Humphreys, Jackson, Keach, Lambert, Manning, Odland, Stochl

271 Probs: Curriculum Construction (ar cr; prereq ‡) Birkmaier, Boeck, Firth, Gardner, David C Johnson, Donovan Johnson

273 Probs: Reading (ar cr; prereq 143A or 144 or ‡) Bormuth, Chase, Clymer, Dykstra, Kegler, Manning, Odland, Raygor

284 Probs: Student Teaching (3-9 cr; prereq ‡) Mork

295 Readings: English, Modern Language Education (1-3 cr; prereq MA) Birkmaier, Kegler

296 Probs: Teaching English (ar cr) Chase, Dykstra, Kegler

Winter and Spring Quarters

54s See 54f: VII TTh

55s Foundation of Early Childhood Education (3 cr; prereq CPsy 80 or ¶) VI MWF

56w,s See 56f

57w See 57f: VII MWF

59s See 59f

60w,s See 60f: I or III or VIII MWF (w,s); VI-VII MW (w,s)

61w,s See 61f: II or III MWF (w,s); VI (s); VII MWF (w,s)

62w See 62f: I or III MWF; VI or VII MWF

62s See 62f: III or VI or VII MWF

63w See 63f: I or III or VIII TTh

63s See 63f

64w,s See 64f: I MWF (s); II MWF (w); III or VI MWF (w,s); VII MWF (s)

65w,s See 65f: II Th (w,s); II MWF (s); II-III T (w,s); III MWF (w); VI MWF, VII Th (w,s); VII-VIII T (w,s)

102s See 102f

103s Teaching Science in Elem School (3 cr; prereq sr, Ed 75B or tchg exper) III-IV S

104s Adult Education (3 cr) IX-X Th

105w,s See 105f: I-II T (s); 1 hr ar (s); IX-X T (w)

107s Radio, Television in Education (3 cr; prereq 9 cr educ) IX-X M

109w Projected Audio-Visual Materials, Equipment Lab (3 cr; prereq 105 or ¶) VI-VII M; IX-X M; IX-X Th

110w,s See 110f

113s See 113f: IX-X Th, 1 hr ar

114w Interdisciplinary Approaches to Curriculum (3 cr) IX-X T

119w See 119f: III-IV S

121w See 121f: I-II S
122s See 122f
124s Foundations of Career Development (3 cr)
125s See 125f
127w Methods of Teaching School Subjects to Hearing Impaired (3 cr; prereq SSPA 183, ‡) IX-X T
131w Adv Teaching Technical Business Subjects (3 cr) I-II S
132s Teaching Basic Business Subjects (3 cr) IX-X T
135w Group Procedures in Guidance (3 cr; prereq EPsy 133 or ‡, 9 cr educ) IX-X Th
139w Co-ordination Techniques (3 cr) 4:15-6:30 W
141s Co-operative Part-Time Work Experience Programs (3 cr) 4:15-6:30 W
142s Business, Distributive Programs for Adults (3 cr) 4:15-6:30 M
143Aw,s See 143Af: IX-X W (w); IX-X T (s); 1 hr ar (w,s)
143Bw Materials, Instructional Techniques of Elem Reading (3 cr; prereq 60 or 143A or ‡) IX-X W; 1 hr ar
143Cs Instructional Leadership in Elem Reading (3 cr; prereq 143A or ‡) III-IV S
144s See 144f: IX-X T
145w,s See 145f: IX-X M (w); IX-X Th, 1 hr ar (w)
149Bw,s Materials Lab for Elem School Mathematics Instruction (3 cr; prereq 62 or 149A or ‡) 9:15-12:00 S (w); VII-IX T (s) (Srs only s)
149Cs Current Developments in Elem School Mathematics Instruction (3 cr; prereq 62 or 149A or ‡) 4:15-5:30 MW
150s See 150f: III-IV S
151s See 151f: IX-X M
153w,s See 153f: I-II S (s); IX-X W (w); 1 hr ar (w)
155Aw Materials Lab for Social Studies Teachers (3 cr; prereq 61 or 102 or ‡)
156w Trends in Business Education (3 cr) IX-X T
158s Materials, Methods in Office, Stenographic Procedures (3 cr) I-II S
159w Materials Lab, Secondary School Distributive Education (3 cr; prereq 137A or EdT 90C or ‡) III-IV S
160s Materials Lab, Occupational Relations (3 cr; prereq 137A or EdT 90C or ‡) III-IV S
165Bs Mathematics for Slow Learning Children (3 cr; prereq 62 or 149A or ‡) IX-X Th
166s Current Trends in Kindergarten Education (3 cr; prereq tchg exper in NKP, ‡) IX-X W
168w Current Developments in Social Studies (3 cr; prereq grad or ‡) I-II S
169w Student Activity Programs in Secondary Schools (3 cr; prereq Ed 55B) IX-X Th
170w Programs, Procedures or Curriculum Development (3 cr, §170A-B; prereq 113 or 119) III-IV S
171w,s See 171f
172s Supervision of Secondary Instruction (3 cr; prereq 113) I-II S
174w,s See 174f: 5:00-6:00 Th (w); 5:00-6:30 Th (s)
174Aw,s See 174Af
175w,s See 175f: 5:00-6:00 Th (w); 5:00-6:30 Th (s)
176w,s See 176f: 5:00-6:00 Th (w); 5:00-6:30 Th (s)
178w Structure, Function of the Eye: Educational Implications (3 cr; prereq ‡) IX-X W
179w Education of Mentally Retarded Children in Elem School (3 cr; prereq EPsy 184) VII MWF
180w Education of Mentally Retarded in Secondary Schools (3 cr; prereq EPsy 184) IX-X Th
182s Education of Partially Seeing Children (3 cr; prereq 115, 118, ‡) IX- X W
189w Materials, Curriculum Construction in Modern Languages (3 cr; prereq 185, ‡) I-II S
190s Current Developments in Secondary School Science Teaching (3 cr; prereq EdT 68B, 68C or 68M or Sci Tchg) I-II S
192w Mathematics Lab (3 cr; prereq grad or tchg exper) 4:15-6:45 Th
194s New Content, Methods in Mathematics (3 cr; prereq math tchg exper) IX-X MW
199Ew,s See 199Ef
201w,s See 201f
203s Supervision, Admin of Special Education (3 cr; prereq ‡) IX-X T
204s Social Studies Curriculum (3 cr) IX-X M
205w,s See 205f
206w Curriculum Construction in Elem Social Studies (3 cr; prereq 61 or 102, 154 or ‡) IX-X T
207w,s See 207f
208s Research: Elem Social Studies (3 cr; prereq 61 or 102, 154 or ‡) IX-X W
215w,s See 215f
217s Seminar: School Health Education Program (ar cr; prereq ‡)

222w,s See 222f
225w,s See 225f
226w,s See 226f
228w,s See 228f
231w Recent Research in Elem School Math Instruction (3 cr; prereq 230 or ‡) IX-X W
232w,s See 232f
233w,s See 233f
237w,s See 237f
238w,s See 238f
239w,s See 239f
241w,s See 241f
242w,s See 242f
243Bw Recent Research: Reading (3 cr; prereq ‡) IX-X T
243Cs Seminar: Reading Instruction (0-3 cr; prereq ‡) IX-X W
250w See 250f: I-II S
251s Curriculum Trends in American Colleges (3 cr; prereq 18 cr educ or 1 yr grad study in any field) I-II S
252s See 252f: VII MWF
253Aw,s Seminar: Materials, Methods in Marriage Education (4 cr)
254w,s See 254f
257w Research: English Comp in Elem Schools (3 cr; prereq 153) III-IV S
261w,s See 261f
264w Research: Educational Diagnosis (3 cr) IX-X W
271w,s See 271f
273w,s See 273f
280s Supervision of Counseling (3 cr; prereq ‡) IX-X T and ar
284w,s See 284f
285w-286s Professional Education of Teachers (3 cr; prereq 15 cr educ incl 184, 250 or HEd 182 or EPsy 250 or ‡) III-IV S
287w Research Foundations of Secondary School Science Teaching (3 cr) I-II S
288s Seminar: Research in Modern Language Learning (3 cr; prereq 185, ‡) I-II S
291w Research: Mathematics Education (ar cr; prereq 191) IX-X M
294w Adv Materials, Methods in Secondary School English (3 cr; prereq EdT 75C) I-II S
295w,s See 295f
296s See 296f

Education (Ed)

Fall Quarter

55A **Intro to Secondary School Teaching** (5 cr; prereq Psy 2)
Lect I MWF, NH 45, Williams
—1, I TTh, Bu 105
—2, I TTh, Bu 125
—3, II TTh, Bu 123
—4, II TTh, Bu 125
—5, III TTh, Pt 110
—6, III TTh, NH 211
—7, V TTh, Bu 120
—8, V TTh, Pt 111
—9, VI TTh, Bu 123
—10, VI TTh, Pt 111
—11, VIII TTh, Pt 110
—12, VIII TTh, Pt 102
75A **Intro to Elem School Teaching** (5 cr; prereq Psy 2)
Lect IV MWF, Sch 108, Samuels
—1, I-II TTh, WuH 130
—2, I-II TTh, JohH 105
—3, I-II TTh, Pt 214
—4, I-II TTh, TNCD 113
—5, III-IV TTh, Pt 214
—6, III-IV TTh, WuH 130
—7, III-IV TTh, CD 218
—8, VI-VII TTh, Pt 110
—9, VI-VII TTh, CD 218 (for NKP students only)
—10, VI-VII TTh, TNCD 113

Winter and Spring Quarters

55Aw See 55Af: Lect I MWF, rec II or III or V or VI TTh
55Bw,s Intro to Secondary School Teaching (5 cr; prereq 55A) II-III MWF or VII-VIII MWF
75Aw See 75Af
-75Bw See 75Af

History and Philosophy of Education (HEd)

Fall Quarter

90 **School, Society** (3 cr; prereq sr)
—1, IV MWF, P 110, Travisano
—2, VI MWF, P 110, Travisano
—3, VII MWF, P 110, Travisano
—4, VII-VIII T, VII Th, P 110, Bagley
—5, VIII MWF, P 111, Neff
141 Critical Issues in Contemporary Education (3 cr)
III-IV S, CD 218, Neff
149 Social History of American Education (3 cr, §Hist 139E)
2:15-3:30 TTh, FolH 110, Smith
155 History of Western Educational Thought (3 cr)
IX-X Th, Bu 105, Bagley
190 Sociology of Education (3 cr; prereq 90)
IX-X W, Pt 204

241 Problems (ar cr; prereq ♯) Bagley, Corcoran, Neff, Smith
296 Seminar: American Social, Educational History (3 cr, §Hist 237E)
IX-X W, SocSci(W) 633, Smith

Winter and Spring Quarters

90w See 90f: IV or VI or VII or VIII MWF; VII Th, VII-VIII T
131w Comparative Education (3 cr) IX-X W
151s Social History of American Education (3 cr, §Hist 141E; prereq 150) 2:15-3:30 TTh
156w History of Ideas in American Education (3 cr) IX-X Th
170s American Pragmatism, Education (3 cr) IX-X Th
182s Comparative Philosophies of Education (3 cr) IX-X W
190s See 190f: III-IV S
241w,s See 241f
-297w-297s See 296f: IX-X W

HOME ECONOMICS EDUCATION (HEEd)

Fall Quarter

49 **Introduction** (2 cr; prereq Psy 2, soph)
—1, I MW, McNH 103
—2, I TTh, McNH 102
61 Methods of Teaching Home Economics (3 cr; prereq 60, ¶62)
II MWF, McNH 103, Burklund
62 Evaluation in Home Economics (3 cr, §192; prereq 60, ¶61)
V-VI MWF, McNH 102, Brown
63 **Supervised Teaching in Home Economics** (9 cr, §93-94; prereq 61, 62, HE 4, 21, 41)
—1, III-V MTWThF and ar, McNH 103, Wantoch
—2, VI-VIII MTWThF and ar, McNH 144, Wantoch
90 Child Development (3 cr; prereq soph, Psy 2)
VIII MWF, McNH 201, Laubengayer
90A Practicum in Child Development (1 cr; prereq 90 or ¶)
V T and ar, McNH 102, Christenson
95 Field Experience for Home Agents (6 cr; prereq 49, △, cons dir agric ext)
II TTh, McNH 108, Ford
165 Proseminar (2 cr)
7:00-9:00 pm T, McNH 102, Brown
190 Readings (1-3 cr; prereq cons adv, ♯)
201 Problems (1-9 cr, §old 293; prereq 200A, ♯) Brown, Ford
295 Seminar (1 cr)
VIII-IX T, McNH 108, Ford

Winter and Spring Quarters

49s See 49f
60w,s Curriculum (3 cr; prereq 49, Soc 1 or 1A, Ed 55B or ¶) III MWF (w); VI MWF (s)
61s See 61f
62s See 62f: III-IV MWF
63w See 63f: IV-V or VI-VIII MTWThF and ar
64w,s Adult Education in Home Economics (3 cr, §194A; Prereq 60) VI-VII TTh
65w,s Colloquium (2 cr; prereq 63) VIII WF
90s See 90f
90Aw,s See 90Af
95w See 95f
164w Adult Education in Home Economics (3 cr, §194B; prereq 64 or ♯) III-IV TTh
166s Trends (3 cr, §243; prereq 160A or B) 6:30-9:30 pm Th
190w,s See 190f
201w,s See 201f
266w Seminar: History, Philosophy (2 cr; prereq 166, 200B) 6:00-9:00 pm Th

INDUSTRIAL EDUCATION (Ind)

Fall Quarter

1 **Handicrafts** (3 cr)
I-III TTh, TNCD 218 (for non-maj only)
2 **Wood Processing I** (3 cr)
I-II MWF, TNCD 1, Bortz
4 Wood Processing III (3 cr; prereq △) Nelson
6 **Industrial Arts Teaching** (5 cr)
VIII-X TTh, PeikH 45, Randleman
7 **Drafting** (3 cr)
I-III TTh, TNCD 201, Pratzner
9 **Building Construction Drafting** (3 cr; prereq 7)
I-II MWF, TNCD 201, Pratzner
10 Adv Drafting B (3 cr; prereq △) Nelson
12 **Craftwork** (3 cr)
V-VII TTh, TNCD 1, Hahn
15 **Graphic Arts I** (3 cr)
I-III TTh, TNCD 14, Moss (for OT students only)
22 **Industrial Electronics** (3 cr; prereq 21)
VI-VII MWF, TNCD 15, Kavanaugh

23 Applied Electronics I (3 cr; prereq △) Nelson
24 Applied Electronics II (3 cr; prereq △) Nelson
25 **Metal Processing I—Gen Metalworking** (D) (3 cr; prereq △) Petryk
27 Metal Processing III (3 cr; prereq △) Nelson
28 Metal Processing IV (3 cr; prereq △) Nelson
29 Metal Processing V (3 cr; prereq △) Nelson
31 Automotive Mechanics I (A) (3 cr; prereq △) Nelson
32 Automotive Mechanics II (A) (3 cr; prereq △) Nelson
35 **Fundamentals of Vocational Education** (3 cr)
IX-X M, TNCD 113, Miletich
40 Analysis, Course Organization (3 cr)
IX-X Th, TNCD 113, Kavanaugh
60A Student Teaching (3 cr, †60A-60B-60C; prereq 6, 55 or 6, 100, △)
60B Student Teaching (3 cr, †60A-60B-60C; prereq 60A)
60C Student Teaching (3 cr, †60A-60B-60C; prereq 60B)
60D Student Teaching (3 cr; prereq △)
60S Student Teaching Seminar (1-3 cr; prereq ¶60A-B-C-D)
VIII W, TNCD 116
70 Drafting-Technical Specialty (B) (3 cr; prereq △) Nelson
71 Drafting-Technical Specialty II (B) (3 cr; prereq △) Nelson
72 Graphic Arts-Technical Specialty I (B) (3 cr; prereq △) Nelson
73 Graphic Arts-Technical Specialty II (B) (3 cr; prereq △) Nelson
74 Power Mechanics-Technical Specialty I (A) (3 cr; prereq △) Nelson
75 Power Mechanics-Technical Specialty II (A) (3 cr; prereq △) Nelson
76 Metals-Technical Specialty I (D) (3 cr; prereq △) Nelson
77 Metals-Technical Specialty II (D) (3 cr; prereq △) Nelson
78 Electronics-Technical Specialty I (C) (3 cr; prereq △) Nelson
79 Electronics-Technical Specialty II (C) (3 cr; prereq △) Nelson
90 Independent Study (3 cr; prereq jr or ♯)
VIII M, TNCD 116, Randleman
91 Independent Study (3 cr; prereq 90)
VIII M, TNCD 116, Randleman
92 Independent Study (3 cr; prereq 91)
VIII M, TNCD 116, Randleman
100 Industrial Instruction (3 cr; prereq 40, Ed 55B, ♯)
IX-X W, TNCD 116, Moss
107 Coordination (3 cr; prereq 35 or 125 or ♯)
IX-X T, TNCD 116, Miletich
200 Research Probs (3, 6 or 9 cr)
III-IV M, TNCD 103, Kavanaugh, Moss, Nelson, Randleman
205 Seminar (no cr)
V W, TNCD 116, Randleman
250 Literature (3 cr; prereq ♯)
IX-X Th, TNCD 116, Nelson

Winter and Spring Quarters

1w,s See 1f
2w,s See 2f: II-IV TTh (w), I-II MWF (s)
3w Wood Processing II (3 cr; prereq 2 or ♯) I-II MWF
4w,s See 4f
6s See 6f
8w Design I (3 cr; prereq 7 or ♯) III-IV MWF
9s See 9f: III-IV MWF
10w,s See 10f
12s See 12f: II-IV TTh
15w See 15f
16s Graphic Arts II (3 cr) I-III TTh
20w Electricity, Electronics (3 cr) VI-VII MWF
21s Communication Electronics (3 cr; prereq 20) VI-VII MWF
23w,s See 23f
24w,s See 24f
26w,s Metal Processing II—Machine Shop Practices (D) (3 cr; prereq △) 4:30-9:30 Th (w)
27w,s See 27f
28w,s See 28f
29w,s See 29f
30s Small Gas Engines (3 cr; prereq △) 3:30-6:30 MF
31w,s See 31f
32w,s See 32f
44s Equipment, Mgmt (3 cr; prereq 6 or 40 or ♯) IX-X W
50w,s Industrial Practices, Processes (3 cr; prereq 35) VI-VIII T
55w Teaching Industrial Arts (3 cr; prereq Ed 55A or ¶) IV-V TTh
60Aw,s-60Bw,s-60Cw,s See 60Af-60Bf-60Cf
60Dw See 60Df
60Sw,s See 60Sf
70w,s See 70f
71w,s See 71f
72w,s See 72f
73w,s See 73f
74w,s See 74f
75w,s See 75f
76w,s See 76f
77w,s See 77f
78w,s See 78f
79w,s See 79f

90w,s See 90f
91w,s See 91f
92w,s See 92f
101w Tests in Industrial Subjects (3 cr; prereq Ed 55B) IX-X Th
105w Administration (3 cr; prereq 35 or ‡) IX-X T
109w Conference Leading for Industry (3 cr; prereq ‡) IX-X M
110s Vocational Guidance (3 cr; prereq Ed 55B) IX-X Th
115s Supervision (3 cr; prereq 35 or 105) IX-X M
135s Course Construction (3 cr, §40) IX-X T
155s Critical Issues in Industrial Education (3 cr) IX-X W
200w,s See 200f
205w,s See 205f
251w Research (3 cr; prereq ‡) IX-X W

METHODS AND STUDENT TEACHING (EdT)

Fall Quarter

50 Junior Practicum: Special Education (3 cr; prereq ‡) Force, Podolsky, Grismer
51A Teaching Nursing (4 cr; prereq ‡)
I MWF, MH 118, Backlund, Dunning
52 Student Teaching (ar cr) Mork, others
53A Teaching Handicapped Children (6 cr; prereq ‡)
3:30-5:00 T and ar, Grismer
53B Teaching Handicapped Children (6 cr; prereq 53A)
3:30-5:00 T and ar, Grismer
54A Student Teaching: Elem School (6 cr)
4:30-6:00 M and ar, Erlandson, others
54B Student Teaching: Elem School (6 cr; prereq 54A)
4:30-6:00 M and ar, Erlandson, others
60 Student Teaching: Library Science (2-6 cr; prereq sr, Lib 53, 62, 70, 74, 171, 172 or ‡) Olson
67 Student Teaching: Mathematics (1 or 3 or 6 cr, †9 cr; prereq sr, ¶67A, Math 60 or ¶)
—1, IX-X F and ar (off-campus)
—2, Ar (on-campus), David Johnson, others
67A Teaching Secondary School Mathematics (3 cr, †67A-67B-67C; prereq sr, ¶67)
—1, I MWF, PeikH 315
—2, IX-X MW, PeikH 315
68 Student Teaching: Science (1 or 3 or 6 cr, †9 cr; prereq sr, ¶68A)
—1, IX-X F and ar (off-campus)
—2, Ar (on-campus), Boeck, others
68A Teaching Secondary School Science (3 cr, †68A-68B-68C; prereq sr, ¶68)
—1, IX-X MW, PeikH 365, Boeck (phys sci maj only)
—2, IX-X MW, PeikH 385, Gennaro (nat sci maj only)
69 Student Teaching: Social Studies (3-6 cr; prereq sr, ¶69A)
—1, IX-X F and ar (off-campus)
—2, VIII W and ar (on-campus), PeikH 165, Beery, others
69A Teaching Social Studies in Secondary School (3 cr, †69A-69B; prereq sr, ¶69)
IX-X MW, PeikH 165, Beery
69J Student Teaching: Social Studies Juniors (1 cr; prereq jr, ¶Ed 55A)
VII W and ar (on-campus)
70 Student Teaching: Modern Languages (3 or 6 cr, †9 cr; prereq sr, ¶70A)
—1, IX-X F and ar (off-campus), PeikH 225
—2, VIII-IX M and ar (on-campus), PeikH 225, Lange, others
70A Teaching Modern Languages (3 cr, †70A-70B; prereq sr, ¶70)
VIII-IX TTh, PeikH 225, Birkmaier
71 Student Teaching: Latin (3-9 cr, †9 cr; prereq sr, ¶71A)
IX-X F and ar (off-campus), PeikH 225
71A Teaching Latin (3 cr, †71A-71B; prereq sr, ¶71)
VIII-IX TTh, PeikH 225, Birkmaier
72 Student Teaching: Distributive Education (3-9 cr, †9 cr; prereq Ed 55B, ‡)
VI-VII F and ar, Bu 105, Ashmun
73 Student Teaching: Business Subjects (3-9 cr, †9 cr; prereq Ed 55B, ‡)
75 Student Teaching: Language Arts (3 or 6 cr, †9 cr; prereq sr, ¶75A)
—1, IX-X F and ar (off-campus)
—2, Ar (on-campus), Kemp, others
75A Teaching Language Arts in Secondary School (3 cr, †75A-75B, 75C or 75D; prereq sr, ¶75)
—1, I MWF, PeikH 275, Piche
—2, VIII-IX MW, PeikH 275, Bacig
77 Student Teaching: Nursery School (1-6 cr)
4:30-6:00 M and ar, CD 105, Sorensen, others
78 Student Teaching: Kindergarten (6 cr)
4:30-6:00 M and ar, Sorensen, others
79 Student Teaching: Primary Grades (6 cr)
4:30-6:00 M and ar, Sorensen, others
82 Teaching Basic Business Subjects (2 cr; prereq Ed 55B or ¶)
VIII-IX MTh, JohH 106

84 Practice, Field Work in Recreation Leadership (2 or 4 cr; prereq jr, recr maj)
I T, 6 hrs ar, CH 206, Giles

85 Practice, Field Work in Recreation Leadership (1 or 2 or 4 cr; prereq sr, recr maj or min)
V W, 3 hrs ar min, 6 hrs ar maj, CH 206, Giles

90A Teaching Distributive Education Subjects (2 cr, †90A-90B-90C; prereq ‡)
VII TTh, Bu 105, Ashmun

Winter and Spring Quarters

50w,s See 50f

-51Bw See 51Af: I-II TTh (6 cr)

52w,s See 52f

53Aw,s-53Bw,s See 53Af-53Bf

54Aw,s-54Bw,s See 54Af-54Bf

60w,s See 60f

67w,s See 67f: IX-X M and ar (off-campus)

-67Bw-67Cs See 67Af: I MW or IX-X W (1 cr)

68w,s See 68f: IX-X M and ar (off-campus)

-68Bw-68Cs See 68Af: IX-X W (1 cr)

68Ms Teaching Secondary School Science (3 cr; prereq min only) IX-X TTh

69w,s See 69f: IX M and ar (off-campus) or VIII W and ar (on-campus)

69Jw,s See 69Jf: VIII W and ar (on-campus)

69Aw See 69Af: IX-X MW (3 cr)

-69Bw,s See 69Af: IX-X MW (2 cr)

-69Ms Teaching Social Studies in Secondary School (3 cr; prereq min only) VIII MWF

70w,s See 70f: IX-X M and ar (off-campus) or, VIII-IX F and ar (on-campus)

-70Aw See 70Af: VIII-IX TTh

-70Bw,s Teaching Modern Languages (2 cr, †70A-70B; prereq 70A, ¶70) VIII-IX TTh

70Ms Teaching Modern Languages (3 cr; prereq min only) VIII-IX TTh

71w,s See 71f: IX-X M and ar (off-campus)

71Aw See 71Af: VIII-IX TTh

-71Bw,s Teaching Latin (2 cr, †71A-71B; prereq 71A, ¶71) VIII-IX TTh (2 cr)

71Ms Teaching Latin (3 cr; prereq min only) VIII-IX TTh

72w,s See 72f

73w,s See 73f

74w Teaching Journalism (3 cr; prereq Jour 41 or 51) VIII MWF

75w,s See 75f: IX-X M and ar (off-campus) or ar (on-campus)

75Aw See 75Af: VIII MWF

-75Bw,s Teaching Language Arts in Secondary School (1 cr, †75A-75B, 75C or 75D; prereq 75A) I MW or VIII-IX W (w); VIII MW (s)

-75Cs See 75Af: IX-X T (1 cr)

-75Ds Teaching Language Arts in Secondary School (1 cr, †75A-75B, 75C or 75D; prereq 75B, spch maj or spch core) IX-X T

75Gs Teaching Language Arts in Secondary School (3 cr; prereq min in Engl or lang arts with maj other than spch) IX-X TTh

-76Gs Teaching Language Arts in Secondary School (3 cr; prereq min in spch with maj other than Engl) IX-X TTh

77w,s See 77f

78w,s See 78f

79w,s See 79f

80s Teaching Typewriting, Bookkeeping (2 cr; prereq Ed 55B or ¶) VIII-IX MTh

81w Teaching Shorthand (2 cr; prereq Ed 55B or ¶) VIII-IX MTh

84w,s See 84f

85w,s See 85f

90Bw-90Cs See 90Af

MUSIC EDUCATION (MuEd)

Fall Quarter

4 **Applied Instrumental Technique** (2 cr; prereq mus educ maj or ‡)
I MTWTh, MusEd 200, Sieber

5 **Applied Instrumental Technique** (2 cr; prereq mus educ maj or ‡)
VI MTWTh, MusEd 101, Prescott

6 **Applied Instrumental Technique** (2 cr; prereq mus educ maj or ‡)
VII MTWTh, MusEd 101, Prescott

7 **Applied Instrumental Technique** (2 cr; prereq 4, mus ed maj, ‡)
III TWThF, MusEd 104, Sieber

9 **Instrumental Technique** (2 cr; prereq 5)
II MTWTh, MusEd 101, Prescott

10 **Instrumental Technique** (2 cr; prereq 6)
I MTWTh, MusEd 101, Prescott

20 Educators Chorus (1 cr; prereq mus maj or min in educ)
II MWF, NMA 4, Caswell

50A Teaching Music in Primary Grades (2 cr; prereq ‡)
III MWF, ScH 104, Borg

51 **Teaching of Music** (2 cr; prereq Mus 4)
—1, I MWF, WuH 320, Nyberg
—2, II MWF, ScH 104, Nyberg
—3, III MWF, ScH 103
—4, V MWF, ScH 104, Borg

—5, VII MWF, ScH 103, Swanson
—6, VIII MWF, ScH 104, Nyberg

52 **Teaching Music: Interm Grades** (2 cr; prereq 51, Mus 4 or ♯)
—1, I MWF, NMA 4, Swanson
—2, III MWF, NMA 4, Swanson
—3, VI MWF, ScH 104
—4, VII MWF, NMA 4

59 Choral Literature, Conducting (1 or 2 cr; prereq 20)
V TTh, WuH 320

60 Student Teaching, Supervision (2 or 3 cr; prereq sr, 53, Ed 55B, ♯)
IX-X W, ScH 104, Borg, Caswell

61 Student Teaching, Supervision (3-12 cr; prereq sr, 53, Ed 55B, ♯)
IX-X W, ScH 104, Borg, Caswell

65 Instrumentation (3 cr; prereq sr, Mus 6T)
V MWF, NMA 4

68 Teaching Instrumental Music (3 cr; prereq ♯)
IV MWF, ScH 103

104 Adv Topics: Vocal Music (3 cr; prereq sr, ♯)
IX-X M, ScH 104, Caswell

224 Research Probs (3-9 cr; prereq elem stat)
VIII W, ScH 214, Borg, Caswell

251 Seminar: Curriculum Development (3 cr; prereq MA in mus or mus ed)
IX-X T, ScH 103, Borg, Caswell

Winter and Spring Quarters

4w See 4f
-5w,s See 5f
-6w,s See 6f
7w See 7f
8w,s Instrumental Technique (2 cr; prereq mus educ maj or ♯) I MTWTh (w); II MTWTh (s)
9s See 9f: I MTWTh
10s See 10f: II MTWTh
20w,s See 20f
50Bw Teaching Music in Interm, Jr High Grades (2 cr; prereq 50A, ♯) III MWF
51w,s See 51f: I or II or III or V or VII or VIII MWF (w), I or II or III or V MWF
52w,s See 52f: I or III or VI or VIII MWF (w), I or III or VI or VIII MWF (s)
53s Teaching Music in Secondary Schools (3 cr; prereq 20, 59, Mus 3T, ♯) III MWF
54s Teaching Music in Nursery, Kindergarten, Primary Grades (2 cr; prereq Mus 4, NKP maj) VII MWF
55s Music for Recreational Leadership (2 cr; prereq Mus 4) III TTh
59s See 59f
61w,s See 61f
65s See 65f
68w See 68f
69w,s Instrumental Literature, Conducting (1 or 2 cr) VI TWTh
102s Gen Music in Elem, Jr High Schools (3 cr; prereq 52 or ♯) IX-X M
124w Selection, Conducting of Choral Materials (3 cr; prereq sr) V MWF
125w Selection, Instrumental Music Materials (3 cr; prereq sr) IX-X Th
224w,s See 224f
-252w-253s See 251f

PHYSICAL EDUCATION

For Facilities Fees, see page 170

Undergraduate Courses for Men (PEM)

Fall Quarter

1A **Courses Open to Men Only** (1 cr except where noted)
Adapted Activities (activity rating 1, 2, 3, 4, 5)
—1, III MWF, StadSouth 264, Osell
—2, IV MWF, StadSouth 264, Osell
—3, VIII MWF, StadSouth 264, Osell
Archery, Bgn (activity rating 1, 2, 3)
—4, I MWF, FieldHse
—5, II MWF, FieldHse
Badminton, Volleyball (activity rating 1, 2)
—6, I MWF, CH Gym
—7, II MWF, CH Gym
—8, III MWF, CH Gym
Bowling, Bgn (activity rating 1, 2, 3)
—9, I MWF, CMU, Hunt
—10, II MWF, CMU, Hunt
Conditioning (activity rating 1, 2)
—11, III MWF, FieldHse
—12, VI MWF, FieldHse
Foundations of Physical Activity (activity rating 1) (2 cr)
—13, VI MWF, CH 206, Serfass
Golf (activity rating 1, 2, 3)
—14, I MWF, StadSouth 267
—15, II MTWThF, StadSouth 267, Bolstad (Sept 26-Nov 4)

—16, III MTWThF, StadSouth 267, Bolstad (Sept 26-Nov 4)
—17, IV MTWThF, StadSouth 267, Bolstad (Sept 26-Nov 4)
—18, VI MTWThF, StadSouth 267, Bolstad (Sept 26-Nov 4)

Gymnastics (activity rating 1, 2)
—19, III MWF, CH AppGym

Handball, Paddleball (activity rating 1, 2)
—20, II MWF, StadNorth

Judo, Bgn (activity rating 1, 2)
—21, VII-VIII MW, StadNorth 205
—22, VII-VIII TTh, StadNorth 205

Karate, Bgn (activity rating 1, 2)
—23, V-VI TTh, StadNorth 205

SCUBA Diving (activity rating 1) (1 cr; prereq ARC swimmers test)
—24, IV-V MW, CH Pool, Mowerson

Soccer (activity rating 1, 2)
—25, IV-V TTh, FieldHse

Swimming, Bgn (activity rating 1)
—26, III MWF, CH Pool
—27, VI MWF, CH Pool

Tennis, Bgn (activity rating 1, 2)
—28, V MWF, CH Gym
—29, VI MWF, CH Gym

Touch Football (activity rating 1, 2)
—30, IV MWF (**StP Campus**), Nowotny

Weight Training (activity rating 1, 2)
—31, II MWF, StadSouth 264
—32, V MWF, StadSouth 264
—33, VII MWF, StadSouth 264

Freshman Cross Country
—34, Ar, Griak

Freshman Football
—35, Ar, Johnson

1A Courses Open to All Men, and Women

Badminton (activity rating 1, 2)
—36, 10:15-11:20 TTh, Gym (**StP Campus**)

Bowling, Bgn (activity rating 1, 2, 3)
—37, II MWF, StCen (**StP Campus**)
—38, 11:15-12:20 TTh, StCen (**StP Campus**)

Dance, Ballroom, Bgn (activity rating 1, 2, 3)
—39, 9:15-10:20 TTh, NGW 151
—40, 10:15-11:20 TTh, NGW 151
—41, 3:15-4:20 TTh, NGW 151

Dance, Folk, Square, Bgn (activity rating 1, 2)
—42, 2:15-3:20 TTh, NGW 151

Dance, Modern, Bgn (activity rating 1, 2)
—43, III MWF, NGW 151
—44, V MWF, NGW 151

Fencing, Bgn (activity rating 1, 2)
—45, I MWF, NGW 151
—46, 11:15-12:20 TTh, NGW 151

Figure Skating, Bgn (activity rating 1, 2)
—47, II MWF, NGW 201
—48, III MWF, NGW 201

Ice Skating, Bgn (activity rating 1, 2)
—49, II MWF, NGW 201
—50, III MWF, NGW 201

Swimming, Bgn (activity rating 1)
—51, III MWF, Gym (**StP Campus**)

2A Courses Open to Men Only (1 cr except where noted)

Bowling, Interm (activity rating 1, 2, 3) (1 cr; prereq Bgn Bowling or 150 avg)
—1, I-II TTh, CMU, Hunt

Life Saving (activity rating 1) (prereq ARC swimmer test)
—2, III MWF, CH Pool

Swimming, Interm (activity rating 1) (1 cr; prereq swim 25 yds)
—3, II MWF, CH Pool

Water Safety Instructor (activity rating 1) (2 cr; prereq ARC Senior Life Saving)
—4, V-VI TTh, CH Pool, Mowerson

Varsity Cross Country
—5, Ar, Griak

Varsity Football
—6, Ar, Warmath

2A Courses Open to All Men and Women (1 cr)

Dance, Modern, Interm (activity rating 1, 2)
—7, VIII MWF, NGW 151

Professional Courses

4B Basketball Fundamentals (1 cr)
8:15-9:15 TTh, WmsA, Hanson

5A Touch Football, Calisthenics, Tactics (1 cr)
10:35-11:35 TTh, CH Gym, Dorey, Piper

5B Gymnastics (1 cr)
2:05-3:05 TTh, CH AppGym, Bird

5C Stunts, Contests, Softball, Baseball (1 cr)
9:25-10:25 TTh, CH 215, Bird, DeSchriver, Siebert

6A Intramural Sports—Soccer, Speedball, Volleyball (1 cr)
12:45-1:45 TTh, CH Gym, DeSchriver, Weingarten

6B Intramural Sports—Hockey, Handball, Squash (1 cr)
12:55-1:55 TTh, CH 214, Piper, Walsh, Sonmor

7A **Games, Relays** (1 cr)
9:25-10:25 TTh, CH Gym, Dorey, Piper

8 **Tennis, Golf** (1 cr)
11:45-12:45 TTh, CH 214, Anderson, Walsh

32 Introduction (3 cr)
III MWF, CH 215, Bird, Walsh

55 **Methods, Materials** (4 cr; prereq 9 cr req activity classes, Ed 55A or ¶)
VI MWF and ar, CH 206, Metz

60B Athletic Training Lab (1 cr; prereq 60A)
II T, CH 214, Marshall, Stein

66 Officiating Football, Basketball (3 cr; prereq 4A, 4B)
I MWF, CH 214, Mueller

68 **Basketball Coaching** (2 cr; prereq 4B)
IV MWF, CH 214, Kundla

72 **Baseball Coaching** (2 cr)
V MWF, CH 214, Siebert

75 Student Teaching (3 or 6 cr, †9 cr; prereq 55, Ed 55B)
V T, CH 214, Ostrander, Torpey, Walsh

76 Student Teaching (9 cr, §75; prereq 55, Ed 55B)
V T, CH 214, Ostrander, Torpey, Walsh

77 Student Teaching for Coaching Certificate (3 cr; prereq sr)
V T, CH 214, Ostrander, Torpey, Walsh

Winter and Spring Quarters

1Bw Courses Open to Men Only Except Where Noted (1 cr)
Adapted Activities III MWF; IV MWF; VIII MWF
Archery, Bgn I or II MWF; III MWF **(Co-Ed) (StP Campus)**
Badminton, Bgn 10:15-11:20 TTh **(StP Campus) (Co-Ed)**
Badminton, Volleyball II or III MWF
Basketball, Bgn I-II TTh; or II MWF or IV MWF **(StP Campus) (Co-Ed)**
Bowling I or II MWF; II MWF or 11:15-12:20 TTh **(StP Campus) (Co-Ed)**
Conditioning III or VII or VIII MWF
Curling 2:30-3:30 MW **(Co-Ed)**
Dance, Ballroom, Bgn 10:15-11:20 TTh **(Co-Ed)** 1:15-2:20 TTh **(Co-Ed)**
Dance, Folk and Square, Bgn 9:15-10:20 TTh **(Co-Ed)**
Dance, Modern, Bgn III MWF **(Co-Ed)**
Diving VI MWF
Fencing 12:15-1:20 TTh **(Co-Ed)**
Figure Skating, Bgn II MWF **(Co-Ed)**
Golf II or III or IV or VI or VII MWF
Gymnastics VI MWF
Handball 9:15-10:20 TTh **(StP Campus)**
Handball, Paddleball II or III MWF
Ice Skating, Bgn II or III or VI MWF **(Co-Ed)**
Judo, Bgn VII-VIII MW; VII-VIII TTh
Karate V-VI TTh
Officiating-Basketball, Volleyball I TTh and ar
SCUBA Diving IV-V MW
Skiing, Bgn, Interm, 3:15-4:15 TTh **(Co-Ed)**
Swimming, Bgn III or VI MWF
Swimming, Bgn, Adv Bgn VI MWF **(StP Campus) (Co-Ed)**
Tennis, Bgn VI MWF
Volleyball, Bgn II MWF **(StP Campus)**
Weight Training V or VI or VII MWF
Wrestling, Bgn VI MWF
Freshman Basketball
Freshman Gymnastics
Freshman Ice Hockey
Freshman Swimming
Freshman Wrestling

1Cs (1 cr except where noted)
Adapted Activities III or IV or VIII MWF
Angling III MWF **(StP Gym)**
Archery, Bgn I or II MWF; II MWF **(StP Campus)**
Bowling I or II MWF
Conditioning V or VI MWF
Dance, Ballroom, Bgn 10:15-11:20 TTh **(Co-Ed)**
Dance, Folk and Square, Bgn 12:15-1:20, TTh **(Co-Ed)**
Dance, Modern, Bgn VI MWF **(Co-Ed)**
Diving VI MWF
Fencing, Bgn IV MWF **(Co-Ed)**
Foundations of Physical Activity I MWF (2 cr)
Golf I or II or III or IV MWF; or III-IV TTh; V or VI MWF **(StP Campus)**
Gymnastics III MWF
Handball, Paddleball II or III MWF
Judo, Bgn VII-VIII MW
Karate, V-VI TTh
SCUBA Diving IV-V MW
Softball IV MWF; IV MWF **(StP Campus)**
Swimming, Bgn III or VI MWF
Tennis, Bgn I MWF; I MWF **(StP Campus)**; I-II TTh **(StP Campus)**; II or III or V MWF
Trampoline, Apparatus VII MWF
Weight Training V or VI or VII MWF
Freshman Baseball
Freshman Golf
Freshman Tennis
Freshman Track

2Bw Courses Open to Men Only Except Where Noted
Bowling, Interm I-II TTh
Dance, Modern, Interm II MWF (Co-Ed)
Dance, Modern, Adv VII MWF (Co-Ed)
Fencing, Interm 1:15-2:20 TTh (Co-Ed)
Figure Skating, Interm III MWF (Co-Ed)
Ice Dancing IV MWF (Co-Ed)
Life Saving III MWF
Swimming, Interm II MWF
Water Safety Instructor V-VI TTh (2 cr)
Varsity Basketball
Varsity Gymnastics
Varsity Ice Hockey
Varsity Swimming
Varsity Wrestling

2Cs Courses Open to Men Only Except Where Noted
Bowling, Interm I-II TTh
Dance, Ballroom, Interm 3:15-4:20 TTh (Co-Ed)
Dance, Modern, Interm II MWF (Co-Ed)
Dance, Modern, Adv VII MWF (Co-Ed)
Dance Techniques 11:15-12:20 TTh (Co-Ed)
Fencing, Interm V MWF (Co-Ed)
Judo, Interm VII-VIII TTh
Life Saving III MWF
Swimming, Interm II MWF
Tennis, Interm IV or VI MWF; V-VI TTh (Co-Ed)
Water Safety Instructor V-VI TTh (2 cr)
Varsity Baseball
Varsity Golf
Varsity Tennis
Varsity Track

4Aw Football Fundamentals (1 cr) 2:05-3:05 TTh

4Bs See 4Bf: 8:15-9:15 TTh

4Cs Track Fundamentals (1 cr) 12:25-1:25 TTh

5Bw See 5Bf: 2:05-3:05 TTh

5Cs See 5Cf: 9:25-10:25 TTh

6Bw See 6Bf: 12:55-1:55 TTh

6Cw,s Aquatics (1 cr; prereq swim 50 yds in 45 seconds) 10:35-11:35 TTh

7Bw Wrestling (1 cr) 9:15-10:15 TTh

7Cs Recreational Games (1 cr) 11:15-12:15 TTh

8s See 8f: 1:35-2:35 TTh

9Aw Fundamental Rhythms (1 cr) 11:15-12:30 TTh

9Bs Square, Ballroom Dancing (1 cr) 9:15-10:30 TTh

55s See 55f: II MWF

60As Prevention, Care of Injuries (3 cr; prereq 50 or Anat 27) IV MWF

60Bw,s See 60Bf: I Th and ar (w); I Th (s)

63s Organization, Admin (3 cr; prereq 32 or 82, 55) III MWF

65w Adapted Physical Education (3 cr; prereq 51, Anat 27) II MWF

67s Football Coaching (2 cr; prereq 4A or 1 yr squad exper) V MWF

69w Track Coaching (2 cr; prereq 4C) IV MWF

71w Physiological Application to Sports (3 cr, §PubH 91, 92; prereq 50, Anat 57) 4:00-6:00 M

75w,s Student Teaching (3 or 6 cr, †9 cr; prereq 55, Ed 55B) IV T (w); V T (s)

76w,s See 76f: IV T (w); V T (s)

77w,s See 77f: IV T (w); V T (s)

81s Coaching of Ice Hockey (2 cr; prereq 6B or ‡) 10:15-11:30 TTh

96s Admin of Intramural Sports (2 cr) VI MWF

Undergraduate Courses for Women (PEW)

For Facilities Fees, see page 170

(First Class Meeting in Norris Gym, except StP classes)

Fall Quarter

A Courses Open to Women Only

Aquatics (activity rating 1)

Swimming, Bgn
—1, III MWF, NGW 51 (1 cr)
—2, IV MWF, NGW 51 (1 cr)
—3, VI MWF, NGW 51 (1 cr)

Swimming, Adv-Bgn
—4, 12:15-1:20 TTh, NGW 51 (1 cr)
—5, 1:15-2:20 TTh, NGW 51 (1 cr)

Swimming, Interm
—6, 10:15-11:20 TTh, NGW 58 (1 cr)

Swimming, Adv
—7, VIII MWF, NGW 58 (1 cr)

ARC Sr Life Saving
—8, V MWF, NGW 58 (1 cr)

Swimming, Synchronized
—9, VII MWF, NGW 58 (1 cr)

Water Safety Instructor's Course
—10, 1:15-3:20 TTh, NGW 58 (2 cr)

Gymnastics

Posture, Individual Exercise (activity rating 1, 2, 3)
—11, I MWF, NGW 153A (1 cr)
—12, IV MWF, NGW 153A (1 cr)
—13, VI MWF, NGW 153A (1 cr)
—14, VIII MWF, NGW 153A (1 cr)
—15, 9:15-10:20 TTh, Gy 100 (StP Campus) (1 cr)

Conditioning Exercises (activity rating 1, 2)
—16, 8:15-9:20 TTh, NGW 153 (1 cr)
—17, 9:15-10:20 TTh, NGW 153 (1 cr)
—18, 10:15-11:20 TTh, NGW 153 (1 cr)
—19, 2:15-3:20 TTh, NGW 153 (1 cr)
Apparatus (activity rating 1, 2)
—20, V MWF, NGW 153 (1 cr)

Individual, Dual Sports
Archery, Bgn (activity rating 1, 2, 3)
—21, 10:15-11:20 TTh, NGW 60 (1 cr)
—22, 2:15-3:20 TTh, NGW 60 (1 cr)
Badminton, Bgn (activity rating 1, 2)
—23, I MWF, NGW 60 (1 cr)
—24, 8:15-9:20 TTh, NGW 60 (1 cr)
—25, 9:15-10:20 TTh, NGW 60 (1 cr)
Bowling, Bgn (activity rating 1, 2, 3)
—26, III MWF, NGW 201 (1 cr)
—27, IV MWF, NGW 153 (1 cr)
—28, 9:15-10:20 TTh, NGW 153 (1 cr)
Bowling, Interm (activity rating 1, 2, 3)
—29, 11:15-12:20 TTh, NGW 153 (1 cr)
Golf, Bgn (activity rating 1, 2, 3)
—30, II MWF, NGW 60 (1 cr)
—31, III MWF, NGW 60 (1 cr)
Riflemarksmanship, Bgn (activity rating 1, 2, 3)
—32, 2:15-3:20 TTh, NGW 201 (1 cr)
—33, 3:15-4:20 TTh, NGW 201 (1 cr)
Social Games, Mixers (activity rating 1, 2, 3)
—34, 1:15-2:20 TTh, NGW 153 (1 cr)

Team Sports
Volleyball, Bgn (activity rating 1, 2)
—35, 8:15-9:20 TTh, NGW 153 (1 cr)
—36, IV MWF, NGW 151 (1 cr)
Volleyball, Interm (activity rating 1, 2)
—37, 12:15-1:20 TTh, NGW 151 (1 cr)
Field Hockey (activity rating 1, 2)
—38, IV MWF, NGW 60 (1 cr)

A Courses Open to Men and Women
Swimming, Bgn (activity rating 1)
—39, II MWF, Gy Pool (**StP Campus**) (1 cr)
Badminton, Bgn (activity rating 1, 2)
—40, 10:15-11:20 TTh, Gy 100 (**StP Campus**)
Bowling, Bgn (activity rating 1, 2, 3)
—41, II MWF, StCen (**StP Campus**) (1 cr)
—42, 11:15-12:20 TTh, StCen (**StP Campus**)
Fencing, Bgn (activity rating 1, 2)
—43, 11:15-12:20 TTh, NGW 151 (1 cr)
—44, I MWF, NGW 151 (1 cr)
Skating, Bgn (activity rating 1, 2)
—45, II MWF, NGW 201 (1 cr)
—46, III MWF, NGW 201 (1 cr)
Skating, Figure, Bgn (activity rating 1, 2)
—47, II MWF, NGW 201 (1 cr)
—48, III MWF, NGW 201 (1 cr)

Dance
Ballroom Dance, Bgn (activity rating 1, 2, 3)
—49, 9:15-10:20 TTh, NGW 151 (1 cr)
—50, 10:15-11:20 TTh, NGW 151 (1 cr)
—51, 3:15-4:20 TTh, NGW 151 (1 cr)
Folk, Square Dance, Bgn (activity rating 1, 2)
—52, 2:15-3:20 TTh, NGW 151 (1 cr)
Modern Dance, Bgn (activity rating 1, 2)
—53, III MWF, NGW 151 (1 cr)
—54, V MWF, NGW 151 (1 cr)
Modern Dance, Interm (activity rating 1, 2)
—55, VIII MWF, NGW 151 (1 cr)

Professional Courses

20A **Badminton** (1 cr)
—1, V MWF, NGW 60
—2, VIII MWF, NGW 60

20B Field Hockey-Volleyball (1 cr)
IV TTh, V Th, NGW 60, Gunderson

20D Beginning Aquatics (1 cr)
IV MWF, NGW 58, Stoner

40A Elem Modern Dance (1 cr)
II MWF, NGW 151, Dietz

40B Officiating of Field Hockey-Volleyball (1 cr; prereq 20B)
VII MW, NGW 151, 1 hr ar, Gunderson, Shick

45 **Physical Education Activities for the Elem School** (2 cr; prereq elem educ maj only)
—1, III MWF, NGW 153, 153A
—2, VII MWF, NGW 153, 153A

46 Water Safety Instructor's Course (2 cr; prereq current ARC Certificate)
VI-VII TTh, NGW 58, Young

55 Teaching Individual, Team Sports (3 cr; prereq 20A-B, 21A, 22B-C-D)
VI MTWF, NGW 60, 151, 201, 1 hr ar, Tenney, Hauptfuehrer

70 **Teaching Health, Physical Education in the Elem School** (3 cr; prereq 3rd qtr soph, elem educ maj, 45)
—1, III TTh, IV T, NGW 201
—2, V MWF, NGW 201
—3, VI MWF, NGW 201

87 Dance Composition (2 cr; prereq adv modern dance or techniques)
3:15-4:30 TTh, NGW 153, Dietz, Mordine

90A Orientation to Student Teaching (3 cr; prereq ‡) Hauptfuehrer

90B Student Teaching in Jr High School (3 cr; prereq Ed 55A-B, maj, ¶90C)
VII TTh, NGW 4 and ar, Hauptfuehrer, Slocum

90C Student Teaching in Sr High School (3 cr; prereq Ed 55A-B, maj, ¶90B)
VII TTh, NGW 4 and ar, Hauptfuehrer, Slocum

90D Student Teaching in Elem School (3 cr; prereq Ed 55A-B, maj)
VII TTh, NGW 4 and ar, Hauptfuehrer, Slocum

90E Adv Student Teaching (3 cr; prereq ♯)

93 Student Teaching for Minors (3 cr; prereq Ed 55A-B, phys educ min) Hauptfuehrer

Winter and Spring Quarters

Bw,Cs See Af (Open to Women Only)

ARC Sr Life Saving (1 cr) V MWF (w,s)

Adapted Activities (1 cr) 1:15-2:20 TTh (w); 2:15-3:20 TTh (s)

Archery, Interm (1 cr) 2:15-3:20 TTh (w); 3:15-4:20 TTh (s)

Badminton, Interm (1 cr) 10:15-11:20 TTh (w)

Basketball, Bgn (1 cr) I MWF (w)

Basketball, Interm (1 cr) 9:15-10:20 TTh (w)

Bowling, Interm (1 cr) 9:15-10:20 TTh (w)

Conditioning Exercises (1 cr) 8:15-9:20 TTh (w); 11:15-12:20 TTh (w); 12:15-1:20 TTh (w); 1:15-2:20 TTh (s); 3:15-4:20 TTh (s)

Golf, Bgn (1 cr) II or III or IV or V or VI MWF (s); 9:15-10:20 TTh (s); 10:15-11:20 TTh (s) (StP Campus)

Golf, Interm (1 cr) 11:15-12:20 TTh (s); 12:15-1:20 TTh (s)

La Crosse (1 cr) 1:15-2:20 TTh (s)

Posture and Individual Exercise (1 cr) I MWF (w); IV MWF (w,s); V MWF (s); VI MWF (w,s); 9:15-10:20 TTh (StP Campus) (w)

Riflemarksmanship (1 cr) 2:15-3:20 TTh (w,s); 3:15-4:20 TTh (w,s)

Softball (1 cr) VII MWF (s)

Stunts, Tumbling, Free Exercise (1 cr) V MWF (w)

Swimming, Bgn (1 cr) II MWF (s); VI MWF (w,s)

Swimming, Interm (1 cr) III MWF (s); VII MWF (w); 2:15-3:20 TTh (s)

Swimming, Adv-Diving (1 cr) IV MWF (w,s)

Swimming, Synchronized (1 cr) VII MWF (s)

Water Safety Instructors Course (2 cr) 9:15-11:20 TTh (s); 10:15-12:20 TTh (w); 12:15-2:20 TTh (s); 1:15-3:20 TTh (w); 3:15-5:20 TTh (s)

Tennis, Bgn (1 cr) I or II or III MWF (s); 8:15-9:20 TTh (s); 11:15-12:20 TTh (StP Campus) (s); 12:15-1:20 TTh (StP Campus) (s); 12:15-1:20 TTh; 2:15-3:20 TTh (s)

Tennis, Adv (1 cr) 11:15-12:20 TTh (s)

Track and Field (1 cr) III MWF (s)

Volleyball, Bgn (1 cr) IV MWF (w); 8:15-9:20 TTh (w)

Volleyball, Interm (1 cr) V MWF (w)

Bw,Cs See Af (Open to Men and Women)

Archery, Bgn (1 cr) III MWF (StP Campus) (w); VI MWF (w); VII MWF (w,s)

Badminton, Bgn (1 cr) II or IV or V MWF (w); 11:15-12:20 TTh (w); 10:15-11:20 TTh (StP Campus) (w)

Bowling, Bgn (1 cr) II MWF (StP Campus) (w); 11:15-12:20 TTh (StP Campus) (w); III or IV MWF (w); 11:15-12:20 TTh (w)

Curling, Bgn (1 cr) 2:30-3:30 MW (w)

Dance, Ballroom, Bgn (1 cr) 10:15-11:20 TTh (w,s); 1:15-2:20 TTh (w)

Dance, Ballroom, Interm (1 cr) 3:15-4:20 TTh (s)

Dance, Folk and Square, Bgn (1 cr) 9:15-10:20 TTh (w); 12:15-1:20 TTh (s)

Dance, Modern, Bgn (1 cr) III MWF (w); VI MWF (s)

Dance, Modern, Interm (1 cr) II MWF (w,s)

Dance, Modern, Adv (1 cr) VII MWF (w,s)

Dance Techniques (1 cr) 11:15-12:20 TTh (s)

Fencing, Bgn (1 cr) 12:15-1:20 TTh (w); IV MWF (s)

Fencing, Interm (1 cr) 1:15-2:20 TTh (w); V MWF (s)

Skating, Bgn (1 cr) II or III or VI MWF (w)

Skating, Figure, Bgn (1 cr) II MWF (w)

Skating, Figure, Interm (1 cr) III MWF (w)

Ice Dancing (1 cr) IV MWF (w)

Skiing, Bgn and Interm (1 cr) 3:15-4:15 TTh (w) (Student furnish equipment; must have VII hour free)

Social Games and Mixers (1 cr) 1:15-2:20 TTh (w); 2:15-3:20 TTh (s)

Swimming, Adv Bgn (1 cr) VIII MWF (s); 1:15-2:20 TTh (s); 2:15-3:20 TTh (w); VI MWF (StP Campus) (w)
Tennis, Interm (1 cr) 12:15-1:20 TTh (s); 1:15-2:20 TTh (s)

20Aw See 20Af: VIII MWF

21Aw Basketball (1 cr) VII-VIII TTh

21Bw Rhythmic Fundamentals, Elem Folk Dance (1 cr) 11:15-12:30 TTh

21Dw Posture, Functional Exercise (1 cr) II MWF

22As Folk, Ballroom Dance (1 cr) 9:15-10:30 TTh

22Bs Golf (1 cr) II-III TTh

22Cs Tennis (1 cr) IV or V MWF

22Ds Speed-A-Way, Softball (1 cr) VI-VII TTh

40Cs Stunts, Tumbling, Apparatus (1½ cr) 2:15-3:10 MWF

41Aw Adv Aquatics (1 cr) III or VI MWF

41Bw Officiating of Basketball (1 cr; prereq 21A) II TTh, 1 hr ar

42Aw Senior Life Saving (1 cr; prereq 41A) VI MWF

45w,s See 45f III MWF (w,s); VII MWF (w only); VIII MWF (w,s)

46w Water Safety Instructor's Course (2 cr; prereq current ARC Certificate) III-IV or VI-VII TTh

46s Water Safety Instructor's Course (2 cr; prereq current ARC Certificate) II-III TTh; V-VI TTh; VIII-IX TTh

54s Camp Leadership (3 cr) IV MWF

56s Teaching of Dance (3 cr, §47; prereq 21B, 22A, 40A) VI MTWF, 1 hr ar

57s Teaching Posture, Self-Testing Activities (3 cr, §85; prereq 21D, 40C) I-II TTh

70w,s See 70f: III TTh (w,s); IV T (w,s); VI MWF (w,s); VII MWF (s)

76w Teaching of Creative Dance for Children (3 cr; prereq 40A) 4:00-5:00 MW, 1 hr ar

80s History, Trends in Dance (3 cr; prereq ♯) IV MWF

-88w See 87f

90Bw,s See 90Bf: II TTh (w); III TTh (s)

90Cw,s See 90Cf: II TTh (w); III TTh (s)

90Dw,s See 90Df: II TTh (w); III TTh and ar (s)

90Ew,s See 90Ef

91Aw Physical Education for NKP (3 cr; prereq NKP maj, 3rd qtr soph) VI MWF

93w,s See 93f

95s Administration (3 cr; prereq sr) III MWF

Professional Courses for Men and Women (PE)

Fall Quarter

51 Mechanics of Movement (3 cr; prereq Anat 27)
IV MWF, NGW 3, Wilson, Serfass

82 Principles (3 cr; prereq sr)
VII MWF, NGW 3, Hauptfuehrer

97 Testing (2 cr; prereq Ed 55B)
3:15-4:30 MW, NGW 3, Stoner

104 Teaching Physical Education for the Handicapped Child (3 cr; prereq sr, ♯)
III MWF, NGW 4, Cato

118E Problems (ar cr; prereq MEd cand, ♯)

136 Intro to Research (3 cr; prereq ♯)
4:00-5:15 TTh, NGW 4, Wilson

137 Readings: Physical Education (1-3 cr; prereq sr honor, grad, ♯)

202 Professional Preparation of Physical Education Teachers (3 cr; prereq 102)
III-IV S, 1 hr ar, NGW 4, Jaeger

224B Research Probs (ar cr; prereq 224A or ♯)

233 Admin of Physical Education Program in Secondary Schools (3 cr; prereq 63)
VII MWF, CH 214, Piper

238 Admin of Physical Education in Colleges, Universities (3 cr; prereq PEM 63 or ♯)
I-II S, CH 214, Richardson

Winter and Spring Quarters

44s Physical Education Activities for Elementary School (3 cr; prereq phys ed maj, soph) I MTWF, 1 hr ar

61s History of Physical Education (3 cr) I MWF

82w See 82f: VI MWF

97s See 97f: 12:15-1:30 TTh

101w Foundations of Physical Education (3 cr; prereq grad or MEd student)
11:15-12:20 MW

102w Curriculum (3 cr; prereq sr) III MWF

115s Adv Kinesiology (3 cr; prereq undergrad kinesiology or ♯) II MWF

118Ew,s See 118Ef

124w Supervision of School Health, Physical Education (3 cr; prereq ♯) VI MWF

130w Contributions of Basic Sciences (3 cr; prereq grad or ♯) I-II S, 1 hr ar

135w Tests, Measurements (3 cr; prereq grad or MEd, EPsy 60) 4:00-5:15 MW

137w,s See 137f

171 Applied Physiology (3 cr; prereq PubH 92 or Phys 51) III-IV S, 1 hr ar

224Aw-224Bs Research Probs (3 cr; prereq 136, EPsy 116 or ‡) 4:00-5:15 TTh (w only)
-224Bw See 224Bf
261A Seminar: Contemporary Probs (3 cr; prereq 136, ‡) I-II S, 1 hr ar

RECREATION AND PARK ADMINISTRATION (Rec)

Fall Quarter

11 **Survey of Recreation Activities** (3 cr) I MWF, CH 215, Schultz
43 **Camp Aquatics** (2 cr) II MWF, CH 214, Ostrander
45 **Camp Craft** (2 cr) VI-VII TTh, CH 215, Ostrander
49 **Social Aspects of Leisure** (3 cr) VI MWF, CH 215, Schultz
110 Recreation Surveys (3 cr; prereq PEM 58) III MWF, CH 214, Anderson
111 **Recreation Areas, Facilities** (3 cr; prereq PEM 58) IV MWF, CH 215, Giles
118E Problems (ar cr; prereq MEd cand, ‡)
137 Readings: Recreation (1-3 cr; prereq sr, honor, grad, ‡)
141 Intro to Hospital Recreation (3 cr; prereq ‡) II MWF, CH 215, Chapman
224A Research Probs (3 cr; prereq PE 136, EPsy 116 or ‡)
224B Research Probs (ar cr; prereq 224A or ‡)
241 Admin of Public Recreation (3 cr) III-IV Th, CH 206, Anderson
261B Seminar: Contemporary Probs (ar cr; prereq cons adv) III-IV T, CH 206, Chapman

Winter and Spring Quarters

11s See 11f: I MWF
23w Recreation Leadership (3 cr) I MWF
43s See 43f: II MWF
45s See 45f: VI-VII TTh
46s Camp Leadership (2 cr) VII MW
52w Leadership in Social Activities (3 cr) VI-VII TTh
58w,s Leadership in Community Recreation (3 cr; prereq 57) II MWF (w); IV MWF (s)
64Aw-64Bs Leadership in Nature Recreation (2 cr; prereq 15 cr nat sci) II TTh (w); 12:15-2:30 T (s)
107w Camp Admin (3 cr; prereq 46, ‡) VI MWF
111s See 111f: IV MWF
112s Programming in Recreation (3 cr; prereq 58) VI MWF
116w Community Recreation Resources, Organizations (3 cr; prereq 110, 111, 112) III MWF
118Ew,s See 118Ef
121s Recreation Methods (3 cr; prereq EdT 84) II MWF
137w,s See 137f
142s Leadership in Hospital Recreation (3 cr; prereq 141) III MWF
-143w‡ Programming Hospital Recreation (3 cr; prereq 141) II MWF
224Aw,s See 224Af
224Bw,s See 224Bf
240s Legal, Financial Aspects of Recreation (3 cr) III-IV Th
242w Community Organization for Recreation (3 cr; prereq ‡) II-III Th
261Bs See 261Bf: III-IV T

SCHOOL HEALTH EDUCATION (Hlth)

Fall Quarter

25 **ARC: Standard Adv First Aid** (2 cr)
—1, I MWF, NGW 153, 201
—2, IV MWF, NGW 151, 201
59 Instructors Course in First Aid (3 cr; prereq age 20, ARC current certificate) II MWF, CH 206, Osell
70 **Teaching Health, Physical Education in the Elem School** (3 cr; prereq 3rd qtr soph, elem educ maj, 45)
—1, III TTh, IV T, NGW 201
—2, V MWF, NGW 201
—3, VI MWF, NGW 201
94 Student Teaching: School Health Education (2 cr; prereq sr, 83, ‡) Slocum
103 Role of the School Health Educator in Health Appraisal (3 cr; prereq sr, ‡) VI MWF, NGW 3, Slocum
118E Problems (ar cr; prereq MEd cand, ‡) Slocum
137 Readings: Health Education (1-3 cr; prereq sr honor, grad, ‡) Slocum
224A Research Probs (3 cr; prereq PE 136, EPsy 116 or ‡) Slocum
224B Research Probs (ar cr; prereq 224A or ‡) Slocum

Winter and Spring Quarters

25w,s See 25f: III or V MWF (s); IV or VII MWF (w)
59s See 59f
70w,s See 70f: III TTh (w,s); IV T (w,s); VI MWF (w,s); VII MWF (s only)
83w Methods, Materials of School Health Education (3 cr) III MWF
91Bs School Health Education, First Aid for NKP (3 cr; prereq NKP maj, 3rd qtr soph) II MWF
94w,s See 94f
114s Admin of School Health Education Program (3 cr; prereq sr, PEW 83, PubH 50 or ♯) 4:00-5:15 MW
117B Adv Instruction in School Health for Secondary Schools (3 cr; prereq PEW 83 or ♯) III-IV S, 1 hr ar
118Ew,s See 118Ef
124w Supervision of School Health, Physical Education (3 cr; prereq ♯) VI MWF
137w,s See 137f
224Aw See 224Af: 4:00-5:15 TTh
-224Bw,s See 224Bf

GENERAL COLLEGE (GC)

Fall Quarter

1A Individual Adjustment (4 cr)
III-IV TTh, Pt 215

2A Psychology in Modern Society (5 cr)
—1, I MTWThF, NH 211, Borow, lab ar
—2, II MTWThF, NH 211, Shapiro, lab ar
—3, V MTWThF, NH 211, Eichinger, lab ar
—4, VIII MTWThF, NH 211, Pettman, lab ar

2B Fields of Applied Psychology (5 cr; prereq 2A)
VII MTWThF, NH 211, Eichinger, lab ar

2C Psychology of Human Development (3 cr)
III MWF, NH 211, Latts

3A Home Life: Marriage, Family Living (5 cr)
—1, II MTWThF, CD 218, Anderson
—2, V MTWThF, CD 218, Anderson
—3, VII MTWThF, FolH 209

3D Selecting, Furnishing a Home (3 cr)
I MWF, JohH 122, Nagle

5A Functions, Probs of Philosophy (3 cr)
—1, II MWF, Arch 130, Kurak
—2, V MWF, A 116, Zanoni

5B Functions, Probs of Logic (3 cr)
—1, I MWF, A 116, Zanoni
—2, III MWF, A 116, Zanoni
—3, IV MWF, A 116, Pavlos
—4, VI MWF, A 116, Kurak
—5, VII MWF, A 116, Kroiss

5C Probs of Ethics (3 cr)
—1, II MWF, A 116, Pavlos
—2, VI MWF, WuH 230, Pavlos

5D Man's Religious Beliefs (3 cr)
V MWF, NH 213, Sheldon

6A Science in Context: Weather, Climate (5 cr)
I MTWThF, SciB 175, A Johnson, lab ar

7A Physics (5 cr)
—1, II MTWThF, Ph 133, Rassweiler
—2, VII MTWThF, Ph 170, Policoff

7B Astronomy (5 cr)
IV MTWThF, Ph 170, Policoff, lab ar

7C Chemistry (5 cr)
—1, II MTWThF, SciB 175, Schwabacher
—2, VI MTWThF, SciB 175, Ario

7D Geology (5 cr)
—1, III MTWThF, SciB 175, A Johnson, lab ar
—2, VII MTWThF, SciB 175, M Harris, lab ar

7F Historical Geology (5 cr; prereq 7D)
V MTWThF, SciB 175, M Harris, lab ar

8A Applied Mathematics (5 cr)
—1, I MTWThF, NH 207, Greenfield
—2, I MTWThF, Arch 30, Ekstrand
—3, III MTWThF, NH 207, Greenfield
—4, III MTWThF, Arch 30
—5, V MTWThF, NH 207, Lester
—6, V MTWThF, Arch 30, Ekstrand
—7, VII MTWThF, NH 207, Cook
—8, VII MTWThF, Arch 30

8B Applied Mathematics (5 cr; prereq 8A)
—1, II MTWThF, Arch 30
—2, VI MTWThF, Arch 30, Ario

9A Statistics (5 cr)
—1, II MTWThF, Arch 15, Cook
—2, IV MTWThF, Arch 30, Mandeville
—3, VI MTWThF, Arch 60, McCutcheon
—4, VIII MTWThF, Arch 15, Giese

9B Basic Concepts in Mathematics (5 cr)
—1, II MTWThF, NH 207, Chally
—2, IV MTWThF, NH 207, Denny
—3, VI MTWThF, NH 207, Denny
—4, VIII MTWThF, NH 207, Klippenstein

10A Prin of Biology (5 cr)
—1, II MTWThF, SciB 125, Dearden, lab ar
—2, IV MTWThF, SciB 125, Dearden, lab ar

10B The Human Body: Structure, Function, Health (5 cr)
—1, I MTWThF, SciB 125, Jefferson
—2, V MTWThF, SciB 125, Jefferson

11A Science in Context: Man, His Environment (5 cr)
III MTWThF, SciB 125, Owen

11B Utilization of Natural Resources: Science in Context (5 cr, §old 38B)
VI MTWThF, SciB 125, Owen

12A Lab Biology (1 cr; prereq 10A)
—1, I-II M, FolH 125, Liston
—2, IV-V M, FolH 125, Liston
—3, II-III T, FolH 125, Liston
—4, VI-VII T, FolH 125, Liston
—5, III-IV W, FolH 125, Liston
—6, V-VI W, FolH 125, Liston

15 Intro to Modern Business (5 cr, §19A, 65f, 66w, 66s)
—1, Lect II TTh, AE 209, Kroll
—2, Lect VII TTh, Arch 25, Kroll
—1, I MWF, NH 209A, Rian
—2, II MWF, NH 209A, Rian
—3, III MWF, NH 209A, Kroll
—4, IV MWF, NH 209A, Kroll
—5, V MWF, NH 209A, Rian
—6, VI MWF, NH 209A, Rian
—7, VII MWF, NH 209A, Ludlow
—8, VIII MWF, NH 209A, Ludlow

16 Accounting Fundamentals (5 cr, §16A or 16B; prereq 19A or ‡)
—1, I MTWThF, FolH 110, Ruth Larson
—2, IV MTWThF, FolH 110, Folz
—3, V MTWThF, FolH 110, Berger
—4, VI MTWThF, FolH 110, Donnelly

16A Accounting Fundamentals (3 cr, §16)
III MWF, WuH 130, Ruth Larson (for DA students only)

17 Consumer Probs (5 cr, §17A or 17B)
Lect II MWF, AE 209, Berger
—1, I TTh, NH 209A, Berger
—2, II TTh, NH 209A, Berger
—3, V TTh, NH 209A, Folz
—4, VII TTh, NH 209A, Folz

18A Retailing, Selling (5 cr; prereq ‡)
Lect II M, Arch 40, Crisp
—1, II-III TTh, Bu 105, Crisp
—2, II-III WF, Bu 105, Goodenough
—3, V-VI MW, Bu 105, Crisp

18D Salesmanship (3 cr)
—1, V MWF, Arch 140, Goodenough
—2, V MWF, Arch 20, Ludlow

19A Probs of Business Transactions (5 cr)
—1, II MTWThF, Arch 135, Roger Larson
—2, V MTWThF, Arch 135

20A Practical Law (5 cr)
—1, III MTWThF, ChE 50, Hower
—2, VIII MTWThF, ChE 50, Donnelly

20B Law in Society (5 cr)
—1, II MTWThF, AH 350, Hower
—2, V MTWThF, ChE 50, Geraghty
—3, VII MTWThF, C 111, Geraghty

21 Gen Arts (3 cr)
—1, II MWF, NH 111, Stokes
—2, III MWF, NH 111, Gates
—3, VI MWF, NH 111, MacInnes
—4, VIII MWF, NH 111, Gates

22A Art Today (3 cr)
IV MWF, NH 111, Safer

23A Art Lab (3 cr)
—1, I-II MW, NH 102, 1 hr ar, K Johnson
—2, III-IV WF, NH 102, 1 hr ar, K Johnson
—3, IV-V TTh, NH 102, 1 hr ar
—4, VI-VII MW, NH 102, 1 hr ar
—5, VI-VII TTh, NH 102, 1 hr ar, Logan

23B Commercial Art (3 cr)
II-III TTh, NH 102, MacInnes

24A Music Today: In Society (3 cr)
—1, I MWF, NH 111, Byrne
—2, VII MWF, NH 111, Stokes
—3, 12:45-2:00 TTh, NH 111, MacInnes

25A Music Lab: Materials of Music (3 cr; prereq ‡)
—1, V MWF, NH 111, Byrne
—2, 9:45-11:00 TTh, NH 111, Byrne

26A Photography (3 cr)
VI-VIII TTh, J 2, Wilcox

29A World Literature I (5 cr)
—1, I MTWThF, ME 110, Finnberg
—2, III MTWThF, NH 213, Burrows
—3, VIII MTWThF, NH 213, Sheldon

29B World Literature II (5 cr)
—1, II MTWThF, NH 213, Kivits
—2, VII MTWThF, NH 213, Rathburn

29C American Literature (3 cr)
IV MWF, NH 213, Wyvell

29D Contemporary Books, Periodicals (5 cr)
VI MTWThF, NH 213, Finnberg

29E Reading Short Stories (3 cr)
V MWF, Arch 130, Kivits

29G Literature of the Theater: Film, Drama (4 cr)
V-VI TTh, Ph 210, Burrows

30A Reading, Vocabulary Development (5 cr)
—1, Lect IV MWF, Arch 15, CCTV, Sartain
Lab III TTh, FolH 102
—2, Lect IV MWF, Arch 60, CCTV, Sartain
Lab IV TTh, FolH 102
—3, Lect IV MWF, AE 211, CCTV, Sartain
Lab V TTh, FolH 102
—4, Lect VIII MWF, Arch 45, CCTV, Sartain
Lab VI TTh, FolH 102
—5, VI MTWThF, NH 216, O'Neill
—6, Lect VIII MWF, Arch 60, CCTV, Sartain
Lab VII TTh, FolH 102

30B Fundamentals of Usage, Style (3 cr)
—1, I MTWTh, Arch 15, Keeler
—2, VI MTWTh, FolH 107, Keeler

31A Writing Lab: Personal Writing (3 cr)
—1, I-II M, I WF, FolH 102
—2, I-II M, I WF, NH 122
—3, I-II TTh, NH 122, Wyvell, (for DA students only)
—4, II-III WF, FolH 102, Gillespie
—5, II-III WF, NH 122, Rathburn
—6, II-III WF, NH 209, Kirchner
—7, III-IV M, III WF, NH 201
—8, III-IV M, IV WF, NH 122
—9, III-IV M, IV WF, FolH 102
—10, III-IV WF, NH 216
—11, IV-V M, V WF, NH 216
—12, IV-V WF, NH 201, Lindsey
—13, V-VI M, V WF, NH 209, Gillespie
—14, V-VI M, V WF, FolH 102
—15, V-VI M, VI WF, NH 201, Fry
—16, V-VI TTh, NH 209
—17, VI-VII WF, NH 209, Nielsen
—18, VI-VII WF, FolH 102
—19, VII-VIII M, VII WF, NH 216, Burrows
—20, VII-VIII TTh, NH 201
—21, VII-VIII TTh, NH 209, Fry
—22, VII-VIII TTh, NH 122
—23, VIII-IX TTh, FolH 102

31B Writing Lab: Organizing Ideas (3 cr; prereq 31A)
—1, I-II TTh, FolH 102
—2, I-II TTh, NH 201, Hardie (for DA students only)
—3, III-IV TTh, FolH 109, Nielsen
—4, V-VI TTh, NH 122
—5, V-VI TTh, NH 201, Kivits
—6, VII-VIII TTh, NH 216, Hoke

31C Writing Lab: Communicating in Society (3 cr; prereq 31B)
—1, I-II Th, FolH 109, Hoke
—2, II-III TTh, NH 216, Reisman
—3, III-IV TTh, NH 107, Keeler
—4, V-VI TTh, FolH 109, Hardie
—5, VII-VIII TTh, FolH 109, Elsenpeter

31D Writing Lab: Business Writing (3 cr; prereq 31A...31B rec)
III-IV TTh, NH 201, Sheldon

32A Oral Communication: Basic Prin (3 cr)
—1, I MWF, NH 107, Thiel
—2, II MWF, NH 107, Nelson
—3, III MWF, NH 107, Brookbank
—4, IV MWF, NH 107, Hagen
—5, V MWF, NH 107, Brookbank
—6, V MWF, NH 122, Theil
—7, VI MWF, NH 122, Hagen
—8, VI MWF, NH 107, Nelson
—9, VII MWF, NH 107, Thiel
—10, VII MWF, NH 201, Amram
—11, VIII MWF, NH 107, Brookbank

32B Oral Communication: Language, Speech Style (3 cr; prereq 32A)
V-VI TTh, NH 107, Hagen

33A Oral Communication: Radio, Television Today (3 cr)
I-II TTh, NH 107, Nelson

34 Creative Problem Solving (4 cr)
Lect V MTW, AE 209, Amram
—1, V Th, AE 209, Amram
—2, V F, AE 209, Amram

38A Geography (5 cr)
I MTWThF, NH 213, Steinhauser

39 Intro to Cultural Anthropology (3 cr)
—1, III MWF, Ph 133, Appleby
—2, VII MWF, AE 209, Appleby

40 Probs of Contemporary Society (5 cr)
II MTWThF, Ph 131, McCune

41A Man in Society: His Personal Role (5 cr)
—1, I MTWThF, JohH 113, F Johnson
—2, II MTWThF, JohH 113, Schafer
—3, III MTWThF, JohH 113, Kamerman
—4, IV MTWThF, JohH 114, Schafer
—5, V MTWThF, JohH 114, Kamerman
—6, V MTWThF, MurH 308, T Harris
—7, VI MTWThF, JohH 114, Lupton
—8, VIII MTWThF, JohH 113, Robins

41B Man in Society: His Organizational Role (5 cr; prereq 41A)
—1, III MTWThF, JohH 114, F Harris
—2, V MTWThF, JohH 113, Appleby

42A Economic Perspectives (5 cr)
—1, V MTWThF, ME 18, Cline
—2, VII MTWThF, ME 18, Cline

43A Background of Modern World (5 cr)
—1, VI MTWThF, C 225, Jones
—2, VIII MTWThF, JohH 122, Jones

43B Biography (3 cr)
—1, II MWF, Arch 45, Buckley
—2, VI MWF, Arch 15, Buckley

43C The Far East (5 cr)
VI MTWThF, AE 209, Garnham

44B Current History: Latin American Relations (3 cr)
III MWF, E 303, T Harris

45A Growth of American Democracy (5 cr)
IV MTWThF, Arch 25, Buckley

45B Impact of Science, Technology on American History (5 cr)
IV MTWThF, NH 211, McCune

45C Minnesota History (5 cr)
I MTWThF, ME 18, Moen

46A Functions of Govt (5 cr)
VII MTWThF, C 325, Madson

46D Probs of Intl Relations (5 cr)
III MTWThF, C 325, Lupton

Winter and Spring Quarters

1A See 1Af: II-III TTh

1B Vocational Planning (5 cr; prereq ‡ or cons couns) I MTWThF

2Aw,s See 2Af: I or III or VII MTWThF (w); I or VII MTWThF (s); lab ar (w,s)

2Bw,s See 2Bf: II or V MTWThF, lab ar

2Cw See 2Cf: VIII MWF

3Aw,s See 3Af: II or III or V or VII MTWThF (w); II or V or VII MTWThF (s)

3Bw Food Selection, Purchase (3 cr) V MWF

3Cs Clothing Selection, Purchase, Care (3 cr) VIII MWF

3Es Income Mgt; Individual, Household Buying (2 cr) II TTh

4w Leisure Today (3 cr) IV MWF

5Aw,s See 5Af: II or VII MWF (w); IV MWF (s)

5Bw,s See 5Bf: I or II MWF (w,s); IV or VI MWF (w); VII MWF (s); VIII MWF (w)

5Cw,s See 5Cf: III or VI MWF (w); II or V MWF (s)

5Dw,s See 5Df

6Aw,s See 6Af: I MTWThF (s); II MTWThF (w), lab ar

7Aw,s See 7Af: II or VI MTWThF (w); II or VII MTWThF (s)

7Bw,s See 7Bf: IV MTWThF (w,s), lab ar

7Cw,s See 7Cf: III or VII MTWThF (w); II or VI MTWThF (s)

7Dw,s See 7Df: I or VI MTWThF (w); III or VII MTWThF (s), lab ar

7Es Modern Physical Science (3 cr; prereq phys, chem, one in col) III MWF

7Fw,s See 7Ff: IV MTWThF (w); V MTWThF (s), lab ar

8Aw,s See 8Af: I or III or V or VII MTWThF (w); I or III or VII MTWThF (s)

8Bw,s See 8Bf: II or VI MTWThF (w); II or V or VI MTWThF (s)

9Aw,s See 9Af

9Bw,s See 9Bf

10Aw,s See 10Af: II or VI MTWThF (w); II or V MTWThF (s); lab ar (w,s)

10Bw,s See 10Bf: III or V MTWThF (w); III or VII MTWThF (s)

11Aw,s See 11Af: IV MTWThF (s); VII MTWThF (w)

11Bw,s See 11Bf: IV MTWThF (w); VI MTWThF (s)

12Aw,s See 12Af: I-II M (w,s); II-III T (w,s); III-IV W (w,s); I-II W (w,s); IV-V M (w,s); IV-V T (w,s); VI-VII W (w,s); VII-VIII T (w,s)

15w,s See 15f: Lect II TTh (w,s); VII TTh (w,s), rec I or II or III or V or VI MWF (w,s); VII MWF (w only)

16w,s See 16f

16Aw See 16Af: 8:15-9:30 TTh

17w,s See 17f: Lect II MWF (w,s); II or III or V or VII TTh (w,s)

18Bw-18Cs See 18Af: Lect I M (w,s); II-III TTh (w,s); VI-VII TTh (w,s)

18Dw,s See 18Df

19Aw,s See 19Af: I or V MTWThF (w); II or VI MTWThF (s)

19Bw,s Probs of Investment Transactions (3 cr; prereq 19A) III MWF

20Aw,s See 20Af: II or V or VIII MTWThF

20Bw,s See 20Bf: III or VII MTWThF

21w,s See 21f: II MWF (w,s); III MWF (w); V MWF (w,s); VII MWF (s); VIII MWF (s); 9:45-11:00 TTh (s)

22Bw‡ See 22Af

22Cs Creativity, Creative Personalities (3 cr) IV MWF

23Aw,s See 23Af: I-II MW, 1 hr ar (w,s); I-II TTh, 1 hr ar (w); III-IV WF, 1 hr ar (w,s); V-VI TTh, 1 hr ar (w); VI-VII MW, 1 hr ar (w,s); VI-VII TTh, 1 hr ar (s)

23Bw,s See 23Bf: II-III TTh (s); III-IV TTh (w); VII-VIII TTh (w)

24Bw Music Today: Vocal, Its Texts (3 cr) I MWF; VI MWF; 12:45-2:00 TTh

24Cs Music Today: Twentieth Century (3 cr) III MWF; VIII MWF; 11:15-12:30 TTh

25Aw,s See 25Af: VI MWF (s); VII MWF (w); 9:45-11:00 TTh (w); 12:45-2:00 TTh (s)

26Aw,s See 26Af

28Aw French Language, Civilization (5 cr) Lect II Th, Rec II or VII MWF

28Bs French Language, Civilization (5 cr; prereq 28A or ‡) VI MTWThF
29Aw,s See 29Af: I or III or VIII MTWThF (w); II or VII MTWThF (s)
29Bw,s See 29Bf: II or VI MTWThF (w); III or VIII MTWThF (s)
29Cs See 29Cf: IV MWF
29Dw See 29Df: IV MTWThF
29Ew See 29Ef
29Fs Reading Poetry (3 cr) VI MWF
29Gw See 29Gf
29Iw Reading Novels (3 cr) VII MWF
30Aw See 30Af: lab III TTh, MWF-CCTV; lab VI TTh, MWF-CCTV; VI MTWThF
30As See 30Af: lab III TTh, MWF-CCTV; lab VI TTh, MWF-CCTV
30Bw,s See 30Bf: VI MTWTh
31Aw See 31Af: I WF, I-II M; II WF, II-III M; II-III TTh; II-III WF; III WF, III-IV M; III-IV M, IV WF; IV-V M; V WF; IV-V WF; V-VI M, V WF; VII-VIII TTh
31As See 31Af: II WF, II-III M; II-III TTh; III-IV M, III WF; III-IV M, IV WF; III-IV WF; V WF, V-VI M; V-VI M, VI WF; VI-VII WF; VII-VIII TTh
31Bw See 31Bf: I WF, I-II M (DA's only); I-II TTh; III-IV TTh; IV-V TTh; V-VI M, V WF; V-VI TTh; VI-VII WF; VII-VIII TTh
31Bs See 31Bf: I-II TTh; III-IV TTh; IV-V TTh; V-VI M, V WF; V-VI TTh; VI-VII WF; VII-VIII TTh
31Cw See 31Cf: III-IV TTh; IV-V TTh; VI-VII WF; VII-VIII TTh
31Cs See 31Cf: I WF, I-II M; II-III WF; III-IV M, IV WF; III-IV TTh; IV-V TTh; V-VI TTh; VI-VIII TTh; VI-VII WF; VII-VIII TTh
31Dw See 31Df: I-II TTh (DA's only); III-IV WF
31Ds See 31Df: I-II TTh (DA's only); V-VI TTh
31Ew,s Writing Lab: Individual Writing (3 cr; prereq 31A, ‡) I-II TTh (s); IV-V WF (s); III-IV TTh (w)
31Fs Writing Lab: Research Writing (3 cr; prereq 31B I-II TTh; VI-VII WF
32Aw See 32Af: I or III or V MWF; VI MWF (DA's only); VI or VII or VIII MWF
32As See 32Af: III MWF (DA's only); V or VI or VIII MWF
32Bw,s See 32Bf: II or VI MWF (w); II or VII MWF (s)
32Cw,s Oral Communication: Speech Organization (3 cr; prereq 32A) III-IV TTh (w); VII MWF (s)
32Dw,s Oral Communication: Group Discussion (3 cr; prereq 32A) I-II TTh (w); III-IV TTh (s)
33As See 33Af: IV MWF
33Bw,s Oral Communication: Creative Speech Activities (3 cr; prereq 32A, ‡) V-VI TTh
34w,s Creative Problem Solving (4 cr) Lect V MTW (w); III MTW (s); rec III ThF (s); V ThF (w)
38Aw,s See 38Af
39w,s See 39f: IV or VI MWF
40w,s See 40f
41Aw,s See 41Af: I or II or III MTWThF (w,s); IV MTWThF (s); V MTWThF (w,s); VI MTWThF (w); VII MTWThF (s); VIII MTWThF (w)
41Bw,s See 41Bf: II or III or VI MTWThF
42Aw,s See 42Af
43Aw,s See 43Af
43Bw,s See 43Bf: IV or VI MWF (w); IV or VI MWF
43Cw,s See 43Cf: V MTWThF
44Bw,s See 44Bf
45Aw,s See 45Af: II MTWThF
45Bw,s See 45Bf
45Cw,s See 45Cf
46Aw,s See 46Af: III or VI MTWThF (w); V or VII MTWThF (s)
46Dw,s See 46Df

LAW SCHOOL (Law)

Fall Quarter

101 Contracts (3 cr)
—1, III WThF, FraH B-1, Bryden
—2, III WThF, FraH 101, Kinyon
—3, III WThF, FraH 120, Hamilton
102 Criminal Law, Procedure (3 cr)
I MTW, FraH 102, Livermore
103 Legal Process (4 cr)
—1, VII MTWTh, FraH 101, Auerbach
—2, VII MTWTh, FraH 102, Wolfram
—3, VII MTWTh, FraH B-1, Cound
106 Legal Research (3 cr)
4:30-5:30 TTh, 7:30-8:30 pm MW, SciB 125, CCTV, Greene

107 Property I (3 cr)
—1, II ThF, VI T, FraH 101, Stein
—2, I ThF, V M, FraH 102, Smith
—3, IV ThF, V T, FraH 120, Smith
108 Torts (3 cr)
—1, IV MTW, FraH 102, Livermore
—2, IV MTW, FraH 120, Morris
—3, IV MTW, FraH B-1, Dobbs
109 Intro to Procedure (3 cr)
—1, I MTW, FraH 20, Cound
—2, VIII WThF, FraH 102, Hetland
—3, I MTW, FraH 120, Wolfram
117 Seminar: Mineral Law (3 cr)
VIII-IX M, FraH 227, Smith
120 Commercial Paper, Payment (4 cr)
—1, V MTWTh, FraH 20, Kinyon
—2, VI MTWTh, FraH 20, Greene
121 Appellate Advocacy (3 cr) Adamson
122 Intro to Business Associations (3 cr)
VIII WThF, FraH 101, Morris
123 Private Corporations (5 cr)
VI MTW, FraH 120, Hamilton
125 Remedies (4 cr)
I ThF, II MT, FraH 20, Dobbs
127 Trusts, Estates (5 cr)
—1, III MTWThF, FraH 102, Hogg
—2, IV MTWThF, FraH 101, Stein
128 Taxation I (4 cr)
VII MTWTh, FraH 120, Scallen
130 Law Review (3 cr)
135 Social Legislation Seminar (3 cr)
IX TTh, FraH 237, Levy, Lewis
136 Water Resources Seminar (3 cr)
IX Th, FraH 223, Graven
137 Land Use Planning (3 cr)
I MTW, FraH B-1, Hagman
138 State, Local Tax Seminar (3 cr)
IX M, FraH 223, Hagman
141 Secured Transactions (3 cr; prereq 126)
VI MTW, FraH 102, McClure
144 Seminar: Criminal Law (3 cr)
IX F, FraH 237, Pirsig
145 Estate Planning (4 cr)
V MTWTh, FraH 101, Waterbury
146 Seminar: Estate Planning, Drafting (3 cr; prereq 127, 128, 145)
IX F, FraH B-1, Waterbury, Hogg
152 Judicial Admin (3 cr)
VII WThF, FraH 20, Pirsig
155 Law of Labor Relations I (4 cr)
III MTWTh, FraH 20, Lewis
157 Standards of Legal Profession (2 cr)
I ThF, FraH 120, Pirsig
158 Legislation (3 cr)
VIII MTW, FraH 20, McClure
163 Practice (3 cr)
—1, II MTW, FraH 101, Graven
—2, II MTW, FraH 102, Hetland
171 Seminar: Civil Rights (3 cr; prereq 110)
IX T, FraH 223, Auerbach
186 Family Law (4 cr)
IV MTWTh, FraH 20, Levy
191 Seminar: Law, Agricultural Marketing (3 cr; prereq law or grad)
VII-VIII F, FraH 223, McClure
192 Seminar: Divorce Counseling (3 cr)
IX M, FraH 225, 226, Levy

COLLEGE OF LIBERAL ARTS

AMERICAN STUDIES (AmSt)

Fall Quarter

90 Proseminar (3 cr; prereq sr, ‡)
VIII-IX W, VH 210, Griffin
200 Introduction (3 cr; prereq MA degree cand)
—1, VIII-IX T, VH 6, Turpie
—2, VIII-IX W, VH 6, Turpie
210 Seminar: Intro to American Studies (3 cr; prereq PhD cand)
VIII-IX Th, VH 125, Turpie
211 Seminar (3 cr; prereq PhD cand)
VIII-IX W, VH 125, Noble
240 Materials for Study of American Civilization (3 cr; prereq adv degree cand or ‡)
VIII-IX M, VH 6, Turpie

Winter and Spring Quarters

-91w-92s See 90f
-201w-202s See 200f
-212w-213s See 211f
-241w-242s See 240f

ANTHROPOLOGY (Anth)

Fall Quarter

1A Intro to Prehistoric Man, Culture (5 cr)
—1, Lect II MTWF, NH 45, CCTV, Johnson
—2, Lect VI MTWF, NH 45, CCTV, Johnson

—3, Lect IX MWThF, NH 45, CCTV, Johnson
—4, Lect II MTWF, GorC 12, CCTV (StP Campus) Johnson
—1, II T, AE 215
—2, II T, AE 225
—3, II T, ME 106
—4, II T, MurH 311
—5, III T, ForH 55
—6, III T, ForH 115
—7, III T, ForH 155
—8, III T, Arch 40
—9, IV T, ForH 30
—10, IV T, ForH 55
—11, IV T, ForH 155
—12, IV T, ForH 285
—13, VI T, ForH 55
—14, VI T, Arch 45
—15, VI T, ME 321
—16, VI T, MurH 308
—17, VII T, ForH 55
—18, VII T, ForH 155
—19, VII T, ForH 349
—20, VII T, AE 225
—21, VIII T, ForH 30
—22, VIII T, ForH 55
—23, VIII T, ForH 349
—24, VIII T, ForH 155
—25, III Th, ForH 115
—26, III Th, ForH 155
—27, III Th, ME 214
—28, III Th, C 111
—29, IV Th, ForH 30
—30, IV Th, ForH 55
—31, IV Th, ForH 155
—32, IV Th, ForH 285
—33, VI Th, ForH 55
—34, VI Th, ForH 285
—35, VI Th, Arch 45
—36, VI Th, MurH 308
—37, VII Th, ForH 55
—38, VII Th, ForH 285
—39, VII Th, ForH 349
—40, VII Th, C 115

85 **Language, Culture** (3 cr, §old 185; prereq 2A or 100 or △)
VIII MWF, ForH 155, Sarles

100 **Prin of Cultural Anthropology** (3 cr, §2A)
VIII MWF, Ph 133, Gerlach

117 **Indians of South America** (3 cr; prereq 2A or 100)
2:15-3:30 TTh, CB(W) 155, Salovesh

125 **Peoples, Cultures of India** (3 cr; prereq 2A or 100 or △)
IV MWF, FraH B25, Spencer

127 Islamic Culture Sphere (3 cr; prereq 2A or 100 or △)
V MWF, CB 125, Gerlach

130 Method, Theory of American Archaeology (3 cr; prereq 90)
11:15-12:30 TTh, ForH 15, Adams

136 Paleolithic, Mesolithic Archaeology of Old World (3 cr; prereq 90)
VI MWF, ForH 15, Johnson

150 **Cultural Change, Development** (3 cr; prereq 2A or 100)
III MWF, ForH 155, Miller

160 Anthropology of Law (3 cr; prereq 2A or 100 or none for other soc sci maj)
11:15-12:30 TTh, Bo B6, Hoebel

165 **Culture, Personality** (3 cr; prereq sr, 2A or 100 or △ or none for PubH, nurs, psy, soc, social work maj)
II MWF, ForH 55, Pelto

170 Primate, Human Evolution (3 cr; prereq 1A or 101)
9:45-11:00 TTh, ForH 20, Krantz

172 Basic Prins of Blood Genetics (3 cr, §LMed 172; prereq 1A, 101 or △)
Lect I MF, Mayo C295, Yunis
Lab I-II W, Mayo B279

177 Physical Anthropology (4 cr; prereq 1A or 101)
VI-VIII TTh, ForH 20, Krantz

186 Dynamics of Human Communication (3 cr; prereq 181)
VI MWF, ForH 150, Sarles

190 Directed Research (ar cr; prereq △)

191 Directed Research (ar cr; prereq △)

192 Directed Research (ar cr; prereq △)

202 Proseminar: Research Methods (3 cr)
VII-VIII W, ForH 15, Pelto

204 Seminar: Anthropology (3 cr)
VII-VIII M, ForH 15, Spencer

220 Seminar: Ethnology (3 cr)
VII-VIII F, ForH 15, Miller

230 Seminar: Archaeology (3 cr)
VII-VIII T, ForH 15, Adams

270 Seminar: Physical Anthropology (3 cr)
VII-VIII W, ForH 20, Novak

Winter and Spring Quarters

1As See 1Af: Lect I or II or III or IV or VI or VII or IX Th; II or VI MTWF

2Aw Intro to Cultural Anthropology (5 cr) Lect II or III or IV or VI or VII or VIII T; III or IV or VI or VII Th

2As Intro to Cultural Anthropology (5 cr) Lect I or II or III or IV or VI or VII or VIII or IX T

42s Intro to World Ethnography (4 cr; prereq 2A) 2:15-3:30 TTh

68s Religion, Culture (3 cr; prereq 2A or 100) II MWF

80w Indians of North America (3 cr; prereq 2A or 100) IV MWF

90w Archaeology of North America (3 cr; prereq 1A) 9:45-11:00 TTh
100w,s See 100f: VII MWF (w); 11:15-12:30 TTh
101w,s Prin of Bio-cultural Evolution (3 cr, §1A) III MWF
119s Peoples, Cultures of Middle America (3 cr; prereq 2A or 100 or none for Lat Am Area St maj) VII MWF
120w Peoples, Cultures of Africa (3 cr; prereq 2A or 100) 2:15-3:30 TTh
121w Peoples, Cultures of the South Seas (3 cr; prereq 2A or 100) V MWF
124w Culture, Society in China, Japan (3 cr; prereq 2A or 100 or △) VI MWF
126w Peoples, Cultures of Southeast Asia, Indonesia (3 cr; prereq 2A or 100 or △)
134s Archaeology of Middle America (3 cr; prereq 90) II MWF
135s Archaeology of South America (3 cr; prereq 90) IV MWF
137w Old World Prehistory: Europe, Near East, Africa (3 cr; prereq 90) 12:45-2:00 TTh
138s Old World Prehistory: East, South Asia (3 cr; prereq 90) III MWF
151w Applied Anthropology (3 cr; prereq sr, 150 or △) III MWF
161s Anthropology of Religion (3 cr; prereq 2A or 100) IV MWF
162w Comparative Technology (3 cr; prereq 2A or 100) 9:45-11:00 TTh
163w Economic Anthropology (3 cr; prereq 2A or 100 or none for econ or bus admin maj) II MWF
164w Social Anthropology (3 cr; prereq 2A or 100) III MWF
165w See 165f: 12:45-2:00 TTh
169s Comprehensive Survey (3 cr; prereq sr, △) 9:45-11:00 TTh
171s Human Races (3 cr; prereq 170 or △) 11:15-12:30 TTh
173w Human Biology (3 cr; prereq 1A or 101) V MWF
175s Human Physical Growth, Development (3 cr; prereq 1A, 101 or none for child psy maj) III MWF
-178w See 177f: VI-VIII TTh
180w-181s Descriptive Linguistics (3 cr, ‡180-181; prereq △) 9:45-11:00 TTh
190w,s Directed Research (ar cr; prereq △)
191w,s Directed Research (ar cr; prereq △)
192w,s Directed Research (ar cr; prereq △)
200w-201s Anthropology, Scientific Method (3 cr) VII-VIII W (w,s)
-205s See 204f: VII-VIII Th
-206s See 204f: VII-VIII T
-221w-222s‡ See 220f: VII-VIII T (w); VII-VIII M
-231w-232s‡ See 230f: VII-VIII F (w,s)
251w Seminar: Culture, Personality (3 cr) VII-VIII M
-272s See 270f: VII-VIII Th

ART

Art History (ArtH)

Fall Quarter

1 **Principles** (5 cr, §50)
III MWF, NH 45, 2 hrs ar, Torbert
2 **Survey of History of Art** (3 cr, §56)
VI MWF, MNH Aud, McNally
47 **Intro to Far Eastern Art** (3 cr)
VI MWF, Arch 25, Poor
50 **Visual Arts** (3 cr, §1)
III MWF, Arch 25, Simon
100 **Early Greek Art** (3 cr)
II MWF, J 207A, McNally
106 **Italian Art of 14th Century** (3 cr)
II MWF, J 207B, Canedy
111 **Art of China** (3 cr; prereq sr, grad or △)
III MWF, J 207A, Poor
113 **High Renaissance Painting in Italy, Northern Europe** (3 cr)
V MWF, J 207B, Canedy
126 **18th Century Art in Italy** (3 cr; prereq sr, grad or △)
III MWF, J 207B, Thomas
130 **Master Drawings** (3 cr; prereq sr, grad or △)
VII MWF, J 207B, Thomas
136 **Art in United States** (3 cr; prereq sr, grad or ‡)
VI MWF, J 207B, Torbert
140 **Scandinavian Architecture** (3 cr; prereq sr, grad or △)
I MWF, J 207A, Nelson
146 **Modern American, European Architecture** (3 cr; prereq sr, grad or ‡)
I MWF, J 207B, Tselos
176 **20th Century Painting** (3 cr)
V MWF, J 207A, Simon
199 Methodology (3 cr; prereq maj, jr, sr, grad, ‡)
VI MWF, J 207A, Sheppard
246 20th Century Art (3 cr; prereq ‡) Tselos

Winter and Spring Quarters

1w,s See 1f
3w See 2f: VI MWF
-4w-5s See 2f: V MWF (w); VI MWF (s)

50s See 50f: III MWF
101w Later Greek Art (3 cr) II MWF
105s Medieval Art (3cr) VII MWF
107w Early 15th Century Art in Italy, Northern Europe (3 cr) II MWF
108s Late 15th Century in Italy, Northern Europe (3 cr) II MWF
110s Art of India (3 cr; prereq sr, grad or △) III MWF
112w Art of Japan (3 cr; prereq sr, grad or △) III MWF
114w 16th Century Sculpture, Architecture (3 cr) V MWF
115s Later 16th Century Painting (3 cr) V MWF
127w 18th Century Art in France (3 cr; prereq sr, grad or △) III MWF
128s 18th Century Art in England, Germany (3 cr; prereq sr, grad or △) III MWF
-137w-138s See 136f: VI MWF (w,s)
141w Scandinavian Painting (3 cr; prereq sr, grad or △) I MWF
142s Scandinavian Sculpture, Minor Arts (3 cr; prereq sr, grad or ♯) I MWF
-147w-148s‡ See 146f: I MWF (w,s)
156w 19th Century French Painting 1800-1860 (3 cr; prereq sr, grad or ♯) IV MWF
159w English Painting from 1750-1850 (3 cr; prereq sr, grad or ♯) VII MWF
161s Intro to Roman Archaeology (3 cr, §Clas 123) II MWF
166s Chinese Painting (3 cr; prereq 3 cr art hist or ♯) VI MWF
167w Japanese Painting (3 cr; prereq 3 cr art hist or ♯) IV MWF
168s Modern Sculpture from Rodin to Roszak: 1875-1960 (3 cr; prereq 3 cr art hist) IV MWF
171w Greek Painting (3 cr; prereq 3 cr art hist) VI MWF
-177w-178s See 176f
236s Nineteenth Century Art (3 cr; prereq ♯)
276s Probs in Classical Art (3 cr; prereq ♯)
286w Seminar: Oriental Art (3 cr; prereq ♯)

Studio Art (Art)

Fall Quarter

10 **Photography** (3 cr)
—1, I-II MWF, J 2, Lang
—2, III-IV MWF, J 2, Lang
—3, VI-VII MWF, J 2, Dean
—4, I-II TThS, J 2, Wilcox

11 **Photography** (3 cr; prereq 10 or prac exper, △)
III-IV TThS, J 2, Wilcox

20 **Basic Drawing** (3 cr; prereq 1 or ¶)
—1, I-II MWF, E 417A, Routon
—2, VII-IX TThS, ArtB 140, Johnson
—3, III-IV TThS, ArtB 160, Howard
—4, I-II MWF, E 417, Volpe
—5, III-IV MWF, ArtB 140, Routon
—6, V-VII MWF, ArtB 140, Routon
—7, VI-VIII TTh, ArtB 150, Priede
—8, I-II TThS, ArtB 150, Chaffey
—9, III-IV TThS, ArtB 150
—10, VI-VIII TTh, ArtB 160

23 **Drawing, Painting** (3 cr; prereq 20)
I-II MWF, ArtB 150, Rowan

23A **Drawing, Painting for Architects I** (2 cr)
—1, I-III TTh, E 417, Burg
—2, IV-VI TTh, E 417, Burg
—3, I-III TTh, E 417A, Johnson
—4, IV-VI TTh, E 417A, Johnson
—5, 6:00-9:00 TTh, Clay 25

25 **Drawing, Color** (3 cr; prereq 23)
—1, I-II MWF, ArtB 160, Rowan
—2, I-II TThS, ArtB 160, Howard
—3, III-IV MWF, ArtB 160, Volpe

32 **Elements of Printmaking** (3 cr)
—1, I-II TThS, ArtB 170, Bethke
—2, III-IV TThS, ArtB 170, Bethke

33 **Printmaking** (3 cr; prereq 32)
—1, I-II TThS, ArtB 170, Bethke
—2, III-IV TThS, ArtB 170, Bethke

40 **Basic Sculpture I** (3 cr; prereq 1 or ¶41)
—1, I-II MWF, HolB 154, Nash
—2, III-IV TThS, HolB 154, Sauls
—3, III-IV MWF, HolB 153, House
—4, VI-VII MWF, HolB 153, House

41 **Basic Sculpture II** (3 cr; prereq 40)
—1, III-IV MWF, HolB 154, Nash
—2, I-II TThS, HolB 154, Sauls

42 **Clay, Plaster Modeling From Life** (3 cr; prereq 41)
I-II MWF, HolB 153, House

45 **Ceramic Processes** (3 cr)
—1, I-II MWF, HolB 134, MacKenzie
—2, III-IV MWF, HolB 134, MacKenzie
—3, I-II TThS, HolB 134
—4, III-IV TThS, HolB 134
—5, VI-VIII TTh, HolB 134

51 **Drawing** (3 cr; prereq 23)
—1, I-II MWF, ArtB 140, Busa
—2, I-II TThS, ArtB 140, Quirt
—3, III-IV TThS, ArtB 140, Chaffey
—4, III-IV MWF, ArtB 150, Rowan

54 **Drawing** (3 cr; prereq 51)
—1, I-II MWF, ArtB 140, Busa
—2, I-II TThS, ArtB 140, Quirt
—3, III-IV TThS, ArtB 140, Chaffey
—4, III-IV MWF, ArtB 150, Rowan

55 Drawing (3 cr; prereq 54)
—1, I-II MWF, ArtB 140, Busa
—2, I-II TThS, ArtB 140, Quirt
—3, III-IV TThS, ArtB 140, Chaffey
—4, III-IV MWF, ArtB 150, Rowan

60A Drawing, Painting for Architects II (2 cr; prereq 25A)
—1, VII-IX MW, E 417, Volpe
—2, VII-IX TTh, E 417A, Howard
—3, 6:00-9:00 TTh, ArtB 140, Burg

70 Oil Painting (3 cr; prereq 55 or △)
—1, IV-VI MW, ArtB 161, Busa
—2, III-V TTh, ArtB 161, Quirt

71 Oil Painting (3 cr; prereq 70)
—1, IV-VI MW, ArtB 161, Busa
—2, III-V TTh, ArtB 161, Quirt

72 Oil Painting (3 cr; prereq 71)
—1, IV-VI MW, ArtB 161, Busa
—2, III-V TTh, ArtB 161, Quirt

80A Direct Metal Sculpture, Construction (3 cr; prereq 41)
VI-VII MWF, HolB 154, Nash

80B Direct Carving in Stone, Wood (3 cr; prereq 42)
VI-VII MWF, HolB 154, Nash

80C Metal Casting of Sculpture (3 cr; prereq 42)
VI-VIII TTh, HolB 154, Sauls

81A Direct Metal Probs of Sculptural Expression, Organization in Relation to Architecture (3 cr; prereq 80A-B-C)
VI-VII MWF, HolB 154, Nash

81B Carving, Modeling, Assemblage of Sculpture Relating to Civic, Private Monuments, Buildings (3 cr; prereq 80A-B-C)
VI-VII MWF, HolB 154, Nash

81C Probs Concerned with Cast Metal Sculpture for Landscape Architecture (3 cr; prereq 80A-B-C)
VI-VIII TTh, HolB 154, Sauls

82A Experimental Work in Direct Metal (3 cr; prereq 81A)
VI-VII MWF, HolB 154, Nash

82B Experimental Work in Carving, Modeling, Assemblage (3 cr; prereq 81B)
VI-VII MWF, HolB 154, Nash

82C Experimental Work in Cast Metals (3 cr; prereq 81C)
VI-VIII TTh, HolB 154, Sauls

83 Photography II (3 cr; prereq 11 or Jour 6 or △)
III-IV MWF, J 2, Dean

90 Printmaking, Intaglio Processes (3 cr; prereq 32 or ‡)
VI-VIII TTh, ArtB 170, Bethke

91 Printmaking, Intaglio Processes (3 cr; prereq 90)
VI-VIII TTh, ArtB 170, Bethke

92 Printmaking, Intaglio Processes (3 cr; prereq 91)
VI-VIII TTh, ArtB 170, Bethke

93 Ceramic Design (3 cr; prereq 45 or ‡)
VI-VII MWF, HolB 134, MacKenzie

94 Ceramic Design (3 cr; prereq 93 or △)
VI-VII MWF, HolB 134, MacKenzie

95 Ceramic Design (3 cr; prereq 94)
VI-VII MWF, HolB 134, MacKenzie

120 Adv Drawing (3 cr; prereq 55, ¶70)
VI-VIII MW, ArtB 150, Rowan

121 Adv Drawing (3 cr; prereq 120, ¶71)
VI-VIII MW, ArtB 150, Rowan

122 Adv Drawing (3 cr; prereq 121, ¶72)
VI-VIII MW, ArtB 150, Rowan

123 Film Workshop (3 cr; prereq art or hum or mus or theat maj, △)
VI-VII MWF, J 4, Downs

124 Film Workshop (3 cr; prereq 123)
VI-VII MWF, J 4, Downs

125 Film Workshop (3 cr; prereq 124)
VI-VII MWF, J 4, Downs

133 Lithography (3 cr; prereq 32 or ‡)
—1, I-II TThS, J 11, Priede
—2, III-IV TThS, J 11, Priede

134 Lithography (3 cr; prereq 133)
—1, I-II TThS, ArtB 175, Priede
—2, III-IV TThS, ArtB 175, Priede

135 Lithography (3 cr; prereq 134)
—1, I-II TThS, ArtB 175, Priede
—2, III-IV TThS, ArtB 175, Priede

150 Probs: Painting (3 cr; prereq 72, △)
VI-VIII TTh, ArtB 161, Chaffey

151 Probs: Painting (3 cr ;prereq 150
VI-VIII TTh, ArtB 161, Chaffey

152 Probs: Painting (3 cr; prereq 151)
VI-VIII TTh, ArtB 6, Chaffey

180A Sculpture IV (3 cr; prereq 9 cr above 81)
VI-VII MWF, HolB 154, Nash

180B Sculpture IV (3 cr; prereq 180A)
VI-VII MWF, HolB 154, Nash

180C Sculpture IV (3 cr; prereq 180B)
VI-VIII TTh, HolB 154, Sauls

181A Sculpture IV (3 cr; prereq 180A-B-C)
VI-VII MWF, HolB 154, Nash

181B Sculpture IV (3 cr; prereq 180B)
VI-VII MWF, HolB 154, Nash

181C Sculpture IV (3 cr; prereq 180C)
VI-VII MWF, HolB 154, Sauls

182A Sculpture IV (3 cr; prereq 181A)
VI-VII MWF, HolB 154, Nash

182B Sculpture IV (3 cr; prereq 181B)
VI-VII MWF, HolB 154, Nash

182C Sculpture IV (3 cr; prereq 181C)
VI-VII MWF, HolB 154, Sauls

190 Adv Printmaking: Intaglio Processes (3 cr; prereq 90 or ‡)
VI-VIII TTh, ArtB 170, Bethke

191 **Adv Printmaking: Intaglio Processes** (3 cr; prereq 190)
VI-VIII TTh, ArtB 170, Bethke

192 **Adv Printmaking: Intaglio Processes** (3 cr; prereq 191)
VI-VIII TTh, ArtB 170, Bethke

193 **Adv Probs in Studio** (3 cr; prereq ‡)
Ar

194 **Adv Probs in Studio** (3 cr; prereq 193)
Ar

195 **Adv Probs in Studio** (3 cr; prereq 194)
Ar

200 **Adv Probs: Painting** (3 cr; prereq ‡)
VI-VIII TTh, ArtB 151, Quirt

201 **Adv Probs: Painting** (3 cr; prereq ‡)
VI-VIII TTh, ArtB 151, Quirt

202 **Adv Probs: Painting** (3 cr; prereq ‡)
VI-VIII TTh, ArtB 151, Quirt

203 **Adv Probs: Painting** (3 cr; prereq ‡)
VI-VIII TTh, ArtB 151

204 **Adv Probs: Painting** (3 cr; prereq 203)
VI-VIII TTh, ArtB 151, Quirt

205 **Adv Probs: Painting** (3 cr; prereq 204)
VI-VIII TTh, ArtB 151, Quirt

210A Adv Probs: Sculpture (3 cr; prereq ‡) Nash

210B Adv Probs: Sculpture (3 cr; prereq 210A) Nash

210C Adv Probs: Sculpture (3 cr; prereq 210B) Nash

211A Adv Probs: Sculpture (3 cr; prereq 210A, 210B, 210C) Nash

211B Adv Probs: Sculpture (3 cr; prereq 211A) Nash

211C Adv Probs: Sculpture (3 cr; prereq 211B) Nash

212A Adv Probs: Sculpture (3 cr; prereq 211A) Nash

212B Adv Probs: Sculpture (3 cr; prereq 211B) Nash

212C Adv Probs: Sculpture (3 cr; prereq 212C) Nash

220 Adv Probs: Printmaking (3 cr; prereq ‡) Myers

221 Adv Probs: Printmaking (3 cr; prereq 220) Myers

222 Adv Probs: Printmaking (3 cr; prereq 221) Myers

231 Adv Probs: Drawing (3 cr; prereq ‡)
VI-VIII MW, ArtB 160, Busa

232 Adv Probs: Drawing (3 cr; prereq 231)
VI-VIII MW, ArtB 160, Busa

233 Adv Probs: Drawing (3 cr; prereq 232)
VI-VIII MW, ArtB 160, Busa

240 Adv Probs: Ceramics (3 cr; prereq ‡) MacKenzie

241 Adv Probs: Ceramics (3 cr; prereq 240) MacKenzie

242 Adv Probs: Ceramics (3 cr; prereq 241) MacKenzie

260F Film (3 cr; prereq 125, ‡)
I-II MWF, J 4, Dean

260P Photography (3 cr; prereq 125, ‡)
I-II MWF, J 4, Dean

261F Film (3 cr; prereq 260)
I-II MWF, J 4, Dean

261P Photography (3 cr; prereq 260P)
I-II MWF, J 4, Dean

262F Film (3 cr; prereq 261)
I-II MWF, J 4, Dean

262P Photography (3 cr; prereq 261P)
I-II MWF, J 4, Dean

Winter and Spring Quarters

10w,s See 10f

11w,s See 11f

20w,s See 20f: I-II MWF or TThS (w); I-II MWF (s); III-IV MWF or TThS (w,s); VI-VII MWF (w); VI-VIII TTh (w,s); VII-IX TTh (w,s)

23w,s See 23f: I-II MWF or TThS (w,s); III-IV TThS (w); VI-VII MWF (s); VI-VIII TTh (w,s)

-24Aw-25As See 23Af: I-III TTh (w,s); IV-VI TTh (w,s); 6:00-9:00 TTh (w,s)

32w,s See 32f: I-II TThS; III-IV TThS

33w,s See 33f: I-II TThS; III-IV TThS

40w,s See 40f

41w,s See 41f

42w,s See 42f

45w,s See 45f: I-II MWF; I-II TThS; III-IV MWF; III-IV TThS; IV-VIII TTh

51w,s See 51f

54w,s See 54f

55w,s See 55f

60Bw,s See 60Bf

-61Aw-62As See 60Af

61Bw,s See 60Bf

62Bw,s See 62Bf

70w,s See 70f: I-II TThS (s); III-IV MWF (w,s); III-IV TThS (w only); VI-VII MWF (s only)

-71w,s See 70f: I-II TThS (s); III-IV MWF (w,s); III-IV TThS (w); VI-VII MWF (s)

-72w,s See 70f: I-II TThS (s); III-IV MWF (w,s); III-IV TThS (w); VI-VII MWF (s)

80Aw,s-81Aw,s-82Aw,s See 80Af-81Af-82Af

80Bw,s-81Bw,s-82Bw,s See 80Bf-81Bf-82Bf

80Cw,s-81Cw,s-82Cw,s See 80Cf-81Cf-82Cf

-84w-85s See 83f

90w,s-91w,s-92w,s Printmaking, Intaglio Processes (3 cr; prereq 32 or ‡) VI-VIII TTh

93w,s-94w,s-95w,s See 93f: III-IV MWF

120w,s-121w,s-122w,s See 120f: VI-VIII TTh (w); VI-VIII MW (s)
123w,s-124w,s-125w,s See 123f
133w,s-134w,s-135w,s See 133f
150w,s-151w,s-152w,s See 150f
180Aw,s-181Aw,s-182Aw,s See 180Af-181Af-182Af
180Bw,s-181Bw,s-182Bw,s See 180Bf-181Bf-182Bf
180Cw,s-181Cw,s-182Cw,s See 180Cf-181Cf-182Cf
190w,s-191w,s-192w,s See 190f-191f-192f
193w,s-194w,s-195w,s See 193f: I-II MWF or VI-VII MWF (w,s)
200w,s-201w,s-202w,s See 200f: VI-VIII MW (w); VI-VIII TTh (s)
203w,s-204w,s-205w,s See 203f: VI-VIII MW (w); VI-VIII TTh (s)
210Aw,s-211Aw,s-212Aw,s See 210Af
210Bw,s-211Bw,s-212Bw,s See 210Bf
210Cw,s-211Cw,s-212Cw,s See 210Cf
220w,s-221w,s-222w,s Adv Probs: Printmaking (3 cr; prereq ♯)
231w,s-232w,s-233w,s Adv Probs: Drawing (3 cr; prereq ♯) VI-VIII TTh
240w,s-241w,s-242w,s Adv Probs: Ceramics (3 cr; prereq ♯)
260Fw,s-261Fw,s-262Fw,s See 260Ff-261Ff-262Ff
260Pw,s-261Pw,s-262Pw,s See 260Pf-261Pf-262Pf

CLASSICS

Classics (Clas)

Fall Quarter

1 **World of Homer: Heroic Tradition, Intellectual Awakening (3 cr)**
VII MWF, FolH 303, W McDonald

4 Intro to Classical Civilization: The World of Cato (3 cr)
III MWF, Ph 236a, Weber

42 Greek, Roman Mythology (2 cr, §42A; prereq soph)
III TTh, Ph 150, Weber

42A Greek, Roman Mythology (3 cr, §42; prereq soph)
12:15-1:30 TTh, HH 210 (StP Campus), Cole

46 Ancient Literary Criticism (3 cr; prereq soph)
VIII MWF, FolH 110, Schork

48 Technical Terms of Science, Medicine, Humanities (3 cr; prereq soph)
IV MWF, FolH 308, Molitor

56 Linguistics (3 cr; prereq 1 yr col foreign lang or ♯)
V MWF, FolH 308, D Swanson

68 Technical Terms of Science, Medicine, Humanities (3 cr, §48; prereq jr)
IV MWF, FolH 308, Slade

80 Classical Epic in Translation (3 cr, §180; prereq 9 cr Engl lit above C or foreign lit or △)
IV MWF, FolH 209, Schork

146 Ancient Literary Criticism (3 cr, §46; prereq jr)
VIII MWF, FolH 110, Schork

191 Classical Literary Traditions (3 cr, §91; prereq grad)
VII MWF, FolH 110, DeWitt

Winter and Spring Quarters

2w Age of Pericles: City-State, Intellectual Maturity (3 cr) VII MWF

3s Age of Alexander: Cosmopolitanism, Cultural Fusion (3 cr) VII MWF

5w Intro to Classical Civilization: The World of Augustus (3 cr) III MWF

6s Intro to Classical Civilization: The World of Constantine (3 cr) III MWF

42w,s See 42f

48w,s See 48f: IV MWF (w,s); 12:15-1:30 TTh (s)

68w,s See 68f: IV MWF (w,s); 12:15-1:30 TTh

81w Greek Tragedy in Translation (3 cr, §181; prereq 9 cr Engl lit above C or foreign lit or △) IV MWF

82s Aristophanes, Roman Drama in Translation (3 cr, §182; prereq 9 cr Engl lit above C or foreign lit or △) IV MWF

106w-107s Study of Language (3 cr; prereq 56 or △) V MWF (w,s)

108w Classical Voices of Poetry (3 cr, §Spch 108; prereq Spch 82 or 83 or Th 61 or 3 cr Lat or Grk above 60 or 3 cr upper div Engl or foreign lit or ♯) III MWF

122w Greek Archaeology (3 cr; prereq jr or ♯) VII MWF

123s Intro to Roman Archaeology (3 cr, §Art 161) II MWF

-192w-193s‡ See 191f

Greek (Grk)

Fall Quarter

1 **Bgn Greek (5 cr, †1-2)**
Lect II MWF, FolH 303
—1, II TTh, FolH 303, Banks
—2, II TTh, FolH 307, Wilkie

50 Reading (3 cr, §1, †50-51; prereq jr)
III MWF, VH 303
61 Plato: Selections (3 cr; prereq 3)
IV MWF, FolH 108, Ferguson
81 Oratory (3 cr; prereq 63)
III MWF, FolH 108, Schork
95H Honors Course: Independent Honors Reading (3 cr; prereq △) W McDonald, others
174D Directed Reading, Research (3 cr)
176C Reading: Geography (3 cr)
11:15-12:30 TTh, FolH 305, W McDonald
194 Proseminar: Classical Studies (3 cr, §Lat 194; prereq grad maj or ♯)
VI MWF, FolH 305½, D Swanson
261 The Conflict of Religions in the Roman Empire (3 cr, §Lat 261; prereq ¶171, △)
3:15-5:15 W, Lib 312, Ferguson

Winter and Spring Quarters

-2w See 1f: II MTWThF
3s Selections from Greek Prose (5 cr; prereq 2) II MTWThF
-51w See 50f
62w Greek Tragic Drama (3 cr; prereq 3) IV MWF
63s Homer (3 cr; prereq 3) IV MWF
73s Hellenistic Greek (3 cr; prereq △) V MWF
82w Lyric Poetry (3 cr; prereq 63) III MWF
83s History (3 cr; prereq 63) III MWF
-96Hw-97Hs See 96Hf
176Bw Reading: Philosophy (3 cr) 11:15-12:30 TTh
176Dw Directed Reading, Research (3 cr)
178Ds Directed Reading, Research (3 cr) 11:15-12:30 TTh
-262w-263s See 261f

Latin (Lat)

Fall Quarter

1 **Bgn Latin** (5 cr; prereq △)
—1, I MTWThF, FolH 303, Forbes, Sanford
—2, I MTWThF, FolH 303, Baron, Forbes
2 Bgn Latin (5 cr; prereq 1)
II MTWThF, FolH 107, Forbes, Tulloch
3X Interm Latin (5 cr; prereq 3 or 2 yrs HS Latin or △)
VI MTWThF, FolH 205, Forbes, Svendsen
50 Reading Latin (3 cr, §1-2-3, †50-51; prereq jr)
V MWF, FolH 302
61 Literature of the Roman Republic (3 cr; prereq 3, ♯ or 2-3 yrs HS Latin)
VI MWF, FolH 108, DeWitt
73 Prose Composition (3 cr; prereq 3 yrs HS Lat or △)
V MWF, FolH 108, A MacDonald
81 Ovid (3 cr; prereq 63)
I MWF, AE 21, Sonkowsky
95H Honors Course: Independent Honors Reading (3 cr; prereq △) W McDonald, others
101 Structure of Latin (1-2 cr; prereq 63, Clas 56, sr or grad or ♯) Erickson, Forbes
174D Directed Reading, Research (3 cr)
178B Reading: Law (3 cr)
2:15-3:30 TTh, FolH 302, DeWitt
194 Proseminar: Classical Studies (3 cr, §Grk 194; prereq grad maj or ♯)
VI MWF, FolH 305½, Swanson
261 The Conflict of Religions in the Roman Empire (3 cr, §Grk 261; prereq 171, △)
3:15-5:15 W, Lib 312, Ferguson

Winter and Spring Quarters

-2w-3s See 1f
4Xw Interm Latin (5 cr; prereq 3 or 2 yrs HS Latin or △) VI MTWThF
-51w See 50f
62w Latin Lyric Poetry (3 cr; prereq 61 or 3, ♯ or △) VI MWF
63s Golden, Silver Latin (3 cr; prereq 62 or 4 or △) VI MWF
82w Caesar, Cicero (3 cr; prereq 63) I MWF
83s Virgil (3 cr; prereq 63) I MWF
-96Hw-97Hs See 95Hf
100s Craft, Context of Translation (3 cr; prereq 63 or ♯) VI MWF
-102w-103s See 101f
174Aw Reading: History (3 cr) 2:15-3:30 TTh
176Dw Directed Reading, Research (3 cr)
178Ds Directed Reading, Research (3 cr) 2:15-3:30 TTh
-262w-263s See 261f

Sanskrit (Skt)

Fall Quarter

51 Beginning Sanskrit (3 cr; prereq fr, soph by ♯)
151 Directed Readings (3 cr; prereq ♯)

Winter and Spring Quarters

-52w-53s See 51f
-152w-153s See 151f

COMMUNICATIONS (Comm)

Fall Quarter

1 Communication (4 cr, §Engl A or 1A or 1B or 10H; prereq classif card 1 or 1A or 2 or 3)
—1, I MTWF, C 111, Sheehan
—2, I MTWF, C 115
—3, I MTWF, C 315, Alyeshmerni
—4, I MTWF, CD 105
—5, I MTWF, Z 211
—6, II MTWF, Owre 117, Huffington
—7, II MTWF, AH 101, Campbell
—8, III MTWF, C 111, Rose
—9, III MTWF, A 105, Johnsrud
—10, IV MTWF, C 111, Cranney
—11, IV MTWF, C 115, Campbell
—12, IV MTWF, Z 211, Coiner
—13, IV MTWF, MH 213, Sheehan
—14, V MTWF, WuH 130, Holtan
—15, V MTWF, CD 105, Tintner
—16, V MTWF, ME 214, Rose
—17, V MTWF, ME 221
—18, VI MTWF, AH 101, Elzey
—19, VI MTWF, AH 150, McNellis
—20, VI MTWF, A 202, Tintner
—21, VII MTWF, C 115
—22, VII MTWF, C 315, Tembeck
—23, VII MTWF, Ph 143, Taubr
—24, VII MTWF, A 202, Norton
—25, VIII MTWF, C 111, Robinson
—26, VIII MTWF, C 315, Taubr
—27, I-II TTh, E 320, Cranney
—28, III-IV TTh, TNCD 113, McNall
—29, VI-VII TTh, ChE 40, McNall

1H Honors Course: Communication (4 cr, §Engl A or 1A or 1B or 10H; prereq classif card 1 or 1A or 2, △)
IV-V TTh, ForH 346, Bryan

2 Communication (4 cr, §Engl B or 2A or 2B or 11H; prereq 1)
—1, II MTWF, Arch 20, Holtan
—2, V MTWF, Owre 117, Huffington

3 Communication (4 cr, §Engl C or 3A or 3B or 12H; prereq 2)
—1, I MTWF, Ph 143, Coiner
—2, V MTWF, MurH 420, Johnsrud

Winter and Spring Quarters

1w-2s See 1f: I or IV or V or VI MTWF (w,s); VII MTWF (w)

1s See 1f: II or V or VI MTWF

-2w-3s See 1f

-3w See 1f: II or V MTW

-2Hw-3Hs See 1Hf

EAST AND SOUTH ASIAN LANGUAGES

Chinese (Chin)

Fall Quarter

1 Bgn Chinese (5 cr)
—1, VI MTWThF, FolH 303½, Liu, others
—2, VI MTWThF, A 205, Liu, others

51 Interm Chinese (5 cr; prereq 3, ¶101)
II MTWThF, FolH 103, Chang

101 Bgn Literary Chinese (3 cr; prereq 3, ¶51)
I MWF, FolH 303½, Mather

105 Intro to Chinese Linguistics (3 cr; prereq 103 or Clas 56 or ‡)
III MWF, FolH 305½, Wang

110 Literature in Translation (3 cr; prereq 9 cr lit)
VI MWF, TSF 103, Mather

125 Chinese Documents (3 cr; prereq 103 or ‡)
VII MWF, FolH 303½, Chang

171 Poetry of T'ang, Sung Periods (2 cr; prereq 103) Mather

191H Honors Course: Research (1-3 cr; prereq 153 or ‡)

221 Seminar: Vernacular Chinese Literature (3 cr; prereq 123, 200C) Liu

Winter and Spring Quarters

-2w-3s See 1f: VI MTWThF

52w Interm Chinese (5 cr; prereq 3, ¶101) II MTWThF

-53‡ See 52f

102w Bgn Literary Chinese (3 cr; prereq 3, ¶51) I MWF

103s Bgn Literary Chinese (3 cr; prereq 102, ¶53) I MWF

106w Intro to Chinese Linguistics (3 cr; prereq 103 or Clas 56 or ‡) III MWF

-107s See 106f

111w Literature in Translation (3 cr; prereq 9 cr lit) VI MWF

-112s See 111f

126w Chinese Documents (3 cr; prereq 103 or ‡) VII MWF

-127s See 126f

172w Poetry of T'ang, Sung Periods (2 cr; prereq 103)

-173s See 172f

-177s See 176f

192Hw Honors Course: Research (1-3 cr; prereq 153 or ‡)

-193Hs See 191Hf

200Bw Bibliography, Research Methods (3 cr; prereq 103, 123, ‡)

205s Seminar: Chinese Linguistics (3 cr; prereq 105, 106, 107 or ‡)

Indian (Indn)

Fall Quarter

1 Bgn Hindi (5 cr)
V MTWThF, VI TTh, FolH 305½, Staneslow, others
51 Interm Hindi (5 cr)
III MTWThF, ForH 346, Khokle
101 Adv Hindi (3 cr; prereq 53)
IV MWF, ForH 346, Khokle
105 Structure of Hindi (3 cr; prereq Clas 56, Anth 180 or ♯)
IV MWF, FolH 303½, Staneslow
110 Survey of Indian Literature (3 cr; prereq 6 cr lit or 3 cr India courses or ♯)
121 Readings: Hindi Literature—20th Century (3 cr; prereq 103)
125 Hindi Composition (3 cr; prereq 103)
151 Directed Readings (3 cr; prereq 103 or ♯)

Winter and Spring Quarters

-2w-3s‡ See 1f
-52w-53s See 51f
-102w-103s See 101f
106w Hindi Linguistics (3 cr; prereq ♯) IV MWF
107s Hindi Linguistics (3 cr; prereq 106) IV MWF
-122w-123s See 121f
-126w See 125f
127s Hindi Composition (3 cr; prereq 103)
153s Directed Readings (3 cr; prereq 152)

Japanese (Jpn)

Fall Quarter

1 Bgn Japanese (5 cr)
—1, III MTWThF, JohH 105, Matsumoto
—2, V MTWThF, A 105, Matsumoto
51 Interm Japanese (5 cr; prereq 3)
VIII MTWThF, FolH 208, Loveless, Tsukimura
101 Adv Japanese (3 cr; prereq 53)
III MWF, FolH 208
105 Intro to Linguistics (3 cr; prereq 103 or Clas 56 or ♯)
VII MWF, Lib 4A, Loveless
110 Literature in Translation (3 cr; prereq 9 cr lit)
II MWF, FolH 205, Tsukimura
121 Readings: Contemporary Japn Texts (3 cr; prereq 103)
III MWF, FolH 303½, Copeland
171 Poetry of Nara, Heian Periods (2 cr; prereq 103)
III TTh, FolH 303½, Copeland
191H Honors Course: Research (1-3 cr; prereq 153 or ♯)

Winter and Spring Quarters

-2w-3s See 1f
-52w-53s See 51f
-102w-103s See 101f
-106w-107s See 105f
-111w-112s See 110f
-122w-123s See 121f
148Fw History of Japan (3 cr, §Hist 148)
-172w-173s See 171f
-192Hw-193Hs See 191Hf
200Cs Bibliography, Research Methods (3 cr; prereq 103, 123, ♯)

Tibetan (Tib)

Fall Quarter

101 Bgn Tibetan (3 cr)
VII MWF, FolH 305½, Wang

Winter and Spring Quarters

-102w-103s See 101f: VII MWF (w); III MWF (s)

ECONOMICS (Econ)

Fall Quarter

1 Prin of Macroeconomics (4 cr, †1-2, §C or 1T or 50A; prereq 3rd qtr fr)
Lect I Th, NMA, Heller, Kareken
—1, I MWF, Arch 60
—2, I MWF, Arch 135
—3, I MWF, CB(W) 205
—4, I MWF, CB(W) 225
—5, I MWF, ChE 50
—6, II MWF, CB(W) 225
—7, II MWF, CB(W) 145
—8, III MWF, CB(W) 240
—9, III MWF, Arch 135
—10, III MWF, ForH 150
—11, III MWF, CB(W) 225
—12, IV MWF, CB(W) 205
—13, IV MWF, Arch 135
—14, IV MWF, ChE 50
—15, IV MWF, ForH 150
—16, V MWF, Arch 45
—17, V MWF, Arch 60
—18, V MWF, Arch 145
—19, V MWF, MMA 100
—20, V MWF, CB(W) 205
—21, VI MWF, CB(W) 205
—22, VI MWF, Bu 123

—23, VII MWF, Bu 123
—24, VII MWF, E 227
—25, VII MWF, MinMet 116

1H Honors Course: Prin of Macroeconomics (4 cr, †1H-2H, §C or 1 or 1T or 50A; prereq 3rd qtr fr)
Lect I Th, NMA, Heller, Kareken
Rec III MWF, MinMet 120

1T Principles (3 cr, †1T-2T; prereq Math 13A or 40)
—1, I MWF, Bu 123
—2, III MWF, MurH 420
—3, IV MWF, ForH 160
—4, V MWF, Ph 210
—5, V MWF, ForH 150
—6, VI MWF, A 12

2 Prin of Microeconomics (3 cr, †1-2, §C or 50B; prereq 1)
—1, I MWF, Bu 125
—2, I MWF, CB(W) 140
—3, II MWF, CB(W) 255
—4, III MWF, AE 211
—5, IV MWF, ForH 175
—6, V MWF, Z 313
—7, V MWF, MinMet 120
—8, V MWF, ME 102
—9, VI MWF, A 201
—10, VII MWF, C 225
—11, VII MWF, WuH 130

2H Honors Course: Prins of Microeconomics (3 cr, †1H-2H, §C or 2T or 50B; prereq 1 or 1H)
IV MWF, WuH 130

50A Probs of American Economy (3 cr, §B, 1 or 1T)
VI MWF, CB(W) 215, Smith

62 Labor Economics (3 cr, §IR 52; prereq 2)
11:15-12:30 TTh, CB(W) 120, Simler

65 Interm Economic Analysis I (3 cr; prereq 2 or ‡)
—1, I MWF, CB(W) 120, Swidinsky
—2, I MWF, CB(W) 215, Likens
—3, III MWF, CB(W) 130, Swidinsky
—4, IV MWF, CB(W) 255, Rogers
—5, 11:15-12:30 TTh, CB(W) 155, Teubal
—6, V MWF, CB(W) 435, Rogers
—7, V MWF, CB(W) 140, Gardner
—8, VI MWF, CB(W) 110, Gardner

66 Interm Economic Analysis II (3 cr, §66T; prereq 2 or ‡)
—1, II MWF, CB(W) 135, Hofmeister
—2, III MWF, CB(W) 145, Rich
—3, 11:15-12:30 TTh, CB(W) 10, Coen
—4, 2:15-3:30 TTh, CB(W) 140, Wallace

67 Money, Banking (3 cr; prereq 66)
—1, 8:15-9:30 TTh, CB(W) 235, Keyt
—2, 12:45-2:00 TTh, CB(W) 155, Keyt

68 Elem of Public Finance (3 cr; prereq 65, 66)
—1, 9:45-11:00 TTh, CB(W) 155, Foster
—2, IV MWF, CB(W) 145, Maynes

69 Govt Regulation of Business (3 cr; prereq 65 for BA or econ maj, law or pol sci for others or ‡)
—1, I MWF, CB(W) 415, Rich
—2, IV MWF, CB(W) 155, Mohring

75 Interm Economic Analysis III (3 cr; prereq 65)
8:15-9:30 TTh, CB(W) 130, Coen

101A Mathematics for Social Scientists (3 cr; prereq Math 10 or ‡)
11:15-12:30 TTh, CB(W) 125, Sonnenschein

103A Economic Development (3 cr, §103; prereq 65, 66 or ‡)
9:45-11:00 TTh, CB(W) 135, Diaz

104A International Economics (3 cr, §104, 114A; prereq 65, 66 or ‡)
VII MWF, CB(W) 220, Smith

114A Intl Trade, Payments Theory (3 cr; prereq 65)
11:15-12:30 TTh, CB(W) 220, Krueger

120 Consumption (3 cr; prereq 65, 66 or ‡)
III MWF, CB(W) 235, Maynes

135A Foundations of Economic Analysis (3 cr; prereq 165, 166, Math 43)
9:45-11:00 TTh, CB(W) 215, Richter

143A Development of American Economy (3 cr; prereq 65, 66 or ‡)
VI MWF, CB(W) 255, Green

165 Economic Analysis: Firm, Households (3 cr, §65 or 65T; prereq grad or ‡)
9:45-11:00 TTh, CB(W) 130, Hause

166 Economic Analysis: Income, Employment (3 cr, §66 or 66T; prereq grad or ‡)
3:45-5:00 TTh, CB 205, Wallace

174 The Economy of Latin America (3 cr, §174A; prereq 2, no econ maj)
11:15-12:30 TTh, CB(W) 140, Diaz

175 Economic Analysis III: Welfare Theory, Policy (3 cr; prereq 185A)
3:45-5:00 TTh, CB(W) 240, Hause

177A Interm Monetary Economics (3 cr; prereq 66)
3:30-5:30 F, CB(W) 110, Kareken

178A Public Finance (3 cr; prereq 65, 66 or ‡)
2:15-3:30 TTh, CB(W) 235, Foster

179A Industrial Organization (3 cr; prereq 165 or ‡)
2:15-3:15 MW CB(W) 225, Mohring

182 Economic Security (3 cr; prereq 62 or ‡)
II MWF, CB(W) 115, Williams

190 Readings (ar cr; prereq cons adv, ‡)

195A Decision Making, Operations Analysis (3 cr; prereq 165, Math 43 or ‡)
2:15-3:30 TTh, CB(W) 105, Henderson
201A Econometrics A (3 cr; prereq 121C, 165, 166)
3:30-4:45 MW, CB(W) 225, Muench
213A Economic Growth, Natl Planning (3 cr; prereq 175, 176A, course in subfield of develop) Buttrick
215A Welfare Economics (3 cr; prereq 185B or ‡)
11:15-12:30 TTh, CB(W) 135, Richter
245A Mathematical Economics (3 cr; prereq 135C or ‡)
3:45-5:00 TTh, CB(W) 225, Hurwicz
290 Individual Research (ar cr)
390A Workshop (ar cr; prereq compl of prelim exam or ‡) Brownlee

Winter and Spring Quarters

Bw Scope, Methods, Application (3 cr) VII MWF
Cs Intro to Economic Analysis (3 cr, §1-2, 1T-2T; prereq B) I or II or III MWF
1w,s See 1f: Lect I TTh, rec I or II or III or IV or V or VI or VII MWF
1Hw See 1Hf
1Tw See 1Tf: I or IV or V MWF
-2w See 2f: I or II or III or IV or V or VI MWF
-2Hw See 2Hf: III MWF
-2Hs See 2Hf: Lect I Th, rec I or II or IV or V MWF
-2Tw See 1Tf: I or II or III or IV or V MWF
20s Consumer Economics (3 cr; prereq 2) 11:15-12:30 MW
-50Bw See 50Af
62s See 62f
63s Science, Technology (3 cr; prereq 2) 11:15-12:30 MW
65w See 65f: I or III or IV or VI MWF; 11:15-12:30 TTh
65s See 65f: I or II or III or IV MWF; 11:15-12:30 TTh
65Tw Interm Economic Analysis I (3 cr, §65, 165; prereq ¶Math 43 or ‡) 9:45-11:00 TTh
66w,s See 66f: I or II or III or IV MWF (w,s); V MWF (w only); VI MWF (s only); 9:45-11:00 TTh (w); 11:15-12:30 TTh (w,s)
66Ts Interm Economic Analysis II (3 cr, §66; prereq 65T or ‡) 9:45-11:00 TTh
67w,s See 67f: II MWF (w); IV MWF (w,s); V or VI MWF (s only)
68w,s See 68f: I or II MWF (s); III MWF (w); 9:45-11:00 TTh (s); 11:15-12:30 TTh (w)
69w,s See 69f: II or III MWF (s); IV MWF (w); 9:45-10:30 TTh (s); 11:15-12:30 TTh (w)
75w,s See 75f: 9:45-11:00 TTh
90Hw,s Honors Course: Undergrad Seminar in Economics (3 cr; prereq 66, 75, econ maj, sr, honors cand or ‡)
101Bw Intro to Decision Theory (3 cr; prereq 101A or ‡)
103w,s Economic Development (3 cr, §103A; prereq 2, no econ maj) III MWF (w); 10:15-11:30 TTh (s)
104w,s International Economics (3 cr, §104A; prereq 2) 11:15-12:30 TTh (w); 12:45-2:00 TTh (s)
104As See 104Af: 11:15-12:30 TTh
-114Bw-114Cs See 114Af: 11:15-12:30 TTh (w,s)
134s U S Foreign Economic Policy (3 cr; prereq 104) 2:15-3:30 TTh
-135Bw-135Cs See 135Af: 9:15-10:30 TTh
140w Location (3 cr; prereq 165, 166 or ‡) 2:15-4:15 F
152s History of Labor (3 cr; prereq 62 or ‡) 9:45-11:00 TTh
157s Business Cycles (3 cr; prereq 66, 67) 8:15-9:30 TTh
160w Comparative Economic Systems (3 cr, §160A; prereq 2, no econ maj) III MWF
160Aw Adv Comparative Economic Systems (3 cr, §160; prereq 65, 66 or ‡) II MWF
164w Economy of USSR (3 cr; prereq 2) 9:45-11:00 TTh
165s See 165f: 2:15-3:30 MW
166s See 166f: 3:45-5:00 MW
172s Labor Market Behavior, Regulation (3 cr; prereq 62 or ‡) I MWF
174As See 174f: 9:45-11:00 TTh
175w,s See 175f: 11:15-12:30 TTh; 2:15-3:30 TTh
176Aw Economic Analysis II: Income Theory (3 cr; prereq 166 or ‡) 3:45-5:00 TTh
176Bs Dynamic Macroeconomics (3 cr; prereq 176A or ‡) 3:45-5:00 TTh
-177Bw See 177Af: 3:30-5:30 F
-178Bw See 178Af: 2:15-3:30 TTh
-179Bw See 179Af: 2:15-3:15 MW
180Aw-180Bs‡ History of Economic Thought (3 cr; prereq 175, 176A or ‡) IV MWF
185Aw Economic Analysis I: Price Theory (3 cr; prereq 165) 9:45-11:00 TTh
185Bs Adv Microeconomics (3 cr; prereq 185A or ‡) 9:45-11:00 TTh
190w,s See 190f
192w Collective Bargaining (3 cr; prereq 62, 65, 66) 11:15-12:30 TTh
-195Bw See 195Af

-201Bw-201Cs See 201Af
-213Bw See 213Af
-215Bw See 215Af
222As Adv Topics: Labor Economics (3 cr; prereq ‡)
223Aw Adv Topics: Economics Development (3 cr; prereq ‡)
-245Bw-245Cs See 245Af
277Aw-277Bs Development of Monetary Theory, Policy (3 cr; prereq 176A, 177A or ‡) 2:15-3:30 TTh
290w,s See 290f
301As Seminar: Econometrics, Statistical Inference (3 cr; prereq ‡)
390Bw-390Cs See 390Af

ENGLISH

English (Engl)

Fall Quarter

A Freshman Composition, Literature (5 cr, §Comp 1 or Engl 1B or 1A or 10H or Comm 1; prereq classif card 1 or 1A or 2)
—1, I MTWThF, VH 307
—2, I MTWThF, VH 309
—3, I MTWThF, VH 2
—4, I MTWThF, VH 6
—5, I MTWThF, VH 113
—6, I MTWThF, VH 207
—7, I MTWThF, VH 301
—8, I MTWThF, VH 306
—9, I MTWThF, A 105
—10, I MTWThF, FraH 101
—11, I MTWThF, CB(W) 230
—12, III MTWThF, CB(W) 250
—13, I MTWThF, CB(W) 125
—14, II MTWThF, VH 306
—15, II MTWThF, VH 307
—16, II MTWThF, VH 1
—17, II MTWThF, Bu 120
—18, II MTWThF, FraH 120
—19, II MTWThF, MH 213
—20, II MTWThF, ME 102
—21, II MTWThF, CB(W) 430
—22, III MTWThF, VH 2
—23, III MWF, ChE 240, III TTh, JacH 178
—24, III MWF, FraH B25, III TTh, VH 6
—25, III MTWThF, AH 9
—26, III MTWThF, AH 350
—27, IV MTWThF, VH 303
—28, IV MTWThF, Pt 102
—29, IV MWF, MMA 125, IV TTh, Owre 111
—30, IV MTWThF, VH 2
—31, IV MTWThF, AE 209
—32, IV MTWThF, AH 350
—33, IV MTWThF, ForH 349
—34, IV MTWThF, E 330
—35, IV MTWThF, Owre 117
—36, V MTWThF, ForH 155
—37, V MTWThF, VH 2
—38, V MTWThF, VH 6
—39, V MTWThF, VH 113
—40, V MTWThF, VH 205
—41, V MTWThF, VH 301
—42, V MTWThF, ForH 115
—43, V MTWThF, AH 350
—44, V MTWThF, MinMet 104
—45, V MTWThF, Pt 215
—46, VI MTWThF, VH 306
—47, VI MTWThF, VH 309
—48, VI MTWThF, AE 211
—49, VI MTWThF, AE 215
—50, VI MTWThF, AE 317
—51, VI MTWThF, AE 327
—52, VII MTWThF, VH 6
—53, VII MTWThF, VH 210
—54, VII MTWThF, ME 4
—55, VII MTWThF, Owre 15
—56, VII MTWThF, AH 350
—57, VII MTWThF, CB(W) 120
—58, VII MTWThF, CB(W) 145
—59, VII MTWThF, A 205
—60, VIII MTWThF, Arch 135
—61, VIII MTWThF, VH 2
—62, VIII MTWThF, Arch 145
—63, VIII MTWThF, VH 113
—64, VIII MTWThF, VH 207
—65, VIII MTWThF, VH 306
—66, VIII MTWThF, A 105
—67, III MTWThF, VH 1
—68, VIII MTWThF, Bu 105
—69, VIII MTWThF, AH 101
—70, VIII MTWThF, AH 9

C Freshman Composition, Literature (5 cr, §3A or 3B or Comp 3 or 12H or Comm 3; prereq B)
—1, II MWF, ME 214, II TTh, ME 4
—2, III MWF, Arch 15, III TTh, ME 18
—3, IV MWF, AE 225, IV TTh, ChE 154
—4, V MWF, VH 210, V TTh, VH 306
—5, VI MWF, Z 211, VI TTh, Owre 117

10H Honors Course: Freshman Literature, Composition (5 cr, §A or 1A or 1B or Comp 1 or Comm 1; prereq classif card 1)
—1, IV MTWThF, CB(W) 235, Reid
—2, VII MTWThF, CB(W) 240, Bernard

21 Intro to Literature (5 cr, §19; prereq completion or exempt fr Engl)
—1, II MTWThF, VH 301, Durham
—2, III MTWThF, VH 301, Leyasmeyer

—3, IV MTWThF, VH 301, Levy
—4, VI MTWThF, VH 301, McNaron
—5, VII MTWThF, VH 301, Haley
—6, VIII MTWThF, VH 301, Joseph

23 Intro to Literature (5 cr, §19-20; prereq completion or exempt fr Engl)
—1, II MTWThF, VH 2, Stricker
—2, VI MTWThF, VH 2, Rosendahl

37 Modern Literature: Poetry (3 cr; prereq soph, completion or exempt fr Engl)
—1, VI MWF, VH 303, Stricker
—2, VII MWF, VH 1, R Foster
—3, VIII MWF, Arch 50, Haley

52 English Novel (3 cr; prereq C or 12H; 3A or 3B or Comm 3, 5 addtl cr; 5 cr in 21 or 22 or 23; exempt, 5 cr lit)
VII MWF, VH 2, McClure

55 Shakespeare (3 cr; prereq C or 12H; Comp 3 or 3A or 3B or Comm 3, 5 addtl cr lit; 5 cr in 21 or 22 or 23; exempt, 5 cr lit)
—1, II MWF, VH 205, McNaron
—2, 9:45-11:00 TTh, VH 113, Scoggins
—3, III MWF, VH 307, Steinmann
—4, IV MWF, JacH 74, Roth
—5, 12:45-2:00 TTh, CB(W) 205, Youngblood
—6, V MWF, Lib 4A, Foy
—7, 2:15-3:30 TTh, WuH 230, Youngblood
—8, VII MWF, VH 205, Foy

56 Shakespeare (3 cr; prereq 55 or △)
—1, IV MWF, VH 205, Reed
—2, VI MWF, VH 205, Durham

60 Intro to English Language (3 cr; prereq soph, completion or exempt fr Engl)
I MWF, VH 1, Allen

72 American Literature (3 cr; prereq C or 12H; Comp 3 or 3A or 3B or Comm 3, 5 addtl cr lit; 5 cr in 21 or 22 or 23; exempt, 5 cr lit)
—1, II MWF, VH 207, Roth
—2, 11:15-12:30 TTh, WuH 230, C Foster
—3, IV MWF, WuH 230, Alsen
—4, VII MWF, VH 207, Roth

74 American Literature (3 cr; prereq 72 or ♯, none for Ed min)
11:15-12:30 TTh, VH 207, Reed

75 Chaucer (4 cr; prereq C or 12H; Comp 3 or 3A or 3B or Comm 3, 5 addtl cr lit; 5 cr in 21 or 22 or 23; exempt, 5 cr lit)
VI MWThF, MinMet 116, Joseph

77 20th Century British, American Literature (3 cr, §142; prereq 5 cr above fr Engl)
—1, 9:45-11:00 TTh, VH 207, Youngblood
—2, VI MWF, Arch 50, Reed

85A Technical Writing for Engineers (1 cr; prereq ¶ME 145 or ME 191 or EE 81)
—1, II T, JacH 74, Haga
—2, II Th, JacH 74, Haga
—3, VI T, VH 1, Haga

90H Honors Course: Magna Honors Thesis (3 cr; prereq cand magna cum laude, △)

91H Honors Course: Summa Honors Thesis (3 cr, †91H-92H; prereq cand summa cum laude, △)

92H Honors Course: Summa Honors Thesis (3 cr, †91H-92H; prereq 91H, △)

100 Old English (4 cr; prereq 5 cr above fr Engl)
VII MTWF, SciB 375, Erickson

104 Emerson, Thoreau (3 cr; prereq 5 cr above fr Engl)
VII MWF, VH 309, Alsen

108 Romantic Poetry, Prose (3 cr, §109; prereq 5 cr above fr Engl)
11:15-12:30 TTh, Ph 145, Scoggins

137 Victorian Literature (3 cr; prereq 5 cr above fr Engl)
—1, III MWF, VH 207, Stange (for grad or △)
—2, III MWF, VH 113, Joseph

147 Middle English Literature Exclusive of Chaucer (3 cr; prereq 75, 100 or ♯)
VIII MWF, VH 309

156 American Drama (3 cr; prereq 5 cr above fr Engl)
9:45-11:00 TTh, JohH 122, Kwiat

157 American Poetry (3 cr; prereq 5 cr above fr Engl)
2:15-3:30 TTh, VH 1, Levenson

162 Milton (3 cr; prereq 21 or 56)
—1, II MWF, VH 113, Levy
—2, VII MWF, VH 303, McNaron

165 Modern English (3 cr; prereq 5 cr above fr Engl)
—1, VI MWF, VH 207, Erickson
—2, VII MWF, Z 211

167 Modern Rhetorical Theory (3 cr)
IV MWF, VH 309, Steinmann

183 Poetry of T S Eliot (3 cr; prereq 5 cr above fr Engl)
11:15-12:30 TTh, JacH 178, Unger

184 Form, Idea in Dramatic Literature (3 cr; prereq 5 cr above fr Engl...56 rec)
9:45-11:00 TTh, Z 313, Hurrell

187 18th Century Literature (3 cr; prereq 5 cr above fr Engl)
—1, IV MWF, VH 207, Monk (for grad or △)
—2, IV MWF, VH 113, Leyasmeyer

190 20th Century Writers: Faulkner, Fitzgerald, Mailer (3 cr; prereq 5 cr above fr Engl)
VI MWF, VH 1, R Foster

194 Elizabethan Prose, Verse (3 cr; prereq 5 cr above fr Engl)
11:15-12:30 TTh, Arch 50, O'Brien

197 17th Century Literature (3 cr; prereq 5 cr above fr Engl)
III MWF, VH 205, Unger

205 Studies in English Language (3 cr, §165)
VI-VII T, VH 125, Allen

210 17th Century Literature (3 cr)
VIII-IX T, VH 210, Unger

213 Bibliography, Methods of Literary Research (2 cr)
VI-VII M, AH 9, Stange

234 Medieval English Culture (3 cr; prereq 75)
VIII-IX Th, VH 210, Clark

256 Spenser, Milton (3 cr)
VI-VII F, FolH 208, O'Brien

265 American Renaissance II: Hawthorne, Thoreau, Melville (3 cr)
VI-VII M, VH 125, C Foster

268 Aesthetics (3 cr; prereq Engl or phil grad students or ‡)
VIII-IX T, ForH 50, Steinmann

271 Rise, Development of the English Novel (3 cr)
VI-VII F, VH 125, Montgomery

277 American Realism (3 cr; prereq ‡)
VIII-IX F, VH 210, Bowron

284 Dryden, His Age (3 cr)
VIII-IX W, ForH 50, Monk

287 Victorian Literature (3 cr)
VI-VII W, VH 125, Stange

297 Independent Reading (3 cr; prereq MA degree)

Winter and Spring Quarters

Aw-Bs See Af: I or II MTWThF (w); III or IV or V or VI or VII MTWThF (w,s)

Bw-Cs See Af: I or II or III or IV or V or VI or VII or VIII MTWThF (w,s)

-11Hw-12Hs See 10Hf

21w-22s‡ See 21f: II or VI MTWThF

-22w-23s‡ See 21f: II or III or IV or VI or VII or VIII MTWThF

-38w‡ Modern Literature: Prose Fiction (3 cr; prereq soph, completion fr Engl) VI or VII or VIII MWF

-39s‡ Modern Literature: Drama (3 cr; prereq soph, completion fr Engl) VI or VII or VIII MWF

-53w-54s‡ See 52f: VII MWF

55w,s See 55f: I or II or III or VI MWF (w); 11:15-12:30 TTh (w); II or IV or VII MWF (s); 2:15-3:30 TTh

-56w,s See 56f: II or IV or VII MWF (w); 11:15-12:30 TTh (w,s); 12:45-2:00 TTh (w); 2:15-3:30 TTh (w); III-IV or VI or VII MWF (s)

60w,s See 60f: II MWF (s); VI MWF (w)

72w-73s See 72f: 11:15-12:30 TTh (w,s)

-73w-74s‡ See 72f: II or IV or VII MWF (w,s)

75w,s See 75f

-78w-79s See 77f

85w Technical Writing for Engineers (3 cr; prereq C or 3A or 3B) III MWF

85As See 85Af: I T

-85Bw-85Cs See 85Af

90Hw,s See 90Hf

91Hw,s-92Hw,s See 91Hf-92Hf

100s See 100f

102w Readings: Old English Prose, Verse (3 cr; prereq 100) 11:15-12:30 TTh

103s Beowulf (3 cr; prereq 100) 11:15-12:30 TTh

105w Hawthorne, Melville (3 cr; prereq 5 cr above fr Engl) IV MWF

106s Whitman, Mark Twain (3 cr; prereq 5 cr above fr Engl) 9:45-11:00 TTh

109w-110s Romantic Poetry, Prose (3 cr; prereq 5 cr above fr Engl) 11:15-12:30 TTh

136w Adv Shakespeare (3 cr; prereq 56) 9:45-11:00 TTh

-138w-139s See 137f

-148w-149s See 147f

154w-155s American Novel (3 cr; prereq 5 cr above fr Engl) III TThS

-158w See 157f

159w-160s Early American Literature (3 cr; prereq 5 cr above fr Engl) 2:15-3:30 TTh

162w,s Milton (3 cr; prereq 21 or 56) III MWF (w,s); VI MWF (s)

165w,s See 165f: VII MWF (w); I MWF (s)

166s History of English Language (3 cr; prereq 5 cr above fr Engl) VI MWF

169w Earlier English Drama (3 cr; prereq 5 cr above fr Engl) 2:15-3:30 TTh

170s Shakespeare's Later Contemporaries (3 cr; prereq 56 or 169) 2:15-3:30 TTh

174s American English (3 cr; prereq 5 cr above fr Engl) 3:45-5:00 TTh

176s Structure of Verse (3 cr; prereq 5 cr above fr Engl) 12:45-2:00 TTh

185w-186s Form, Idea in Dramatic Literature (3 cr; prereq 5 cr above fr Engl... 56 rec) 9:45-11:00 TTh

-188w-189s‡ See 187f

-191w-192s‡ See 190f

-195w-196s‡ See 194f
-198w-199s‡ See 197f
204w Studies in English Language (3 cr; prereq 100) VI-VII T
-211w See 210f
213s See 213f: VII-VIII T
-235w-236s See 234f
-257w See 256f
-266w-267s See 265f
-269w See 268f
-272w See 271f
-278w-279s See 277f
-281w-282s English Romantic Movement (3 cr) VIII-IX W (w,s)
-285w-286s See 284f
-288w-289s See 287f
-298w-299s See 297f

English Composition (Comp)

Fall Quarter

X Preparatory Composition (0 cr; prereq classif card 4 or 4A)
—1, 8:15-9:30 TTh, JohH 122
—2, 9:45-11:00 TTh, Owre 15
—3, 9:45-11:00 TTh, MurH 420
—4, 11:15-12:30 TTh, FolH 306
—5, 11:15-12:30 TTh, Z 313
—6, 12:45-2:00 TTh, CB(W) 120
—7, 12:45-2:00 TTh, JacH 178
—8, 2:15-3:30 TTh, FolH 104

1 Freshman Composition (4 cr, §Engl A or 1A or 1B or 10H or Comm 1; prereq classif card 1 or 1A or 2 or 3)
—1, I MTWF, CB(W) 430
—2, I MTWF, A 205
—3, I MTWF, AE 321
—4, I MTWF, AH 9
—5, I MTWF, ME 102
—6, I MWThF, AE 319
—7, I MWThF, AE 327
—8, I MWThF, AH 101
—9, I MWThF, A 201
—10, I MTWF, CB(W) 135
—11, I MTWF, CB(W) 155
—12, I MTWF, CB(W) 220
—13, I MWThF, MurH 308
—14, II MWF, Pt 111, II T, FolH 406
—15, II MWF, VH 309, II Th, VH 210
—16, II MWF, ForH 150, II Th, C 315
—17, III MTWF, Owre 117
—18, VIII MTWF, Arch 5
—19, I MTWF, CB 105
—20, III MTWF, CB(W) 425
—21, III MTWF, Owre 111
—22, III MWThF, A 201
—23, III MWThF, ForH 55
—24, III MWThF, WuH 230
—25, III MWF, Bu 123, III Th, AH 150
—26, III MWF, AE 321, III Th, Ph 133
—27, IV MTWF, A 12
—28, IV MTWF, A 205
—29, IV MTWF, A 201
—30, IV MTWF, Pt 111
—31, IV MTWF, VH 1
—32, IV MWThF, CB(W) 250
—33, IV MWThF, A 105
—34, IV MWThF, Pt 110
—35, IV MWThF, Arch 10
—36, IV MWThF, FolH 302
—37, IV MWThF, ME 18
—38, V MTWF, ChE 40
—39, V MTWF, Ex 193
—40, V MTWF, Pt 110
—41, V MTWF, Pt 214
—42, V MWThF, VH 1
—43, V MWThF, CB(W) 225
—44, V MWF, CB(W) 250, V Th, CB(W) 425
—45, V MWThF, Pt 102
—46, V MTWF, CB(W) 425
—47, V MWThF, Owre 12
—48, V MWThF, FraH 120
—49, VI MWF, ChE 240, VI T, E 315
—50, VI MWF, Owre 12, VI Th, E 315
—51, VII MTThF, Ph 210
—52, VI MWF, VH 307, VI T, Arch 145
—53, VI MWF, Lib 4A, VI Th, VH 113
—54, VII MTWF, CB(W) 425
—55, VII MTWF, Arch 40
—56, VII MTWF, MMA 125
—57, VII MTWF, Ph 133
—58, VII MWThF, CB(W) 430
—59, VII MWThF, CB(W) 410
—60, VII MWF, VH 307, VII Th, VH 2
—61, VII MWF, Owre 117, VII Th, Owre 12
—62, VII MWF, Minmet 104, VII Th, MinMet 120
—63, VI MWThF, Arch 145
—64, VIII MTWF, A 116
—65, VIII MTWF, A 202
—66, VIII MTWF, A 12
—67, VIII MWThF, A 205
—68, VIII MWThF, A 201
—69, VIII MWThF, AE 21
—70, VIII MWThF, AE 209
—71, I-II TTh, A 12
—72, I-II TTh, MMA 100
—73, I-II TTh, VH 205
—74, I-II TTh, VH 210
—75, I-II TTh, CB(W) 250
—76, I-II TTh, Arch 55
—77, I-II TTh, C 325
—78, I-II TTh, ChE 162
—79, I-II TTh, Ph 236A

—80, I-II TTh, MinMet 120
—81, III-IV TTh, JohH 106
—82, III-IV TTh, Arch 55
—83, III-IV TTh, NH 209A
—84, III-IV TTh, Arch 135
—85, III-IV TTh, ME 4
—86, III-IV TTh, ForH 261
—87, III-IV TTh, JacH 74
—88, III-IV TTh, FolH 307
—89, III-IV TTh, FolH 308
—90, V-VI TTh, Arch 20
—91, V-VI TTh, ChE 150
—92, V-VI TTh, Arch 55
—93, V-VI TTh, CB(W) 250
—94, V-VI TTh, E 340
—95, V-VI TTh, MH 214
—96, V-VI TTh, Ph 131
—97, V-VI TTh, Ph 133
—98, V-VI TTh, Ph 170
—99, VII-VIII TTh, AH 150
—100, VII-VIII TTh, Arch 45
—101, VII-VIII TTh, Arch 55
—102, VII-VIII TTh, E 330
—103, VII-VIII TTh, C 225
—104, VII-VIII TTh, ChE 240
—105, VII-VIII TTh, E 217

3 **Freshman Composition** (4 cr, §Engl C or 3B or 12H or Comm 3; prereq 2)
—1, I-II TTh, FolH 104
—2, I-II TTh, ME 321
—3, III-IV TTh, FolH 104
—4, III-IV TTh, ME 321
—5, V-VI TTh, VH 307
—6, I MTWF, Arch 20
—7, I MWThF, Arch 45
—8, II MTWF, WuH 230
—9, III MWF, AE 327, III T, Ph 133
—10, III MWF, VH 306, III Th, Ph 166
—11, V MTWF, Owre 111
—12, V MWThF, CB(W) 235
—13, VI MTWF, FraH B20
—14, VI MWThF, CB(W) 430
—15, VII MTWF, MinMet 120
—16, VII MWF, ChE 240, VII Th, MinMet 116

27 **Adv Writing** (3 cr; prereq Engl C, 3A or 3B or Comm 3 or △)
—1, I MWF, VH 210, Schepman
—2, II MWF, VH 210, Schepman
—3, II MWF, VH 303, Edgington
—4, 9:45-11:00 TTh, Bo B6, Fagerson
—5, IV MWF, VH 210, Edgington
—6, IV MWF, VH 306, K Warner
—7, 11:15-12:30 TTh, E 303, Goldman
—8, V MWF, VH 303, K Warner
—9, V MWF, Bu 105, Korges
—10, 12:45-2:00 TTh, Z 313, Fagerson
—11, VI MWF, MH 214, Cummins
—12, VI MWF, MH 213, Korges
—13, 2:15-3:30 TTh, Ph 145, Goldman
—14, VII MWF, VH 306, Cummins

28 **Adv Writing** (3 cr; prereq 27)
—1, III MWF, VH 210, Wilson
—2, VI MWF, VH 210, Wilson

101 **Writing of Fiction, Poetry** (3 cr; prereq ♯)
VIII-IX Th, Arch 140, R Foster

Winter and Spring Quarters

Xw-Xs See Xf: 9:45-11:00 TTh; 11:15-12:30 TTh; 12:45-2:00 TTh; 2:15-3:30 TTh

1w-2s See 1f: I-II TTh; III-IV TTh; V-VI TTh; VII-VIII TTh

-2w-3s See 1f

27w See 27f: I MWF; II MWF; 9:45-11:00 TTh; III MWF; V MWF; 12:45-2:00 TTh; VI MWF; VII MWF (w)

27s See 27f: I MWF; II MWF; III MWF; IV MWF; V MWF; VI MWF; VII MWF (s)

28w See 28f: III MWF; IV MWF; V MWF; VI MWF

28s See 28f: 9:45-11:00 TTh; V MWF; 12:45-2:00 TTh

-102w, 103s See 101f

FAMILY STUDIES (FamS)

Fall Quarter

1 **Dynamics of Dating, Courtship, Marriage** (3 cr, §1A)
—1, I MWF, JohH 106, Kim
—2, II MWF, JohH 106, Holland
—3, VI MWF, JohH 106, Torbett
—4, V MWF, JohH 106, Torbett
—5, VI MWF, ForH 349, Kokosh
—6, 8:15-9:30 TTh, CB(W) 225, Kokosh
—7, 8:15-9:30 TTh, JohH 106, Torbett

1A **Dynamics of Dating, Courtship, Marriage** (3 cr, §1; prereq up div or married students)
—1, III MWF, JohH 106, Huyck
—2, 9:45-11:00 TTh, CB(W) 225, Holland

15 **The Home, Its Furnishings** (3 cr but cr does not count toward BA degree)
II MWF, JohH 122, Ludwig

25 **Parenthood** (3 cr, §Psy 80)
II MWF, MurH 420, Huyck

Winter and Spring Quarters

1w,s See 1f: I MWF; 8:15-9:30 TTh; II MWF; V MWF; VI MWF; VII MWF (s only)

1Aw,s See 1Af: III MWF (w,s); 9:45-11:00 TTh

15w,s See 15f
25w,s See 25f
50s The Educated Woman in U S (2 cr but cr does not count toward BA degree; prereq ♯) VII-VIII Th

GEOGRAPHY (Geog)

Fall Quarter

1 **Physical Geography** (5 cr)
—1, Lect IV MWF, Owre 111, CCTV, Barrett
—2, Lect IV MWF, Owre 113, CCTV
—3, Lect VII MWF, Owre 113, CCTV
—4, Lect VII MWF, CB(W) 130, CCTV
—5, Lect VII MWF, Arch 45, CCTV
—6, Lect IV MWF, AgEng 108 (StP Campus) CCTV
—1, Rec I MW CB(W) 450
—2, Rec II MW, CB(W) 450
—3, Rec III MW, CB(W) 440
—4, Rec I TTh, ForH 70
—5, Rec II TTh, ForH 60
—6, Rec III TTh, CB(W) 440
—7, Rec IV MW, ForH 60
—8, Rec IV TTh, ForH 60
—9, Rec V MW, CB(W) 450
—10, Rec V TTh, ForH 60
—11, Rec VI MW, ForH 60
—12, Rec VI TTh, ForH 60
—13, Rec VII TTh, ForH 60
—14, Rec I TTh, ForH 50
—15, Rec III MW, ForH 50
—16, Rec I TTh, CB(W) 440
—17, Rec II TTh, CB(W) 440
—18, Rec I MW, ForH 50

4 **Human Geography** (5 cr)
Lect IV MWF, MNH Aud, Schwartzberg
—1, I MW, ForH 70
—2, II MW, ForH 70
—3, II TTh, ForH 70
—4, III MW, ForH 70
—5, III TTh, ForH 70
—6, IV TTh, ForH 70
—7, V MW, ForH 70
—8, V TTh, ForH 70
—9, VI TTh, ForH 70
—10, VII MW, ForH 70
—11, VII TTh, ForH 70
—12, VI MW, CB(W) 450
—13, VI TTh, ForH 50
—14, VII MW, ForH 50
—15, VII TTh, ForH 50
—16, I TTh, CB(W) 450
—17, VI MW, CB(W) 440
—18, VIII MW, CB(W) 440
Lect III MWF, ME 4
—19, I MW, CB(W) 440
—20, II MW, CB(W) 440
—21, II TTh, CB(W) 450
—22, III TTh, ForH 50
—23, IV MW, ForH 50
—24, IV TTh, ForH 50
—25, V MW, ForH 50
—26, V TTh, ForH 50
—27, IV MW, ForH 70

41 **Economic Geography** (5 cr)
Lect VI MWThF, CB(W) 10, Adams
—1, V M, CB(W) 440
—2, VII M, CB(W) 440
—3, V F, CB(W) 450
—4, V T, CB(W) 440
—5, VII W, CB(W) 440
—6, VI T, CB(W) 440

61 Europe (3 cr; prereq 5 cr or ♯)
IV MWF, CB(W) 435, Rice

67 Minnesota (3 cr)
III MWF, CB(W) 435, Borchert

71 **Maps, Map Interpretation** (3 cr; prereq soph, 5 cr or ♯)
II-III TTh, CB(W) 445

81 **Cartography** (3 cr; prereq 5 or ♯)
VI-VII TTh, CB(W) 455

87 **Quantitative Methods** (3 cr; prereq QA 5 or ♯)
11:15-12:30 TTh, CB(W) 450, Adams

103 Norden (3 cr; prereq 5 cr or ♯)
II MWF, CB(W) 435, Rice

118 Africa (3 cr; prereq 5 cr or ♯)
9:45-11:00 TTh, CB(W) 235, Prothero

134 Eastern United States (3 cr)
II MWF, CB(W) 235

151 Climatology (3 cr; prereq 1 or ♯)
VI MWF, CB(W) 435, Barrett

163 Political Geography (3 cr; prereq 4 or ♯)
VII MWF, CB(W) 435, Schwartzberg

165 Urban Geography (3 cr; prereq 4 or ♯)
VI MWF, CB(W) 425, Webb

190 Readings (1-3 cr; prereq sr)

191A Institute in Geography (3 cr; prereq secondary school teachers with BA degree, 10 cr geog or △)
7:00-9:00 **pm** T, CB(W) 445, Borchert, Lukermann

256 Seminar: Land Use Planning (3 cr; prereq ♯)
7:00-9:00 **pm** M, CB(W) 445, Borchert

271 Seminar: Historical Economic Geography (3 cr; prereq ♯)
VIII-IX Th, CB(W) 445, Lukermann

281 Seminar: Africa (3 cr; prereq ♯)
VIII-IX W, CB(W) 445, Prothero

286 Seminar: Settlement, Population Geography (3 cr; prereq ♯)
VIII-IX T, CB(W) 445, Webb

301 Research Probs (ar cr)

Winter and Spring Quarters

1w,s See 1f: Lect IV or VII MWF, Rec I or II or III or IV or V or VI MW; I or II or III or IV or V or VI or VII TTh

4w,s See 4f: Lect IV or V MWF (w); IV MWF or 9:45-11:00 (s), Rec I or II or III or IV or V or VI or VII or VIII MW (w); I or II or III or IV or V or VI or VII MW (s); I or II or III or IV or V or VI or VII TTh (w,s)

41w,s See 41f

63w Soviet Union (3 cr) III MWF

71w See 71f: VI-VII TTh

78s Industrialization (3 cr; prereq 41 or ‡) II MWF

81w,s See 81f: II-III TTh (w); VI-VII MW (s)

90Hs Undergrad Honors Seminar (3 cr; prereq 10 cr geog, 3.0 GPA, ‡) VIII-IX M

91Hw Undergrad Honors Seminar (3 cr; prereq 10 cr, 3.0 GPA, ‡) VII-VIII M

101w Western Europe (3 cr; prereq 5 cr or ‡) VII MWF

102w Central Europe (3 cr; prereq 5 cr or ‡) II MWF

106s Regions of the USSR (3 cr; prereq 63 or ‡) III MWF

120w South Asia (3 cr; prereq 5 cr or ‡) V MWF

122s East Asia (3 cr; prereq 5 cr or ‡) II MWF

126w Australia, New Zealand, Oceania (3 cr) VI MWF

137s Canada, Alaska (3 cr; prereq 10 cr or ‡) 8:15-9:30 TTh

141s Middle America (3 cr) III MWF

143w Political Geography (3 cr; prereq 4 or ‡) 8:15-9:30 TTh

160w Development of Geographic Thought (3 cr; prereq sr, 15 cr) IV MWF

162s Geographical Exploration, Discovery (3 cr; prereq 5 cr or ‡) V MWF

167w-168s American Cities—Location, Geographic Design (3 cr; prereq ‡) III MWF

168As American Cities—Field Study (3 cr; prereq 168 or ¶)

171s Economic Localization (3 cr; prereq 41 or ‡) VI MWF

175w Rural Geography (3 cr) 11:15-12:30 TTh

177w Geography of Outdoor Recreation (3 cr, §130) 2:15-3:30 TTh

184s Air Photo Interpretation (3 cr; prereq 81 or ‡) VI-VII TTh

184As Air Photo Interpretation—Field Course (3 cr; prereq 184 or ¶)

185s Source Materials for Geographic Research (3 cr; prereq sr, 15 cr) 2:15-3:30 TTh

187w Quantitative Research Design (3 cr, §Soc 187; prereq 73, Soc 45 or ‡) 11:15-12:30 TTh

188s Area Sampling, Analysis (3 cr, §Soc 188; prereq 73, Soc 45 or ‡) 11:15-12:30 TTh

190w,s See 190f

191Bw-191Cs See 190Af

196s Proseminar: East, South Asia (3 cr, §Anth 196, Pol 196, Ortl 196, Hist 196; prereq sr)

197s Proseminar: Development of Geographic Thought (3 cr, §160; prereq 15 cr with B avg, sr or ‡) VIII-IX W

262w Seminar: Development of Geographic Thought (3 cr; prereq ‡) VIII-IX W

-272w-273s See 271f

278s Seminar: Agricultural Geography (3 cr; prereq ‡) VIII-IX T

-287w See 286f

301w,s See 301f

GERMAN (Ger)

Fall Quarter

1 Bgn German: Oral Approach (5 cr, §1A or 1B or 1C or HS Ger)
—1, Lect IV TTh, Bu 120, 123, CCTV, C Wood
—2, Lect VII TTh, Bu 120, Arch 15, CCTV, C Wood
—1, Rec I MWF, FolH 302
—2, Rec I MWF, FolH 203
—3, Rec II MWF, FolH 109
—4, Rec III MWF, TNCD 113
—5, Rec IV MWF, FolH 103
—6, Rec V MWF, FolH 207
—7, Rec V MWF, A 201
—8, Rec VII MWF, AE 319
—9, Rec VII MWF, AE 321
—10, Rec VII MWF, AE 327
—11, Rec VII MWF, FolH 302
—12, Rec VII MWF, E 330
—13, Rec VII MWF, A 105

1A Bgn German: Active Approach (5 cr, §1B or 1C or HS Ger)
—1, Lect III MWF, FolH 209½
Lab III TTh, FolH 209½
—2, Lect VI MWF, FolH 209½
Lab VI TTh, FolH 209½

1B Bgn German: Language, Culture (5 cr, §1A or 1C or HS Ger)
—1, Lect III MWF, FolH 209
Lab III TTh, FolH 209
—2, Lect VI MWF, FolH 209
Lab VI TTh, FolH 209

1H Honors Course: Bgn German (5 cr, §1A or 1B or HS Ger; prereq ‡)
VI MTWThF, FolH 207, H Ramras

2A Bgn German: Active Approach (5 cr, §2B or 2C; prereq 1A)
Lect II MWF, FolH 209½
Lab II TTh, FolH 209½

3A Bgn German: Active Approach (5 cr, §3B or 3C; prereq 2A)
—1, II MTWThF, FraH B25
—2, III MTWThF, FolH 105
—3, IV MTWThF, AE 21
—4, V MTWThF, AE 21
—5, VII MTWThF, AH 101

4 Interm German (3 cr; prereq 3A or 3B or 3C or 3 yrs HS Ger)
—1, III MWF, FolH 110
—2, IV MWF, AH 101
—3, V MWF, FolH 107
—4, V MWF, Ph 145

5 Interm German (2 cr; prereq 3A or 3B or 3C or 3yrs HS Ger)
—1, III TTh, FolH 108
—2, IV TTh, FolH 205
—3, V TTh, FolH 302
—4, V TTh, FolH 108

50 Reading German: Bgn for Juniors, Seniors (3 cr, §1A or 1B or 1H or HS Ger)
I MWF, FolH 209½

53 German Literature in Translation (2 cr)
II TTh, FolH 205

56A Reading, Analysis of Literary Texts (3 cr; prereq 4 or 4 yrs HS Ger, not open to students with 70 or above)
—1, III MWF, FolH 207
—2, IV MWF, FolH 207

57 Composition (2 cr; prereq 4, 5)
VI TTh, FolH 307

60 Analysis of Modern German Structure for Teachers (2 cr; prereq 56 or 4, △)
I TTh, FolH 207

61 Conversation (2 cr; prereq 4, 5)
VII TTh, FolH 207

70 Lyric Poetry from Goethe to Rilke (3 cr; prereq 56A or 4, △)
11:15-12:30 TTh, FolH 103, F Wood

73 Drama from Lessing to the Present (3 cr; prereq 56A or 4, △)
IV MWF, FolH 208, Menze

76 Prose of the 19th, 20th Centuries (3 cr; prereq 56A or 4, △)
9:45-11:00 TTh, FolH 110, Weiss

91 Civilization, Culture (3 cr; prereq 3 cr above 70)
VII MWF, FolH 209½, Weiss

94 Survey of Literature (3 cr; prereq 3 cr above 70)
II MWF, FolH 203, Friedrichsmeyer

97 Goethe (3 cr; prereq 9 cr above 70)
III MWF, FolH 109, Ramras

103 German Style, Composition (1 cr; prereq 66)
VII Th, FolH 103, Friedrichsmeyer

110 Middle High German Language (3 cr; prereq 94, 11 cr above 70)
VIII-IX M, FolH 302

113 Gothic (3 cr; prereq 80, 11 cr above 70)
VIII-IX M, FolH 205, C Wood

124 Philological Proseminar: Bibliography, Methods (3 cr)
VIII-IX W, FraH B1, Coleman

140 Drama in Translation (3 cr; prereq sr, 9 cr theat arts or lit above 50, not open to maj or min)
II-III Th, FolH 305½, Menze

149 Directed Reading (2-3 cr)

160 Klopstock, Wieland, Herder (3 cr; prereq sr, 14 cr above 70)
VIII-IX F, FolH 205, Ramras

170 Romanticism (3 cr; prereq sr, 14 cr above 70)
VIII-IX T, FolH 203, F Wood

176 19th Century Drama (3 cr; prereq sr, 14 cr above 70)
VI-VII W, FolH 208, Menze

254 Seminar: 19th Century (3 cr; prereq 1 yr grad work)
VIII-IX Th, FolH 203, Weiss

Winter and Spring Quarters

1Aw See 1Af: Lect I or IV MTWThF or V MTWThF
-2w See 1f: IV or VII MWF
-2Aw See 1Af
-2As See 1Af: Lect I or V MWF; lab I or V TTh
-2Bw-3Bs See 1Bf
2Hw See 1Hf
3s Bgn German: Oral Approach (5 cr; prereq 2) Lect IV or VII TTh; Rec I or II or III or IV or V or VII MWF
-3Aw See 1Af: II or III MTWThF
-3As See 1Af: III or VI MTWThF
-3Bs Bgn German: Language, Culture (5 cr, §3A or 3C; prereq 2B) Lect III or VI MWF; Lab III or VI TTh
4w,s See 4f: II or IV or V MWF (w only); II or III or VI MWF (s only)
5w,s See 5f: II or IV or V TTh (w); II or III or VI TTh (s)

-51w-52s See 50f
-54w-55s See 53f: II TTh
56Aw,s See 56Af: IV or V MWF
56Bs Interpretation of Literature (3 cr; prereq 56A or ‡) III MWF
-58w-59s See 57f
-62w-63s See 61f
-71w-72s‡ See 70f
-74w-75s‡ See 73f
-77w-78s‡ See 76f
80w History of German Language (3 cr; prereq 6 cr above 70) I TTh
89Hw-90Hs Honors Course: Proseminar (3 cr; prereq cand for honors in Ger) VIII-IX M (w only)
-92w-93s See 91f
-95w-96s See 94f
-98w-99s See 97f
-104w-105s See 103f
-111w-112s See 110f
-114w-115s Methods of Comparative Germanic Linguistics (3 cr, †114-115; prereq 113) VIII-IX M
122w-123s History of the German Language (3 cr, †122-123) VIII-IX F
-141w-142s See 140f
149w,s See 149f
-161w See 160f; VIII-IX F
-171w-172s See 170f
-177w-178s See 176f
254w,s See 254f: VIII-IX WTh (w only); VIII-IX W (s only)

HISTORY (Hist)

Fall Quarter

1 Civilization of the Modern World (3 cr)
—1, Lect II TTh, C 100, Christianson
—2, Lect III TTh, NH 45, Wright
—3, Lect VI TTh, Bo B6, Noonan
—4, Lect VII TTh, NH 45, Kieft
—1, Rec I M, E 302
—2, Rec I W, E 302
—3, Rec I F, E 302
—4, Rec III T, Arch 140
—5, Rec III Th, Arch 140
—6, Rec III T, ChE 162
—7, Rec III Th, ChE 162
—8, Rec IV M, JohH 106
—9, Rec IV W, SocSci(W) 860
—10, Rec IV F, ForH 50
—11, Rec V M, MurH 302
—12, Rec V W, MurH 302
—13, Rec V F, MurH 302
—14, Rec VI T, Arch 40
—15, Rec VI Th, Arch 140
—16, Rec VII M, CB(W) 140
—17, Rec VII W, CB(W) 230
—18, Rec VII F, CB(W) 440
—19, Rec VII T, FolH 103
—20, Rec VII Th, Arch 40
—21, Rec I T, E 315
—22, Rec I Th, Ph 143
—23, Rec II M, Bu 105
—24, Rec II W, FraH 20
—25, Rec II F, ForH 70
—26, Rec II T, C 315
—27, Rec II Th, Ph 143
—28, Rec IV T, CB(W) 440
—29, Rec IV Th, CB(W) 440
—30, Rec V T, CB(W) 410
—31, Rec V Th, ChE 54
—32, Rec VI M, Ph 236A
—33, Rec VI W, Ph 236A
—34, Rec VI F, Ph 236A
—35, Rec VII M, MurH 302
—36, Rec VII T, ChE 154
—37, Rec VII W, MurH 302
—38, Rec VII Th, ChE 154
—39, Rec VII F, MurH 302
—40, Rec I M, Ph 236A
—41, Rec I W, Ph 236A
—42, Rec I F, Ph 236A
—43, Rec II T, SciB 325
—44, Rec II Th, Arch 20
—45, Rec V M, CB(W) 105
—46, Rec V W, ChE 54
—47, Rec V F, CB(W) 440
—48, Rec VII T, JohH 106
—49, Rec VII Th, Arch 140
—50, Rec VII T, ME 208
—51, Rec VII Th, JohH 106
—52, Rec II T, C 115
—53, Rec II Th, E 4
—54, Rec III M, FraH B1
—55, Rec III W, FolH 103
—56, Rec III F, ForH 50
—57, Rec IV T, Arch 140
—58, Rec IV Th, Arch 140
—59, Rec V M, ChE 54
—60, Rec V W, ChE 162
—61, Rec V F, ForH 50
—62, Rec VI M, ChE 154
—63, Rec VI T, Ph 143
—64, Rec VI W, Bu 105
—65, Rec VI Th, Ph 142
—66, Rec VI F, CB(W) 440
—67, Rec VIII T, Ph 143

1H Honors Course: Civilization of the Modern World (3 cr; prereq ‡)
—1, Lect II TTh, C 100, Christianson
Rec II W, VH 125, Christianson
—2, Lect III TTh, NH 45, Wright
Rec VII Th, CB(W) 205, Wright
—3, Lect VI TTh, Bo B6, Noonan
Rec VI W, ChE 154, Noonan

—4, Lect VII TTh, NH 45, Kieft
Rec VII W, BA(W) 933, Kieft

3 Civilization of the Modern World (3 cr)
Lect VII TTh, MNH Aud, Noonan
—1, I T, MurH 302
—2, I Th, MurH 302
—3, III M, C 115
—4, III W, ChE 162
—5, III F, ChE 162
—6, IV M, Arch 140
—7, IV W, ChE 154
—8, IV F, ChE 154
—9, V T, ChE 54
—10, V Th, ChE 162
—11, VI M, Arch 140
—12, VI T, ChE 54
—13, VI W, Arch 140
—14, VI Th, ChE 54
—15, VI F, Arch 140
—16, VIII Th, Ph 236A

3H Honors Course: Civilization of the Modern World (3 cr; prereq ♯)
Lect VII TTh, MNH Aud, Noonan
Rec VII W, ChE 154

4 English History (3 cr)
Lect IV TTh, MNH Aud, Altholz
—1, I T, Arch 40
—2, I F, CB(W) 440
—3, II Th, MurH 302
—4, II Th, MurH 311
—5, III F, CB(W) 440
—6, IV W, Arch 140
—7, IV F, Arch 140
—8, V M, ChE 162
—9, V W, Ph 236A
—10, V F, ChE 54
—11, VI T, ChE 162
—12, VI Th, ChE 162
—13, VII M, ChE 154
—14, VII F, JohH 106

11 Medieval, Renaissance History (3 cr)
IV MWF, Bo B6, Buzicky, Hoyt

14 Ancient Civilization (3 cr)
—1, I MWF, ChE 240, Muhly
—2, VII TWTh, Bo B6, Leichty

14A Ancient Civilization with Readings (5 cr)
—1, I MWF, ChE 240, Muhly
I TTh, Arch 135, Muhly
—2, VII TWTh, Bo B6, Leichty
VII MF, CB(W) 230, T Jones

17 Asia (3 cr)
VII TTh, Arch 50, Dietrich, Marshall, Zelliot

23 American History (4 cr; prereq soph)
Lect 11:15-12:30 TTh, C 100, Brauer
—1, I M, ChE 162
—2, I W, ChE 162
—3, I F, ChE 162
—4, II T, MurH 302
—5, II Th, C 115
—6, III M, ChE 162
—7, III T, MurH 311
—8, III W, C 115
—9, III Th, ME 221
—10, III F, C 115
—11, VI M, FolH 208
—12, VI T, CB(W) 425
—13, VI F, CB(W) 450
—14, VII T, CB(W) 115
—15, VII Th, C 315

23H Honors Course: American History (4 cr; prereq soph, ♯)
Lect 11:15-12:30 TTh, C 100, Brauer
Rec VI Th, ChE 154, Brauer

24 American History (4 cr; prereq soph)
Lect V MWF, MNH Aud, Spear
—1, I M, CB(W) 115
—2, I T, CB(W) 120
—3, I Th, CB(W) 120
—4, II W, ChE 162
—5, II F, ChE 162
—6, III F, ForH 70
—7, IV M, ChE 154
—8, IV W, JohH 106
—9, VI M, Bu 105
—10, VI W, ME 221
—11, VI F, ForH 60
—12, VII M, JohH 106
—13, VII T, JohH 105
—14, VII W, CB(W) 140
—15, VII Th, JohH 105

24H Honors Course: American History (4 cr; prereq soph, ♯)
Lect V MWF, MNH Aud, Spear
Rec VI W, SocSci(W) 628, Spear

50 Ancient Civilization (3 cr, §14)
—1, I MWF, ChE 240, Muhly
—2, VII TWTh, Bo B6, Leichty

53 Civilization of the Modern World (3 cr)
Lect IV TTh, Arch 5, Thayer
—1, V T, ChE 162
—2, V Th, E 4
—3, VI T, JohH 105
—4, VI Th, JohH 105

56 England (3 cr, §4)
Lect IV TTh, MNH Aud, Altholz
—1, IV F, JohH 106
—2, V T, CB(W) 225
—3, V Th, Ex 193

59 Asia (3 cr, §17)
VII TTh, Arch 50, Dietrich, Marshall, Zelliot

74 History of the Arabs (3 cr, §Arab 74; prereq ♯)
VII MWF, CB(W) 115, Chejne

74A Ancient Israel (3 cr, §Hebr 74)
V MWF, ME 208, Paradise

79 United States in 20th Century (3 cr)
VI MWF, CB(W) 410, A Jones

87A The Era of American Revolution (3 cr)
V MWF, CB(W) 135, Howe

90 The American West (3 cr)
IV MWF, CB(W) 150, Berkhofer

90A American Social History (3 cr)
VII MWF, CB(W) 205, Smith

93 History of American Foreign Policy (3 cr)
IV MWF, CB(W) 10, Brauer

97 Minnesota, the Northwest (3 cr)
III MWF, CB(W) 410, Jordan

100B Directed Study (3 cr; prereq ‡)

103A Ancient Near East (3 cr)
VI TWTh, CB(W) 140, Leichty

103B Greece to 200 BC (3 cr)
VIII TWTh, CB(W) 145, T Jones

106A Europe in Early Middle Ages (3 cr)
9:45-11:00 TTh, CB 125, Sawyer

106C Europe in Late Middle Ages, Renaissance, Reformation (3 cr)
III MWF, CB(W) 140, Tracy

115A Early Modern Europe
III MWF, CB(W) 205, Christianson

115D Europe in 20th Century (3 cr)
II MWF, CB 10, Munholland

118C History of Germany (3 cr)
VI MWF, CB(W) 225, Kieft

118D Central Europe: Bohemia, Poland, Hungary to 18th Century (3 cr; prereq 3)
12:45-2:00 TTh, CB(W) 135, Wright

118E History of Early Russia (3 cr)
IV MWF, CB(W) 120, Noonan

118F Modern Russia (3 cr)
III MWF, CB(W) 10, Stavrou

118J History of Scandinavian Countries (3 cr)
II MWF, CB(W) 125, Oakley

121C Intellectual, Cultural History of Modern Europe (3 cr)
II MWF, CB(W) 240, Thayer

133C Early Natl Period in U S (3 cr)
I MWF, CB(W) 240, Jordan

133E American History: 1850-1900 (3 cr)
II MWF, CB(W) 130, Loehr

139C Intellectual History of U S (3 cr)
11:15-12:30 TTh, SciB 375, Noble

139E Social History of American Education (3 cr, §HEd 149; prereq 20, 21, 22 or ‡)
2:15-3:30 TTh, FolH 110, Smith

139F American Constitutional History (3 cr)
IV MWF, CB(W) 130, Murphy

139J Race, Nationality in American History: 1619-1865 (3 cr)
III MWF, CB(W) 120, Spear

142A American Economic History: Colonial Life (3 cr)
III MWF, CB(W) 135, Loehr

142C History of American Labor (3 cr)
9:45-11:00 TTh, CB(W) 120, Berman

145A Latin-American History (3 cr)
IV MWF, CB(W) 135, Beatty

151A Cultural History of China (3 cr; prereq...¶Art 111 rec)
III MWF, BA(W) 933, Mather

160A Proseminar: Ancient History (3 cr, †160A-161A-162A) Muhly

160B Proseminar: Ancient History (3 cr, †160B-161B-162B)
IX TTh, SocSci(W) 628, Leichty

163A Proseminar: Medieval History (3 cr, †163A-164A-165A)
VI-VII T, SocSci(W) 1450, Hoyt, Sawyer

169C Proseminar: Europe in 18th Century (3 cr, †169C-170C-171C)
2:15-4:15 T, CB(W) 450, Wright

169E Proseminar: Recent European History (3 cr, †169E-170E-171E; prereq course in 20th-cent Europe or World War II or ‡)
VI-VII M, BA(W) 837, Munholland

172A 17th Century Europe (3 cr, †172A-173A-174A; prereq rdg Fren)
VII-VIII W, CB(W) 450, Christianson

172E Modern European Intellectual History (3 cr)
VII-VIII M, CB(W) 450, Thayer

172F Proseminar: Russian History (3 cr, †172F-173F-174F; prereq 120E, rdg Russ or Ger or Fren or ‡)
VII-VIII W, SocSci(W) 628, Stavrou

172G Scandinavian History (3 cr, †172G-173G-174G) Oakley

178A Proseminar: English History—Tudor, Stuart Periods (3 cr, †178A-179A-180A) Moir

178C Proseminar: Modern England—1783 to Present (3 cr, †178C-179C-180C)
VII-IX Th, SocSci(W) 860, Altholz

181A Proseminar: 17th, 18th Century American History (3 cr, †181A-182A-183A)
4:15-6:15 W, SocSci(W) 628, Rutman

181B Proseminar: The Era of American Revolution (3 cr)
VII-VIII F, SocSci(W) 628, Howe

181D Proseminar: 19th Century American History (3 cr, †181D-182D-183D)
IV-V W, SocSci(W) 633, Jordan

181J Proseminar: 20th Century American History (3 cr, †181J-182J-183J)
VIII-IX W, CB(W) 430, Chambers

184A Proseminar: The West in American History (3 cr, †184A-185A-186A)
VI-VII M, SocSci(W) 628, Berkhofer

187A Proseminar: American Political Constitutional History (3 cr, †187A-188A-189A; prereq 139F-140F-141F or ♯)
3:30-5:30 T, SocSci(W) 1450, Murphy

187B Proseminar: History of American Foreign Policy (3 cr, †187B-188B-189B)
VIII-IX W, BA(W) 632, Brauer

187D Proseminar: Intellectual History of U S in 19th, 20th Centuries (3 cr, †187D-188D-189D)
8:00 pm W, Noble

187E Proseminar: American Religious History (3 cr)
IX-X T, ChE 162, Smith

187F Proseminar: American Labor History (3 cr, †187F-188F-189F)
2:15-4:00 T, SocSci(W) 628, Berman

187G Proseminar: American Economic History (3 cr, †187G-188G-189G)
VI-VII M, SocSci(W) 1383, Loehr

190A Proseminar: Latin-American History (3 cr, †190A-191A-192A; prereq rdg Span)
VI-VII Th, SocSci(W) 628, Beatty

193A Proseminar: History of Japan (3 cr, †193A-194A; prereq ♯) Marshall

193B Proseminar: India (3 cr, †193B-194B-195B) Zelliot

210A Ancient History (3 cr, †210A-211A-212A)
8:00-10:00 pm Th, SocSci(W) 715, Jones

213A Medieval History (3 cr, †213A-214A-215A)
VI-VII T, SocSci(W) 1450, Hoyt

231A 17th Century American History (3 cr, †231A-232A-233A) Rutman

237E American Social, Educational History (3 cr, †237E-238E-239E, §HEd 296)
IX-X W, SocSci(W) 633, Smith

243C Seminar: History of Japan (3 cr; prereq 2 qtrs proseminar Jpn hist or ♯, knowledge Jpn) Marshall

248A Ming, Ch'ing History (3 cr; prereq 2 qtrs proseminar Chin hist, rdg knowledge Chin) Dietrich

Winter and Spring Quarters

1w-2s‡ See 3f: I TTh; III or IV MWF; V TTh; VI MTWThF; VII TTh; VIII Th

1Hw-2Hs‡ See 3Hf: VII W (w,s); VII TTh (w,s)

-2w-3s‡ See 1f: Lect II or III or VI or VII TTh, rec I or II or III or IV or V or VI or VII MTWThF; VIII T

-2Hw-3Hs‡ See 1Hf: Lect II or III or VI or VII TTh, rec II or VI or VII W (w,s); VII Th (w); III W (s)

-5w-6s‡ See 4f

-12w-13s‡ See 11f

-15w-16s‡ See 14f

-15Aw-16As‡ See 14Af

-18w-19s See 17f

23w-24s‡ See 23f: Lect 7:45-9:00 TTh (w); 11:15-12:30 TTh (s), rec I WTh (s); II MT (s); II MTTh (w); III WF (w); III ThF (s); IV MWF (w); V TTh (w); VI TWF (w); VI MTThF (s); VII MTh (w); VII MW (s)

23s See 23f: Lect 2:15-3:30 TTh, rec I MTh; II W; III MT; IV ThF; V MTWF; VI MTTh

23Hw-24Hs‡ See 23Hf: Lect 7:45-9:00 TTh (w); 11:15-12:30 TTh (s), rec III T (w); II T (s)

23Hs See 23Hf: Lect 2:15-3:30 TTh, rec IX Th

-24w‡ See 23f: Lect 2:15-3:30 TTh, rec I MTh; II W; III MT; IV ThF; V MTWF; VI MTTh

-24Hw‡ See 23Hf: Lect 2:15-3:30 TTh, rec VI T

-51w-52s See 50f

-54w-55s‡ See 53f

-57w-58s‡ See 56f

-60w-61s‡ See 59f

-75w-76s See 74f

-75Aw See 74Af

-80w-81s See 79f

-83Hw Honors Course: History (3 cr, †82H-83H-84H; prereq 82H) VIII-IX W

-88Aw‡ See 87Af

-91w‡ See 90f

92As See 90Af

93Aw American Business History: Colonial to 1890 (3 cr) VI MWF

-94w-95s‡ See 93f

94A American Business History: 1890 to Present (3 cr) VI MWF

-98w‡ See 97f

-101Bw-102Bs See 100Bf

-104Aw-105As‡ See 103Af

-104Bw-105Bs‡ See 103Bf

-107Aw‡ See 106Af

-107Cw-108Cs‡ See 106Cf

-116Aw‡ See 115Af

-116Dw-117Ds‡ See 115Df

118Gw-119Gs‡ The Modern Near East: The Ottoman Empire and the Successor States (3 cr) II MWF

-119Cw-120Cs See 118Cf

119Dw Central Europe: 18th Century to 1867 (3 cr; prereq 3) 12:45-2:00 TTh

120Ds Central Europe: 1867 to Present (3 cr; prereq 3) 12:45-2:00 TTh
-119Ew-120Es See 118Ef
-119Fw-120Fs‡ See 118Ff
-119Jw-120Js‡ See 118Jf
122Aw-123As‡ Economic History of Europe (3 cr) 8:15-9:30 TTh
-122Cw-123Cs See 121Cf
-134Cw See 133Cf
134Ew-135Es‡ See 133Ef
-140Cw-141Cs‡ See 139Cf
-140Fw-141Fs‡ See 139Ff
141Es Social History of American Education (3 cr, §HEd 151; prereq 20, 21, 22 or ‡) 2:15-3:30 TTh
-140Jw-141Js‡ See 139Jf
-143Aw-144As‡ See 142Af
-143Cw-144Cs‡ See 142Cf
-146Aw-147As‡ See 145Af
148Aw-149As‡ History of India (3 cr) IV TTh
148Ew-149Es‡ Chinese History to 1800 (3 cr) V MWF
148Fw-149Fs‡ History of Japan to 1700 (3 cr) VI MWF
-161Aw-162As See 160Af
-161Bw-162Bs See 160Bf
-164Aw-165As See 163Af
-170Cw-171Cs See 169Cf
-170Ew-171Es See 169Ef
-173Aw-174As See 172Af
173Ew Modern European Intellectual History (3 cr; prereq 172E) VII-VIII T
-173Fw-174Fs See 172Ff
-173Gw-174Gs See 172Gf
-179Aw-180As See 178Af
-179Cw See 178Cf
180As Proseminar: English History—Tudor, Stuart Periods (3 cr, †178A-179A-180A; prereq 179A)
180Cs Proseminar: Modern England—1783 to Present (3 cr, †178C-179C-180C; prereq 179C) VIII-IX Th
-182Aw-183As See 181Af
-182Bw-183Bs See 181Bf
-182Dw See 181Df
-182Jw-183Js See 181Jf
184Ew-185Es The Negro in American History (3 cr) 1:30-3:30 W
185Aw See 184Af
-188Aw-189As See 187Af
-188Bw-189Bs See 187Bf
-188Dw-189Ds See 187Df
-188Ew-189Es See 187Ef
-188Fw-189Fs See 187Ff
-188Gw-189Gs See 187Gf
188Jw-189Js Proseminar: American Business History (3 cr) VIII-IX F
-191Aw-192As See 190Af
-194Aw See 193Af
-194Bw-195Bs See 193f
196s Proseminar: East, South Asia (3 cr, §Anth 196, Geog 196, Ortl 196, Pol 196; prereq sr)
200s Historical Bibliography, Criticism (3 cr) VIII-IX F
-211Aw-212As See 210Af
-214Aw-215As See 213Af
222As 17th Century France (3 cr, †222A-223A-224A) VII-VIII W
-232Aw-233As See 231Af
-238Ew-239Es See 237Ef
-244Cw-245Cs See 243Cf
-249Aw-250As See 248Af

HUMANITIES (Hum)

Fall Quarter

1 **Modern World I** (5 cr, §1A or 51)
—1, I MTWThF, JohH 114, Ramsland
—2, I MTWThF, AH 350, Powell
—3, I MTWThF, MurH 311, Kheim
—4, II MTWThF, ForH 115, Todd
—5, III MTWThF, FraH B20, Atkin
—6, IV MTWThF, JohH 122, Toth
—7, IV MTWThF, FraH B20, Hallberg
—8, V MTWThF, JohH 122, Penn
—9, VII MTWThF, JohH 122, Milgrom
—10, VII MTWThF, JohH 114, Griffin
—11, VIII MTWThF, FraH 120, Hult
—12, VIII MTWThF, FraH B20, Brill

1A **Humanities in Modern World** (3 cr, §1 or 51)
—1, II MWF, Arch 60, Scott
—2, VI MWF, Arch 10, Waldauer

2 **Modern World II** (5 cr, §2A or 52; prereq 1, 1A or 51)
—1, II MTWThF, ME 18, Ramsland
—2, VI MTWThF, E 302, Alsen

3 **Modern World III** (5 cr, §3A or 53; prereq 2, 2A or 52)
VII MTWThF, JohH 113, Smaby

4 **Modern World IV** (5 cr, §54; prereq 1 or 1A, 2 or 2A, 3 or 3A)
VI MTWThF, MMA 100, Hallberg

11 **Greek Heritage** (5 cr, §161)
VI MTWThF, JohH 122, Kliger

21 **American Life I** (3 cr, 9 cr max in 21, 22, 23, 71, 72, 73)
—1, II MWF, VH 6
—2, III MWF, VH 6
—3, IV MWF, VH 6, Jones
—4, VI MWF, VH 6

51 **Modern World** (5 cr, §1 or 1A)
—1, II MTWThF, FolH 209, Wood
—2, VI-VII TTh, E 227, Louden

53 **Modern World** (5 cr, §3 or 3A)
VI MTWThF, AE 21, Smaby

54 **Modern World** (5 cr, §4)
—1, II MTWThF, JacH 178, Penn
—2, VI MTWThF, CB(W) 125, Tembeck
—3, VII MTWThF, Arch 145, Hult

55 **Humanities in the Modern World V** (5 cr; prereq 4 or 54)
VII MTWThF, Z 313, Kliger

61 **European Heritage** (5 cr, §11)
—1, I MTWThF, FraH B25, Sutton
—2, III-IV TTh, FraH B25, Louden
—3, VI-VII TTh; ForH 115, Weber

63 **European Heritage** (5 cr, §13)
VII-VIII TTh, E 302, Tracy

131 **Proseminar** (3 cr; prereq sr)
—1, VI-VII M, BA(W) 933, Bryan
—2, VI-VII T, CB(W) 410, Ames
—3, VIII-IX Th, CB(W) 450, Kwiat

131H **Honors Course: Proseminar** (3 cr; prereq sr, △)
VI-VII Th, BA(W) 933, Ames

Winter and Spring Quarters

1w,s See 1f: I or II or III or IV or V or VI or VII or VIII MTWThF

1As See 1Af: VI MWF

1Hw,s Honors Course: Modern World I (5 cr, §1 or 1A; prereq ♯ or △) VIII MTWThF

2w,s See 2f: II or VI MTWThF

-2Aw-3As See 1Af: II or VI MWF (w); II MWF (s)

-2Hw-3Hs Honors Course: Modern World II (5 cr, §2 or 2A; prereq ♯ or △) II-III TTh (w); V MTWThF (s)

3w,s See 3f: VI-VII TTh (w); VII MTWThF (s)

4w,s See 4f: VI MTWThF

12w Roman, Medieval Heritage (5 cr, §162) VI MTWThF

13s Renaissance, Reformation (5 cr, §63) VI MTWThF

22w-23s See 21f

51w-52s‡ See 51f: VI MTWThF

52w-53s‡ See 51f

54w,s See 54f: II or VI or VII MTWThF (w)

55s Humanities in the Modern World V (5 cr; prereq 4 or 54) VII MTWThF

61w-62s‡ See 61f: VII-VIII TTh

-62w-63s‡ See 61f

99w Science and the Humanities (5 cr; prereq jr, sr or ♯) VI MTWThF

-132w-133s‡ See 131f

-132Hw-133Hs‡ See 131Hf

INTERNATIONAL RELATIONS (IntR)

Fall Quarter

90H Honors Course: Sr Honors Seminar (3 cr; prereq IRA maj by ♯)
9:45-11:00 TTh, BA(W) 632, Sapin

Winter and Spring Quarters

91Hs Honors Course: Supervised Research Paper (3 cr; prereq 90H) 9:45-11:00 TTh

JOURNALISM AND MASS COMMUNICATIONS

Journalism (Jour)

Fall Quarter

1 **Intro to Mass Communications** (3 cr; prereq 2nd qtr fr with B Engl avg, 3rd qtr C avg or soph)
Lect I MW, ForH 155, Barden, Charnley
—1, Lab I-II F, MurH 212, Gillmor
—2, Lab I-II F, MurH 210, Charnley
—3, Lab VI-VII T, MurH 210, Lindsay
—4, Lab VI-VII Th, MurH 210, Lindsay
—5, Lab I-II T, MurH 210, Nelson
—6, Lab I-II Th, MurH 210, Hvistendahl
—7, Lab VII-VIII F, MurH 212, McReynolds

6 **Bgn Photojournalism I** (3 cr; prereq soph)
—1, II-IV TTh, MurH 20, Schuneman
—2, VI-VIII TTh, MurH 20, Schuneman

11 **Reporting for Nonmajors** (3 cr; prereq soph, C avg, compl fresh Engl or exempt or Rhet 3)
—1, I MWF, MurH 420, Sim
—2, IV MWF, ForH 261, McReynolds
—3, VI MWF, MurH 420

14 **Reporting** (3 cr; prereq 1 or 13, soph, C avg or ¶Comp 27, type 35 words per min)
—1, I-II TTh, MurH 212, 1 hr ar, Hage
—2, VI-VII TTh, MurH 212, 1 hr ar, Gillmor

16 Mass Communications Law (2 cr, §14; prereq 1)
III TTh, MurH 302, Gillmor

18 **Prin of Advertising** (3 cr; prereq soph, 1, C avg, ¶Comp 27 or 28, up div students ¶1)
IV MWF, MurH 308, Barden

50 Interpretive Reporting (3 cr; prereq soph B avg in 1, 14 or jr, C avg, Comp 27 or 28 or ‡)
I-II MW, MurH 212, 1 hr ar, Gerald

51 News Editing (2 cr; prereq 50 or B avg in 1, 14)
—1, I-II TTh, MurH 206, Hvistendahl
—2, VI-VII TTh, MurH 206, Larson
—3, I-II TTh, MurH 207, Hudson

57 Design, Typography: Advertising (3 cr; prereq min in educ or BA or AFHE or jour advertising maj or ‡)
Lect I T, MurH 308, Wilson
—1, Lab III-IV MW, MurH 315-320, Wilson
—2, Lab VI-VII TTh, MurH 315-320, Wilson
—3, Lab II-III TTh, MurH 315-320, Krummert

60 Graphic Arts: Processes (3 cr; prereq jr)
9:45-11:00 TTh, MurH 308, Wilson

73 Magazine Writing (3 cr; prereq 41 or 50, ‡)
VI MWF, MurH 311, Charnley

78 Public Relations Methods (3 cr; prereq 51 or 56, 73 or 41, 57, 71)
I MWF, MurH 302, Lindsay

79 Advertising Copy Writing (5 cr; prereq 18, 57, 60)
Lect II MWF, ForH 261, Harris
Lab III-IV TTh, MurH 212, Harris, Leinfelder

84 Radio News, Public Affairs (3 cr; prereq 50)
VI MWF, MurH 212, Lindsay

93 Community Newspaper (3 cr; prereq 41 or 51 or ¶)
V MWF, ForH 261, Sim

102 Science Communication (4 cr; prereq 50 or 71 or ‡)
VI MWF, MurH 308, Tichenor

103 Literary Aspects (3 cr; prereq ‡)
III MWF, MurH 302, Hage

107 Adv Projects in Photojournalism (3 cr; prereq 65, ‡)
VII MW, MurH 20, Schuneman, 2 hrs ar

109 History of Journalism (3 cr)
II MWF, MurH 308, Emery

112 Communication, Public Opinion (3 cr; prereq 15 cr soc sci)
III MWF, MurH 308, Tichenor

118 Adv Projects (1-3 cr; prereq sr, jour maj, B avg, ‡)

124 Intl Communications, Foreign Affairs (3 cr, §111; prereq 15 cr soc sci incl up div hist or pol sci...or intl rel rec)
VII MWF, MurH 308, Nixon

140 Interpretation of Contemporary Affairs (3 cr; prereq sr, 51, 15 cr soc sci)
—1, VI TTh, VII T, MurH 311, Emery
—2, VI TTh, VII T, MurH 420, Gerald

161 Advertising: Print Media (3 cr; prereq 18, 57, 79 or ‡ or 41, 57, ‡)
2:15-3:30 TTh, MurH 308, Barden

162 Advertising: Radio, Television Media (3 cr; prereq 18, 79, or ‡)
VII MWF, MurH 311, Barden

163 Advertising: Media Strategy, Analysis (3 cr; prereq sr, 18, 161, 162, ‡ or Mktg 77)
IV MWF, MurH 302, Alarik

177 Contemporary Probs: Freedom of Speech, Press (3 cr; prereq 15 cr soc sci)
VI MWF, MurH 302, Gerald

200 Scope, Methods of Communications Research (3 cr; prereq cons adv)
VIII-IX W, MurH 206, Jones

277 Freedom of Press, Communications Law (3 cr; prereq 177 or ‡) Gerald

290 Probs: Mass Communications (3 cr; prereq ‡)

Winter and Spring Quarters

1w,s See 1f: Lect I MW (w); II MW (s), Labs I-II F (w,s); VI-VII TTh (w); IV-V T (s)

3w Communication in Modern World: Mass Media (3 cr, §Spch 3) 9:45-11:00 TTh

5w,s Visual Communication (3 cr; prereq 3rd qtr freshman) Lect VII MW (w,s); rec VII-VIII ThF (w,s)

6s See 6f: II-IV TTh

11w See 11f: VI MWF

14w,s See 14f: I-II MW; VI-VII TTh (w); I-II TTh or VI-VII TTh (s)

16w,s See 16f

18w,s See 18f: VI MWF (w,s)

41w,s Publications Editing (3 cr; prereq soph, 11 or 13) Lect IV T (w); VI M (s), Labs I-II or VI-VII TTh (w), VI-VII WF (s)

50w,s See 50f: I-II TTh (w); VI-VII TTh (s)

51s See 51f: VI-VII TTh

53w Picture Editing (3 cr; prereq 14 or 18 or ‡) Lect III M, Lab III-IV WF

55w Newspaper Editing (2 cr; prereq 51, ¶56 or ‡) Lect II T, Lab III-IV TTh; VI-VIII W

56w Design, Typography: Editorial (2 cr; prereq 51, ¶55 or ‡) Lect II Th, Lab III-IV TTh; VII-VIII F

57s See 57f: Lect I T, Lab VI-VII TTh; III-IV MW

59w Adv Advertising Typography, Layout (3 cr; prereq 57) VI-VII TTh
60s See 60f
65w Adv Photojournalism I (3 cr, §7; prereq 5) VI-VIII TTh
66s Adv Photojournalism II (3 cr; prereq 65 or ‡) VI-VIII TTh
71w Business News, Feature Writing (3 cr; prereq 41) VI MWF
73w See 73f: VI MWF
74w Magazine Editing (3 cr; prereq 73, ¶156, ‡) VII MWF
79w,s See 79f:
82s Supervision of School Publications (3 cr; prereq 41 or 51) VI MWF
85w Television News, Public Affairs (3 cr; prereq 84) VI MWF
90s Mass Communications, News (3 cr; prereq non-jour maj) III MWF
101w,s Reporting of Public Affairs (3 cr; prereq sr, 51) III MWF (w); IV MWF (s)
106s Critical Writing (3 cr; prereq up div writing course, ‡) VII MWF
110w Topics: History of Journalism (3 cr; prereq 109) II MWF
111s Development of American Broadcasting (3 cr, §120) IV MWF
112s See 112f: III MWF
114w Mass Communication Theory (3 cr; prereq 112) III MWF
115s Communications Analysis: Content, Audiences, Effects (3 cr; prereq intro course stat, ‡...Psy 167 rec) 9:45-11:00 TTh
118w,s See 118f:
121w Mass Media in a Dynamic Society (3 cr; prereq 15 or 18 for jour major or ‡ for others) IV MWF
122Hs Honors Course: Current Communications Probs (3 cr; prereq sr, 51) II TTh
125w Communication Systems of Western World (3 cr; prereq 15 cr soc sci...up div course intl rel rec) VII MWF
126s Communications in Authoritarian Society (3 cr; prereq 15 cr soc sci...up div course in intl rel or compar govt rec) VII MWF
131w Public Opinion, Persuasion (3 cr; prereq 112) IV MWF
-141w See 140f: VI TTh; VII T
142s News Interpretation for Radio, Television (3 cr; prereq 85, 140) VI MWF
143s Interpretation of Science, Technology (3 cr; prereq 102, 112, Phil 160) VII MWF
149w Public Relations Principles (3 cr; prereq sr, 78, 113 or 130 or 15 cr soc sci, ‡) 2:15-3:30 TTh
150s Institutional Public Relations (2 or 3 cr; prereq sr, non-jour maj, ‡) 3:15-4:30 MW
161w See 161f: 2:15-3:30 TTh
162w See 162f: II MWF
163s See 163f: VI MWF
164w,s Current Advertising Developments, Probs (3 cr; prereq sr, 163 or ‡) 2:15-3:30 TTh
190s Adv Probs: Journalistic Writing (3 cr; prereq grad, acceptable writing, ‡)
-201w See 200f
209w-210s Seminar: History of Communications (3 cr; prereq 110 or ‡)
213s Seminar: Mass Communication Theory (3 cr; prereq 113, ‡)
215w Seminar: Communications Analysis (3 cr; prereq 115, 200, 201, stat or ‡) VIII MWF
221 Communication Agencies as Social Institutions (3 cr; prereq ‡) Gillmor
224w-225s Seminar: Intl News Communication, Comparative Journalism (3 cr; prereq 124, 125 or 126, rdg foreign lang)
264s Seminar: Advertising Research (3 cr; prereq 115 or 215 or ‡)
278s Govt, Mass Communications (3 cr; prereq 177, 277 or ‡)
-291w-292s See 290f

LIBRARY SCHOOL (Lib)

Fall Quarter

53 School Library Mgt (3 cr)
6:30-9:00 M, Lib 4A, Bacon, James
101 **Administration** (3 cr)
4:00-5:15 pm MW, Lib 4A, Berninghausen
102 **Reference I** (3 cr)
—1, 9:45-11:00 TTh, Lib 4A, Vander Boom
—2, 4:00-5:15 TTh, Lib 4A
103 **Cataloguing, Classification** (3 cr)
12:45-2:00 TTh, Lib 4A, Samanisky
104 **Selection of Library Materials** (3 cr)
2:15-3:30 TTh, Lib 4A, Freeman
105 **History of Libraries, Librarianship** (3 cr)
III MWF, Lib 4A, Shove
172 Reading Guidance for Adolescents (3 cr; prereq 104)
IV MWF, Lib 4A, Olson
173 Reading Guidance for Adults (3 cr; prereq 104)
4:00-5:15 pm MW, Lib 4B
206 Legal Literature, Research (3 cr, §Law 106; prereq 102, ‡) Greene

241 Mechanization (3 cr; prereq 101, 103 or ‡)
9:45-11:00 TTh, Lib4B, Simonton

260 Literature of Social Sciences (3 cr; prereq 102)
8:15-9:30 am TTh, Lib 4B, Kromer

265 Adv Bibliography (3 cr; prereq 102)
I MWF, Lib 4A, Shove

268 Research Methods in Librarianship (3 cr; prereq ‡)
II MWF, Lib 4A, Olson

295 Research (3 cr; prereq ‡)

296 Research (3 cr; prereq ‡)

297 Research (3 cr; prereq ‡)

Winter and Spring Quarters

74w Materials in the Classroom (3 cr) 6:30-9:00 T

102s See 102f: 8:00-9:15 TTh

103w See 103f: 4:00-5:15 TTh

104s See 104f: 4:00-5:15 TTh

171w,s Reading Guidance for Children (3 cr; prereq 104) 6:30-9:00 M (w); II MWF (s)

172s See 172f: 6:30-9:00 M

241w See 241f: 6:30-9:00 Th

242w,s Intro to Information Retrieval (3 cr; prereq 103 or ‡) 9:30-10:45 TTh (w,s)

243s Adv Information Retrieval (3 cr; prereq 241, 242) 9:30-10:45 TTh

253w,s History of Books, Printing (3 cr; prereq ‡) II MWF (w); 8:00-9:15 TTh (s)

254w The Public Library (3 cr; prereq 101) 2:00-3:15 TTh

255w The College, University Library (3 cr; prereq 101) 8:00-9:15 TTh

256w Special Libraries (3 cr; prereq 101) 3:30-5:30 M

257w School Library Probs (3 cr; prereq 101) II MWF

260s See 260f: II MWF

261w,s Literature of Humanities (3 cr; prereq 102) III MWF (w,s)

265w See 265f: IV MWF

267s Descriptive Bibliography (3 cr; prereq 103, 265 or ‡) 2:30-4:30 Th

268s See 268f: IV MWF

283s Adv Cataloguing, Classification (3 cr; prereq 103) VI MWF

295w,s See 295f

296w,s See 296f

297w,s See 297f

MIDDLE EASTERN LANGUAGES

Arabic (Arab)

Fall Quarter

1 Intro to Arabic Grammar, Reading (5 cr)
II MTWThF, FolH 302, Saada

51 Interm Arabic (4 cr; prereq 3 or ‡)
III MTThF, A 202

54 Dialetic Analysis (3 cr; prereq 5)
I MWF, FolH 305½

61 Arabic Composition (3 cr; prereq 53 or ‡)
IV MWF, FolH 305½

71 Adv Literary Arabic (3 cr; prereq 53 or ‡)
III MWF, FolH 215, Chejne

74 History of the Arabs (3 cr, §Hist 74; prereq ‡)
VII MWF, Arch 140, Chejne

151 Directed Readings (1-3 cr; prereq 53 or ‡)

161 Hispano-Arabic Culture: History of Islamic Spain (3 cr, §Span 161; prereq ‡)
II MWF, FolH 305½, Chejne

191H Honors Course: Research (1-3 cr; prereq 153 or ‡)

Winter and Spring Quarters

-2w-3s See 1f

-52w-53s See 51f

-55w-56s See 54f

-62w-63s See 61f

-72w-73s See 71f

105w Structure of Arabic (3 cr; prereq 2 yrs Arabic or ‡) IV MWF

-152w-153s‡ See 151f

-162w-163s See 161f

-192Hw-193Hs See 191Hf

Hebrew (Hebr)

Fall Quarter

1 Bgn Hebrew (5 cr)
—1, II MTWThF, FolH 108, Paradise
—2, VII MTWThF, FolH 305, Toledano

51 Interm Hebrew (4 cr; prereq 3 or exam)
III MTThF, VH 125, Paradise

104 Post-biblical Literature (3 cr; prereq 53 or ‡)
VI MWF, ForH 50, Toledano

Winter and Spring Quarters

2w See 1f

-52w-53s See 51f

74w-75s Ancient Israel (3 cr, §Hist 74A)
V MWF

-105w-106s See 104f

MUSIC (Mus)

Fall Quarter

1 Introduction (5 cr)
II MTWThF, ScH 108, Goode

1T **Theory** (3 cr)
—1, I MTWThF, ScH 3, Goode
—2, III MTWThF, ScH 3, Oberg
—3, IV MTWThF, ScH 3
—4, VI MTWThF, ScH 3, McSpadden
—5, VII MTWThF, ScH 3, Goode
—6, VIII MTWThF, ScH 3, McSpadden

3T **Theory** (3 cr; prereq 2T)
V MTWThF, ScH 3, McSpadden

4 **Fundamentals** (2 cr; prereq non maj)
—1, I MW, NMA 5, I TTh, MusEd 103, Lauritzen
—2, I MW, MusEd 103, I TTh, WuH 320
—3, II MW, MusEd 103, II TTh, ScH 104, Lauritzen
—4, III MW, NMA 5, III TTh, MusEd 103
—5, IV MW, MusEd 103, IV TTh, NMA 4
—6, V MW, WuH 320, V TTh, MusEd 103, Lauritzen
—7, VI MW, WuH 320, VI TTh, MusEd 103
—8, VII MW, MusEd 103, VII TTh, WuH 320, Lauritzen
—9, VIII MW, ScH 103, VIII TTh, MusEd 103

4T **Theory** (4 cr; prereq 3T)
—1, I MTWThF, ScH 103, Malcolm
—2, II MTWThF, ScH 103, Malcolm
—3, VI MTWThF, ScH 103, Malcolm

6T **Theory** (4 cr; prereq 5T)
V MTWThF, ScH 103, Malcolm

11 Piano (2-4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Freed, Ivory, McNab, Weiser

11A **Piano: Class Lessons** (2 cr; prereq 4 for non maj, ♯ for others)
Mu Hr IV T, ScH 108
—1, III MWF, MusEd 103, McIntyre
—2, V MWF, MusEd 103, McIntyre
—3, VI MWF, MusEd 103, McIntyre
—4, VIII MWF, MusEd 103, McIntyre

12 Voice (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Knowles, Oja, Schuessler

12A **Voice: Class Lessons** (2 cr)
Mu Hr IV T, ScH 108
—1, IV MWF, WuH 7
—2, V MWF, WuH 7
—3, VI MWF, WuH 7
—4, I MWF, WuH 7, King, Schuessler (theatre undergrads only)
—5, III MWF, ShH 115, Corrigan, Schuessler (theatre undergrads only)

13 Violin (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, McSpadden, Sambuco

14 Viola (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, McSpadden, Sieber

15 Cello (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Jamieson

16 Double Bass (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fitch

17 Flute (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Niosi, Opava

18 Oboe (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Angelucci

19 Clarinet or Saxophone (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fitch, Williams

20 Bassoon (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Beckerman

21 Trumpet (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Chenette, Tetzlaff

22 French Horn (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Binstock

23 Trombone (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Weinman, Zellmer

24 Tuba (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Walton

25 Percussion (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Dahlgren, Fine

26 Harp (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Miller

27 Organ (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fleischer

28 Harpsichord (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107

29 Guitar (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107

30 Accordion (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Hane, Malmberg

31 Music Literature (2 cr)
II MWF, WuH 320

34 **History of Music** (3 cr; prereq 3T)
III MTWThF, WuH 320, Laudon

39 Women's Glee Club (1 cr; prereq ♯)
V TTh, NMA 4, 5, Schwartz

40 Orchestra (1 cr; prereq ♯)
7:00 pm T, NMA Stage, VIII-IX MWF, WuH 320, Sieber

43 **Chorus** (1 cr, †3 qtrs; prereq ♯)
—1, IV MWF, NMA 4, 5, 7:00 pm T, SciB 325, Schwartz
—2, VI MWF, NMA 4, 5, 7:00 pm T, SciB 325, Schwartz

43S St Paul Campus Chorus (1 cr; prereq ♯)
IX-X TTh, Hr 102 (StP Campus)

46 Concert Band (1 cr; prereq ♯)
—1, VIII-IX MTWTh, NMA 4, 5, Bencriscutto (Concert Band)
—2, VIII-IX MWF, NMA 4, 5, Bencriscutto (Symphony Band)
—3, VIII-IX MWF, NMA 4, 5, Bencriscutto (Symphony Band I)
—4, VIII-IX TThF, NMA 4, 5, Bencriscutto (Symphony Band II)
—5, VIII-IX WTh, NMA 4, 5, Bencriscutto (All Girl Band)
—6, VIII-IX WThFS, NMA 4, 5, Bencriscutto (Marching Band)

49 Men's Glee Club (1 cr; prereq ♯)
V MWF, NMA 5

51 History of Musical Styles I (4 cr; prereq non-mus maj, 1 or 50)
IV MWThF, WuH 320, Godt

54 Instrumental Ensemble (2 cr)
II MWF, WuH 7, Oberg

57 Chamber Singers (2 cr; prereq ♯)
VII MWF, NMA 5, Schwartz

61 Piano (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Freed, Ivory, McNab, Weiser

62 Voice (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Knowles, Oja, Schuessler

63 Violin (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, McSpadden, Sambuco

64 Viola (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, McSpadden, Sieber

65 Cello (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Jamieson

66 Double Bass (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fitch

67 Flute (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Niosi, Opava

68 Oboe (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Angelucci

69 Clarinet or Saxophone (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fitch, Williams

70 Bassoon (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Beckerman

71 Trumpet (2or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Chenette, Tetzlaff

72 French Horn (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Binstock

73 Trombone (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Weinman, Zellmer

74 Tuba (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Walton

75 Percussion (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Dahlgren, Fine

76 Harp (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Miller

77 Organ (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fleischer

78 Harpsichord (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107

79 Guitar (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107

80 Accordion—Classical (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Hane, Malmberg

84 Form, Analysis (3 cr; prereq 6T)
I MWF, ScH 104, Argento

90 Adv Instrumental Ensemble (2 cr; prereq sr, 62)
II MWF, WuH 7, Oberg

96H Honors Course: Independent Study (2-6 cr; prereq GPA 3.0)

97 Counterpoint (2 cr; prereq 6T)
VI TTh, WuH 320, Fetler

100 Adv Applied Music (2 or 4 cr; prereq entr exam)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107

101A **Voice Production For the Theatre** (2 cr; prereq grad in theatre arts, ‡)
—1, II MWF, ShH 115, Corrigan, Schuessler
—2, III MWF, WuH 7, King, Schuessler

104 American Music (3 cr; prereq 36 or 9 cr Amer hist or Amer studies, ‡)
IV MWF, ScH 104, Riedel

110 Bibliography (3 cr; prereq 36 or 62 or 72 or 99 or ‡)
II MWF, ScH 24, Riedel

112 History of Vocal Art (2 cr; prereq 18 cr in 12 or ‡)
VI TTh, ScH 104, Schuessler

118 Piano Literature (2 cr; prereq 12 cr in 11 or ‡)
VIII TTh, ScH 103, Welser

121 Adv Harmony (2 cr; prereq 6T)
II TTh, ScH 3, Argento

124 History of Opera (3 cr; prereq 9 cr mus hist or art hist or theat hist or European hist from 1600 or ‡)
VII MWF, ScH 104, Argento

127 Composition (2 cr; prereq 99, 123)
VI-VII MW, ScH 203, Fetler

130 Symphonies of Classical Era (3 cr; prereq 6 cr mus hist or art hist or pol hist or Engl or Ger lit since 1750 or ‡)
II TTh, WuH 320, Oberg

130A Early Romantic Music (3 cr; prereq 36 or ‡)
VIII MWF, WuH 1, Riedel

141 Orchestration (2 cr; prereq 6T)
I TTh, ScH 104, Argento

146 Bach Through Beethoven (3 cr; prereq 36)
II MWF, ScH 3, Laudon

147 Opera Workshop (2 cr)
6:30-8:00 pm M, WuH 7, Knowles

164 Baroque Era (3 cr; prereq 36)
VII MWF, WuH 320, Laudon

170 Piano Pedagogy I (2 cr; prereq 2 yrs piano, theory or ‡)
II TTh, MusEd 103, McIntyre

180 Piano Pedagogy II (2 cr; prereq 2 yrs piano, theory or ‡)
IV TTh, MusEd 103, McIntyre

185 Collegium Musicum (1 cr; prereq ‡) Godt

197 Adv Counterpoint (2 cr; prereq 99)
VII TTh, ScH 103, Fetler

204 Graduate Applied Music (4 cr; prereq entr exam)

205 Notation of Polyphonic Music (3 cr; prereq ‡)
IX MWF, ScH 3, Godt

212 Problems (3-9 cr; prereq 110)

227 Seminar: Composition, Orchestration (3 cr)
IV MWF, ScH 203, Fetler

228 Seminar: Composition, Orchestration (3 cr; prereq 227)
IV MWF, ScH 203, Fetler

229 Seminar: Composition, Orchestration (3 cr; prereq 228)
IV MWF, ScH 203, Fetler

Winter and Spring Quarters

1w See 1f: VI MTWThF
1Tw-2Ts See 1Tf: II or V MTWThF (w); III or V MTWThF (s)
2Tw-3Ts See 1Tf
4w,s See 4f
4Tw-5Ts See 4Tf: V MTWThF
5Tw-6Ts See 4Tf
11w,s See 11f
-11Bw-11Cs See 11Af
12w,s See 12f
-12Bw-12Cs See 12Af
13w,s See 13f
14w,s See 14f
15w,s See 15f
16w,s See 16f
17w,s See 17f
18w,s See 18f
19w,s See 19f
20w,s See 20f
21w,s See 21f

22w,s See 22f
23w,s See 23f
24w,s See 24f
25w,s See 25f
26w,s See 26f
27w,s See 27f
28w,s See 28f
29w,s See 29f
30w,s See 30f
-32w-33s See 31f
-35w-36s See 34f
39w,s See 39f
-41w-42s‡ See 40f
43w,s See 43f
-44Sw-45Ss‡ See 43Sf
-47w-48s‡ See 46f: VIII-IX MTWTh (w,s) or MWF (w,s) or TWTh (w) or TThF (s)
49w,s See 49f
50w,s Introduction (5 cr, §1, open to jr, sr non-mus students) II MTWThF
52w History of Musical Styles II (4 cr; prereq non-mus maj, 1 or 50) IV MWThF
53s History of Musical Styles III (4 cr; prereq non-mus maj, 1 or 50) IV MWThF
61w,s See 61f
62w,s See 62f
63w,s See 63f
64w,s See 64f
65w,s See 65f
66w,s See 66f
67w,s See 67f
68w,s See 68f
69w,s See 69f
70w,s See 70f
71w,s See 71f
72w,s See 72f
73w,s See 73f
74w,s See 74f
75w,s See 75f
76w,s See 76f
77w,s See 77f
78w,s See 78f
79w,s See 79f
80w,s See 80f
84w,s See 84f
-91w-92s See 90f
96Hw,s See 96Hf
-98w-99s See 97f
100w,s See 100f
-101Bw-101Cs See 101Af
-105w-106s See 104f
-113w-114s See 112f
-119w-120s See 118f
-122w-123s See 121f
-125w-126s See 124f
-128w-129s See 127f
131w Symphonies of Beethoven (3 cr; prereq 36 or ♯) II TTh
131Aw Late Romantic Music (3 cr; prereq 36 or ♯) VIII MWF
132s Symphonies of Romantic Era (3 cr; prereq 6 cr mus hist or art hist or pol hist or Engl or Ger lit since 1750 or ♯) II TTh
132As Neoromantic Music (3 cr; prereq 36 or ♯) VIII MWF
140w Interpretation of Choral Masterpieces (3 cr; prereq sr, 6T or ♯) II MWF
-142w-143s See 141f
-148w-149s‡ See 147f
161w-162s Band Arranging (3 cr; prereq 6T, 143 or MuEd 65 or ♯) IV T, IV-V Th
-165w-166s See 164f: VII MWF (w); MTWThF (s)
-171w-172s See 170f
-181w-182s See 180f
-186w-187s See 185f
-198w-199s See 197f
204w,s See 204f
206w-207s See 205f
212w,s See 212f
227w,s See 227f
228w,s See 228f
229w,s See 229f

NATURAL SCIENCE (NSci)

Fall Quarter

1 **Orientation** (5 cr, §4 or Biol 1 or 1A or any elem sci, †1-2)
Lect VII MTWThF, Ph 150, Graubard
—1, Lab I M, Ph 246
—2, Lab I T, Ph 246
—3, Lab I W, Ph 246
—4, Lab I Th, Ph 246
—5, Lab I F, Ph 246
—6, Lab II M, Ph 246
—7, Lab II T, Ph 246
—8, Lab II W, Ph 246
—9, Lab II Th, Ph 246
—10, Lab II F, Ph 246
—11, Lab III M, Ph 246
—12, Lab III T, Ph 246
—13, Lab III W, Ph 246
—14, Lab III Th, Ph 246
—15, Lab III F, Ph 246
—16, Lab IV M, Ph 246
—17, Lab IV T, Ph 246
—18, Lab IV W, Ph 246
—19, Lab IV Th, Ph 246
—20, Lab IV F, Ph 246
—21, Lab V M, Ph 246
—22, Lab V T, Ph 246

—23, Lab V W, Ph 246
—24, Lab V Th, Ph 246
—25, Lab V F, Ph 246
—26, Lab VI M, Ph 246
—27, Lab VI T, Ph 246
—28, Lab VI W, Ph 256
—29, Lab VI Th, Ph 246
—30, Lab VI F, Ph 246
—31, Lab VIII M, Ph 246
—32, Lab VIII T, Ph 246
—33, Lab VIII W, Ph 246

4 Physical World (4 cr, †4-5, §1 or elem physical sci; prereq 9th grade alg)
Lab sec assigned first 2 days of class
—1, I MWF, Ph 150, Hobbie
—2, VIII MWF, Ph 150, Werntz

171 Development of Sciences (3 cr; prereq 1 yr HS or coll biological, physical sci or ♯)
IV MWF, ME 214, Graubard

Winter and Spring Quarters

-2w-3s See 1f: VII MTWThF (w); VII MTWThF (s)
4w-5s See 4f: I MWF (w); I MWF (s)
-5w See 4f: I MWF or III MWF
-6s See 4f: Lect V TTh, Lab VI Th, Rec VIII-IX TTh
-173w See 171f: IV MWF
-173s See 171f: IV MWF

PHILOSOPHY (Phil)

Fall Quarter

1 Problems (5 cr; prereq 3rd qtr fr)
Lect III MWF, Ph 150, Matthews
—1, I TTh, ForH 175
—2, II TTh, ForH 50
—3, III TTh, ForH 130
—4, IV TTh, ForH 175
—5, V TTh, ForH 349
—6, VI TTh, ForH 40
Lect VII MWF, ForH 155, Mason
—7, VII TTh, ForH 175
—8, II TTh, ForH 40
—9, III TTh, Ph 131
—10, V TTh, ForH 285

2 Logic (5 cr)
Lect II MWF, Owre 15, Lewis
—1, I TTh, ForH 155
—2, II TTh, ForH 261
—3, III TTh, Owre 12
—4, IV TTh, C 325
—5, V TTh, AE 211
—6, VI TTh, NH 209A
—7, VII TTh, ForH 110
—8, II TTh, SciB 375
—9, IV TTh, ForH 40
—10, V TTh, E 315
—11, VI TTh, ForH 30
—12, VII TTh, ForH 150
Lect VI MWF, Ph 166, Hanson
—13, II TTh, ForH 285
—14, III TTh, ME 102
—15, IV TTh, ForH 175
—16, V TTh, ForH 170
—17, VI TTh, E 215
—18, III TTh, FolH 305

3 Ethics (5 cr; prereq 3rd qtr fr)
Lect I MWF, Arch 125, Murphy
—1, I TTh, ForH 285
—2, II TTh, C 111
—3, III TTh, MinMet 120
—4, V TTh, ME 208
—5, VI TTh, E 217
—6, VII TTh, ForH 175

50 History of Western Philosophy (4 cr)
Lect II MWF, ME 4, Cohen
—1, I T, Ph 131
—2, II T, Owre 111
—3, III T, Ph 166
—4, I Th, Arch 20
—5, II Th, Owre 111

50H Honors Course: History of Western Philosophy (4 cr)
Lect II MWF, ME 4, Cohen
Lab III Th, ForH 349

53 History of Western Philosophy (4 cr)
Lect III MWF, JacH 74, Murphy
—1, I T, ME 106
—2, II T, AH 9
—3, III T, ForH 349
—4, I Th, ME 106
—5, II Th, AH 9

53H Honors Course: History of Western Philosophy (4 cr)
Lect III MWF, JacH 74, Murphy
Lab III Th, Ph 145

90H Honors Course: Seminar (3 cr; prereq honors cand, 6 cr up div courses, △) Terrell

121 Descartes (3 cr; prereq 52 or ♯)
IV MWF, ForH 170, Lewis

130 Berkeley (3 cr; prereq 52, 62H or ♯)
II MWF, ForH 175, Terrell

141 Studies: Contemporary Philosophy—Whitehead (3 cr; prereq 52 or ♯)
III MWF, ForH 285, Hanson

154 Symbolic Logic (4 cr; prereq 2 or ♯)
VI MTWF, ForH 285, Cohen

158 Theory of Knowledge (4 cr; prereq 2 or ♯)
VII MTWF, ForH 285, Feigl

167 Philosophy of History (3 cr; prereq 6 cr phil or 10 cr hist)
III MWF, ForH 130, Mason

260 Seminar: Metaphysics (3 cr; prereq 157 or ‡) Potter
351 Research: History of Philosophy (ar cr; prereq ‡) Matthews

Winter and Spring Quarters

1w See 1f: Lect II MWF; VII MWF, rec I or II or III or IV or V or VI or VII TTh
1s See 1f: Lect III MWF; VII MWF, Rec I or II or III or IV or V or VI or VII TTh
2w,s See 2f: Lect II MWF (s); III MWF (w); VI MWF (w,s), rec I or II or III or IV or V or VI or VII TTh (w,s)
3w,s See 3f: Lect I MWF (w); II MWF (s), rec I or II or III or V or VI or VII TTh
-51w-52s‡ See 50f
51Hw-52Hs‡ See 50Hf: II MWF (w,s); III Th (w,s)
70w Logic of Scientific Reasoning (3 cr; prereq 2) III MWF
-91Hw-92Hs See 90Hf
106w American Philosophy from William James (3 cr; prereq 1 or 1 qtr hist of phil or ‡) II MWF
108s Political, Social Ethics (3 cr; prereq 3 or ‡) 2:15-3:30 TTh
110w History of Ethics: Selected Classical Moralists (3 cr; prereq 3 or 1 qtr hist of phil or ‡) II MWF
116w Plato, Aristotle (3 cr; prereq 50 or ‡) VI MWF
131s Hume (3 cr; prereq 52, 62H or ‡) IV MWF
-142w See 141f: 2:15-3:30 TTh
150s Ethical Theory (3 cr; prereq 3 or ‡) II MWF
151w Aesthetics (3 cr; prereq 3 cr phil or ‡) VI MWF
155w Interm Symbolic Logic (3 cr; prereq 154) III MWF
156s Philosophy of Logic (3 cr; prereq 155 or Math 112A or ‡) III MWF
157s Metaphysics (3 cr; prereq 1 qtr hist or phil or ‡) VI MWF
160s Philosophy of Science (4 cr; prereq 2 or ‡) VII MTWF
162s Philosophy of Language (3 cr; prereq 2 or 6 upper div cr phil or ‡) II MWF
164w Logic of Social Sciences I (3 cr; prereq 15 cr educ or hist or phil or psy or soc sci or ‡) VI MWF
168s Philosophy of Law (3 cr; prereq 1, 2 or ‡) III MWF
171w-172s Philosophies of India I (3 cr; prereq 5 cr phil or 3 cr India courses or ‡) VII MWF
182s Philosophy of Religion (3 cr; prereq 6 cr) III MWF
211w Seminar: Moral Philosophy (3 cr; prereq 150)
219s Seminar: Social, Political Philosophy (3 cr; prereq ‡)
224w-225s‡ Seminar: Epistemology (3 cr; prereq 158 or ‡)
228s Seminar: Logical Theory (3 cr; prereq 155 or ‡)
235s Seminar: Philosophy of Religion (3 cr; prereq 182 or ‡)
244w Seminar: Philosophy of Psychology (3 cr; prereq writ ‡)
-261w See 260f

POLITICAL SCIENCE (Pol)

Fall Quarter

A **State in Modern World** (3 cr)
—1, II MWF, Bo B6, Fogelman
—2, VII MWF, Owre 12, Benjamin
1 **American Govt, Politics** (3 cr, †1-2)
—1, 9:45-11:00 TTh, MNH Aud, Gieske
—2, IV MWF, C 100, RePass
—3, V MWF, Bo B6, Shaw
—4, VIII MWF, Arch 130, Penikis
25 **World Politics** (3 cr)
—1, IV MWF, ME 4, Klein
—2, VI MWF, Bo B6, Riggs
26 **American Foreign Policy** (3 cr)
VI MWF, NH 211, Blue
40 **Contemporary Political Ideologies** (3 cr)
IV MWF, Arch 5, Fogelman
51 Field Work in Politics (3 cr; prereq 2)
9:45-11:00 TTh, SocSci(W) 633, Backstrom
60 Legal Systems (3 cr; prereq jr or ‡)
VII MWF, CB(W) 155, Gerstein
67 **Political Behavior Lab** (2 cr; prereq 167 or ¶)
—1, 3:30-4:30 T, CB(W) 440, Flanigan
—2, 3:30-4:30 T, CB(W) 105, Flanigan
101 American Constitution I (3 cr; prereq 2)
9:45-11:00 TTh, CB(W) 10, Chase
107 **The American Chief Executive** (3 cr; prereq 2 or ‡)
II MWF, CB(W) 250, Eidenberg
115 **State Govt** (3 cr; prereq 2 or ‡)
2:15-3:30 TTh, CB(W) 255, Mitau
116 Intro to Community Politics (3 cr; prereq 2 or ‡)
IV MWF, CB(W) 425, Scott
120 Govt, Economic Order (3 cr; prereq 2 or ‡)
9:45-11:00 TTh, CB(W) 105, Holt

141 **European Govt, Politics** (3 cr, †141-142; prereq B or 12 cr soc sci or ‡)
III MWF, CB(W) 155, Schwarz

148 Government, Politics of African Countries (3 cr; prereq B or 12 cr soc sci or ‡)
11:15-12:30 TTh, CB(W) 145, Pirro

149 **Govt, Politics of South Asia** (3 cr; prereq 6 cr or 12 cr soc sci or ‡)
II MWF, CB(W) 105, Blue

153 Japanese Govt, Politics (3 cr)
11:15-12:30 TTh, CB(W) 105, Benjamin

155 **Latin-American Govt, Politics I** (3 cr; prereq 2 or ‡)
II MWF, CB(W) 215, Klein

160 **American Political Thought** (3 cr; prereq B or 9 cr soc sci or ‡)
IV MWF, ForH 55, Shaw

162 **Recent Political Thought** (3 cr; prereq B or 9 cr soc sci or ‡)
VI MWF, C 325, Cooperman

164 **Ancient Political Thought** (3 cr; prereq B or 9 cr soc sci or ‡)
II MWF, CB(W) 410, Sibley

167 **Political Behavior** (3 cr)
2:15-3:30 TTh, CB(W) 415, Flanigan

175 Diplomacy (3 cr)
12:45-2:00 TTh, CB(W) 5, Penikis

180 Intl Law: Peace (3 cr, †180-181)
9:45-11:00 TTh, CB(W) 150, Gerstein

184 **Intl Politics I** (3 cr)
VII MWF, CB(W) 250, Pirro

187 **Intl Organization I** (3 cr)
III MWF, CB(W) 255, Riggs

200 Scope, Methods I (3 cr; prereq ‡)
—1, 1:15-3:15 MW, SocSci(W) 1450
—2, 1:15-3:15 TTh, BA(W) 468, Sorauf

205A Topics: Development of Political Thought (3 cr; prereq 164 or ‡)
3:15-5:15 M, SocSci(W) 1450, Sibley

212A Contemporary Political Theory (3 cr; prereq ‡)
7:00-9:00 pm W SocSci(W) 1450, Fogelman

214A American Political Thought (3 cr; prereq 160, grad maj Amer Studies or ‡)
8:00-10:00 pm M, SocSci(W) 1450, Sibley

226 Govt, Politics in Latin America (3 cr; prereq 156 or ‡)
3:15-5:15 M, SocSci(W) 1408, Klein

233A Seminar: Research in Comparative Govt, Politics (3 cr; prereq ‡)
1:15-3:15 Th, SocSci(W) 1383, Holt

238A Seminar: Intl Organizations (3 cr; prereq 187 or 188 or ‡)
3:15-5:15 W, SocSci(W) 1383, Riggs

245 Seminar: Diplomacy (3 cr; prereq 175 or 176 or ‡)
3:15-5:15 Th, SocSci(W) 1383, Sapin

252 Seminar: Interest Groups (3 cr; prereq ‡)
3:15-5:15 Th, SocSci(W) 1450, Flanigan

256 Seminar: Political Psychology, Socialization (3 cr; prereq ‡)
10:15-12:15 T, SocSci(W) 1450, RePass

264 Seminar: Local Govt, Politics (3 cr; prereq ‡)
3:15-5:15 M, SocSci(W) 1383, Scott

265 Seminar: Community Power Systems (3 cr; prereq ‡)
3:15-5:15 W, SocSci(W) 1450, Scott

290A Seminar: Constitutional Law (3 cr; prereq 101, 102, 103 or ‡)
3:15-5:15 T, SocSci(W) 1408, Chase

Winter and Spring Quarters

Aw-Bs See Af: III MWF

-Bw See Af: II or VII MWF

1w-2s See 1f: IV or VI MWF (w); II or VII MWF

-2w See 1f: IV or VI or VIII MWF; 9:45-11:00 TTh

25w,s See 25f: VII MWF (w); VI MWF (s)

26w,s See 26f: VI MWF (w); VII MWF (s)

30w,s American Public Policy (3 cr) 2:15-3:30 TTh (w); VI MWF (s)

35s Quantitative Materials in Political Science (3 cr; prereq soph, 2 or B) 9:45-11:00 TTh

40w See 40f: III MWF

61w Legal Systems (3 cr; prereq jr or ‡) VII MWF

80w Natl Govt in United States (3 cr, no soph or students with 2)

81s State, Local Govt, Politics (3 cr, no soph or students with 2)

90Hs Honors Course: Research (3 cr; prereq up div maj, △) VIII-IX MWF

91Hw Honors Course: Senior Honors Seminar (3 cr; prereq 90H) 1:15-3:15 TTh

99Bw Adv Tutorial: Intl Relations (3 cr; prereq jr or sr, 9 cr up div courses, ‡) 11:15-1:15 T

99E Adv Tutorial: American Governmental Systems, Processes (3 cr; prereq jr or sr, 9 cr up div courses, ‡)

102w American Constitution II (3 cr; prereq 101) 9:45-11:00 TTh

103s American Constitution III (3 cr; prereq 101 or 102) 9:45-11:00 TTh

108w Legislative Organization, Procedure (3 cr; prereq 2 or ‡) VI MWF

109s The Judicial Process (3 cr; prereq 2 or ‡) II MWF

117w Community Power Structures (3 cr; prereq 2 or ‡) IV MWF
118s Metropolitan Govt, Politics (3 cr; prereq 2 or ‡) IV MWF
122s Govt, Domestic Public Policy (3 cr; prereq 2 or ‡) 9:45-11:00 TTh
130w-131s Administrative Process I (3 cr; prereq 2 or ‡) III MWF
137w American Political Parties (3 cr; prereq 2 or ‡) VII MWF
138s American Political Campaigns, Elections (3 cr; prereq 2 or ‡) VI MWF
-142w-143s See 141f: III MWF
145w Govt, Politics of Scandinavian Countries (3 cr; prereq 6 cr or 12 cr in soc sci)
146s Social Legislation, Social Institutions in Scandinavian Countries (3 cr; prereq 2 or Soc 1) 9:45-11:00 TTh
150w Govt, Politics of South Asia (3 cr; prereq 149) II MWF
154w Chinese Govt, Politics (3 cr) 11:15-12:30 TTh
156w Latin-American Govt, Politics II (3 cr; prereq 155 or ‡) II MWF
157s Govt, Politics of Developing Areas (3 cr; prereq C or 15 cr combination econ, soc and/or anth) II MWF
158s Bureaucracy, Admin in Developing Countries (3 cr; prereq B or ‡) III MWF
159Aw Comparative Govt Systems: Principles, Problems (3 cr; prereq 6 cr up div course or ‡) VI MWF
160w See 160f: VI MWF
161w Probs of Democracy (3 cr; prereq B or 9 cr soc sci or ‡) IV MWF
161s Probs of Democracy (3 cr; prereq B or 9 cr soc sci or ‡) 11:15-12:30 TTh
162s See 162f: VI MWF
165w Medieval Political Thought (3 cr; prereq B or 9 cr soc sci or ‡) II MWF
166s Early Modern Political Thought (3 cr; prereq B or 9 cr soc sci or ‡) II MWF
168w Political Behavior (3 cr; prereq 167) 2:15-3:30 TTh
176w U S Foreign Affairs Admin (3 cr) 12:45-2:00 TTh
177s U S Foreign Policy (3 cr) 12:45-2:00 TTh
-181w-182s See 180f
185w Intl Politics II (3 cr; prereq 184) VII MWF
186s Regional Intl Systems (3 cr; prereq 185) VII MWF
188w Intl Organization II (3 cr) III MWF
189s Regional Intl Organization (3 cr) IV MWF
196s Proseminar: East, South Asia (3 cr, §Anth 196, Geog 196, Hist 196, Ortl 196; prereq sr)
201w Scope, Methods II (3 cr; prereq ‡) 7:00-9:00 pm Th
-205Bw See 205Af: 3:15-5:15 M
-212Bw See 212Af: 7:00-9:00 pm W
-214Bs See 214Af: 1:15-3:15 T
-220Bw See 220Af: 3:15-5:15 T
222s Government, Politics of Japan (3 cr; prereq 153) 3:15-5:15 T
223w Government, Politics of China (3 cr; prereq 154) 3:15-5:15 M
224s Govt, Politics of India, Southeast Asia (3 cr; prereq 150 or ‡) 7:00-9:00 pm Th
228w Democratic Systems (3 cr; prereq 142) 10:15-12:15 Th
229s Totalitarian Systems (3 cr; prereq 143 or 154) 3:15-5:15 M
230w Politics of Developing Systems (3 cr; prereq 157 or ‡) 9:15-12:15 W
232s Comparative Methodology, Research Design (3 cr; prereq ‡) 3:15-5:15 Th
235Aw-235Bs Seminar: Intl Politics (3 cr; prereq 184 or 185 or ‡) 1:15-3:15 Th
-238Bw See 238Af: 3:15-5:15 W
246w Seminar: Foreign Policy (3 cr; prereq 177 or ‡) 3:15-5:15 Th
250s Public Opinion, Political Participation (3 cr; prereq ‡) 1:15-3:15 F
251w Seminar: Political Parties (3 cr; prereq ‡) 1:15-3:15 T
258Aw-258Bs Research Seminar: Politics, Behavior (3 cr; prereq ‡) 3:15-5:15 M
260w Seminar: Legislative Process (3 cr; prereq ‡) 1:15-3:15 Th
261s Seminar: Executive Process (3 cr; prereq ‡) 1:15-3:15 T
266w Seminar: Public Policy (3 cr; prereq ‡) 1:15-3:15 T
-290Bw‡ See 290Af: 3:15-5:15 T
292s Research Seminar: Constitutional Law (3 cr; prereq ‡) 3:15-5:15 Th
295Bs Jurisprudence (3 cr, †295B-295C; prereq 295A, course in constitutional, admin or intl law) 3:15-5:15 T

PSYCHOLOGY

Personal Orientation (PO)

Fall Quarter

1 How to Study (2 cr but cr does not count towards BA degree)
—1, I MWF, JohH 105
—2, II MWF, JohH 105
—3, VI MWF, JohH105
—4, VII MWF, JohH 105

Winter and Spring Quarters

1w,s See 1f: I MWF (w,s); II MWF (w,s); IV MWF (s); V MWF (w,s); VII MWF (w)

Psychology (Psy)

Fall Quarter

1 Gen Psychology (3 cr, †1-2; prereq soph or 3rd qtr fr with B avg)
—1, I MWF, NMA Aud, CCTV
—2, I MWF, GorC 12 (StP Campus) CCTV
—3, I MWF, GorC 15 (StP Campus) CCTV
—4, I MWF, AgEng 105 (StP Campus) CCTV

4 **Lab Psychology** (2 cr, †4-5; prereq soph, 2 or ¶1-2)
—1, Lect IV T, NH 45, Fox, others
—2, Lect V T, NH 45, Fox, others
—1, Lab III-IV M, WeH 101, Fox, others
—2, Lab V-VI M, WeH 101
—3, Lab VII-VIII M, WeH 101
—4, Lab I-II T, WeH 101
—5, Lab III-IV T, WeH 101
—6, Lab V-VI T, WeH 101
—7, Lab VII-VIII T, WeH 101
—8, Lab IX-X T, WeH 101
—9, Lab III-IV W, WeH 101
—10, Lab V-VI W, WeH 101
—11, Lab VII-VIII W, WeH 101
—12, Lab IX-X W, WeH 101
—13, Lab I-II Th, WeH 101
—14, Lab III-IV Th, WeH 101
—15, Lab V-VI Th, WeH 101
—16, Lab VII-VIII Th, WeH 101
—17, Lab IX-X Th, WeH 101
—18, Lab III-IX F, WeH 101
—19, Lab V-VI F, WeH 101
—20, Lab VII-VIII F, WeH 101

70 Prin of Psychoolgical Measurement (3 cr, §QA 5, Soc 45; prereq 2, 5)
VI MWF, SciB 325, J Campbell

100 **Theories of Learning** (3 cr; prereq 75, students in sequence A, grad exempt)
III MWF, Arch 130, LaBerge

118 **Verbal Behavior** (3 cr; prereq 117 or ‡)
12:45-2:00 TTh, Arch 50, MacCorquodale

125 **Differential Psychology** (3 cr, †125-126; prereq 5 or 70, 5 cr stat)
9:45-11:00 TTh, Arch 25, Dunnette, 3:45-5:00 W (for grad students, honors cand)

135 Counseling Psychology I: History, Theory (3 cr; prereq sr, 9 cr or ¶)
VII MWF, WuH 230, Lofquist

148 **Fundamentals of Physiological Psychology** (3 cr; prereq 2, 5 or Biol 2 or ‡)
V MWF, JacH 74, Roberts

150 Perception (3 cr; prereq 55, 70 or ‡)
VII MWF, AH 150, Pick

156 **Psychology of Advertising** (3 cr; prereq 2, prin of econ)
II MWF, MMA 125, Longstaff

160 Personnel Work (3 cr; prereq 2, 5, or 3 cr in stat, prin of econ or ‡)
III MWF, MMA 125, Longstaff

162 **Social Psychology of Organizations** (3 cr; prereq 9 cr psy)
IV MWF, ME 110, Weick

171 **Clinical Psychology** (3 cr, †171-172; prereq sr, 145, course in mental meas or stat)
VI MWF, ForH 155, Meehl

190 Project (ar cr; prereq sr, ‡)

200 History of Psychology (3 cr; prereq grad in psy, edpsy, cpsy or ‡)
VIII-IX M, WuH 230, Russell

205 Intro to Psychopharmacology (2 cr; prereq 1 course in organ chem, phsl, exper psy, ‡) Heistad, Thompson

207 Adv Social Psychology (2 cr; prereq ‡) Miller, Weick

210 Research Probs (ar cr)

215 Seminar: Areas of Psychology, Related Sciences (ar cr)

218 Practicum in Rehabilitation Counseling Psychology (3 cr; prereq 137, ¶234 or ‡) Lofquist, Matthews, Warnken

221 Seminar: Personality Research (ar cr; prereq ‡) Lykken

224 Seminar: Adv Clinical Child Psychology (1 cr; prereq ‡) Hafner, Quast

227 Seminar: Vocational Rehabilitation Counseling (1 cr; prereq ‡)
IX-X alt F, Psy 109, Warnken

230 Field Work: Psychometric, Applied Psychology (ar cr; prereq written cons)

234 **Case Analysis in Counseling Psychology** (3 cr; prereq 137 or ‡)
9:45-11:00 TTh, Psy 109. Lofquist, Warnken

235 Counseling Psychology Practicum (1-3 cr; prereq 137, ‡) Berdie, others

240 Seminar: Student Personnel Work (1 cr; prereq ‡) Williamson

247 Seminar: Mathematical Behavior Theory (3 cr; prereq ‡)
2:15-3:30 TTh, Psy 109, LaBerge, Yellott

250 Adv Seminar: Vocational Rehabilitation Counseling (1 cr; prereq 229)
VIII-IX alt F, Psy 109, Lofquist

253 Research: Psychopathology (3 cr; prereq 145, 1 yr grad study or ‡) Garmezy

260 Seminar: Industrial, Organizational Psychology (2 cr, †260-261-262; prereq 1 yr grad work or ‡) Dunnette

265 Seminar: Adv Clinical Psychology (1 cr; prereq 172, adv stat, ‡) Hathaway

270 Adv Psychological Measurement (3 cr) VI MWF, SciB 325, J Campbell

275 Seminar: Research in Counseling Psychology (1 cr; prereq ‡) D Campbell

278 Marriage Counseling (3 cr; prereq ‡) Neubeck

281 The Social Psychology of Marriage (ar cr, §Soc 281; prereq ‡) Neubeck

284 Seminar: Psychology of Language (3 cr; prereq ‡) Jenkins

292A **Professional Methods in Clinical Psychology** I (4 cr, §171-172; prereq clin psy program or ‡)
Lect 3:45-5:00 T, JohH 106, Butcher
—1, 3:45-5:00 Th, ForH 346, Butcher, others
—2, 3:45-5:00 Th, ForH 261
—3, 3:45-5:00 Th, VH 307

293A Professional Methods in Clinical Psychology II (4 cr; prereq 292 or ‡)
3:45-5:00 TTh, Psy 109, Meehl, others

294A Professional Methods in Clinical Psychology III (4 cr; prereq 293 or ‡)
3:45-5:00 TTh, ForH 160, Meehl, others

296 Internship in Clinical Psychology (2-4 cr; prereq PhD cand clinical psy, cons of director)

Winter and Spring Quarters

1w-2s See 1f

2w Gen Psychology (3 cr, †1-2; prereq 1) I MWF

4w See 4f: Lect VI T, labs I-II M or W or F or S; III-IV T; V-VI M; VII-VIII T; IX-X T or W or F

5s See 4f: Lect VI T, labs I-II M or W or F; III-IV M or T or Th; V-VI M or W; IX-X T

4-5s See 4f: Lect V MW, labs I-II TTh; III-IV WF; V-VI TTh; VII-VIII MW or TTh; IX-X MW

-5w See 4f: IV T; V T; labs I-II T or Th; III-IV M or W or Th or F or S; V-VI T or W or Th; VII-VIII M or W or Th; IX-X M or Th

-6s See 4f: VI-VII Th

10s Applications of Psychology (3 cr; prereq 2) MWF

55s Sensation, Perception (3 cr; prereq 2) V MWF

70s See 70f: VI MWF

70Hw Honors Course: Prin of Psychological Measurement (3 cr, §QA 5; prereq 2 or 5, ‡) VI MWF

75s Intro to Psychology of Learning (3 cr; prereq 2) I MWF

104w Human Learning A (3 cr; prereq 75, students in sequence A, grad exempt) IV MWF

-105s‡ Human Learning B (3 cr; prereq 75, students in sequence A, grad exempt) IV MWF

117w Analysis of Behavior (3 cr; prereq 75, students in sequence A, grad exemept) 12:45-2:00 TTh

119s Analysis of Complex Behavior (3 cr; prereq 117 or ‡) 12:45-2:00 TTh

120w-121s Personality (3 cr, †120-121; prereq 9 cr psy) 11:15-12:30 TTh

-126w See 125f

127s Intro to Behavioral Genetics (3 cr; prereq 125, 126) 9:45-11:00 TTh

128w-129s Psychology of Learning (3 cr; prereq 75, students in sequence A, grad exempt) III MWF

130w,s Vocational, Occupational Psychology (3 cr; prereq 2, 5 or 5 cr stat) Lect III TTh; lab V-VI or VII-VIII F

132w-133s Motivation (3 cr, †132-133; prereq 9 cr) VI MWF

-136w-137s See 135f

140w Social Psychology (3 cr; prereq 2, 5, 9 cr soc sci) 9:45-11:00 TTh

144w-145s Abnormal Psychology (3 cr; †144-145; prereq 6 or 9 cr, Biol 2 or 12 cr soc sci) VIII MWF

147s Adv Advertising Procedure (3 cr, §Mktg 147; prereq 156) III MWF

149s Neuropsychology of Motivation, Learning (3 cr; prereq 148 or ‡) V MWF

151s Animal Psychology (3 cr; prereq 2, 5) IX MWF

156w See 156f: VII MWF

160w See 160f: VI MWF

161s Psychology of Individual Behavior in Industry (3 cr; prereq 70 or 3 cr stat) 8:15-9:30 TTh

163w Behavior of Organizations (3 cr; prereq 162) IV MWF

168w Quantitative Methods (3 cr; prereq ‡) VIII MWF

169s Quantitative Models for Learning (3 cr; prereq 168 or ‡) VIII MWF

-172w-173s See 171f

190w,s See 190f

206w,s Seminar: Psychopharmacology (1 cr; prereq 205, ‡)

-208-209s See 207f

-211w-212s See 210f

213w Seminar: Philosophical Psychology (3 cr; prereq 202, course in logic or phil, psy PhD cand, ‡) VIII-IX Th

-216w-217s‡ See 215f

-219-220s See 218f

-222w-223s‡ See 221f
-225w-226s See 224f
-228w-229s See 227f
-231w-232s See 230f
-236w-237s See 235f
-241w-242s See 240f
246s Psychoanalytic Theory (3 cr; prereq 145, 172) VII MWF
248w-249s See 247f
-251-w-252s See 250f
-254w See 253f
255w Experimental Psychopathology (3 cr, †255-256; prereq 202 or CPsy 212 or ‡)
256s Experimental Psychopathology (3 cr, †255-256; prereq 255)
-261w-262s See 260f
-266w-267s See 265f
270w,s See 270f
-276w-277s See 275f
-279w-280s See 278f
-282w-283s See 281f
-285w-286s See 284f
-292Bw-292Cs See 292Af
-293Bw-293Cs See 293Af
-294Bw-294Cs See 294Af
296w,s See 296f
299w Tabulating Equipment Lab (1 cr; prereq PubH 111)

PUBLIC ADMINISTRATION (PA)

Fall Quarter

210 Foundations of Public Admin (3 cr)
1:15-3:00 Th, CB(W) 425, Jernberg
240 Development Admin (3 cr)
VIII-IX F, CB(W) 150
265 Intergovernmental Admin Relations (3 cr; prereq ‡)
VIII-IX W, BA(W) 735, Rosenthal
270A Public Admin Seminar: Organization Theory, Admin Behavior (3 cr; prereq cons staff)
—1, 3:45-5:45 Th, CB(W) 415, Warp
—2, I-II S, CB(W) 415, Warp
—3, III-IV F, BA(W) 468
270B Public Admin Seminar: Finance (3 cr; prereq cons staff)
3:45-5:45 T, BA(W) 933, Jernberg
280A Seminar: Local Admin (3 cr)
VIII-IX M, CB(W) 425, Peterson
282A Admin Internship (ar cr; prereq ‡)
—1, VI T, SocSci(W) 1383, Jernberg
—2, IV Th, BA(W) 468, Rosenthal
283A Research Seminar: Public Admin (3 cr; prereq ‡) Warp
284A Individual Reading, Research in Public Admin (3 cr; prereq ‡) Warp, others

Winter and Spring Quarters

217s Administrative History (3 cr; prereq 270A) 3:45-5:45 T
224w Social Welfare Admin (3 cr) VIII-IX W
244s Agricultural Admin (3 cr; prereq 270A, ‡) VIII-IX W
247s Urban Development (3 cr; prereq 280A or ‡) I-II S
270Aw See 270Af: 3:45-5:45 M
270Bw,s See 270Bf: III-IV F (w); VIII-IX M (s); III-IV S (w)
270Cw,s Public Admin Seminar: Personnel (3 cr; prereq cons staff) 3:45-5:45 T (w); 3:45-5:45 Th (s); III-IV F (s); III-IV S (s)
273s Topics: Development Admin (3 cr; prereq ‡) VIII-IX F
275w Comparative Public Admin (3 cr; prereq ‡) VIII-IX F
278w Administrative Law (3 cr; prereq ‡) I-II S
-280Bw‡ See 280Af: VIII-IX M
281s Law, Urban Affairs (3 cr) VIII-IX M
282Bw-282Cs See 282Af: 1:15-2:00 T, 2:15-3:00 Th
283Bw-283Cs See 283Af
-284Bw-284Cs See 284Af

ROMANCE LANGUAGES

French (Fren)

Fall Quarter

1 Bgn French (5 cr)
—1, I MWF, FolH 207
III TTh, AE 211, CCTV
—2, I MWF, E 330
VII TTh, AE 211, CCTV
—3, II MWF, MurH 302
III TTh, AE 309, CCTV
—4, II MWF, FolH 308
VII TTh, AE 211, CCTV
—5, II MWF, WuH 130
III TTh, AE 321, CCTV
—6, III MWF, AE 215
VII TTh, AE 317, CCTV
—7, III MWF, AE 313
III TTh, Arch 15, CCTV
—8, III MWF, AE 317
VII TTh, AE 327, CCTV
—9, IV MWF, Pt 214
III TTh, Arch 60, CCTV
—10, IV MWF, FolH 303
VII TTh, Arch 60, CCTV
—11, V MWF, AH 150
III TTh, Bu 123, CCTV

—12, V MWF, Pt 111
VII TTh, VH 303, CCTV
—13, V MWF, FolH 406
III TTh, VH 306, CCTV
—14, VI MWF, FolH 308
VII TTh, VH 306, CCTV
—15, VI MWF, FolH 109
III TTh, VH 307, CCTV
—16, VI MWF, Pt 111
VII TTh, VH 309, CCTV
—17, VII MWF, FolH 308
III TTh, AE 225, CCTV
—18, VII MWF, Pt 214
VII TTh, VH 307, CCTV
—19, VII MWF, SciB 125
III TTh, AE 313, CCTV
—20, VIII MWF, FolH 201
VII TTh, SciB 125
—21, VIII MWF, FolH 308
III TTh, AE 319, CCTV

2 Bgn French (5 cr; prereq 1 or 1 yr HS Fren)
—1, I MTWThF, CD 218
—2, II MTWThF, FolH 202
—3, III MTWThF, FolH 202
—4, IV MTWThF, FolH 201
—5, VI MTWThF, FolH 202

3 Bgn French (5 cr; prereq 2 or 2 yrs HS Fren)
—1, I MTWThF, FolH 202
—2, I MTWThF, FolH 308
—3, I MTWThF, MurH 311
—4, II MTWThF, E 302
—5, III MTWThF, E 302
—6, IV MTWThF, FolH 202
—7, IV MTWThF, FolH 105
—8, V MTWThF, FolH 202
—9, VI MTWThF, Pt 102
—10, VII MTWThF, FolH 201
—11, VIII MTWThF, FolH 105

25 Interm French (5 cr, §old 4; prereq 3 or 3 yrs HS Fren)
—1, I MTWThF, Pt 102
—2, II MTWThF, ForH 349
—3, II MTWThF, Ph 145
—4, III MWF, VH 309, III TTh, MinMet 116
—5, V MTWThF, FolH 209½
—6, VIII MTWThF, FolH 202
—7, V MTWThF, Arch 40
—8, VII MTWThF, FolH 202

25H Honors Course: Interm French (5 cr; prereq 3H or ♯)
VII MTWThF, FolH 203

30 Intro to Literary Texts (3 cr; prereq 25 or 4 yrs HS Fren or ♯)
—1, IV MWF, Bu 125
—2, V MWF, Ph 133
—3, V MWF, Ph 170
—4, VI MWF, Ph 170
—5, VI MWF, AE 321

50 Reading French: Bgn Course for Juniors, Seniors (3 cr, §1; prereq jr)
V MWF, Arch 50

54 Composition (3 cr, §old 103; prereq 25)
—1, II MWF, Bu 123
—2, IV MWF, Ph 143

55 Conversation, Pronunciation (3 cr, §old 54; prereq 25)
—1, II MTThF, FolH 303½
—2, III MTThF, FolH 103
—3, IV MTThF, VH 125
—4, V MTThF, Bu 125
—5, V MTThF, Ph 236A
—6, VI MF, ForH 346, VI TTh, ForH 349

60 Civilization, Culture (4 cr; prereq 25)
II MTWThF, ME 18, Francis

65 Survey of Literature: Rabelais to La Bruyere (3 cr; prereq 30, maj ¶85)
III MWF, AE 319, Francis

65H Honors Course: Survey of Literature—Rabelais to La Bruyere (3 cr; prereq 25H or 30 with A grade, ♯, maj ¶85)
IV MWF, Pt 215, Rydell

85 16th, 17th Century Literature (2 cr; prereq 30 or ♯, ¶65)
—1, V TTh, FolH 107, Rydell
—2, VI TTh, NH 211, Rickert
—3, VI TTh, Ph 166, Kheim

107 Structure of Modern French (3 cr; prereq 57 or ¶ or ♯)
III MWF, ForH 261, Mantini

127 Classical Comedy: Moliere (3 cr)
VI MWF, ForH 261, Francis

132 Symbolist Poets: Verlaine, Rimbaud, Mallarme (2 cr)
V MWF, ForH 346, Salvan

140 18th Century Novel (3 cr)
VIII MWF, FolH 107, Waldauer

153 Balzac (3 cr)
VII MWF, NH 122, Lock

155 Flaubert, Maupassant, Narrative Techniques (3 cr)
IX MWF, FolH 108, Lock

162 LeNouveau Romance: Representative French Novelists of the 50's (3 cr; prereq 30, 1 lit course)
VII MWF, Arch 25, Salvan

190 Directed Readings for Undergrads (1-3 cr; prereq cons dept chairman)

201 Old French (3 cr; prereq 1 yr Lat, 114 or ♯)
VIII MWF, FolH 108, Mouzat

207 Old Provencal (2 cr)
IX TTh, FolH 108, Mouzat

210 Seminar: 18th Century (3 cr)
VII-VIII T, VII Th, FolH 205, Waldauer

250 Seminar (ar cr)
VI TTh, Arch 15, Salvan
259 Directed Readings in Romance Languages (ar cr)

Winter and Spring Quarters

1w-2s See 1f: I or II or III or IV or V or VI or VII MTWThF (w,s); VIII MTWThF (w only)
-2w See 1f: I MWF; II MWF; III MTWThF; IV MWF; V MWF; VI MWF; VII MTWThF; VIII MWF
-3s See 1f: I MWF; II MWF; III MTWThF; IV MWF; V MWF; VI MWF; VII MTWThF; VIII MWF
2Hw-3Hs Honors Course: Bgn French (5 cr; prereq 1 or ‡) V MTWThF
25w,s See 25f: I or II or III or IV or V or VI MTWThF (w); I or II or VI MTWThF (s)
25Hw,s See 25Hf: III MTWThF (w); V MTWThF (s)
30w,s See 30f: IV MWF (w,s); V MWF (w); VI MWF (w,s)
-51w-52s See 50f: V MWF
54w See 54f: III or V MWF
55w,s See 55f: II or III MTThF (w,s); IV MTThF (w only); V MTThF (s); VI MTThF (s only)
57s Adv Composition (3 cr, §old 104-105; prereq 54 or ‡) I or II MWF
58w,s Adv Conversation (3 cr, §old 55; prereq 55 or ‡) I or II MWF (w,s); III MWF (w); IV or V MWF (s)
-61w-62s‡ See 60f
66w Survey of Literature: The Age of Enlightenment (3 cr; prereq 30, maj ¶85) III MWF
66Hw Honors Course: Survey of Literature—The Age of Enlightenment (3 cr; prereq 25H or 30 with A grade or 65H, ‡ maj ¶86) IV MWF
67s Survey of Literature: Romanticism to Surrealism (3 cr; prereq 30, maj ¶87) III MWF
67Hs Honors Course: Survey of Literature—Romanticism to Surrealism (3 cr; prereq 25H or 30 with A grade or 66H, ‡, maj ¶87) IV MWF
86w 18th Century Literature (2 cr; prereq 30 or ‡, ¶66) III or VI TTh
87s 19th, 20th Century Literature (2 cr; prereq 30 or ‡, ¶67) III or VI TTh
105s Stylistics (3 cr; prereq 57 or ‡) V MWF
-108w-109s See 107f
110w Romanticism (3 cr; prereq sr with ‡) VIII MWF
114s Intro to Romance Philology (3 cr; prereq 30 or Ital 25 or Port 25 or Span 30 or ‡) V MWF
126s Classical Tragedy: Racine (3 cr) IX MWF
128s Poetry from d'Aubigne to LaFontaine (3 cr) VII MWF
142s Voltaire (3 cr) VI MWF
158s Proust (2 cr) VIII MWF
159w The Existential Novel (3 cr) VI MWF
165w 20th Century Poetry: Apollinaire, Valery, Eluard (2 cr) VII MWF
-191w-192s See 190f
202w-203s French Literature in the Middle Ages (3 cr; prereq 201) VIII MWF
-208w-209s‡ See 207f
-211w See 210f: VII TTh
-251w-252s See 250f: VIII TTh
-260w-261s See 260f

Italian (Ital)

Fall Quarter

1 Bgn Italian (5 cr, §50)
—1, III MTWThF, FolH 205
—2, III MTWThF, FolH 303
—3, V MTWThF, FolH 205
—4, V MTWThF, FolH 203
—5, VI MTWThF, JohH 122
3 Bgn Italian (5 cr; prereq 2)
IV MTWThF, FolH 107
25 Interm Italian (5 cr; prereq 3 or ‡)
V MTWThF, FolH 209
65 Survey of Literature: Dante to Lorenzo de Medici (3 cr, §old 68; prereq 2 or 5, ‡ for bgn up div students or 3 or 4 for others)
I MWF, FolH 205, Pipa
159 Dante (3 cr; prereq 1 course above 50 or ‡)
IV MWF, FolH 205, Pipa
176 Italian Novel (3 cr; prereq 175)
II MWF, FolH A12, Pipa
190 Directed Readings for Undergraduates (1-3 cr; prereq cons dept chairman), Pipa
259 Directed Readings in Romance Languages (ar cr), Pipa

Winter and Spring Quarters

1w-2s See 1f: IV or VI MTWThF
-2w-3s See 1f
50w Reading Knowledge of Italian (5 cr, §1; prereq rdg knowledge Lat or Romance Lang or ‡) V MTWThF
-66w-67s See 65f

150w Modern Poetry (3 cr, §old 71; prereq 2 or 5, ‡ for bgn up div students or 3 or 4 for others) II MWF
-160w See 159f
172s Modern Drama (3 cr; prereq 1 course above 50) II MWF
174s Petrarch (3 cr; prereq 1 course above 50) IV MWF
-191w-192s See 190f
-260w-261s See 259f

Portuguese (Port)

Fall Quarter

1 **Bgn Portuguese** (5 cr)
—1, II MTWThF, FolH 207, Bretoi
—2, III MTWThF, FolH 203, Bretoi
25 Interm Grammar, Composition (5 cr; prereq 3 or ‡)
IV MTWThF, FolH 203, Hamilton
65 Intro to Literature of Portugal, Brazil (3 cr; prereq 30 or ‡)
VI MWF, FolH 203, Hamilton
190 Directed Readings for Undergrads (1-3 cr; prereq cons dept chairman) Hamilton

Winter and Spring Quarters

-2w-3s See 1f
55s Conversation, Composition (3 cr; prereq 25) IV MWF
-66w-67s‡ See 65f
114s Intro to Romance Philology (3 cr; prereq 25 or Fren 30 or Ital 25 or Span 30 or ‡) IV MWF
-191w-192s See 190f

Spanish (Span)

Fall Quarter

1 **Bgn Spanish** (5 cr, §1A)
—1, I MWF, FolH 104
IV TTh, AE 211, CCTV
—2, I MWF, FolH 109
VIII TTh, AE 211, CCTV
—3, II MWF, FolH 104
IV TTh, AE 313, CCTV
—4, II MWF, TNCD 113
VIII TTh, AE 211, CCTV
—5, III MWF, FolH 104
IV TTh, AE 319, CCTV
—6, I MWF, Pt 215
VIII TTh, AE 317, CCTV
—7, IV MWF, FolH 104
IV TTh, AE 321, CCTV
—8, IV MWF, AE 215
VIII TTh, AE 319, CCTV
—9, V MWF, FolH 104
IV TTh, Arch 15, CCTV
—10, V MWF, FolH 103
VIII TTh, AE 321, CCTV
—11, V MWF, TNCD 113
IV TTh, Arch 45, CCTV
—12, VI MWF, FolH 104
VIII TTh, Arch 25, CCTV
—13, VI MWF, FolH 306
IV TTh, Arch 60, CCTV
—14, VI MWF, TNCD 113
VIII TTh, Arch 60, CCTV
—15, VII MWF, FolH 104
IV TTh, VH 307, CCTV
—16, VII MWF, FolH 109
VIII TTh, Bu 120, CCTV
—17, VII MWF, TNCD 113
IV TTh, VH 309, CCTV
—18, VIII MWF, FolH 102
VIII TTh, ForH 115, CCTV
—19, VIII MWF, FolH 104
IV TTh, VH 306, CCTV
—20, VIII MWF, TNCD 113
VIII TTh, VH 309, CCTV

1A **Bgn Spanish: Conversational** (5 cr, §1)
Dem II MTWThF, FolH 105, Cuneo
—1, Rec I MTWThF, FolH 105
—2, Rec I MTWThF, FolH 103

2 **Bgn Spanish** (5 cr, §2A; prereq 1 or 1 yr HS Span)
—1, I MTWThF, FolH 107
—2, II MTWThF, FolH 201
—3, V MTWThF, Arch 15
—4, VI MTWThF, FolH 105

3 **Bgn Spanish** (5 cr, §3A; prereq 2 or 2 yrs HS Span)
—1, I MTWThF, FolH 201
—2, II MTWThF, FolH 208
—3, III MTWThF, FolH 201
—4, V MTWThF, FolH 105
—5, V MTWThF, FolH 201
—6, VI MTWThF, FolH 201
—7, VI MTWThF, WuH 130
—8, VII MTWThF, FolH 105

25 **Interm Spanish** (5 cr, §old 53; prereq 3 or 3A or 3 yrs HS Span)
—1, II MTWThF, Pt 102
—2, I MTWThF, Arch 140
—3, IV MTWThF, FolH 204
—4, V MTWThF, ChE 240
—5, VI MTWThF, ChE 50

25H **Honors Course: Bgn, Interm** (5 cr)
VI MTWThF, FolH 103

30 Intro to Spanish, Spanish-American Literary Texts (3 cr; prereq 25 or 4 yrs HS Span or ‡)
—1, IV MWF, TNCD 113
—2, IV MWF, Arch 45
—3, V MWF, WuH 230
—4, VI MWF, AE 319

54 Composition (3 cr; prereq 25)
—1, II MWF, E 330
—2, V MWF, E 330

55 Conversation (3 cr; prereq 25)
—1, III MWThF, MurH 311, Hamilton
—2, VI MWThF, ME 321
—3, VII MWThF, FolH 204

57 Adv Composition (3 cr, §old 60; prereq 54)
III MWF, E 330

60 Civilization, Culture (3 cr, §old 90; prereq 30)
III MWF, MinMet 124

65 Survey of Spanish Literature: Poema del Cid to Celestina (3 cr; prereq 30, maj ¶85A)
VI MWF, Bu 125, Rundorff

65H Honors Course: Survey of Spanish Literature—Poema del Cid to Celestina (3 cr; prereq 25H or 30 with grade A, ‡)
IV MWF, Bu 123, Rundorff

74 Literature of Spanish America (3 cr; prereq 30, maj ¶85B)
IV MWF, Arch 20, Floripe

80 Spanish-American Novel, Social Probs (2 cr; prereq jr or ‡, 6 qtrs)
IV TTh, FolH 303½, Cuneo

85A Medieval, Renaissance Spanish Literature (2 cr; prereq 30 or ‡, ¶65)
—1, IV TTh, FolH 305½
—2, VI TTh, JohH 113

85B Colonial American Literature (2 cr; prereq 30 or ‡, ¶74)
—1, IV TTh, FolH 108
—2, V TTh, FolH 207

107 Structure of Modern Spanish (3 cr; prereq 57 or ‡ or ¶57)
IV MWF, MinMet 104, Narvaez

110 19th Century Literature (3 cr; prereq 65, 66, 67)
VII MWF, FolH 108, Pattison

143 Colonial, 19th Century Latin-American Literature (3 cr; prereq 65, 66, 67 or 76)
VI MWF, MinMet 104

155 16th Century Literature: Novel (3 cr; prereq 65, 66, 67)
VIII MWF, FolH 103, Serrano-Plaja

190 Directed Readings (1-3 cr; prereq △)

201 Old Spanish (3 cr; prereq 1 yr Lat, 114 or ‡)
VII Th, VIII TTh, FolH 303, Narvaez

250 Seminar (2 cr)
IX TTh, FolH 204, Serrano-Plaja

253 Seminar: Spanish-American Literature (2 cr)
IX MW, FolH 204, Floripe

259 Directed Readings in Romance Languages (ar cr)

Winter and Spring Quarters

1w-2s See 1f: I or II or III or IV or V or VI or VIII MTWThF

-2w-3s See 1f: I or II or III MWF (w,s); IV MTWThF (w,s); V MWF (w,s); VII MWF (w,s); VIII TTh (w,s); VIII MWF (w)

2Aw-3As See IAf: Dem II MTWThF, rec I MTWThF

2Hw-3Hs Honors Course: Bgn, Interm Spanish (5 cr; prereq 1, ‡) V MTWThF

25w,s See 25f: I or III or IV or VI or VII MTWThF (w); III or IV or V MTWThF (s)

25Hw,s See 25Hf: V MTWThF

30w,s See 30f: III or IV or V or VI MWF (w); IV or VI MWF (s)

54w,s See 54f: I or II MWF (w); IV MWF (w,s)

55w,s See 55f: V or VI MWThF

57s See 57f: III MWF

58w Adv Conversation (3 cr; prereq 55) III MWF

-61w-62s‡ See 60f

63w Latin-American Civilization, Culture (4 cr, §old 70; prereq 60 or ‡) III TWThF

64s Latin-American Civilization, Culture (4 cr; prereq 60 or ‡) III TWThF

66w Survey of Spanish Literature: The Golden Age (3 cr; prereq 30, maj ¶86A) VI MWF

66Hw Honors Course: Survey of Spanish Literature—The Golden Age (3 cr; prereq 25H or 30 with grade A or 65H or ‡) IV MWF

67s Survey of Spanish Literature: Neoclassicism to Early 20th Century (3 cr; prereq 30, maj ¶87A) VI MWF

67Hs Honors Course: Survey of Spanish Literature—Neoclassicism to Early 20th Century (3 cr; prereq 25H or 30 with grade A or 66H, ‡, maj ¶87A) IV MWF

-75w-76s‡ See 74f

79s Century of Latin-American Thought: 1850-1957 (3 cr; prereq jr or ‡, 6 qtrs) IV TTh

-81w‡ See 80f

86Aw Literature of Golden Age (2 cr; prereq 30 or ‡, ¶66) IV TTh

86Bw Romanticism to Modernismo (2 cr; prereq 30 or ♯, ¶75) IV or V TTh
87As Modern Spanish Literature (2 cr; prereq 30 or ♯, ¶67) IV TTh
87Bs Contemporary Latin-American Literature (2 cr; prereq 30 or ♯, ¶76) IV or V TTh
105s Spanish Stylistics (3 cr; prereq 57) VI MWF
-108w-109s See 107f
-111w-112s See 110f
114s Intro to Romance Philology (3 cr; prereq 30 or Fren 30 or Ital 25 or Port 25 or ♯) V MWF
120w The Ballad (3 cr; prereq 65, 66, 67) VI or VII T
131s Picaresque Novel (3 cr; prereq 65, 66, 67) V MWF
-144w-145s‡ See 143f
-156w-157s See 155f
-191w-192s See 190f
202w Spanish Literature in the Middle Ages (3 cr; prereq 201) VII Th; VIII TTh
203s Spanish Literature in the Middle Ages (3 cr; prereq 202) VII Th, VIII TTh
251w-252s See 250f
-254w-255s See 253f
-260w-261s‡ See 259f

SCANDINAVIAN

Danish (Dan)

Fall Quarter

1 Bgn Danish (5 cr)
V MTWThF, Fol 303½, Bomash
4 Interm Danish (5 cr; prereq 3)
VI MTWThF, FolH 302, Bomash

Winter and Spring Quarters

-2w-3s See 1f
50w Adv Composition (3 cr; prereq 4) VI MWF
51s Reading Prose (3 cr; prereq 4) VII MWF

Finnish (Fin)

Fall Quarter

1 Bgn Finnish (5 cr)
VIII MTWThF, FolH 303½, Saresvuo

Winter and Spring Quarters

-2w-3s See 1f

Norwegian (Nor)

Fall Quarter

1 Bgn Norwegian (5 cr)
—1, I MTWThF, FolH 204, Jensen
—2, II MTWThF, FolH 204, Wilson
—3, V MTWThF, FolH 204, Skelton
4 Interm Norwegian (5 cr; prereq 3)
III MTWThF, FolH 204, Simpson

Winter and Spring Quarters

-2w See 1f
3s Interm Norwegian (5 cr; prereq 2) I or II or V MTWThF
50w Adv Composition (5 cr; prereq 4) III MWF
51w Reading Prose (3 cr; prereq 4) IV MWF
52s Reading Poetry (3 cr; prereq 4) III MWF

Swedish (Swed)

Fall Quarter

1 Bgn Swedish (5 cr)
—1, I MTWThF, FolH 209, Ronnmark
—2, VI MTWThF, FolH 204, Lundquist
—3, V MTWThF, FolH 303, Saether
4 Interm Swedish (5 cr; prereq 3)
VI MTWThF, FolH 303, Saether

Winter and Spring Quarters

-2w-3s See 1f: I or V or VI MTWThF
50w Adv Composition (3 cr; prereq 4) III MWF
51w Reading Prose (3 cr; prereq 4) IV MWF
52s Reading Poetry (3 cr; prereq 4) III MWF

Scandinavian (Scan)

Fall Quarter

121 Old Norse: Language, Literature (3 cr)
VII-VIII T, FolH 305½, Hasselmo
124 Structure of Scandinavia Languages (3 cr)
VII-VIII Th FolH 305½, Hasselmo
153 Late Medieval, Renaissance Literature (3 cr; prereq Scand maj or min) Simpson
172 Strindberg, The Drama: Revolt, Transition (3 cr; prereq 6 or 12 or 8 cr lit)
IV MWF, FolH 209½, Gustafson
191 Readings (3 cr; prereq 6 or 12)
209 Research: Scandinavian Linguistics (2-3 cr) Hasselmo

212 Research: Scandinavian Literature (2-3 cr)
215 Scandinavian Romanticism (3 cr) Gustafson
218 Late 19th Century Literature (3 cr) Gustafson
224 Interpretative Probs in Ibsen (3 cr) Simpson

Winter and Spring Quarters

-122w-123s See 121f: VII-VIII T
125w History of Scandinavian Languages (3 cr; prereq 1 Germanic lang other than modern Engl) VII-VIII Th
126s Seminar: Scandinavian Linguistics (3 cr; prereq 124, 125) VII-VIII Th
161w Late 19th Century Novel (3 cr; prereq 6 or 12 or 8 cr lit) II MWF
162s Novel: Contemporary Trends (3 cr; prereq 6 or 12 or 8 cr lit) II MWF
171w Ibsen, Bgn of Modern Drama (3 cr; prereq 6 or 12 or 8 cr lit) IV MWF
173s Contemporary Theater (3 cr; prereq 6 or 12 or 8 cr lit) IV MWF
-192w-193s See 191f
-210w-211s See 209f
-213w-214s See 212f
-225w-226s See 224f

SLAVIC AND EAST EUROPEAN LANGUAGES

Polish (Plsh)

Fall Quarter

1 Bgn Polish (5 cr)
II MTWThF, TSF 103, Zamojska
4 Interm Polish (3 cr; prereq 3 or ♯)
III MWF, TSF 103, Zamojska

Winter and Spring Quarters

-2w-3s See 1f
-5w-6s See 4f

Russian (Russ)

Fall Quarter

1 Bgn Russian (5 cr)
—1, I MTWThF, FolH 208
—2, II MTWThF, Arch 140
—3, III MTWThF, Arch 107
—4, V MTWThF, Arch 208
—5, VII MTWThF, Arch 107

4 Interm Russian (3 cr; prereq 3)
—1, II MWF, A 201
—2, VII MWF, FolH 205
56 Conversation (3 cr; prereq 6 or 17 or ♯)
V MWF, FolH 109, Prokopov
61 Composition (2 cr; prereq 6 or 17 or ♯)
I TTh, FolH 203, Alexeev
71 Readings in Literature (3 cr; prereq 6 or ♯)
VIII MWF, FolH 109, Prokopov
75 Civilization, Culture (3 cr; prereq 10 cr hist or lit)
III MWF, FolH 302, Donchenko
103 Syntax, Composition (2 cr; prereq 63)
III TTh, TSF 103, Alexeev
107 Structure of Modern Russian (3 cr; prereq 4-5-6 or ♯)
V MWF, FolH 306, Donchenko
110 Literature in Translation (3 cr; prereq 9 cr lit)
VI MWF, FolH 109, Prokopov
113 Soviet Russian Literature (3 cr; prereq 58 or ♯)
VII MWF, FolH 103, Alexeev
151 Directed Readings (1-3 cr; prereq 73 or ♯) Alexeev

Winter and Spring Quarters

-2w-3s See 1f: I MTWThF, II MTWThF, V MTWThF, VII MTWThF
2Hw Honors Course: Bgn Russian (5 cr; prereq △) III MTWThF
3Hs Honors Course: Bgn Russian (5 cr; prereq 2H) III MTWThF
-5w-6s See 4f
-57w-58s See 56f
-62w-63s See 61f
-72w-73s See 71f
-76w-77s See 75f
-104w-105s See 103f
-108w-109s See 107f
-111w-112s See 110f
-114w-115s See 113f
-152w-153s See 151f

Serbo-Croatian (Serb)

Fall Quarter

1 Bgn Serbo-Croatian (5 cr)
V MTWThF, TSF 103, Sjoberg

Winter and Spring Quarters

-2w-3s See 1f

SOCIAL SCIENCE (SSci)

Fall Quarter

1 Personality (3 cr, ‡ for upper div students)
—1, I MWF, CB(W) 145, Utlaut
—2, II MWF, CB(W) 150, Roshwald
—3, II MWF, CB(W) 110, Utlaut
—4, III MWF, CB(W) 220, Utlaut
—5, III MWF, CB(W) 110, Roshwald
—6, IV MWF, CB(W) 215, Roshwald
—7, V MWF, CB(W) 215, Sorem
—8, VI MWF, CB(W) 120, Sykes
—9, VI MWF, Arch 55, Salovesh
—10, VII MWF, Arch 15, Salovesh
—11, 12:45-2:00 TTh, CB(W) 220, Dolan
—12, 2:15-3:30 TTh, CM(W) 220, Dolan

2 Work (3 cr; prereq 1, ‡ for upper div students)
—1, III MWF, CB(W) 215, Dahl
—2, IV MWF, ForH 285, Green
—3, VI MWF, CB(W) 415, Riggi

3 Community (3 cr; prereq 1 or 2, ‡ for upper div students)
—1, II MWF, CB(W) 120, Horsnell
—2, V MWF, CB(W) 120, Riggi

51 Personality (4 cr, §1)
Lect V MWF, CB(W) 145, Sykes
—1, V T, SocSci 860
—2, V Th, SocSci 860

62 Structure Dynamics of Poverty (3 cr; prereq 9 cr related soc sci)
IV MWF, CB(W) 220, Dahl

71 Selected Topics in the Classics of Social Sciences (3 cr; prereq 15 up div cr soc sci, C+ avg)
2:15-3:30 TTh, CB(W) 440, Cooperman

Winter and Spring Quarters

1w,s See 1f: I or II or III or IV MWF (w,s); V MWF (s only); VI or VII MWF (w,s); 12:45-2:00 TTh (w,s); 2:15-3:30 TTh (w)

2w,s See 2f: I or II or III or IV or V or VI or VII MWF (w); III or IV or VI MWF (s)

3w,s See 3f: II or V MWF (w); II or IV or V or VI MWF (s); 2:15-3:30 TTh (s)

-52w-53s See 51f: Lect 11:15-12:30 TTh (w); V MWF (s), rec V M (w); VII W (w); V T (s); V Th (s)

62w,s See 62f: IV MWF (w); V MWF (s)

-72w-73s See 71f: 3:00-5:30 T (w); 3:30-5:30 Th (s)

SOCIAL WORK (SW)

Fall Quarter

124 Government, Social Welfare (3 cr; prereq Pol 2 or ‡)
2:15-3:30 TTh, CB(W) 10, Rosenthal

201 Special Topics (ar cr) Oren

206 Readings (ar cr; prereq ‡) Oren

210 Field Instruction (ar cr; prereq ¶265 or ¶275) Cohn, Compton, others

215 Field Instruction (ar cr; prereq 212) Compton, Konopka

225 Social Policy, Programs I (4 cr)
Lect I TTh, CB(W) 215, Newhouse
—1, VIII-IX W, SocSci(W) 860, Rapoport
—2, VIII-IX F, SocSci(W) 860, Newhouse
—3, III-IV T, SocSci(W) 1383, Rapoport

241 Seminar: History of Social Work (ar cr)
VI-VII M, SocSci(W) 860 Konopka

248A Concepts of Human Behavior I (3 cr; prereq ¶210 or ‡)
Lect II TTh, CB(W) 220, Saloshin
—1, VI T, SocSci(W) 860, Saloshin
—2, VI T, BA(W) 632, Teeter
—3, VI T, BA(W) 933, Goodman
—4, VI T, CB(W) 115, Kamps

248B Concepts of Human Behavior I (2 cr; prereq 248A)
III-IV Th, CB(W) 230, Kamps

251 Concepts of Human Behavior IV (2 cr; prereq 250)
VIII-IX T, CB(W) 250, Janacek

262 Supervision: Social Group Work (2 cr; prereq 260, 277, ¶215)
III-IV Th, SocSci(W) 860, Cohn

264 Seminar: Social Work Admin (ar cr; prereq 226, 260 or ‡)
II-III S, SocSci(W) 860, Kidneigh

265 Social Casework I (2 or 3 cr; prereq ¶210)
—1, VII T, VI-VIII W, SocSci(W) 1383, Whitmore
—2, VII Th, VI-VII F, SocSci(W) 860, Whitmore

268 Social Casework IV (2 cr; prereq 267, ¶215)
—1, II-III T, SocSci(W) 860, Scott
—2, II-III T, SocSci(W) 328, Gannon

271 Community Organization (2 cr)
—1, VI-VII T, CB(W) 110, Walz
—2, VI-VII Th, CB(W) 110

275 Social Group Work I (2 or 3 cr; prereq SW maj)
VI T, VI-VII Th, CB(W) 450, Cohn, Kamps

278 Social Group Work IV (2 cr; prereq 277, ¶215)
I-II Th, SocSci(W) 860, Konopka

287 Special Studies (ar cr)
VIII-IX Th, CB(W) 250, Hess

298 Seminar: Social Work (ar cr; prereq MSW degree)
VIII-IX M, SocSci(W) 860, Kidneigh

Winter and Spring Quarters

-202w-203s See 201f

207w,s See 206f

-211w-212s See 210f

-216w-217s See 215f

-226w See 225f: I TTh

-227w See 225f: VI-VII T; VIII-IX W; VIII-IX F

228s Social Policy, Programs IV (3 cr; prereq 227) Lect VI Th, rec III-IV Th; III-IV T

242s Seminar: Social Work Education (ar cr; prereq MSW degree) VIII-IX W

249Aw Concepts of Human Growth, Behavior in Practice II (2 cr; prereq ¶211 or ‡) II-III T

-249B Concepts of Human Growth, Behavior in Practice II (2 cr; prereq 249A) VI-VII Th

250s Concepts of Human Growth, Behavior Practice III (2 cr; prereq ‡) VIII-IX Th

-252w See 251f: IX-X Th

253s Concepts of Human Growth, Behavior in Practice VI (2 cr; prereq 250A-B, ¶217) VI-VII T

260s Prin of Admin (2 cr) I-II T

263w Admin in Social Group Work (2 cr; prereq 260, 278) II-III S

265s See 265f: III-IV Th

-266w-267s See 265f: VI-VII W or F (w); VII-VIII W or F (s)

-269w-270s‡ See 268f: II-III T (w); I-II T (s)

274w Seminar: Community Organization (ar cr; prereq 271) II-III S

275s See 275f: III-IV Th; 12:45-2:00 TTh

276w Social Group Work II (3 cr; prereq 211, 275) IV T, IV-V Th

277s Social Group Work III (3 cr; prereq 212, 276) III-IV T, VIII Th

279w-280s‡ Social Group Work V (2 cr; prereq 278 or ‡) II-III Th (w); I-II T (s)

285w-286s Special Studies (ar cr) II-III Th (w); I-II Th (s)

-287w,s See 287f: V TThS (w); II-IV S (s)

290w-291s Seminar: Recent Research (ar cr) VI-VII M

-299w-300s See 298f

SOCIOLOGY (Soc)

Fall Quarter

1 **Man in Modern Society** (3 cr)
—1, I MWF, ScH 108, Bennett
—2, II MWF, C 100, McNall
—3, VII MWF, C 100, Tallman
—4, VIII MWF, C 100, Franz

1A **Man in Modern Society** (3 cr; prereq regis AFHE)
II MWF, McNH 227 (StP Campus), Menanteau

1H **Honors Course: Man in Modern Society** (3 cr)
II MWF, BA(W) 933, Nelson

2 **American Community** (3 cr; prereq 1 or 1A or 3)
—1, I MWF, Ph 133, Martindale
—2, V MWF, Ph 150, Zwerman

3 **Social Probs** (3 cr)
—1, I MWF, MNH Aud, Zwerman
—2, II MWF, MNH Aud, Knudson
—3, III MWF, MNH Aud, Hawkinson
—4, VII MWF, MNH Aud, Hawkinson

10 **Laboratory** (2 cr; prereq 1 or ¶1)
VII-VIII T, CB(W) 430, Straus

14A **Rural Sociology** (3 cr; prereq regis AFHE)
V MWF, Hr 102 (StP Campus), Menanteau

45 **Social Statistics** (5 cr, §QA 5, Psy 70)
—1, Lect III MWF, CB(W) 150, CCTV
—2, Lect VI MWF, CB(W) 150, CCTV
—1, Lab I-II TTh, CB(W) 210, Franz, others
—2, Lab III-IV TTh, CB(W) 210, Franz, others
—3, Lab V-VI TTh, CB(W) 210, Franz, others
—4, Lab VII-VIII TTh, CB(W) 210, Franz, others
—5, Lab I-II MW, CB(W) 210, Franz, others
—6, Lab III-IV MW, CB(W) 210, Franz, others
—7, Lab V-VI MW, CB(W) 210, Franz, others
—8, Lab VII-VIII MW, CB(W) 210, Franz, others
—9, Lab IX-X MW, CB(W) 210, Franz, others

53 **Criminology** (3 cr; prereq 1 or 1A or 1H or ‡)
—1, VII MWF, CB(W) 5, Ward
—2, I MWF, CB(W) 10, Finestone

90 **American Social Welfare** (5 cr; prereq 3)
—1, VI MTWThF, CB(W) 230, Milstone
—2, VII MTWThF, CB(W) 215, Milstone

91 Social Work Process (3 cr; prereq 90 or cons maj adv)
—1, VI MWF, CB(W) 220
—2, 9:45-11:00 TTh, CB(W) 145

97H Honors Course: Tutorial, Honors Work in Selected Fields (3 cr; prereq cons maj adv in soc)

118 Delinquent Behavior (3 cr; prereq 53) 9:45-11:00 TTh, CB(W) 410, Monachesi

120 Social Psychology (3 cr; prereq 1 or ‡) 11:15-12:30 TTh, CB(W) 5, Bennett

120H Honors Course: Social Psychology (3 cr; prereq ‡)
VII MWF, CB(W) 150, Stone (for honors, grad students only)

123 Minority Group Relations (3 cr; prereq 1 or ‡)
IV MWF, CB(W) 410, Finestone

125 Opinion, Communication: Social Factors (3 cr; prereq sr, 1 or 120 or Psy 140 or ‡...Psy 167, Jour 115 rec)
2:15-3:30 TTh, CB(W) 230, Gerson

126 Family Development (4 cr; prereq 1, CPsy 80 or ‡)
II-III TTh, CB(W) 140, Aldous

140 Social Organization (3 cr; prereq 1 or ‡)
VI MWF, CB(W) 5, Zwerman

140H Honors Course: Social Organization (3 cr; prereq ‡)
VII MWF, CB(W) 255, Gross (for honors, grad students only)

141 The Family (3 cr; prereq 1 or ‡)
V MWF, CB(W) 5, Johnson

144 Social Stratification, Mobility (3 cr; prereq 1 or ‡)
VI MWF, CB(W) 155, Gerson

145 Urban Sociology (3 cr; prereq 1 or ‡)
III MWF, CB(W) 5, Stone

152 Sociology of Medicine, Medical Institutions (3 cr; prereq 1 or ‡)
VIII MWF, CB(W) 10, Fulton

154 Family in World Perspective (3 cr, §HE 183; prereq 1, Psy 1)
11:15-12:30 TTh, CB(W) 435, Straus

162 Rural Social Institutions (3 cr; prereq 1 or ‡)
VI MWF, CB(W) 250, Donohue

170 Analytical Social Theory (3 cr; prereq 1 or ‡)
IV MWF, CB(W) 5, Martindale

180 Methods of Social Research (3 cr; prereq 45)
VI MWF, CB(W) 235, Ramsey

201 Seminar: Research Probs in Crime, Social Conflict (3 cr, †201-202)
VIII-IX M, SocSci(W) 633, Ward

226 Seminar: Family Development Theory (3 cr; prereq ‡)
VI-VII Th, SocSci(W) 633, Aldous

238 Seminar: Principles (3 cr, †238-239)
VI-VII T, SocSci(W) 633, Stone

270 Seminar: Social Theory (3 cr)
VI-VII M, SocSci(W) 633, Martindale

280 Seminar: Recent Developments in Sociological Research Techniques (3 cr)
VIII-IX Th, SocSci(W) 633, Straus

284 Seminar: Statistical Theory in Relation to Social Theory, Practice (3 cr)
1:30-3:30 F, SocSci(W) 633, Monachesi

290 Seminar: Sociology of Religion (3 cr; prereq 142 or ‡)
VIII-IX T, BA(W) 735, Johnson, McNall

297 Seminar (ar cr)

Winter and Spring Quarters

1w,s See 1f: I or III MWF (w,s); IV or VII MWF (s); V or VII MWF (w)

1Aw,s See 1Af: IV MWF (w,s)

2w,s See 2f: I MWF (w,s); VII MWF (w)

2Hw Honors Course: American Community (3 cr; prereq ‡) V MWF

3w,s See 3f: I or II MWF (w,s); V MWF (w); VI MWF (w,s); VII MWF (s)

3Hs Honors Course: Social Probs (3 cr; prereq ‡) V MWF

10w See 10f

14s Rural Sociology (3 cr) III MWF

14Aw See 14Af

45w,s See 45f: Lect II MWF (w,s); VII MWF (w,s), Lab I-II MTWTh (w,s); III-IV MTWTh (w,s); V-VI MTWTh (w,s); VII-VIII MTWTh (w,s); IX-X MW

53w,s See 53f: II MWF (w,s); VII MWF (w,s)

90w,s See 90f

91w,s See 91f: 9:45-11:00 TTh (w,s); 11:15-12:30 TTh (w); 12:45-2:00 TTh (s)

98Hw-99Hs See 97Hf

100w,s Contemporary Penology (3 cr; prereq 1, 53 or ‡) IV MWF (w); VI MWF (s)

102w,s Adult Parole, Probation (3 cr; prereq 1, 53 or ‡) III MWF (w); 2:15-3:30 TTh (s)

103s Law, Legal System for Correctional, Social Workers (3 cr; prereq regis in sequence C or B or ‡) I MWF

105w Institutional Treatment of Juvenile Delinquents (3 cr; prereq regis in sequence C or B or ‡) 2:15-3:30 TTh

106w Planning (3 cr, §Arch 104 or Econ 110 or Pol 123; prereq sr) 8:15-9:30 TTh

112s World Population Probs (3 cr; prereq 1 or ‡) III MWF

119w Modern Agencies for Control of Juvenile Delinquency (3 cr; prereq 53, 118) I MWF

120w,s See 120f: 11:15-12:30 TTh (w); VII MWF (w,s)
123s See 123f: 11:15-12:30 TTh
126w,s See 126f: VI-VII TTh(w); II-III TTh (s)
140w,s See 140f: VI MWF (w); III MWF (s)
141w,s See 141f: I MWF (s); V MWF (w)
142s See 142f: IV MWF (s)
143w The Newspaper as a Social Institution (3 cr; prereq 1 or ‡) III MWF
144w,s See 144f: II MWF (w); VI MWF (s)
146w Industrial, Occupational Sociology (3 cr; prereq 1, 15 cr soc or psy or pol or econ) IV MWF
148w Comparative Rural Societies: Latin America (3 cr; prereq 20 cr soc, econ or pol sci or ‡) III MWF
150s Sociology of Popular Culture (3 cr; prereq 15 cr in soc) VIII MWF
155s Social Structure, Political Behavior (3 cr; prereq 1) VII MWF
161s Rural Community Analysis (3 cr; prereq sr, 1 or ‡) VI MWF
162w See 162f
171w Social Life, Cultural Change (3 cr; prereq 1 or ‡) IV MWF
172s Backgrounds of Modern Social Thought (3 cr; prereq 1 or ‡) IV MWF
180w,s See 180f: VII MWF (w); VI MWF (s)
182w Statistical Methods (3 cr; prereq 45) VII MWF
184w-185s Field Work, Lab Training in Social Research (3 cr, †184-185; prereq 45, 180) III-IV TTh
187w Quantitative Research Design (3 cr, §Geog 187; prereq 73, Soc 45, ‡) 11:15-12:30 TTh
188s Area Sampling, Analysis (3 cr, §Geog 188; prereq 73, Soc 45, ‡) 11:15-12:30 TTh
-202w See 201f: VII-VIII M (w)
203w Seminar: Research Probs in Juvenile Delinquency (3 cr) 9:45-11:00 TTh
227w-228s Seminar: Contemporary Research on Marriage, Family (3 cr) IX-X T (w); VI-VII Th (s)
233w-234s‡ Seminar: Methods for Evaluation or Social Action Program (3 cr)
-239w See 238f
245s Seminar: Research in Urban Sociology (3 cr) VI-VII T
247w-248s Seminar: Research in Large Scale Organization (3 cr) VIII-IX W
-271w-272s‡ See 270f
281w-282s‡ See 280f
-285w-286s‡ See 284f
-291w-292s‡ See 290f: VIII-IX T (w,s)
-298w-299s‡ See 297f

SPEECH, COMMUNICATION, AND THEATRE ARTS

Speech (Spch)

Fall Quarter

2 Interpersonal Communication (3 cr) 9:45-11:00 TTh, Arch 45, Donald Smith
5 **Fundamentals** (5 cr)
—1, 7:15-8:00 MTWThF, FolH 306, Shapiro, others
—2, 7:15-8:00 MTWThF, FolH 307, Shapiro, others
—3, 7:15-8:00 MTWThF, FolH 406, Shapiro, others
—4, I MTWThF, A 202, Shapiro, others
—5, I MTWThF, FolH 307, Shapiro, others
—6, I MTWThF, ForH 261, Shapiro, others
—7, I MTWThF, FolH 305, Shapiro, others
—8, I MTWThF, FolH 406, Shapiro, others
—9, II MTWThF, AE 309, Shapiro, others
—10, II MTWThF, JohH 114, Shapiro, others
—11, II MTWThF, FraH B20, Shapiro, others
—12, III MTWThF, FolH 406, Shapiro, others
—13, III MTWThF, A 12, Shapiro, others
—14, III MTWThF, Ph 170, Shapiro, others
—15, IV MTWThF, Ph 131, Shapiro, others
—16, IV MTWThF, E 302, Shapiro, others
—17, IV MTWThF, CD 105, Shapiro, others
—18, V MTWThF, VH 309, Shapiro, others
—19, V MTWThF, FraH B1, Shapiro, others
—20, V MTWThF, FolH 307, Shapiro, others
—21, VI MTWThF, Arch 135, Shapiro, others
—22, VI MTWThF, Ex 193, Shapiro, others
—23, I MTWThF, FolH 108, Shapiro, others
—24, VII MTWThF, CD 105, Shapiro, others
5H **Honors Course: Fundamentals** (5 cr; prereq 3rd qtr fr with B avg) III MWF, FolH 307, Bart

6 **Fundamentals** (3 cr; prereq 5, soph, fr with △)
VI MWF, FolH 406, Watson

9 **Freshman Discussion, Debate** (1 cr; prereq fr with C avg)
12:45-2:00 TTh, FolH 306, Brock

50 **Public Speaking** (3 cr, §5; prereq upper div)
—1, I MWF, FolH 306, Ekroth
—2, I MWF, BA(W) 632, Horswill

51 **Adv Public Speaking** (3 cr; prereq 5)
—1, II MWF, FolH 307, Brock
—2, IV MWF, FolH 307, David Smith
—3, VI MWF, FolH 307, Brock

55 **Speech Writing, Platform Speaking** (3 cr; prereq 51 or ‡)
II MWF, FolH 306, Fisher, Piche

61 Intro to Thought, Language in Human Behavior (3 cr, §2; prereq 5)
IV MWF, FolH 406, Shapiro

65 **Radio, Television Speech** (3 cr; prereq 5)
—1, 12:15-2:00 TTh, MurH 302, AE 309, Bart
—2, 2:15-4:00 TTh, MurH 302, AE 309, Browne

66 **Lab Section: Radio, Television Speech** (1 cr; prereq 65 or ¶) Bart, North Ar, (meets with 65 Sept 27 only)

70 **Television Production: Drama** (3 cr; prereq 69)
VII MWF, AE 317, McCoy

81 **Interpretative Reading** (3 cr; prereq 5)
—1, II MWF, FolH 305, Thompson
—2, III MWF, FolH 305, Fredricks
—3, IV MWF, FolH 305, Lippke
—4, V MWF, FolH 305, Hancock
—5, VI MWF, FolH 305, Lippke

82 **Interpretative Reading** (3 cr; prereq 81)
IV MWF, FolH 306, Fredricks

83 **Interpretative Reading** (3 cr; prereq 81)
9:45-11:00 TTh, FolH 306, Hancock

94H Honors Course: Tutorial Seminar (3 cr; prereq grad cand, △)

97 **Intercollegiate Oratory, Debate** (2 cr; prereq soph with C avg, jr)
12:45-2:00 TTh, FolH 308, Brock

97A **Intercollegiate Oratory, Debate** (3 cr; prereq 5)
12:45-2:00 TTh, VH 207, Fisher

101 **Argumentation, Persuasion** (3 cr; prereq 5, Psy 2, 10 cr soc sci)
—1, III MWF, FolH 306, Brock
—2, 12:45-2:00 TTh, FolH 406, Howell

106 **Discussion** (3 cr; prereq 5)
—1, VII MWF, FolH 306, Shapiro
—2, 8:15-9:30 TTh, FolH 306, David Smith

107 **Platform Reading** (3 cr; prereq 83)
2:15-3:30 TTh, FolH 306, Fredricks

109 Classical Rhetoric (3 cr; prereq 5, △)
VII MWF, FolH 307, Scott

170 **Radio, Television Programming** (3 cr; prereq 65 or Th 63 or ‡)
II MWF, Bu 125, Goldstein

181 Readings (ar cr; prereq 5, 6 addtl cr, ‡)

182 Readings (ar cr; prereq 181)

183 Readings (ar cr; prereq 182)

201 Gen Seminar (1 cr; prereq ‡)
VIII W, FolH 306, Shapiro

221 Seminar: Oral Interpretation of Literature (3 cr prereq 83, 105)
3:40-5:40 T, FolH 306, Thompson

291 Research (ar cr)

292 Research (ar cr)

293 Research (ar cr)

Winter and Spring Quarters

2w,s See 2f

4s The Performing Arts (3 cr) II MWF

5w,s See 5f: 7:30 MTWThF (w,s); I or II or III or IV or V or VI or VII MTWThF (w,s)

5Hw,s See 5Hf

6w,s See 6f

9w See 9f

50w,s See 50f

51w,s See 51f

55s See 55f

56w Speech Writing, Platform Speaking (3 cr; prereq 51 or ‡) II MWF

61s See 61f: VI MWF

65w,s See 65f

66w,s See 66f

67w,s Phonetics (3 cr; prereq 5) III MWF

68w Radio Production (3 cr; prereq 65) 9:15-11:00 TTh

69s Radio, Television Production (3 cr; prereq 65) 1:15-3:00 MW

70s See 70f: III MWF

81w,s See 81f: II or III or IV or V MWF (w); II or III or VI MWF (s)

82w,s See 82f: IV MWF (w); V MWF (s); 9:45-11:00 TTh (w)

83w,s See 83f: IV MWF (s); VI MWF (w)

-95Hw-96Hs‡ See 94Hf

97w See 97f

-102w-103s See 101f

105w Theory of Reading, Acting (3 cr; prereq 83, Psy 2) 2:15-3:30 TTh

106w,s See 106f: I MWF (s); VII MWF (w,s); 8:15-9:30 TTh (w)

106Aw Public Speaking, Conference Leadership (3 cr; prereq hosp admin only) III MWF

107s See 107f: 2:15-3:30 TTh

108w Classical Voices of Poetry (3 cr, §Clas 108; prereq 82, 83 or Th 61 or 3 cr Lat or Grk 60 or above or upper div Engl lit or foreign lit or ‡) III MWF

122w Research (3 cr; prereq sr, 5, Psy 2) VII MWF
124s Experiments (3 cr; prereq 5, Psy 2) VII MWF
169s Speech, Language in Human Behavior (3 cr) VI MWF
169Aw Speech, Language in Human Behavior (3 cr; prereq psy nurs students only) IV MWF
170s See 170f: III MWF
171s Adv Television Production I (3 cr; prereq 69) IV MWF
173w Educational Television Production (3 cr; prereq 172 or ‡) II MWF
174s Educational Television Programming, Admin (3 cr; prereq 173 or ‡) II MWF
181w,s-182w,s-183w,s See 181f
201w,s See 201f
204s Seminar: Argumentation (3 cr; prereq 203)
207w Seminar: Persuasion (3 cr; prereq 5, 101, 102, 103, Psy 2, 140, 10 cr soc sci)
-222w-223s‡ See 221f
251-s Seminar: Listening Comprehension (2 cr; prereq undergrad maj spch, ‡) VIII-IX TTh
275w-277s‡ Seminar: Rhetoric (3 cr; prereq 109 or ‡) VIII-IX M (w); 3:40-5:40 T (s)
291w,s-292w,s-293w,s See 291f

Speech Science, Pathology and Audiology (SSPA)

Fall Quarter

99 Intro to Speech Pathology, Audiology (3 cr)
III MWF, Pt 102, McDermott
101 Readings (ar cr; prereq ‡)
102 Readings (ar cr; prereq ‡)
103 Readings (ar cr; prereq ‡)
119 Fundamentals of Sound (3 cr)
II MWF, FolH 406, Ward, Wendahl
120 Anatomy, Physiology of Speech, Hearing Mechanisms (3 cr; prereq 119 or ‡)
VII MWF, FolH 406, Lassman, McDermott
140 Diagnosis, Evaluation of Speech Disorders (4 cr; prereq 99, 121 or ¶, ‡)
VII T, V-VIII Th, FolH 304A, Martin, Stolts
146 Cleft Palate (2 cr; prereq 120, 143)
IX-X W, FolH 303, Starr
147 Rehabilitation of the Laryngectomized (2 cr; prereq 99, 120, ‡)
II TTh, FolH 305, Henrikson
164 Clinical Methods, Practice in Speech Pathology (3 cr, §EdCI 174; prereq sr, 5, 67, 161, 162, 163)
165 Clinical Methods, Practice in Speech Pathology (3 cr, §EdCI 175; prereq sr, 5, 67, 161, 162, 163)
166A Clinical Methods, Practice in Speech Pathology: Cleft Palate (1-3 cr; prereq 141, 142 or ‡) Starr
166B Clinical Methods, Practice in Speech Pathology (1-3 cr; prereq 141, 142 or ‡) Starr
166C Clinical Methods, Practice in Speech Pathology Articulation (1-3 cr; prereq 141, 142 or ‡) McDermott
166D Clinical Methods, Practice in Speech Pathology: Stuttering (1-3 cr; prereq 141, 142 or ‡) Martin
166E Clinical Methods, Practice in Speech Pathology: Neuromuscular Disorders (1-3 cr; prereq 141, 142 or ‡)
166F Clinical Methods, Practice in Speech Pathology: Aphasia (1-3 cr; prereq 141, 142 or ‡) Greenberg
166G Clinical Methods, Practice in Speech Pathology: Laryngectomy (1-3 cr; prereq 141, 142 or ‡) Henrikson
166H Clinical Methods, Practice in Speech Pathology: Hearing Impaired (1-3 cr; prereq 141, 142 or ‡)
170 Hearing Disorders (3 cr; prereq 99, 119 or ‡)
VI MWF, Mayo A675, Lassman
171 **Audiometry I** (4 cr; prereq 99, 119)
III-IV TTh, Mayo A675, Chaiklin
182 Lipreading, Methods (3 cr; prereq 170 or ‡)
183 Language for Hearing Impaired (3 cr; prereq 170 or ‡)
190 Clinical Methods, Practice in Audiology (3 cr; prereq 173 or 174 or ‡) Chaiklin
191 Clinical Methods, Practice in Audiology (3 cr; prereq 173 or 174 or ‡) Chaiklin
192 Clinical Methods, Practice in Audiology (3 cr; prereq 173 or 174 or ‡) Chaiklin
201 Seminar: Adv Probs (3 cr; prereq ‡)
204 Research (ar cr)
205 Research (ar cr)
206 Research (ar cr
224 Seminar: Experimental Phonetics (3 cr; prereq 122) Wendahl
225 Seminar: Experimental Phonetics (3 cr; prereq 122) Wendahl
226 Seminar: Experimental Phonetics (3 cr; prereq 122) Wendahl
245 Seminar: Aphasia (3 cr; prereq 145 or ‡)

248 Seminar: Analysis of Literature in Speech Pathology (3 cr; prereq grad maj or ‡) Henrikson
250 Seminar: Language Retardation (3 cr; prereq ‡) Siegel
271 Selection, Use of Hearing Aids (3 cr; prereq 123, 270 or ‡) Lassman
280 Seminar: Hearing (3 cr; prereq ‡)
283 Seminar: Current Issues on Audiology (3 cr; prereq ‡)
290 Adv Clinical Methods, Practice in Audiology (3 cr; prereq 190, 191, 192, ‡) Chaiklin
291 Adv Clinical Methods, Practice in Audiology (3 cr; prereq 190, 191, 192, ‡) Chaiklin
292 Adv Clinical Methods, Practice in Audiology (3 cr; prereq 190, 191, 192, ‡) Chaiklin

Winter and Spring Quarters

99s See 99f: II MWF
101w,s See 101f
102w,s See 102f
103w,s See 103f
121w Acoustic Phonetics (3 cr; prereq 119, 120 or ¶) II MWF
122s Voice Science (3 cr; prereq 119, 120, 121) II MWF
123s Lab Instrumentation (3 cr)
140w,s See 140f: V-VIII Th (w,s); VIII T (w,s)
141w Stuttering (3 cr; prereq 99 or ‡) III TTh; IV Th
142s Voice Disorders (3 cr; prereq 99, 120 or ‡) VII MWF
143w Articulation Disorders (3 cr; prereq 99, 121 or ‡) II MWF
144w Neuromuscular Disorders (2 cr; prereq 120, 143 or ‡) IX-X W
145s Aphasia (2 cr; prereq 99, 120 or ‡) IX-X Th
150w Speech Retardation (3 cr; prereq 99) VII MWF
164w,s See 164f
165w,s See 165f
166Aw,s See 166Af
166Bw,s See 166Bf
166Cw,s See 166Cf
166Dw,s See 166Df
166Ew,s See 166Ef
166Fw,s See 166Ff
166Gw,s See 166Gf
166Hw,s See 166Hf
170s See 170f: VI MWF
171w,s Audiometry I (4 cr; prereq 99, 119) III-IV TTh
172s Communication Probs of Hearing Impaired (3 cr; prereq 170 or ‡) I MWF
173w Audiometry II (3 cr; prereq 171) VI MWF
174w Speech Audiometry (3 cr; prereq 122, 171 or ‡) III MWF
175w Galvanic Skin Response Audiometry (3 cr; prereq 173)
176w Hearing Science (3 cr; prereq 170 or Psy 55) I MWF
180s Auditory Training (3 cr; prereq 119, 171 or ‡) VII MWF
181w Speech for Hearing Impaired (3 cr; prereq 170 or ‡) IX-X W
190w,s-191w,s-192w-s‡ See 190f
201w,s See 201f
204w,s See 204f
205w,s See 205f
206w,s See 206f
224w,s See 224f
225w,s See 225f
226w,s See 226f
241w Seminar: Stuttering (3 cr; prereq 141 or ‡)
242w Seminar: Voice (3 cr; prereq 142 or ‡)
243s Seminar: Articulation (3 cr; prereq 143 or ‡)
244s Seminar: Neuromuscular Disorders (3 cr; prereq 144 or ‡)
246w Seminar: Cleft Palate (3 cr; prereq 146 or ‡)
247s Seminar: The Laryngectomized (3 cr; prereq 147 or ‡)
249s Seminar: Current Issues in Speech Pathology (3 cr; prereq grad maj or ‡)
270s Diagnosis of Disorders in Auditory System (3 cr; prereq 173, 174, ‡)
271s See 271f
272w Pediatric Audiology (3 cr; prereq 173, 174, ‡)
282s Seminar: Hearing (3 cr; prereq ‡)
283w See 280f
290w,s-291w,s-292w,s‡ See 290f

Theatre (Th)

Fall Quarter

11 **Theatre Arts** (3 cr)
III MWF, ScH 108, Ballet
12 **Theatre Arts Lab** (1 cr; prereq 11 or ¶) Adey
Ar, (meets with 11 on Sept 26 only)
13H Honors Course: Intro to Theatre (1 cr; prereq 11, ‡)
VII W, ShH 115, Ballet, Malcolm
21 **Bgn Acting: Creative Approach** (3 cr; prereq fr with △, soph, 12)
—1, III-IV TTh, WeH 302, Howard
—2, VI-VII TTh, ScH 19, Reynolds

—3, I-II MF, ScH 19, Reynolds
—4, III-IV TTh, ScH 19, Herstand
—5, VI-VII TTh, WeH 302, Chappell

22 **Bgn Acting: Creating a Role** (3 cr; prereq 21)
—1, III MWF, WeH 302, Klein
—2, VI MWF, ScH 19, Herstand

23 **Bgn Acting: Technique** (3 cr; prereq 21 or ‡)
—1, II MWF, WeH 302, Lippincott
—2, IV MWF, WeH 302, Moulton

24 **Stage Make-up** (1 cr; prereq 12)
VIII-IX W, ScH 23, Ramos

34 **Stagecraft: Construction, Painting** (3 cr; prereq soph, 12)
—1, II MF, III MW, WeH 306, Adey
—2, III WF, IV MF, WeH 306, Adey

51A Our Theatre Today (½ cr; prereq undergrad maj or ‡)
VIII Th, ScH 108, Josal

52B Our Theatre Today (½ cr; prereq 53A)
VIII Th, ScH 108, Josal

61 **Adv Acting** (3 cr; prereq 21, students in maj sequence B only)
IV MWF, ScH 19, Klein

74 **Play Production in Secondary School** (3 cr; prereq 12)
V MWF, WeH 306, Adey, lab ar

91 **Scene Design** (3 cr; prereq 12, 34)
III Th, III-IV TS, WeH 306, Josal

92 **Stage Lighting** (3 cr; prereq 12, 34)
V W, VI MWF, ScH 108, Baruch

94H **Honors Course: Tutorial Seminar** (3 cr; prereq honors cand, △)

101 **Theatre Practicum** (2-6 cr; prereq △, ‡)

102 **Theatre Practicum** (2-6 cr; prereq △, ‡)

103 **Theatre Practicum** (2-6 cr; prereq △, ‡)

111 **Stage Direction** (3 cr; prereq sr, 21, 6 cr of 90, 91 or 92, ‡)
—1, VII MWF, NH 304, Whiting
—2, 10:15-11:30 TTh, NH 304, Balk

112 **Stage Direction** (3 cr; prereq 111)
III MWF, NH 304, McCoy, Whiting

113 **Stage Direction** (3 cr; prereq 112)
VI MWF, ShH 105, Howard, Whiting

114 **Theatre Mgt, Promotion** (3 cr; prereq 12 or ‡)
4:15-5:30 MW, WuH 130, Loppnow

115 **Playwriting** (3 cr; prereq 21 or ‡)
2:15-3:30 TTh, FolH 307, Thompson

118 **Stage-fencing, Combat: History, Execution** (1 cr; prereq 12 or ¶, ‡)
—1, VIII-IX T, WeH 302, Dusek
—2, III-IV S, WeH 302, Dusek

121 **Probs: Acting** (3 cr; prereq 61, 62, ‡)
VI-VII MWF, WeH 302, Klein

127 **Production for Lyric Stage** (3 cr; prereq mus maj, ¶Mus 147, 148, 149 or ‡)
VI-VII TTh, WuH 7, Balk

132 **Children's Theatre** (3 cr; prereq 12 or ¶ or ‡)
VII MWF, FolH 207, Graham

135 **Indian Drama** (3 cr, §136; prereq jr, sr or grad)
VII MWF, ForH 261, Gargi

136 **Indian Theatre** (3 cr, §135; prereq jr, sr or grad, theat maj only)
IV MWF, ShH 115, Gargi

171 **History of Theatre** (3 cr; prereq sr, 12, 100, Spch 5 or ‡)
II MWF, WeH 306, Herstand

174 **History, Technique of Stage Movement** (3 cr; prereq 171, 172, 173, ‡)
V MTWThF, WeH 302, Moulton

181 Readings (ar cr; prereq 9 cr in theat, ‡)

182 Readings (ar cr; prereq 9 cr in theat, ‡)

183 Readings (ar cr; prereq 9 cr in theat, ‡)

211 Seminar: Stage Direction (3 cr; prereq 111, 112, 113)
VIII-IX T, ShH 115, Sonkowsky, Whiting

251 Seminar (1 cr; prereq grad)
VIII Th, ShH 115, Ballet

272 Seminar: Dramatic Theory (3 cr; prereq 171, 172, 173, 9 cr dram lit)
VIII-IX M, ShH 102, Ballet

281 Research (ar cr)

282 Research (ar cr)

283 Research (ar cr)

294 Seminar: Visual Arts of Drama (3 cr; prereq theat maj or ‡)
VIII-IX W, WeH 306, Josal

Winter and Spring Quarters

11w,s See 11f

12w,s See 12f

13Hw,s See 13Hf

21w,s See 21f: I-II MF (w,s); I-II TTh (s); III-IV TTh or VI-VII TTh (w,s)

22w,s See 22f: III MWF (w,s); VI MWF (w)

23w,s See 23f: II or IV MWF

24w,s See 24f

34w,s See 34f: II TS; III TThS; IV TS

-52Aw-53As‡ See 51Af: VIII Th

-52Bw-53Bs‡ See 51Bf: VIII Th

61w,s See 61f

62s Adv Acting: Diction, Dialects (3 cr; prereq 61) III MWF

63w,s Radio, Television Drama (3 cr; prereq 21, Spch 5...Spch 65 rec)
I-II TTh (w,s)

-75w-76s See 74f: V TTh; VI T

89s Intro to the Visual Arts of Drama (3 cr, §34, 74, 90, 91, 92; prereq 12) VI MWF; VII F

90w,s Costuming (3 cr; prereq 12, 34) III W; III-IV MF

91w,s See 91f: III W; III-IV MF

92w,s See 92f: III TTh(s); III-IV S (s); V W (w); VI MWF (w)
-95Hw-96Hs‡ See 94Hf
101w,s See 101f
-102w,s‡ See 101f
111w,s See 111f: III-IV TTh (s); VII MWF (w)
-112w-112s See 112f: II MWF (w); VII MWF (s)
-113w-113s See 113f: IV MWF
114w See 114f: VI MWF
-116w See 115f: VI MWF
117s Writing Radio, Television Drama (3 cr; prereq 21, Spch 5 or ♯) VI MWF
-119w-120s‡ See 118f
-122w-123s‡ See 121f: VI-VIII MWF (w); VI-VII MWF (s)
-128w-129s See 127f
131s Creative Dramatics (3 cr; prereq 12 or ¶ or elem ed maj or ♯..21 rec) VII MWF
-172w-173s See 171f
-175w-176s See 174f
-181s-182w,s-183w,s‡ See 181f-182f-183f
190w Adv Probs: Costuming (3 cr; prereq 111, 112 or ♯) VII-IX W
191w Adv Probs: Scene Design (3 cr; prereq 111, 112 or ♯) VII-IX F
192s Adv Probs: Stage Lighting (3 cr; prereq 111, 112 or ♯) VII-IX F
-212w-213s‡ See 211f
215s Seminar: Playwriting (3 cr; prereq 115-116 or ♯) VIII-IX T
252w,s See 251f
271s Seminar: Dramatic Theory (3 cr; prereq 171, 172, 173, 9 cr dram lit) VIII-IX M
-273w‡ See 272f
281w,s-282w,s-283w,s‡ See 281f-282f-283f
290s Seminar: Stage Costuming (3 cr; prereq 90, 190 or ♯) VIII-IX W
292w Seminar: Stage Lighting (3 cr) VIII-IX W

STATISTICS (Stat)

Fall Quarter

90 **Probability, Statistics** (3 cr; prereq differential, integ calc)
90E **Intro to Probability, Statistics** (3 cr; prereq 3rd yr elec engr)
V MWF, ForH 349
121 **Theory** (3 cr; prereq Math 10)
I MWF, Ph 131, Lindgren
131 **Theory** (3 cr; prereq ¶Math 55)
—1, III MWF, ForH 160
—2, III MWF, ForH 175
—3, III MWF, ForH 349
—4, VII MWF, ForH 175
—5, VII MWF, ForH 349
181A Topics: Ranking, Selection (3 cr; prereq 123 or 133, ♯)
11:15-12:30 TTh, ForH 369, Sobel
191 Analysis, Design of Experiments (3 cr; prereq 123 or 133, matrix theory)
VI MWF, ForH 175
201 Theory of Statistical Inference (3 cr; prereq 133, adv calc or 123, ¶132, adv calc)
9:45-11:00 TTh, ForH 175, Buehler
221 Adv Statistical Theory (3 cr; prereq 203 plus sequence in probability, Math 222 or ♯)
3:45-5:00 MW, ForH 261
241A Nonparametric Inference (3 cr; prereq ♯)
2:15-3:30 TTh, ForH 369

Winter and Spring Quarters

41s Intro to Ideas of Statistics (3 cr; prereq Math 10 or ♯) II MWF
90w,s See 90f: I MWF (w); V MWF (s)
90Ew,s See 90Ef: I or V MWF (w,s)
101w Decision Theory (3 cr; prereq Econ 101A or Math 13, 40 or 42 or ♯) II MWF
-122w-123s See 121f: I MWF
-132w-133s See 131f
-181Bw-181Cs‡ See 181Af
-192w-193s See 191f
-202w-203s See 201f
-222w-223s See 221f
241Bw See 241Af

UNATTACHED DEPARTMENTS

College Honors Seminar (CHS)

Fall Quarter

91H Seminar: Poverty in an Affluent Age (2-4 cr; prereq consent of Honors Div)
3:15-5:15 T, SocSci 860, Chambers
92H Seminar: Music, a Science and an Art (2-4 cr; prereq consent of Honors Div)
3:30-5:30 Th, ScH 104, Oberg
93H Seminar: Selected Topics from Elementary Mathematics (2-4 cr; prereq consent of Honors Div)
3:15-5:30 Th, E 4, Cameron
94H Seminar: Biology and the Future of Man (2-4 cr; prereq consent of Honors Div)
3:15-5:00 M, MH 214, Gorham

Winter and Spring Quarters

91Hw Seminar: Developments of Patterns of Symmetry in Living Organisms (2-4 cr; prereq consent of Honors Div) 2:30-4:30 W, Spratt

92Hw Seminar: Muse on Dromedary: The Metaphysical Moment (2-4 cr; prereq consent of Honors Div, ‡) 3:00-5:00 T, McKaron

93Hw Seminar: The Role of Government in Economic Life—In Principle and in History (2-4 cr; prereq consent of Honors Div) 3:00-5:00 Th, Kareken

94Hw Seminar: Ideas to Live By: Why Not Commit Suicide or Become a Hermit? (2-4 cr; prereq consent of Honors Div) 3:30-5:00 T, S Hathaway

91Hs Seminar: Social, Cultural Aspects of Geographic Thought (2-4 cr; prereq consent of Honors Div) 3:00-5:00 W, Broek

92Hs Seminar: Friedrich Nietzsche and Modernity (2-4 cr; prereq consent of Honors Div) 3:30-5:30 M, Taraba

93Hs Seminar: The Role of Science in Modern Society (2-4 cr; prereq consent of Honors Div, ‡) 2:30-5:00 T, O'Connor

94Hs Seminar: A Mirror of Man (2-4 cr; prereq consent of Honors Div) 3:15-5:15 M, Ballet

Linguistics (Ling)

Fall Quarter

1 Intro to Study of Language (3 cr; prereq undergrad)
III MWF, FolH 308, Lehn

151 Readings Course (1-3 cr; prereq maj)

204 Seminar: Methods of Analysis, Theories of Grammar (3 cr, †204-205-206; prereq Clas 107 or ‡) Lehn

Winter and Spring Quarters

-2w-3s See 1f

-152w-153s See 151f

-205w-206s See 204f

COLLEGE OF MEDICAL SCIENCES

ANATOMY (Anat)

Fall Quarter

3 Elem Anatomy (4 cr; prereq 3rd yr nurs, DH, Mort students)
Lect I TThS, Ph 150
—1, Lab VIII-IX T, JacH 388, 390
—2, Lab VIII-IX Th, JacH 388, 390

58 Extremities (5 cr; prereq regis OT or PT, 4)
Lect VI MWF, ChRC 220, Allison
Lab VII-VIII MWF, JacH 388, 390
Rev IX M, ChRC 220

100 Gross Human Anatomy (6 cr, †100-101; prereq med or grad with ‡)
Lect VI MWF, JacH 74, Heggestad, Lazarow, Wells
Lab VII-VIII MWF, JacH 392, 393, 396, 397, 398
Rev IX MWF, JacH 74

103 Human Histology (4 cr, †103-104; prereq med or grad with ‡)
Lect I TF, JacH 74, Carpenter, Lazarow, Sundberg, Wood
—1, Lab II-III TTh, JacH 297, 298
—2, Lab II-III WF, JacH 297, 298
Rev VI Th, JacH 74

105 Microscopic Anatomy (6 cr; prereq dent student)
Lect VI MTWF, Owre 15, Bauer, Dixit
Lab VII-IX MWF, JacH 297, 298

110 Human Neuroanatomy (3 cr; prereq 105 or ‡)
Lect VII MW, JacH 74, Lindall
Lab VI-VII Th, JacH 392, 393

132 Experimental Study of Fetus (ar cr; prereq ‡) Wells

140 Skeletal Tissue Biology (2 cr; prereq ‡) Felts

153 Adv Anatomy (ar cr; prereq ‡)

165 Hematology (4 cr; prereq 103 or Zool 54 or ‡)
Lect VII TTh, JacH 74, Sundberg
—1, Lab V-VI TTh, JacH 297, 298
—2, Lab VIII-IX TTh, JacH 297, 298

201 Research (ar cr; prereq ‡)

205 Seminar (1 cr; prereq ‡)

Winter and Spring Quarters

4s Elem Anatomy (5 cr; prereq MedT, 4th yr nurs, OT, PT students, Biol 2A) I MTWF; lab VIII-IX TTh

27s Anatomy for Physical Education Students (4 cr) Lect V TTh, lab VI-VII TTh

52s Regional Study of Human Gross Anatomy (4 cr; prereq 3, regis Mort) V TTh, lab VI-VII TTh

58s See 58f: Lect I MWF; lab II-III MWF

-101w See 100f: Lect VI MTThF; lab VII-VIII MTThF, rev IX MTThF

-104s See 103f: Lect II MThF; lab III-IV MTThF

107w Human Embryology (4 cr; prereq regis med or grad with ‡) Lect I TF; VI W, lab II-III TWThF

108w-109s Gross Anatomy (6 cr; prereq regis Dent with ‡) Lect I MWF (w), VI MWF (s), lab II-IV MWF (w); VII-IX MWF (s)

111s Human Neuroanatomy (5 cr; prereq 104 or Zool 54, med or grad with ‡) Lect VI MWF, lab VI-VIII TTh; VII-IX MF, rev IX TTh

142s Skeletal Tissue Biology (2 cr; prereq ‡)

154w-155s See 153f: Ar

160s Intro to Histologic, Morphologic Histochemical Technics (2 cr; prereq 104, ‡)

-166w See 165f: Lect VII TTh, lab VIII-IX TTh

167s Seminar: Hematology (1 cr; prereq 166)

-202w-203s‡ See 201f

-206w-207s‡ See 205f

211w Neurocytology (3 cr; prereq 111 or ‡) IV MWF

ANESTHESIOLOGY (Anes)

Fall Quarter

169 Research (ar cr; prereq regis med) Van Bergen, others

181 Externship (ar cr; prereq regis med) Van Bergen, others

182 Externship: Anesthesiology, Respiratory Probs (ar cr; prereq regis med) Van Bergen, others

265 Gen Anesthesia (12 cr)
4:30-6:00 M, Mayo 125, Van Bergen, others

266 Regional Anesthesia (4 cr)
4:30-6:00 M, Mayo 125, Van Bergen, others

267 Preanesthetic, Postanesthetic Evaluation (2 cr)
3:30-4:30 MTWThF, Mayo 125, Van Bergen, others

268 Seminar (2 cr)
4:30-6:00 W, Mayo A675, Van Bergen, others

269 Research (ar cr) Van Bergen

BIOCHEMISTRY (MdBc)

Fall Quarter

30 Physiological Chemistry for Dental Hygiene, Nurs Students (4 cr, §50)
II MTWTh, Owre 12

50 Physiological Chemistry for Nurses (4 cr, §30)
III MTWTh, Owre 113, Dempsey, Smith

100 Biochemistry (8 cr; prereq med, phys, organic chem)
Lect IV MTWThFS, Owre 15
—1, Lab I-III MW, MH 201
—2, Lab I-III ThS, MH 201

104 Physiological Chemistry for Dental Students (5 cr; prereq org chem)
IV MTWThF, Owre 12, Singer

106 Biochemistry (7 cr; prereq phys, org chem, med tech)
Lect III MTWThF, MH 213, Burnham, Dempsey, Edstrom
Lab VII-IX WF, MH 201

141 Gen Biochemistry (3 cr; prereq 1 yr org chem, 2 qtrs physical chem or concurrent regis, ¶145 or △)
I MWF, C 325, Liener, Wetlaufer

145 Gen Biochemistry Lab (2 cr; prereq ¶141)
VI-VIII TTh, MH 201

153 Problems (ar cr; prereq 101)

200 Seminar (1 cr)
V T, MH 213

205 Research (ar cr)

207 Radiotracers, Mineral Metabolism (3 cr; prereq 101 or 144)
VIII MWF, Owre 117, Armstrong, Singer

236 Seminar: Radioisotope (1 cr, §Rad 236)

Winter and Spring Quarters

-101w See 100f: Lect IV MTWThFS, Lab I-III MW; I-III ThS

102w-103s Physiological Chemistry for Veterinary Medicine Students (6 cr; prereq org chem) Lect IV MW (StP Campus) (w), VI TTh (StP Campus) (w); VI TWThF (StP Campus) (s), Labs VI-VIII M (StP Campus) (w); I-III W (StP Campus) (w); VII-IX TTh (StP Campus) (s)

105w Physiological Chemistry for Dental Students (7 cr) Lect VI MTWThF, Lab VII-IX MW

-142w See 141f
144s Gen Biochemistry (3 cr; prereq 142 or 101) Lect I MWF
147s Gen Biochemistry Lab (2 cr; prereq 142s, AnCh 212) Lab I-III, VI-VIII Th
153w,s See 153f
200w,s See 200f
205w,s See 205f
217w Protein Chemistry (3 cr; prereq 101 or 144, PCh 103 or ‡) VIII MWF
218s Physical Methods in Biopolymer Research (3 cr; prereq 217) IX T
236w,s See 236f

LABORATORY MEDICINE

Laboratory Medicine (LMed)

Fall Quarter

172 Human Genetic Traits Including Blood Groups, Serum Protein Polymorphism (3 cr, ¶Anth 172; prereq gen biol, zool or △)
Lect I MF, Mayo C295, Bridges, Yunis
Lab I-II W
180 Probs: Fluid, Electrolyte Metabolism (ar cr; prereq regis med) Benson
181 Probs: Clinical Lab Medicine (ar cr; prereq regis med) Benson
182 Topics: Hematology (ar cr; prereq Anat 166) Benson
183 Topics: Immunology (ar cr; prereq regis med) Benson
185 Clinical Chemistry Seminar (1 cr; prereq ‡)
I T, Hosp EustisAmph, Benson
191 Seminar: Immunology (1 cr; prereq ‡)
VI Th, Mayo C295, Bridges, Yunis
235 Adv Clinical Lab Medicine (ar cr; prereq Anat 166) Benson
236 Research: Clinical Lab Probs (ar cr) Benson
251 Research: Human Genetics (ar cr) Yunis

Medical Technology (MedT)

Fall Quarter

10 Orientation (1 cr; prereq fr only)
—1, IV T, Owre 113, Hovde
—2, IV Th, Owre 113, Hovde
30 Case Presentations (1 cr; prereq soph only)
V T, Hosp EustisAmph, Hovde
70 Clinical Chemistry (10 cr) Bisset
73 Electrocardiography, Basal Metabolism Testing (2 cr) Halsted
75 Clinical Hematology (6 cr) Bordewich
80A Clinical Microbiology (6 cr) Klun
80B Special Clinical Microbiology (3 cr) Klun
83 Blood Bank Techniques (4 cr) Benson
85 Histologic Techniques (3 cr) Samuelson
93 Adv Clinical Practice (12 cr)
93H Honors Course: Adv Clinical Practice (12 cr; prereq ‡)
95 Intro to Medicine, Pathology (2 cr, †95-96-97)
VI TTh, Owre 113, Lundgren
110 Adv Clinical Lab Techniques (5 cr)
130 Elements of Admin (2 cr) Ederer
140 Educational Admin (3 cr) Hovde
150 Topics: Bacteriology (ar cr) Klun
151 Topics: Chemistry (ar cr) Freier
152 Topics: Hematology (ar cr) Gonyea
153 Topics: Immunology (ar cr) Benson
173 Analytical Techniques in Lab Medicine (2 cr; prereq ‡)
VI MW, Mayo C295
185 Clinical Chemistry Seminar (1 cr; prereq ‡)
I T, Hosp EustisAmph

Winter and Spring Quarters

-11w-12s See 10f: IV Th
-31w-32s See 30f
60s Blood Group Serology (2 cr) Lect I F, Labs II-IV F; VII-IX F
61s Intro to Clinical Hematology (3 cr) Lect V MW, Labs VI-VII MW; VIII-IX MW
62s Intro to Clinical Chemistry (4 cr) Lect I MW, Labs II-IV MW; II-IV TTh
63w Intro to Urinalysis (1 cr) Lect V W, Labs VII-VIII W; VII-VIII F
64s Intro to Clinical Microbiology (1 cr) VI F
70w,s See 70f
73w,s See 73f
75w,s See 75f
80Aw,s See 80Af
80Bw,s See 80Bf
83w,s See 83f
85w,s See 85f
93w,s See 93f
93Hw,s See 93Hf
-96w-97s See 95f
-110w-111w,s‡ See 110f
-130w-131w,s‡ See 130f
-140w-141w,‡s See 140f
150w,s See 150f
151w,s See 151f
152w,s See 152f

153w,s See 153f

-174w See 173f

186w-187s Clinical Chemistry Seminar (1 cr; prereq ‡) I T

MEDICINE (Med)

Fall Quarter

104 Intro to Internal Medicine (2 cr; prereq 101, LMed 102)
1:00-2:00 alt W, Hosp ToddAmph, Watson, others

112 Clerkship: Internal Medicine (16 cr; prereq regis med)
8:00-5:00 MTWThFS, Goetz, others

123 Dermatology, Syphilology (2 cr; prereq 101)
4:00-5:00 alt W, Hosp EustisAmph, Lynch, others

124 Senior Clerkship: Dermatology (2 cr; prereq regis med)
8:00-9:00 MTTh, Mayo C391, 1:00-5:00 MT, 1:00-4:00 W, 9:00-11:00 Th, 1:00-5:00 Th, 1:30-2:30 F, 9:00-11:00 S, Hosp EustisAmph, Lynch, others

201 Clinical Medicine (ar cr) Watson, others

202 Diseases of Cardiovascular Apparatus (ar cr) Frantz, others

203 Research (ar cr) Watson, others

205 Diseases of Chest (ar cr) Hall, Lillehei

206 Clinical Conference (1 cr)
9:00-10:00 F, Hosp ToddAmph, Watson, others

207 Clinical Pathological Conference (1 cr)
11:00-12:00 W, Hosp ToddAmph, Dawson, others

208 Clinical Radiological Conference (1 cr)
9:00-10:00 M, Hosp ToddAmph, Peterson, others

210 Seminar: Infectious Disease (1 cr) Spink

211 Electrocardiographic Conference (1 cr) Tuna

214 Seminar: Cardiovascular (1 cr)
4:30-5:30 F, VCHH 150, Wang, others

225 Clinical Dermatology (ar cr) Lynch, others

226 Dermatology (ar cr) Lynch, others

227 Histopathology of the Skin (ar cr) Lynch, others

228 Research: Dermatology (ar cr) Lynch, others

230 Functional Biology of the Skin (ar cr) Lynch, others

MICROBIOLOGY (MicB)

Fall Quarter

53 Gen Microbiology (5 cr; prereq soph with C avg in prereq courses or jr, 10 cr chem, 4 cr biol sci or ‡)
Lect VI MWF, HH 100, Lindorfer
Lab VII-VIII MWF, VetS 325 (StP Campus)

105 Prin of Infectious Disease (6 cr; prereq med or grad, Anat 103, MdBc 100 or 101 or BioC 120)
Lect VI MTTh, IV TTh, MMA 125, Brand
Lab II-III TTh, Mayo A 205

124 Prin of Virology, Animal Cell Culture (3 cr; prereq 102 or 105, 116)
I MWF, JacH 178, Plagemann

152 Problems (ar cr; prereq ‡)

153 Biology of Microorganisms (4 cr, §53; prereq 5 cr biol sci, OrCh 61, 62 or ‡)
Lect VI MWF, Owre 111, Dworkin
Lab VII-VIII MF, Mayo A 205

201 Research (ar cr)

202 Diagnostic Microbiology (ar cr; prereq grad, ‡)

203 Seminar (1 cr)
V W, Mayo 1050, Dworkin

223 Bacterial Metabolism (3 cr; prereq 121, intro biochem or ‡)
9:15-10:45 TTh, MMA 125, Bernlohr

Winter and Spring Quarters

1w Elem Microbiology (4 cr, §Mort Sci 72, open to DH, PT students without addtl fee winter qtr with △, offered by Ext Div to Gen Hosp nurses) Lect II MWF, Lab III M, III-IV F

53w,s See 53f: Lect VI MWF, Lab VII-IX MF

100s Microbiology for Dental Students (6 cr; prereq regis Dent or Grad) Lect I TTh, IV F, Lab II-IV TTh

102s Medical Microbiology (4 cr; prereq 116, not open to med students) Lect VI TTh, Lab VII-IX TTh

103s Soil Microbiology (4 cr, §Soil 127; prereq 53, 8 cr org chem, ‡) Lect II MWF, Lab III-IV MF

-106w See 105f: (5 cr) Lect I TTh, IV TThS, Lab II-III TTh

110s Microbial Genetics (3 cr; prereq 53 or ‡) II TThS

111s Experimental Microbiology (5 cr; prereq 53, 121, ‡) Lect I W, Lab I-III MF, II-III W

116w Immunology (3 cr; prereq 53) VI MTTh

116Aw Immunology Lab (2 cr; prereq ¶116) VII-VIII TTh
121w Physiology of Bacteria (3 cr; prereq 53, 8 cr org chem or biochem) II TThS
152w,s See 152f
201w,s See 201f
202w,s See 202f
203w,s See 203f
207w Adv Medical Microbiology (2 cr; prereq ‡)

NURSING

Nursing (Nurs)

Fall Quarter

20 Nursing in Contemporary Society (3 cr; prereq regis Baccalaureate prog, Psy 4 or ¶)
—1, II MWF, PoH 2309, Dempster, Town
—2, II MWF, PoH 2317
—3, V MWF, PoH 2309
—4, V MWF, PoH 2317
54 Pathophysiology of Illness (2 cr; prereq Phsl 51, ¶57, 62, 65, 72, 75, 85) VI TTh, Owre 111
57 Nursing Diagnosis (6 cr; prereq 40, NPsy 172, CPsy 80, ¶54)
—1, VII-VIII TTh, Owre 117, Titt
—2, VII-VIII TTh, MH 214, Moncure
—3, VII-VIII TTh, PoH 2309, Peterson
—4, VII-VIII TTh, PoH 2317, Whitney
—5, VII-VIII TTh, PoH 1326, Town
—1, Lab II-IV MT, POH 1413, 1405
—2, Lab II-IV WTh, MH 214, PoH 1326
65 Scientific Approaches to Nursing Care (6 cr; prereq 20, Psy 2-5, CPsy 80, NPsy 172, Phsl 51, cultural anth, ¶54)
—1, III-IV MW, V F, PoH 2309, Town
—2, III-IV MW, V F, PoH 2317, Dempster
Lab III-IV F, PoH 1405
92A Nursing Synthesis (6 cr; prereq 82B or 85)
—1, VI MWF, Owre 117, Brennan
—2, VI MWF, PoH 2309, Sime
—3, VI MWF, PoHAmph, Martin
—4, VI MWF, PoH 2317, Cook
—5, VI MWF, PoH 1326, Whitney
—6, VI MWF, PoH 1413
Lab II-IV, VI-VIII TTh
190 Foundations of Nursing (3 cr) VI-VII TTh, MH 118, Harris
191 Seminar: Foundations of Psychiatric Nursing (3 cr; prereq 190 or ¶) III-IV TTh, MH 118, Hubbard, Lewis
195 Problems (1-9 cr; prereq regis grad prog, △) Lewis, Hubbard

Winter and Spring Quarters

30w Nursing in Perspective (3 cr; prereq Baccalaureate Program, Psy 5 or ¶) IV or VII MWF
40s Study of Patient Behavior (4 cr; prereq 30, Anat 3, MdBc 50, Phsl 51, cultural anth, ¶NPsy 172) Lect III-IV TTh or VI-VII TTh, lab I MTWTh
-55w-56s Pathophysiology of Illness (2 cr; prereq Phsl 51, ¶57, 62, 65, 72, 75, 85) VI TTh (w,s)
62w Nursing Diagnosis (6 cr; prereq 57, ¶55, Psy 144) Lect VI-VII MW, lab II-IV MT; II-IV WTh
72s Nursing Intervention (6 cr; prereq 62, MicB 53, ¶56, ¶Psy 145) Lect VI MWF, lab II-IV MTW; I-III W; II-IV ThF
75w Scientific Approaches to Nursing Care (6 cr; prereq 65, ¶55) Lect II-IV MF, lab II-IV W
85s Sicentific Approaches to Nursing Care (6 cr; prereq 75, ¶56) Lect III-IV TTh, lab III-V WF
92Aw Nursing Synthesis (6 cr; prereq 82B or 85) Lect VI MWF, lab I-IV, VI-VII TTh (w)
-92Bw Nursing Synthesis in Community (6 cr; prereq 82B or 85) Lect IV MWF, lab I-IV MWF
102w,s Nursing Synthesis (7 cr; prereq 92A or 92B) Lect VI MWF (w,s); lab I-IV MWF (w,s); I-IV, VI-VII TTh (s)
181Aw-181Bs‡ Research (2 cr; prereq PubH 140 or ‡) VII W (w); I-II W (s)
185Aw Medical-Surgical Nursing I (4 cr; prereq mental health, adv physiology course) III-IV MW
185Bs Medical-Surgical Nursing II (8 cr; prereq 185A) Lect II-IV MW, lab II-IV ThF
192Aw Seminar: Psychiatric Field Practice with Individual Patients (8 cr; prereq 191)
192Bs Seminar: Psychiatric, Field Practice with Groups (5 cr; prereq 192A or ‡) VII-VIII T; VIII Th
193w Seminar: Psychopathology (3 cr; prereq ¶192A) IX-X TTh

Nursing Education (NuEd)

Winter and Spring Quarters

175w Educational Admin in Nursing (3 cr; prereq ‡) IV MWF
197Ew Adv Teaching (3 cr; prereq regis MEd prog, Nurs 190 or ‡) VI-VII WF
198Es Adv Teaching (3 cr; prereq regis MEd prog, Nurs 190 or ‡) I-IV MF

Practical Nursing (PNur)

Fall Quarter

1 Introduction (5 cr)
Lect I-II TTh, PoHAmph, Taylor, others
—1, Lab I-III MWF, PoH 2402, Hudak
—2, Lab I-III MWF, Simmons
—3, Lab I-III MWF, Taylor
—4, Lab I-III MWF, Weisensee

Winter and Spring Quarters

15Aw-15Bs Nursing Needs (4 cr; prereq 1) Lect VI-VII MW, lab VI-VII TTh
16w,s Nursing (8 cr; prereq 1, ¶15A-B-C) Lect I-II M; VI-VII F; VI-VII T; VI-VII Th, lab I-IV TWThF
17w,s Nursing (8 cr; prereq 1, ¶15A-B-C) Lect I-II M; VI-VII F; VI-VII T; VI-VII Th, lab I-IV TWThF
18w,s Nursing (8 cr; prereq 1, ¶15A-B-C) Lect I-II M; VI-VII F; VI-VII T; VI-VII Th, lab I-IV TWThF

OBSTETRICS AND GYNECOLOGY (Obst)

Fall Quarter

120 Obstetrics Lectures (4 cr; prereq regis med)
2:00-3:00 W, Hosp ToddAmph, McKelvey, others
135 Clinical Clerkship (12 cr; prereq regis med) McKelvey, others
201 Adv Obstetrics, Gynecology I (ar cr)
202 Adv Obstetrics, Gynecology I (ar cr; prereq 201)
203 Adv Obstetrics, Gynecology I (ar cr; prereq 202)
204 Adv Obstetrics, Gynecology I (ar cr; prereq 203)
205 Adv Obstetrics, Gynecology II (ar cr; prereq 204)
206 Adv Obstetrics, Gynecology II (ar cr; prereq 205)
207 Adv Obstetrics, Gynecology II (ar cr; prereq 206)
208 Adv Obstetrics, Gynecology II (ar cr; prereq 207)
209 Adv Obstetrics, Gynecology III (ar cr; prereq 208)
210 Adv Obstetrics, Gynecology III (ar cr; prereq 209)
211 Adv Obstetrics, Gynecology III (ar cr; prereq 210)
212 Adv Obstetrics, Gynecology III (ar cr; prereq 211)

OPHTHALMOLOGY (Opth)

Fall Quarter

200 Clinical Ophthalmology (6 cr)
8:00-5:00 MTWThF, Harris, others
201 Practical Ocular Surgery (3 cr)
8:00-12:00 TWTh, Harris, others
202 Ocular Pathology Conference (1 cr)
3:00-5:00 Th, Mayo A675, Harris, others
203 Basic, Applied Ophthalmology (2 cr)
8:00-12:00 S, Owre 117, Harris, others
208 Didactic Ocular Surgery (1 cr)
3:00-4:00 F, Mayo A675, Harris, others
209 Pathology of Eye (1 cr)
4:00-5:00 F, Mayo A675, Harris, others
214 Laboratory (9 cr)
8:00-5:00 MTWThF, DiehlH 255, Harris, others

OTOLARYNGOLOGY (Otol)

Fall Quarter

191 Externship (ar cr; prereq regis med) Duvall
230 Clinical Otology (3 cr)
1:00-4:00 MWThF, Mayo D307, Boies, others
231 Clinical Rhinology, Laryngology (3 cr)
1:00-4:00 MWThF, Mayo D307, Boies, others
232 Surgery of Ear, Nose, Throat (3 cr)
9:00-12:00 MTWThF, Hosp OR, Boies, others
237 Endoscopy (2 cr) Priest
238 Pathology of Ear, Nose, Throat (1 cr)
11:00-12:00 alt S, Mayo A675, Lober
241 Seminar: Current Literature (1 cr)
8:30-12:00 S, Mayo A675, Boies, others
248 Research (1 cr) Boies, others

PATHOLOGY (Path)

Fall Quarter

101 Gen Pathology (8 cr; prereq regis med or grad)
Lect VII MTTh, II WF, MMA 100, Dawson
—1, Lab VIII-IX MTh, III-IV F, VII-VIII F, JacH 188, 192, 196
—2, Lab III-IV MW, VIII-IX T, VI-VII W, JacH 188, 192, 196
Dem III MWF, VIII MTTh, VI W, VII F, JacH 178
104 Autopsies (ar cr; prereq 102) Dawson

106 Diseases of Heart (1 cr; prereq 102) Edwards
110 Seminar (1 cr; prereq 102)
V-VI M, JacH 178, Dawson
111 Conference on Autopsies (1 cr; prereq 102)
V-VI T, JacH 74, Dawson
113 Surgical Pathology (ar cr; prereq 102) Hebbel
140 Seminar: Experimental Pathology (1 cr) Halberg
141 Probs: Experimental Pathology (ar cr) Halberg
150 Problems (ar cr; prereq regis med) Dawson
201 Research (ar cr) Dawson

Winter and Spring Quarters

53w-54s Pathology for Mortuary Science (3 cr; prereq regis mort) III MWF (w); IV MWF (s)
60s Pathology for Physical Therapists (3 cr; prereq regis PT) VII T; VII-VIII Th
100s Pathology for Dental Students (8 cr; prereq regis Dent) Lect I MTWThF, labs II-III MF; VII-VIII TTh; dem II MF; VII TTh
102w Special Pathology (8 cr; prereq 101, regis med soph) Lect VII MWThF, II S, labs III-IV M, I-IV W, I-II F, I-II M, VI-IX T, III-IV F, Dem I MWF, III MF, VI T
104w,s See 104f
105s Diseases of Kidney (3 cr; prereq 102) V-VI TTh
106w,s See 106f
110w,s See 110f
111w,s See 111f
113w,s See 113f
122w Basic Science of Cancer (ar cr) IX-XI MTTh
140w,s See 140f
141w,s See 141f
150w,s See 150f
201w,s See 201f

PEDIATRICS (Ped)

Fall Quarter

120 Clinical Lecture (2 cr; prereq regis med)
1:00-2:00 W, Hosp ToddAmph, Anderson
135 Clinical Clerkship (12 cr; prereq regis med) Anderson
181 Externship (ar cr) Anderson
182 Clinical Probs (ar cr) Anderson
183 Research (ar cr) Anderson
200 Seminar (1½ cr) Anderson
202 Clinic (ar cr; prereq ‡) Anderson
204 Residency (ar cr; prereq ‡) Anderson
206 Pediatric Special Interest (ar cr; prereq ‡) Anderson
208 Research (ar cr; prereq ‡) Anderson

PHARMACOLOGY (Phcl)

Fall Quarter

9 Pharmacology for Nursing Students (3 cr)
2:30-3:30 MWF, MH 213, Cafruny, others
102 Gen Pharmacology (6 cr, †101-102; prereq 101)
Lect 8:00-9:00 MTWThF, ME 4, Kupferberg, Zimmerman
—1, Lab 9:00-11:50 T, MH 307
—2, Lab 9:00-11:50 Th, MH 307
109 Problems (ar cr; prereq ‡) Shideman
162 Biological Assay of Drugs (3 cr; prereq 101, 102 or ‡)
Lect IV M, AH 215, White
Lab II-IV T, VI-VIII Th, AH 215
202 Adv Pharmacology: Pharmacodynamics (3 cr; prereq 101, 102 or 103, 104 or ‡) Miller, others
203 Research (ar cr; prereq 103, 104 or ‡)
204 Seminar: Selected Topics (1 cr, 3 cr compl 3 qtrs; prereq 101, 102 or 103, 104 or ‡) Miller, others
205 Seminar: Survey Current Pharmacological Literature (1 cr, 3 cr compl 3 qtrs; prereq 101, 102 or 103, 104 or ‡) Marrazzi, others
206 Seminar: Psychopharmacology (1 cr, 3 cr compl 3 qtrs; prereq ‡) Thompson, others

Winter and Spring Quarters

1w Dental Therapeutics (1 cr) VI Th
57s Pharmacology of Official Medicinal Agents (3 cr) I MWF
101s Gen Pharmacology (1 cr, †101-102) VI Th
106s Toxicology (2 cr; prereq 101, 102 or 103, 104 or ¶) V TTh
108w Dental Therapeutics (1 cr; prereq 101, 102) 8:00-9:00 F
109w,s See 109f
203w,s See 203f
204w,s See 204f
205w,s See 205f
206w,s See 206f

PHYSICAL MEDICINE AND REHABILITATION (PMed)

Fall Quarter

2B Orientation to Physical Therapy, Rehabilitation (1 cr; prereq regis OT) Moen

3 Orientation to Occupational Therapy (2 cr)
V Th, ChRC 208, V T, ChRC 220, Eliason

50 Physics for Physical Therapy (2 cr)
II-III T, ChRC 208, Kubicek

55 Process of Rehabilitation (2 cr)
VI MW, ChRC 262, Bollinger, Hansen

57 Ethics, Admin (1 cr)
I T, ChRC 208, Kottke

58 Bandaging, Aseptic, Isolation Techniques (2 cr)
II-III MF, ChRC 220, Wessman

67 Methods of Scientific Research (2 cr) Skowlund

71 Theory of Occupational Therapy (2 cr)
II TTh, ChRC 204, Hansen

74 Techniques of Occupational Therapy (3 cr)
I-III WF, ChRC 262, Dahlstrom, Eliason

76 Techniques of Occupational Therapy (3 cr)
I-III TTh, ChRC 255, Lepley, Sicard

78 Prin, Practice of Occupational Therapy (3 cr) Eliason

80B Therapeutic Exercise (5 cr; prereq 80A)
VI MW, V-VI F, ChRC 204, I-II TTh, ChRC 220, Hannan, Kottke, Mundale

82 Physiology of Muscles, Nerves, Circulation (3 cr)
I MTW, ChRC 208, Kubicek

85 Rehabilitation Procedures (5 cr)
III TTh, ChRC 204, VII-VIII MWF, ChRC 220, Wessman

88 Clinical Practice (3 cr; prereq 87)
I-III MWF, Allison

90 Clinic Conference (1 cr, ¶88)
VI Th, ChRC 204, Allison

93 Orientation to Prevocational Therapy (2 cr)
VII MW, ChRC 262, Bollinger, Hansen

95 Clinical Training in Occupational Therapy (18 cr; prereq 94) Eliason

100 Psychological Factors (3 cr; prereq regis OT or PT or ♯)
3:00-4:30 TTh, ChRC 208, Briggs

103 Clinic: Physical Therapy (ar cr; prereq grad) Kottke

161 Clinical Medicine in Rehabilitation (5 cr) Kottke

180 Problems (ar cr; prereq physical therapist) Kottke

181 Externship (ar cr; prereq regis med) Kottke

190 Problems (ar cr; prereq regis med) Kottke

197 Intro to Scientific Literature, Research (2 cr; prereq ♯) Skowlund

198 Research Probs (ar cr; prereq 97 or 197 or ♯) Skowlund

200 Service (ar cr) Gullickson, Kottke

204 Clinic: Peripheral Vascular Disease (ar cr) Gullickson

205 Readings (1 cr)
I M, Mayo 825, Kottke

206 Conference (1 cr)

210 Research (ar cr) Gullickson, Kottke, Kubicek

211 Electronics (2 cr) Kubicek

212 Electromyography (ar cr; prereq ♯) Kottke, Kubicek

213 Lab Procedures (1 cr; prereq ♯) Kubicek

220 Seminar (ar cr)
IV M, Hosp EustisAmph, Kottke

PHYSIOLOGY (Phsl)

Fall Quarter

52 Principles (3 cr; prereq phys 9 or 23, GeCh 15, ¶Math 31)
III MWF, Owre 15, Johnson

55 Principles (5 cr; prereq 1 yr col chem, 1 yr col phys, math through inte calc)
III MWF, Owre 15, Johnson

107 Human Physiology (8 cr; prereq regis med or grad, neuroanat, org chem, zool)
Lect I MTWThF, Owre 15
—1, Lab III-IV, VI-IX W, MH 307
—2, Lab III-IV, VI-IX F, MH 307

110 Physics for Biologists (3 cr; prereq 6, Math 40, △)
II MWF, ForH 346, Beck

113 Problems (ar cr; prereq 107)

201 Literature Seminar (1 or 2 cr; prereq 107)
V W, MH 213

202 Readings (ar cr)

203 Research (ar cr)

227 Methods (ar cr; prereq 107, ♯) Stish

Winter and Spring Quarters

2w Human Physiology (4 cr; prereq 1 qtr chem, 1 qtr zool or biol) Lect I MWF, dem VII-IX W or Th

51w Human Physiology for Nursing, Physical Therapy Students (5 cr; prereq 1 yr chem, zool) Lect II MWThF, dem III-IV or VI-VII T
-53w See 52f
-56w See 55f
60w Human Physiology for Med Tech Students (6 cr; prereq physiol chem, human or mammalian anat) Lect I MTWThF, dem II-III Th
70w Human Physiology for Pharm Students (7 cr; prereq physiol chem, human or mammalian anat) I MTWThF, II F, dem II or III W
101w Human Physiology for Dental Students (8 cr; prereq physiol chem, human or mammalian anat) Lect I MTWThF, conf VI Th, lab VI-VIII MF
106s Human Physiology (7 cr; prereq regis med or grad, neuroanat, org chem, zool) Lect I MTWThF, lab III-V TTh; VII-IX TTh
111w See 110f
112w Hemodynamic Measurements (3 cr; prereq regis med)
113w,s See 113f
201w,s See 201f
202w,s See 202f
203w,s See 203f
220s Methods of Analysis (3 cr; prereq calc through intro to differential equations, phys chem or ♯)
-235w-236s Renal Hemodynamics (ar cr; prereq 107)

PSYCHIATRY AND NEUROLOGY (NPsy)

Fall Quarter

101 Clinical Neurology (4 cr; prereq regis med or grad clin psy) Baker
103 Clinical Clerkship (12 cr; prereq regis med)
122 Clinical Lectures: Psychiatry (1 cr) 9:00 S, MMA 125, Hastings
145 Readings: Psychiatry (ar cr) prereq regis med)
145X Readings: Neurology (ar cr; prereq regis med)
171A Descriptive Psychiatry (ar cr; prereq regis med) Rowe
171B Descriptive Neurology (ar cr; prereq regis med)
181 Externship: Neurology (ar cr; prereq regis med)
182 Probs: Basic, Clinical Neurology (ar cr; prereq regis med)
191 Externship: Adult Psychiatry (ar cr; prereq regis med)
192 Externship: Child Psychiatry (ar cr; prereq regis med)
193 Probs: Psychiatry (ar cr; prereq regis med)
201 Clinical Seminar for Psychologists (1 cr; prereq ♯) Sines
202 Special Research Topics (ar cr; prereq ♯)
203 Psychometric Clerkship (ar cr; prereq ♯)
204 Internship: Clinical Psychology (2 or 4 cr; prereq PhD cand clin psy, ♯ or div clin psy)
205 Seminar: Adv (1 cr; prereq ♯) Hathaway
208 Clinical Neurology (ar cr)
209 Research (ar cr)
210 Adv Neuropathology (2 cr, §150, Path 115
212 Survey of Neuropathology (1 cr, §151, Path 119)
219 Instrumentation in the Basic, Neurological Sciences (1 cr; preerq ♯)
220 Adv Clinical Neurology (1 cr)
226 Neurological-Neurosurgical Conference (1 cr, §Rad 163 or Surg 318) 2:00-5:00 F, Hosp ToddAmph
231 Applied Electroencephalography, Myography (1 cr)
233 Applied Neuropathology (1 cr)
251 Clinical Inpatient Psychiatry (ar cr; prereq MD degree)
252 Clinical Outpatient Psychiatry (ar cr; prereq MD degree)
253 Clinical Child Psychiatry (ar cr; prereq MD degree)
254 Adv Clinical Inpatient Psychiatry (ar cr; prereq 251, 252, 253, MD degree)
255 Adv Clinical Outpatient Psychiatry (ar cr; prereq 251, 252, 253, MD degree)
256 Adv Clinical Child Psychiatry (ar cr; prereq 251, 252, 253, MD degree)
257 Special Assignments (1 cr; prereq 251, 252, 253, MD degree)
258 Research (ar cr; prereq MD degree or ♯)
262 Clinical Observation, Evalaution (1 cr; prereq MD degree or ♯) Jepson
263 Survey of Physiologic Treatments (1 cr)
265 Personality Development, Psychodynamics (1 cr; prereq MD degree or ♯) Anderson
269 Psychotherapy (3 cr; prereq MD degree or ♯) Raths
271 Readings: Psychoanalysis I (1 cr; prereq MD degree or ♯) Hambidge
272 Reconstructive Psychotherapy (1 cr; prereq MD degree or ♯)

281 Readings: Psychoanalysis II (1 cr; prereq MD degree or ‡) Hambidge
283 Seminar: Special Topics (1 cr; prereq MD degree or ‡) Schiele
284 Readings: Child Psychiatry (1 cr) Jensen
285 Seminar: Current Literature in Child Psychiatry (1 cr) Jensen
291 Seminar: Current Literature (1 cr; prereq MD degree or ‡) Simon
292 Special Supervision in Psychotherapy (1 cr; prereq MD degree or ‡)
293 Probs: Teaching Psychiatry (ar cr; prereq MD degree or ‡)
295 Group Therapy (1 cr; prereq MD degree or ‡)

PUBLIC HEALTH (PubH)

Fall Quarter

3 **Personal Health** (2 cr, §2 or 50)
VI MW, C 100, Thomson
50 **Personal, Community Health** (3 cr, §2, 3, 4, 5, 51, 52)
III MWF, C 100, Thomson
52 **Home Nursing, Family Care** (1 cr; prereq HE students, 50 or ‡)
—1, VIII-IX T, HS 2nd Floor (StP Campus) Simons
—2, VIII-IX Th, HS 2nd Floor (StP Campus) Simons
91 Physiological Hygiene (4 cr, †91-92; prereq 8 cr chem, 4 cr anat)
Lect II MWF, Norris Gym, Taylor
Lab I-II Th, Owre 117, Taylor
95 Human Nutrition (3 cr; prereq chem, biol or ‡)
II MWF, ForH 285, Stief
100A Elements of Public Health I (3 cr; prereq 3 or 50, course in bact)
Lect IV MWF, MMA 100, G Anderson, Schuman, Thomson
—1, IV TTh, MMA 100, G Anderson
—2, V TTh, MMA 100, G Anderson
102 Environmental Health (3 cr; prereq ‡)
III MWF, Z 211, Bond, Olson
103 Bacteriology (ar cr; prereq MicB 102, 116, ‡)
I-II MWF, SBH Lab, Bauer
107 Maternal, Child Health (3 cr, §107A; prereq MD, DDS, nurs or ‡, ¶100A)
VI MW, VI-VII F, StadG 27, Bridge, Stief
110A Biometry I (3 cr; prereq Math 10 or ‡, ¶111A)
III MWF, MMA 100, Bartsch
111A Biometry Lab I (2 cr; prereq ¶110A)
Lect III TTh, MMA 100, Bartsch
—1, II MWF, ForH 80, Bartsch
—2, IV MWF, ForH 80, Bartsch
—3, V MWF, ForH 80, Bartsch
—4, VI MWF, VI-VIII Th, ForH 80, Bartsch
113B Public Health Engineering-Field Investigations: Waste Disposal (2 cr, §114; prereq engr degree, 102, ‡)
VI-IX W, Bond
114 Environmental Health Programs (3 cr, §112, 113, 116; prereq ‡)
VI-IX T, VI-VII Th, Mayo 1220, Bond
117A Sanitary Biology (3 cr; prereq 100A or ¶ or ‡)
Lect I MWF, Mayo 1210, Olson
—1, VI-IX M, Mayo 1138, Olson
—2, VI-IX T, Mayo 1138, Olson
—3, VI-IX F, Mayo 1138, Olson
120A Biomedical Computing (3 cr; prereq Math 10)
VII MWF, Mayo 1205, Johnson
121A Quantitative Mammalian Biology (3 cr; prereq 1 yr math, phys, chem, biol or ‡)
IV MWF, Mayo 1205, Evans
123 Topics (ar cr; prereq ‡)
125 **Public Health Education** (2 cr; prereq ‡)
—1, III MW, Mayo 1210, Craig, Grout
—2, III TTh, Mayo 1210, Craig, Grout
140 **Vital Statistics I** (3 cr)
—1, I-II TTh, I M, Mayo 1220, Bearman, Thornton
—2, I-II WF, II M, Mayo 1220, Bearman, Weckwerth
155 Air Pollution Probs (3 cr; prereq ‡)
II MWF, Mayo 1210, Paulus
159 Chemical Lab Safety (1 cr; prereq ‡)
V F, JacH 178, Scheffler
160 Prin of Admin in Hospitals (6 cr)
I-II TTh, VI-VII MWF, II-III S, Mayo 1250, Stephan, Sweetland
161 History, Development of Hospitals (3 cr)
II MWF, Mayo 1250, Kincaid, Laur, Stephan
162 Prin of Organization, Mgt of Hospitals (3 cr)
III MWF, Mayo 1250, Laur, Stephan
168 Orientation to Medical Sciences (3 cr; prereq ‡)
I MWF, Mayo 1250, Thomson
169 Administrative Residency (ar cr)
173 Culture, Public Health I (3 cr; prereq ‡)
III MWF, AH 101, Kroska

174 Foundations of Public Health Nursing I (3 cr, §173)
III TTh, AH 101, Murphy, others

178B Intro to Supervision: Public Health Nursing (ar cr; prereq 176, ‡) Sparrow

181A Prins, Methods in Public Health Education (4 cr; prereq ‡)
VI-VIII MW, Mayo 1210, Craig, Grout

191 Applied Human Nutrition (3 cr; prereq ‡)
VII-VIII MW, StadG 27, J Anderson

197A Elements of Mathematical Biology (5 cr; prereq math incl diff equations, 1 yr seq phys, chem, biol sci, with lab work or ‡) Evans

200 Research (ar cr)

201 Topics: Biometry (ar cr; prereq 110A, ‡)

202 Seminar: Physiological Hygiene (1 cr) Keys, others

203A Research Design: Biometry (3 cr; prereq 110C or ‡)
II MWF, Mayo 1205, McHugh

204A Theory of Research Design: Biometry (2 cr; prereq ¶203A-B-C, calc)
II TTh, Mayo 1205, McHugh

210 Foundations of Public Admin (3 cr)
VIII-IX Th, MMA 100

211 Seminar: Biometry (ar cr)
VI-VIII T, Mayo 1210, Boen, others

212 Seminar: Public Health Engineering, Sanitation (ar cr; prereq ‡)
VI-VII Th, ForH 155, Olson

213 Seminar: Epidemiology (ar cr; prereq ‡)
VI-VIII F, Mayo 1325, Gullen, Schuman

216A Biomedical Measurement Probs (3 cr; prereq 110C)
III MWF, Mayo 1220, Brown

217A Theory for Biomedical Measurement Probs (2 cr; prereq Stat 123 or 133 or ‡, ¶216A-B)
III TTh, Mayo 1220, Brown

220 Readings: Probs of Physiological Hygiene (ar cr; prereq ‡) Keys, others

221 Seminar: Long-Term Patient Care, Rehabilitation (ar cr; prereq 179 or ‡) E Anderson

222 Seminar: School Nursing, Related Field Practice (ar cr; prereq ‡) Fredlund, Murphy

224 Social Welfare Admin (3 cr) McIntyre

225 Practicum in Teaching Public Health Nursing (ar cr; prereq ‡) McIntyre

226A Clinical Seminar: Public Health Nursing—Mental Health (ar cr; prereq 175) vonBergen

226B Concepts of Behavior in Psychiatric Illness (ar cr; prereq ¶226A) vonBergen, others

226C Concepts of Behavior in Children's Probs (ar cr; prereq ¶226A) vonBergen, others

227 Probs: Public Health Education (ar cr; prereq ‡) Grout

261 Alternative Patterns for Meeting Health Care Needs (3 cr; prereq ‡) Litman

281 Probs: Supervision, Admin in Public Health Nursing (3 cr; prereq 280) Blanchard, Murphy

282 Practicum: Supervision or Admin in Public Health Nursing (ar cr; prereq 280, 281) Blanchard

283 Seminar: Consultation (2 cr; prereq ‡) Murphy, others

290 Research: Physiological Hygiene, Related Areas (ar cr) Keys, others

Winter and Spring Quarters

3w,s See 3f: VI TTh (w); VI MW (s)

4s Health Probs of the Community (2 cr; prereq 3) III TTh

5w Individual, Public Health (3 cr, §2, 3, 4, 50, 51) I MWF

50w,s See 50f

51w Community Hygiene (3 cr, ¶4, 5, 50, 100; prereq 3) IV MWF

52w,s See 52f

53w Introduction (5 cr; prereq regis nurs or nurs student, 3 or 50, micb) VII-VIII MWF

75s Intro to Environmental Health (3 cr; prereq 3 cr public health) I or II MWF

90s Medical Statistics I (3 cr; prereq regis med soph) Lect I TTh; lab I-II F; VII-VIII F

-92w See 91f: V MTWTh

95w See 95f

100s Preventive Medicine, Public Health (6 cr; prereq med soph) IV MTWThFS

-100Bw-100Cs See 100Af: IV-V T (w); VIII-IX T (s)

102As Environmental Health (2 cr; prereq ‡) I TTh

103w,s See 103f

104w Epidemiology I (3 cr; prereq 100A, 140, 180 or 110A-111A) Lect I MWF; II-III TThS

105s Epidemiology II (3 cr; prereq 104) II MWF

106w Administration (3 cr; prereq 100A) I TThS

107s See 107f: VI MW, VI-VII F

107As Maternal, Child Health Program (1 cr, §107; prereq hosp administrators, ‡)

108w Intro to Statistical Decision Making in Mgmt (2 cr) VI-VII TTh

109s Institutional Sanitation (3 cr; prereq hosp administrators or ‡, 100A)

-110Bw-110Cs See 110Af: III MWF
111Bw Biometry Lab II (2 cr; prereq ¶110B) Lect III TTh, lab II or IV or VI MWF; VI-VIII T
111C Biometry Lab III (2 cr; prereq ¶110C) III TTh; II or IV MWF; VI or VIII T
112Aw Public Health Engineering-Plan Examinations: Water Supplies (1 cr, §114; prereq engr degree, 102, ‡)
112Bw Public Health Engineering-Plan Examinations: Waste Disposal Systems (1 cr, §114; prereq engr degree, 102, ‡)
113As Public Health Engineering-Field Investigations: Water Supplies (2 cr, §114; prereq engr degree, 102, ‡)
113Cs Public Health Engineering-Field Investigations: Swimming Pools, Plumbing (2 cr, §114; prereq engr degree, 102, ‡)
115w,s Food Sanitation (3 cr; prereq 100A, ‡) VI-VIII F (w); VI-VII T (s)
115As Institutional Food Protection Programs (2 cr; prereq ‡)
116s Public Health Engineering Admin (2 cr, §114; prereq ‡)
-117Bw-117Cs See 117Af: Lect VI-IX M (w); IV MWF (s), lab VI-IX W (w); VI-IX F (s)
-120Bw-120Cs See 120Af: VII MWF
-121Bw-121Cs See 121Af
122s Admin Probs (3 cr; prereq 106) I MWF
123w,s See 123f
124w Medical Statistics II (3 cr; prereq DDS or MD or ‡) VI MWF
125s Public Health Education (2 cr; prereq ‡) Lect VII TTh, lab IV MW
135w Conservation of Hearing (1 cr; prereq ‡) II F
136w Handicapped Children (ar cr; prereq 107, ‡)
137w Dental Health (1 cr; prereq ‡) II M
141s Social, Economic Aspects of Medical Care (ar cr; prereq ‡) III-IV TTh
142s Medical Economics (2 cr)
144w History of Biostatistics (2 cr; prereq 3 cr stat) IV TTh
145s Low Level Radioactivity, Radiation Measurements (3 cr; prereq ‡) VIII-IX M, VIII F
146w Radiological Health II (3 cr; prereq ‡)
147w Environmental Radioactivity (3 cr; prereq ‡) VI MWF
149s Aspects of Housing, Residential Environment (3 cr; prereq ‡)
150s Vital Statistics II (3 cr; prereq ‡) IV MWF
150Aw Vital Statistics II (3 cr; prereq 140 with grade B) IV MWF
151w Health Aspects of Air Control in Hospitals (2 cr; prereq ‡)
152w Industrial Hygiene Engineering (3 cr; prereq ‡) IV MW, IV-V F
154s Radiological Health I (ar cr; prereq ‡) Lect IV TTh, Lab VI-IX W
155w See 155f: III MWF
156s Air Polution Surveys (2 cr; prereq 155, ‡) I TTh
157w Radiation Protection Criteria for Hospital Design, Operation (2 cr; prereq ‡)
158w Hospital Safety (3 cr; prereq ‡)
-163w See 162f: I-II MWF; II-III TThS
164s Organization, Mgt of Hospitals (6 cr; prereq 163) VI-VIII MTWThF
166w Hospital Clerkship (5 cr) IV MW; VI-VII MWF
167s Mgt Probs in Hospital Admin (6 cr; prereq 162, 163, 164) III-IV MWF, I-II TTh, II-III S
169w,s See 169f
170w Admin of Public Health Nursing (2 cr, §170A; prereq health officers or ‡) VI-VII Th
170Aw,s Admin of Public Health Nursing (1 cr, §170; prereq ‡) IV Th (w); I MWF (s)
171w Studies in Public Health Nursing (3 cr; prereq 140) VI MWF
175w Foundations of Public Health Nursing II (4 cr; prereq 174) VI-VII Th
176As Clinical Seminar: Public Health Nursing (3 cr; prereq 175)
177s Nursing in Family Health, Illness (3 cr; prereq 175) I MWF
179Aw-179Bs Long Term Patient Care, Rehabilitation (ar cr; prereq 171, 174)
-182w-183s See 181f: VI-VII MW
185s Air Analysis (3 cr; prereq 152 or 155, ‡) I-III F; VI-VIII M
186w,s Probs of Air Pollution Control (ar cr; prereq 155, ‡)
192w Physiology of Exercise (ar cr; prereq Phsl 107, ‡)
195w Aspects of Cardiovascular Disease (3 cr; prereq ‡) VII-VIII MW
197Bw-197Cs See 197Af
200w,s See 200f
201w,s See 201f
202s See 202f
-203Bw-203Cs See 203Af
-204Bw-204Cs See 204Af
210w,s See 210f
211w,s See 211f: VI-VII T (w); ar (s)
212w,s See 212f
213w,s See 213f: VI-VIII F
214w,s Current Issues of Public Admin, Policy Development in Minnesota (3 cr)

215w Maternal, Child Health Probs (3 cr; prereq 107, ‡) III-IV MF
-216Bw See 216Af
-217Bw See 217Bf
220w,s See 220f
223s Orientation to Teaching Public Health Nursing (3 cr; prereq ‡)
225w See 225f
227w,s See 227f
241s Epidemiology of Noncommunicable Diseases (3 cr; prereq 104) III MWF
-262w See 261f
265s Seminar: Research Studies on Health Services (3 cr; prereq ‡)
269w Political Aspects of Health Services (3 cr; prereq ‡)
290w,s See 290f

RADIOLOGY (Rad)

Fall Quarter

102 X-Ray Conference (1 cr; prereq ‡)
5:00-6:00 T, X-Ray Conf Rm, Peterson, others
103 Fundamentals of Radiation Physics, Radiobiology, Nuclear Medicine (1 cr)
4:00-5:00 T, PoHAmph, Jacobson, Moore
104 Fundamentals of Nuclear Medicine (1 cr; prereq 1st yr residents)
4:00-5:00 M, X-Ray Conf Rm, Loken
111 Medical Roentgenologic Conference (1 cr)
9:00-10:00 M, Hosp ToddAmph, Gedgaudas, Peterson
124 Pediatric-Roentgenologic Conference for Graduate Students (1 cr)
9:00-10:00 T, Hosp EustisAmph, Feinberg, Wolfson
135 Surgical Roentgenologic Conference (1 cr)
9:30-10:30 S, Hosp ToddAmph, Amplatz, Gedgaudas
163 Neurosurgical-Roentgenologic Conference (1 cr)
1:00-2:30 F, Hosp ToddAmph, Peterson
180 Externship (ar cr; prereq regis med) Davidson, Wolfson
181 Externship: Diagnostic Radiology (ar cr; prereq regis med) Davidson, Wolfson
182 Externship: Radiation Therapy (ar cr; prereq regis med) D'Angio
183 Probs: Radiation Biology, Radioactive Isotope Methods (ar cr; prereq regis med) D'Angio, Loken
184 Probs: Diagnostic Radiology (ar cr; prereq regis med) Gedgaudas, Wolfson
200 Research: Roentgenology (ar cr) Peterson, others
202 Cardiovascular Roentgenologic Conference (1 cr)
2:30-4:30 M, Hosp ToddAmph, Amplatz, Gedgaudas
204 Tumor Clinic Conference (ar cr)
11:00-12:00 M, Hosp ToddAmph, D'Angio
205 Research: Radiation Therapy, Nuclear Medicine, Radiobiology (ar cr; prereq ‡) D'Angio, Loken
206 Roentgenoscopy (3 cr) Peterson, others
209 Roentgen Diagnosis (3 cr) Peterson, others
210 Roentgen Technique (2 cr) Peterson, others
211 Dosimetry of Internal, External Radiation Emitters (1 cr)
7:00-8:00 am W, Mayo B142, Moore
212 Seminar: Radiation Biophysics (1 cr; prereq ‡)
5:00-6:00 W, X-Ray Conf Rm, Jacobson
217 Roentgenologic Conference on Chest Diseases (1 cr)
3:30-4:30 F, Hosp EustisAmph, Gedgaudas
220 Urologic-Roentgenologic Conference (1 cr)
5:00-6:00 M, Hosp EustisAmph, Baggenstoss, Creevy, Peterson
236 Seminar: Radioisotope (1 cr)
12:00-1:00 W, C 239, Loken
238 Roentgen-Surgical Pathology Conference (1 cr)
4:00-6:00 Th, Hosp ToddAmph, Lober, Peterson, others
240 Radiation Therapy Conference (1 cr)
5:00-6:00 M, PoHAmph, D'Angio

SURGERY (Surg)

Fall Quarter

122 Prin of Diagnosis, Treatment, Prognosis of Fractures, Dislocations (1 cr; prereq regis med) Moe, others
127 Clinical Lectures: Neurosurgery (1 cr; prereq regis med) French
129 Clinical Lectures: Gen Surgery (1 cr; prereq regis med) Wangensteen
135 Clinical Clerkship (16 cr; prereq regis med) Wangensteen
140 Clinical Lectures in Orthopedic Surgery (1 cr; prereq regis med) Moe, others
173 Urology Lecture (1 cr; prereq regis med) Creevy, others
180 Externship: Urology (ar cr; prereq regis med) Creevy, others

181 Cardiovascular Surgery (ar cr; prereq regis med) Lillehei
182 Probs: Clinical Investigation and/or Experimental Surgery (ar cr; prereq regis med) Wangensteen
183 Externship: Affiliated Hospital (ar cr; prereq regis med) Wangensteen
185 Externship: Orthopedic Surgery, Fractures (ar cr; prereq regis med) Moe
186 Research Probs (ar cr; prereq regis med) Moe
188 Externship: Neurosurgery (ar cr; prereq regis med) French, others
189 Externship: Neurosurgery (ar cr; prereq regis med) French, others
190 Neurosurgical Investigation (ar cr; prereq regis med) French, others
200 Outpatient Clinic (1 cr) Wangensteen
202 Applied Surgical Anatomy on Cadaver (1 cr) Wangensteen
203 Proctoscopy, Sigmoidoscopy (1 cr) Bernstein, Wangensteen
204 Tumor Clinic (1 cr)
I-IV Th, Hosp ToddAmph, Wangensteen, others
205 Surgical Diagnosis (1 cr) Wangensteen, others
208 Surgical Probs, Mgt (1 cr) Wangensteen, others
211 Operative Surgery (1 cr) Wangensteen, others
214 Surgical Ward Conference (1 cr) Wangensteen, others
215 Surgical-Roentgenological Conference (1 cr)
II-IV S, Hosp ToddAmph, Wangensteen, others
216 Research (ar cr) Wangensteen, others
217 Seminar (1 cr) Wangensteen, others
218 Surgery-Medical Pathological Conference (1 cr)
IV W, Hosp ToddAmph, Wangensteen, others
219 Surgical Literature Conference (1 cr) Wangensteen, others
220 Peripheral Vascular Surgery (1 cr)
II-IV T, Clinic, Wangensteen, others
221 Seminar: Surgery-Physiology (1 cr)
VIII T, SurgLib, Wangensteen, others
250 Urological Surgery (4 cr) Creevy, others
251 Cytoscopy, Urological Diagnosis (4 cr) Creevy, others
252 Urological Conference (4 cr) Creevy, others
253 Research: Urology (4 cr) Creevy, others
254 Seminar: Urology (3 cr) Creevy, others
255 Urological Radiological Conference (3 cr) Creevy, others
256 Urological Pathological Conference (3 cr) Creevy, others
257 Use of the Artificial Kidney (3 cr) Creevy, others
285 Biomedical-Engr Seminar (1-3 cr; prereq #)
VIII Th, Arch 30, Wangensteen, others
308 Study of Neurosurgical Probs, Mgt (4 cr) French, others
311 Operative Neurosurgery (4 cr) French, others
316 Neurosurgical Research (3 cr) French, others
318 Neurosurgical Conference (1 cr)
VI-VIII F, Hosp ToddAmph, French, others
401 Orthopedic Conference (3 cr) Moe, others
403 Fractures (5 cr) Moe, others
405 Orthopedic Diagnosis (3 cr) Moe, others
407 Pediatric Orthopedics (5 cr) Moe, others
408 Orthopedic Probs, Mgt (5 cr) Moe, others
410 Orthopedic Pathology (2 cr) Moe, others
411 Orthopedic Operative Surgery (5 cr) Moe, others

COMPREHENSIVE CLINIC (CoCl)

Fall Quarter

150 Comprehensive Clinic (ar cr; prereq regis med) Magraw

COLLEGE OF PHARMACY

Pharmaceutical Chemistry (PhmC)

Fall Quarter

1 Inorganic Pharmaceutical Products (4 cr; prereq soph, GeCh 6)
IV MWF, II Th, AH 150, Soine
53 Pharmaceutical Biochemistry (5 cr; prereq jr, OrCh 62)
Lect III MWF, AH 150, Portoghese
Lab V-VII T, II-IV Th, AH 325, Portoghese
161 Organic Medicinal Agents (3 cr; prereq jr, OrCh 62)
II MWF, AH 150, Gisvold

173 Problems (ar cr; prereq 3rd or 4th yr pharm, ‡)

201 Medicinal, Natural Chemistry Seminar (1 cr)
VIII T, AH 350, Portoghese

208 Carbohydrates, Glycosides (3-5 cr; prereq OrCh 63 or ‡) Gisvold

213 Lab Techniques (ar cr; prereq OrCh 63 or ‡) Portoghese

214 Research (ar cr; prereq OrCh 63 or ‡)

Pharmaceutical Technology (PhmT)

Fall Quarter

1A Orientation: History (1 cr)
III T, AH 150

3 Pharmaceutical Calculations (2 cr)
IV TTh, AH 150, McRae

55 Pharmaceutical Preparations (4 cr; prereq jr, 54)
Lect I M, II T, AH 150, McRae
—1, Lab VI-VIII MTh, AH 125, McRae
—2, Lab VI-VIII WF, AH 125, McRae

58 Prescription Compounding (ar cr; prereq sr, 56, PhmC 55, 163, Phcl 57)
Lect II MW, AH 9, Miller
Conf V T, AH 150, Miller
Lab VI-VIII TW, AH 104, Miller

67 Institutional Pharmacy (3 cr; prereq sr)
Lect IV MW, AH 9, Kabat
Conf V T, AH 150, Kabat
—1, Lab II-IV T, Kabat
—2, Lab VI-VIII Th, Kabat

70 First Aid (2 cr; prereq fr)
—1, 1:15-2:30 TTh, AH 9, White
—2, 1:15-2:30 WF, AH 9, White

168 Preparation of Parenteral Products (3 cr; prereq sr, 56, MicB 53 or ‡) Kabat

170 Hospital Pharmacy Admin I (2 cr; prereq ‡) Kabat

173 Problems (ar cr; prereq jr or sr, ‡)

201 Seminar (1 cr)
IX W, AH 101

204 Adv Analytical Methods (3-5 cr; prereq 203) McRae

213 Research Probs (ar cr; prereq PhmC 163 or ‡)

Pharmacognosy (Phcg)

Fall Quarter

1 Introduction (3 cr; prereq soph, Biol 2, OrCh 62)
Lect I WF, AH 150, Schramm
Conf I T, AH 150, Schramm
—1, Lab VI-VIII T, AH 225, Schramm
—2, Lab VI-VIII W, AH 225, Schramm

173 Problems (ar cr; prereq ‡)

201 Adv Pharmacognosy (3-5 cr; prereq 162 or 163, ‡)

204 Research (ar cr; prereq ‡)

INSTITUTE OF TECHNOLOGY

AERONAUTICS AND ENGINEERING MECHANICS

Aeronautics (Aero)

Fall Quarter

100A Kinematics, Dynamics of Fluid Flow (4 cr; prereq Math 33 or ¶)
—1, III MWF, VI-VII T, AE 19
—2, III MWF, AE 227, VI-VII Th, AE 19

106 Aerodynamics of Lifting Surfaces (3 cr; prereq 100A)
II MWF, AE 225

107 Performance of Aircraft (3 cr; prereq 100A)
IV MWF, AE 227

115 Aerospace Structures I (3 cr; prereq MM 37)
III MWF, AE 225

138 Summer Engineering Employment (1-3 cr; prereq 3rd yr, ‡)

139 Summer Engineering Employment (1-3 cr; prereq 138)

145 Aeromechanics Lab II (2 cr; prereq 144, ¶Engl 85A)
Lect I Th, AE 225
—1, Lab II-IV T, AE 30
—2, Lab VI-VIII T, AE 30
—3, Lab II-IV Th, AE 30
—4, Lab VI-VIII Th, AE 30

185 Rarefied Gas Dynamics (3 cr; prereq 102A or ‡)
VI MWF, AE 19

193 **Probs: Fluid Mechanics** (0-3 cr; prereq ‡)
I MWF, AE 227

201 Foundations of Fluid Mechanics (3 cr; prereq 102A, ¶Math 149 or ‡)
11:15-12:30 TTh, AE 19

205 Incompressible Boundary Layer Theory (3 cr; prereq Math 149, ¶201 or ‡)
3:15-4:45 MW, AE 19

210 Selected Topics in Fluid Mechanics (0-3 cr; prereq ‡)

297 Seminar: Fluid Mechanics (0-1 cr)
2:15-5:15 Th, AE 225

Winter and Spring Quarters

5w-6s Aerospace Survey, Lab (1 cr) VIII M

101Aw Incompressible Boundary Layer Theory (4 cr; prereq 100A) III MWF; VI-VII TTh

102As Shock Waves, Compressible Fluid Flow (4 cr; prereq 100A) III MWF; VI-VII Th

108w Stability, Control of Aerospace Vehicles (3 cr; prereq 100A) V MWF

-116w See 115f

130w Design Methods for Aerospace Systems (3 cr; prereq 4th yr, ‡) V MWF

131s Aerospace Systems Design (4 cr; prereq 130, ‡) VI-VIII MW

144s Aeromechanics Lab I (3 cr, §MM 142; prereq 100A, MM 37) Lect I TTh; II-IV TTh; VI-VIII TTh

-146w-147s See 145f

150s Aeroelasticity I (3 cr; prereq 102A, MM 193) III MWF

180s Astrodynamics (3 cr; prereq MM 36) VIII MWF

183s One-Dimension Gas Dynamics (3 cr; prereq 102, 102A) I MWF

184w **Intro to Hypersonic Flows** (3 cr; prereq 102, 102A) IV MWF

190s Magnetohydrodynamics (3 cr; prereq 102A, Math 147 or ‡) IV MWF

194w Probs: Fluid Mechanics (0-3 cr; prereq ‡)

-202w-203s‡ See 201f

206w See 205f

207s Fluid Dynamic Stability (3 cr; prereq Math 149, ¶201 or ‡)

211w Selected Topics in Fluid Mechanics (0-3 cr; prereq ‡) Ar

212s Selected Topics in Fluid Mechanics (0-3 cr; prereq ‡)

-298w-299s‡ See 297f

Mechanics and Materials (MM)

Fall Quarter

35 **Statics** (4 cr; prereq Math 31 or ¶, Phys 21)
—1, II MWF, I-II T, AE 313, CCTV
—2, II MWF, III-IV T, AE 317, CCTV
—3, II MWF, VI-VII T, AE 319, CCTV
—4, II MWF, AE 321, VIII-IX T, ME 102, CCTV
—5, II MWF, I-II T, AE 327, CCTV
—6, II MWF, III-IV T, AE 215, CCTV
—7, IV MWF, VI-VII T, AE 313, CCTV
—8, IV MWF, I-II Th, AE 317, CCTV
—9, IV MWF, AE 319, III-IV Th, AE 317, CCTV
—10, IV MWF, VI-VII Th, AE 321, CCTV
—11, IV MWF, VIII-IX Th, AE 327, CCTV

36 **Dynamics** (4 cr, §Phys 100 or 100A; prereq Math 32 or ¶, Phys 21)
—1, VI MWF, ME 18, VIII-IX T, AE 327
—2, VI MWF, ME 18, I-II Th, AE 313
—3, VI MWF, ME 18, III-IV Th, AE 215
—4, VI MWF, ME 18, VI-VII Th, AE 319
—5, VI MWF, ME 18, VIII-IX Th, AE 313

37 **Deformable Body Mechanics** (4 cr; prereq 35, Math 31 or ¶)
—1, III MWF, ME 18, I-II T, AE 317
—2, III MWF, ME 18, VI-VII T, AE 321
—3, III MWF, ME 18, VIII-IX T, AE 313
—4, III MWF, ME 18, I-II T, AE 319
—5, III MWF, ME 18, VI-VII Th, AE 313

138 **Interm Dynamics** (3 cr; prereq 36)
VI MWF, AE 227

164 **Problems** (0-3 cr; prereq ‡)

180 **Applied Elasticity I** (3 cr; prereq 37)
IV MWF, AE 19

187 **Theory of Linear Viscoelasticity** (3 cr; prereq 37)
V MWF, AE 227.

193 **Intro to Theory of Mechanical Vibrations** (3 cr; prereq 36)
VII MWF, ME 110

210 Theory of Vibrations I (3 cr; prereq Math 33)
VII MWF, AE 19

213 Adv Topics: Theory of Nonlinear Vibrating Systems (3 cr; prereq 212)

264 Topics (0-3 cr; prereq ‡)

297 Seminar (0-1 cr)
2:15-5:15 F, AE 225

Winter and Spring Quarters

35w See 35f: III-IV TTh; VI MWF; VI-VII Th; VIII-IX T

36s See 36f: Lect II or IV MWF, I-II TTh; VI-VII TTh; VIII-IX TTh; rec I-II TTh; III-IV TTh; VI-VII TTh; VIII-IX TTh

37w See 37f: II or IV MWF; I-II TTh; III-IV or VI-VII or VIII-IX TTh

92w Statics for Architects (4 cr; prereq Math 22) I MTWTh

93s Solid Mechanics for Architects (4 cr; prereq 92) Lect I MTTh, lab I WF; III WF

150s Rheology, Strength of Solids (3 cr; prereq 37) VI MWF

-165w-166s See 164f: 2:15-3:30 TTh (w)

-181w-182s See 180f

201w Adv Dynamics (3 cr; prereq 138, 193, or 210) VI MWF

202s Gyroscopic Systems (3 cr; prereq 201) VI MWF

-211w-212s See 210f

241w-242s Theory of Viscoelasticity (3 cr; prereq 180 or 294) 11:15-12:30 TTh

-265w-266s See 264f

285w Continuum Mechanics (3 cr; prereq 294 or AE 201) 9:45-11:00 TTh

-298w-299s See 297f

AGRICULTURAL ENGINEERING (AgEn)

Fall Quarter

90 **Soils Engineering** (3 cr; prereq MM 37, Phys 23A, GeCh 15)
Lect I TTh, AgEng 16, Allred
Lab VII-VIII Th, AgEng 16, Allred

100 **Employment Evaluation** (1 cr) Boyd

121 **Agricultural Tractors** (3 cr; prereq ME 24, 31A)
Lect II TTh, AgEng 105, Strait
Lab VII-IX T, AgEng 103-37, Strait

124 **Drainage, Irrigation Engineering** (3 cr; prereq 94)
I MWF, AgEng 16, Machmeier

127 **Agricultural Process Engineering** (3 cr; prereq ME 31A, 133)
Lect IV TTh, AgEng 105, Hustrulid
Lab VI-VIII F, AgEng 6, Hustrulid

181 **Probs: Power, Machinery** (2-4 cr; prereq sr, ♯) Smith, Strait, Boyd

184 **Probs: Soil, Water** (2-4 cr; prereq sr, ♯) Allred, Larson, Machmeier, Manson

187 **Probs: Structures, Processing** (2-4 cr; prereq sr, ♯) Flikke, Hustrulid, Pomroy

200 Seminar (1 cr; prereq ♯) Boyd

211 Adv Probs, Research (2-6 cr; prereq 181 or 184 or 187 or △)

212 Adv Probs, Research (2-6 cr; prereq 181 or 184 or 187 or △)

213 Adv Probs, Research (2-6 cr; prereq 181 or 184 or 187 or △)

Winter and Spring Quarters

50s Intro Agricultural Engineering (3 cr; prereq soph) Lect VI TTh, Lab VII-IX Th

91w Design, Mgmt of Agricultural Machinery (3 cr; prereq ME 24) Lect VI WF, Lab VII-IX F

94w Erosion Control Engineering (3 cr; prereq 90, Hydr 101 or ¶) Lect I MWF

97s Agricultural Structures Design (3 cr; prereq 90, MM 37) Lect VI M, Lab VII-IX M or VI-IX W

100w,s See 100f

141w Design of Agricultural Machinery (3 cr; prereq 91) Lect VII M, Lab VIII-X M; VII-IX W

144w Adv Drainage, Irrigation (3 cr; prereq 124) Lect II MWF

147w Agricultural Structures, Animal Environment (3 cr; prereq 97, 127, ME 160A) Lect VI TTh; Lab VII-IX Th

160s Agricultural Engineering Instrumentation (3 cr; prereq EE 30A, Math 32, Phys 50) Lect I TTh, Lab VI-VIII F

161s Agriculture Machine Analysis (3 cr; prereq 141, MM 142) Lect VI T, Lab VI-VIII Th; VII-IX T

164s Adv Soil, Water Engineering (4 cr; prereq 144, CE 61) Lect VI TTh, Lab VII-IX TTh

165s Flood Control-Small Watersheds (2 cr; prereq ¶164, CE 161)

167s Adv Agricultural Structures (3 cr; prereq 147, CE 81) Lect VI TTh, Lab VII-IX T; VI-VIII Th

180s Radioisotope Measurements (3 cr; prereq Phys 50, Math 32) Lect III TTh, Lab VI-VIII W

181w,s See 181f

184w,s See 184f

187w,s See 187f

200w,s See 200f

211w,s-212w,s-213w,s‡ See 211f

230w Agricultural Engineering Similitude (3 cr; prereq Math 148 or 150) Lect II TTh; Lab VII-IX Th

254w Adv Hydrology: Small Watersheds (3 cr; prereq CE 161) 4:00-5:15 TTh

257s Moisture, Heat Transfer (3 cr; prereq 127, Math 33, ME 160A) I MWF

ARCHITECTURE (Arch)

Fall Quarter

41 **Adv Art for Architectural Students** (2 cr; prereq Art 25A)
XI-XII W, Arch 120, Hauser

42 **Adv Art for Architectural Students** (2 cr; prereq 41)
XI-XII W, Arch 120, Hauser

43 **Adv Art for Architectural Students** (2 cr; prereq 42)
XI-XII W, Arch 120, Hauser

51 **History of Architecture** (3 cr; prereq soph)
II MWF, Arch 25, Winterowd

54 **History of Architecture** (3 cr; prereq 53 or ♯)
IV MWF, Arch 130, Winterowd

71 **Building Technology** (4 cr; prereq 2nd yr)
III-IV TTh, Arch 130, Graffunder

74 **Building Technology** (4 cr; prereq 73)
III-IV TTh, Arch 145, Diedrich

81 **Architectural Design** (6 cr, †81-82-83; prereq 2nd yr for IT or 3rd yr for Arts, △)
Lect VI-VII W, Arch 130, Myers
Lab VIII-IX W, VI-IX MThF, Arch 210, Myers

83 **Architectural Design** (6 cr, †81-82-83; prereq 82)
Lect VI-VII M, Arch 130, Myers
Lab VIII-IX M, VI-IX MThF, Arch 210, Myers

91 **Architectural Design** (6 cr, †91-92-93; prereq 83)
Lect VI-VII M, Arch 130, Stageberg
Lab VIII-IX M, VI-IX WThF, Arch 220, Stageberg

92 **Architectural Design** (6 cr, †91-92-93; prereq 91)
Lect VI-VII M, Arch 130, Stageberg
Lab VIII-IX M, VI-IX WThF, Arch 220, Stageberg

93 **Architectural Design** (6 cr, †91-92-93; prereq 92)
Lect VI-VII M, Arch 130, Stageberg
Lab VIII-IX M, VI-IX WThF, Arch 220, Stageberg

101 **Tutorial Work in History of Architecture** (2 cr; prereq 56 or ♯) Winterowd

111 **Architectural Design** (7 cr, †111-112-113; prereq 93, MM 93)
Lect VI-VII Th, Arch 130, Parker
Lab VIII-IX Th, VI-IX MWF, Arch 230, 6 hrs ar, Parker

112 **Architectural Design** (7 cr, †111-112-113; prereq 111)
Lect VI-VII Th, Arch 130, Parker
Lab VIII-IX Th, VI-IX MWF, Arch 230, 6 hrs ar, Parker

113 **Architectural Design** (7 cr, †111-112-113; prereq 112)
Lect VI-VII Th, Arch 130, Parker
Lab VIII-IX Th, VI-IX MWF, Arch 230, 6 hrs ar, Parker

115 **Structure, Form** (3 cr; prereq MM 92)
Lect VI-VII T, Arch 130, Michelson
Lab VIII-IX T, Arch 230, Michelson

121 **Architectural Design** (9 cr, †121-122; prereq 113, CE 41)
Lect VI-VII F, Arch 130
Lab VIII-IX F, VI-IX MTWTh, Arch 240, 6 hrs ar

122 **Architectural Design** (9 cr, †121-122; prereq 121)
Lect VI-VII F, Arch 130
Lab VIII-IX F, VI-IX MTWTh, Arch 240, 6 hrs ar)

123 **Thesis** (12 cr; prereq 122)
36 hrs ar, Arch 240, Cerny

131 **Planning** (3 cr)
I-II TTh, Arch 130, Iskander

134 **Planning** (3 cr; prereq 133 or ♯) Vivrett

151 **Theory** (2 cr; prereq ♯) Rapson

Winter and Spring Quarters

1s Introduction (1 cr) IV W
41w,s-42w,s-43w,s See 41f-42f-43f
-52w-53s See 51f
-55w-56s See 54f
-72w-73s See 71f
-75w-76s See 74f
-82w,s See 81s
-83w,s See 83f
91w,s See 91f
-92w,s See 91f
-93w,s See 93f
-102w-103s See 101f
111w,s See 111f
-112w,s See 112f
-113w,s See 113f
-116w See 115f
121w,s See 121f
-122w,s See 122f
123w,s See 123f
126s Professional Relations (3 cr; prereq 4th yr) I-II TTh
-132w-133s See 131f
134w,s See 134f
-152w-153s See 151f

CHEMICAL ENGINEERING (ChEn)

Fall Quarter

100 **Numerical, Computer Methods** (2 cr)
Lect I TTh, ChE 240, Ceaglske
—1, Rec I S, ChE 240
—2, Rec VI F, ChE 154
—3, Rec VII F, ChE 154

101 **Principles** (5 cr; prereq 3rd yr, ¶100, ¶PCh 101A)
Lect II MWF, ChE 240, Madden
—1, Rec II TThS, ChE 150
—2, Rec II TThS, ChE 154
—3, Rec III TThS, ChE 150
—4, Rec III TThS, ChE 154

104 **Chemical Reactor Analysis** (5 cr; prereq 103, 120, PCh 104A)
Lect III TThS, ChE 240, Fredrickson
—1, Rec I MWF, ChE 150
—2, Rec III MWF, ChE 150
—3, Rec VI MWF, ChE 150

111 **Laboratory** (2 cr; prereq 103)
Conf II T, ChE 240, Fredrickson
—1, Lab VI-IX M, ChE 3rd floor
—2, Lab VI-IX T, ChE 3rd floor
—3, Lab VI-IX Th, ChE 3rd floor
—4, Lab VI-IX F, ChE 3rd floor

122 **Biochemical Engineering** (3 cr; prereq 103, MicB 153 or ♯)
III MWF, ChE 154, Tsuchiya

153 **Problems** (ar cr)

155 **Problems** (ar cr)

161 **Nuclear Reactor Design** (3 cr; prereq ♯)
I MWF, ChE 154, Isbin

171 **Process Control** (3 cr; prereq 4th yr or ♯)
II MWF, ChE 50, Ceaglske

201 Seminar (1 cr)
VI TTh, ChE 240, Davis, Ranz

208 Physical Rate Processes, Transfer Operations (3 cr; prereq 103, ♯)
VII MWF, ChE 50, Scriven

211 Molecular Theory of Transport Processes (3 cr; prereq ♯)
VI MWF, ChE 162, Dahler

214 Adv Mathematics for Chemical Engineers, Chemists (3 cr; prereq diff equat)
I-II TTh, ChE 50, Aris

221 Chemical Rate Processes, Reactor Design Principles (3 cr; prereq ♯)
V MWF, ChE 150, Davis

264 Survey (1 cr; prereq ♯)

301 Research (ar cr)

303 Research (ar cr; prereq 302)

Winter and Spring Quarters

102w Principles (5 cr; prereq 101) Lect II TThS; rec I or II or V or VI MWF

103s Principles (5 cr; prereq 102) Lect II TThS, rec I or II or V or VI MWF

112w Laboratory (2 cr; prereq 111) Conf V T, Lab VI-IX M or T or Th or F

113s Laboratory (2 cr; prereq 112) Conf V T, Lab VI-IX M or T or Th of F

116w-117s Process Evaluation, Design (3 cr; prereq 103) I-II TTh (w); III-IV TTh (s)

119w-120s Thermodynamics (3 cr; prereq 100, PCh 101A) Lect I TTh; rec II or V or VI MW

-123w See 122f: III MWF

153w-154s‡ See 153f

-156s See 153f: III MWF

-162w-163s See 161f

-172w See 171f: Lect IV TTh, Lab VI-IX TW (w)

173s Adv Process Control (3 cr; prereq 172) IV MWF

-202w-203s‡ See 201f: VI TTh

-209w-210s See 208f

-212w-213s See 211f

-215w-216s See 214f

218s Adv Topics (3 cr) VIII MWF

219w-220s Adv Thermodynamics (3 cr; prereq 120 or ♯) VI MWF

-222w-223s‡ See 221f

225w-226s Fluid Mechanics, Related Topics (3 cr; prereq ♯) VII-VIII TTh

-227s Fluid Mechanics, Related Topics (3 cr; prereq ♯) I MWF

264w See 264f

301w See 301f

302w See 301f

CHEMISTRY

Analytical Chemistry (AnCh)

Fall Quarter

40 **Analytical Chemistry** (4 cr; prereq GeCh 14, 15, phys maj)
V MWF, SciB 375, Lingane, lab ar

57A **Quantitative Analysis** (3 cr, †57A-B; prereq GeCh 5, non-chem maj)
V MWF, SciB 375, Lingane

57B **Quantitative Analysis** (2 cr, †57A-B; prereq 57A or ¶)
—1, Lab I-IV TTh, C 310, Lingane
—2, Lab I-IV TTh, C 310
—3, Lab I-IV TTh, C 310
—4, Lab I-IV TTh, C 310

—5, Lab VI-IX MW, C 310
—6, Lab VI-IX MW, C 310
—7, Lab VI-IX MW, C 310
—8, Lab VI-IX MW, C 310
—9, Lab VI-IX TTh, C 310
—10, Lab VI-IX TTh, C 310
—11, Lab VI-IX TTh, C 310
—12, Lab VI-IX TTh, C 310

96 Senior Thesis (ar cr; prereq 4th yr)

103 Qualitative Inorganic Microanalysis (3 cr; prereq 47)
Lect VI F, C 315, Sandell, lab ar

106 Technical Analysis (2 or 3 cr; prereq 100, 101, 102 or 102A or 47) Sandell, lab ar

111 Physicochemical Methods of Analysis (3 cr; prereq 47, PCh 101, ¶PCh 103)
III TThS, C 225, Swofford

115 Adv Analytical Chemistry (2 cr; prereq 100, 101, 102 or 102A or 47)
V MF, C 315, Meehan

123 Analysis of Complex Materials (1-3 cr; prereq 212) Sandell, lab ar

141 Seminar: Modern Probs (1 cr; prereq 47, 111)
IV T, C 315, Swofford

201 Topics (ar cr; prereq 212)
IV Th, C 315

211 Physicochemical Methods of Analysis (4 cr; prereq 111 or ‡)
III TThS, C 315, Bruckenstein, Meehan

235 Seminar: Research (ar cr)
VIII-IX Th, C 315, Bruckenstein

262 Survey (1 cr)

301 Research (ar cr)

Winter and Spring Quarters

40s Analytical Chemistry (4 cr; prereq GeCh 14, 15, phys maj) Lect V MWF

46Hw Intro to Analytical Chemistry I (3 cr; prereq GeCh 5 or 25 or ¶) II MWF

47s Analytical Chemistry II (5 cr, §old 101, 102, 102A; prereq 46) Lect II MWF; lab I-IV TTh; VI-IX MW; VI-IX TTh

47Hs Honors Course: Analytical Chemistry II (5 cr; prereq 46) Lect II MWF, Lab I-IV TTh

57As See 57Af

57Bs See 57Bf: Lab I-IV MW; VI-IX MW; VI-IX TTh (s)

-97w-98s‡ See 96f

104w Polarizing Microscope (3 cr; prereq 47, Phys 3, 6 or 9 or ‡) Lect VI F

105s Quantitative Inorganic Microanalysis (3 cr; prereq 47) Lect VI F

-107w-108s See 106f

112w Physicochemical Methods of Analysis (2 or 3 cr; prereq 102, 111 or 47, 111) I-III TTh; IV-VI TTh; VII-IX TTh

113w Physicochemical Methods of Analysis (3 cr; prereq 111, ‡) I-III TThF; IV-VI TThF; VII-IX TThF

116s Solution Equilibria (3 cr; prereq 115) II TThS

117w Electrochemical Methods of Analysis (4 cr; prereq 111) II TThS

118s Electrochemical Methods of Analysis (3 cr; prereq 117)

123w,s Analysis of Complex Materials (1-3 cr; prereq 112)

140w Water Analysis (2 cr; prereq 100, 101, 102 or 102A or 47)

-142w-143s See 141f

-202w-203s See 201f

-212w See 211f: I-III MWF; IV-VI MWF; VII-IX MWF

227s Optical Methods of Analysis (2 cr; prereq 211) V MF

-236w-237s‡ See 235f: VIII-IX Th

262s See 262f

-302w-303s‡ See 301f

General Chemistry (GeCh)

Fall Quarter

4 Gen Prins of Chemistry (5 cr, †4-5; prereq predicted Math GPA 1.9 on ACT; Math Y or Z or col course in alg or soph)
—1, Lect IV MTWF, SciB 175, Spees
—2, Lect V MTWF, SciB 325, Bent
—3, Lect I MWThF, GorC 10 (StP Campus), Brasted
—1, Rec V, C 111, Lab VII-IX M
—2, Rec V, C 115, Lab VII-IX M
—3, Rec V, AH 9, Lab VII-IX M
—4, Rec V, AH 101, Lab VII-IX M
—5, Rec V, MH 213, Lab VII-IX M
—6, Rec V, C 111, Lab VII-IX W
—7, Rec V, C 115, Lab VII-IX W
—8, Rec V, AH 9, Lab VII-IX W
—9, Rec V, AH 101, Lab VII-IX W
—10, Rec V, C 315, Lab VII-IX W
—11, Rec V, C 111, Lab VII-IX F
—12, Rec V, C 115, Lab VII-IX F
—13, Rec V, AH 9, Lab VII-IX F
—14, Rec V, AH 101, Lab VII-IX F
—15, Rec V, FraH 20, Lab VII-IX F
—16, Rec VI, C 111, Lab VII-IX M
—17, Rec VI, FraH B1, Lab VII-IX M
—18, Rec VI, AH 350, Lab VII-IX M
—19, Rec VI, ME 4, Lab VII-IX M
—20, Rec VI, C 315, Lab VII-IX M
—21, Rec VI, C 111, Lab VII-IX W
—22, Rec VI, FraH B1, Lab VII-IX W
—23, Rec VI, AH 350, Lab VII-IX W

—24, Rec VI, MMA 125, Lab VII-IX W
—25, Rec VI, C 315, Lab VII-IX W
—26, Rec VI, C 111, Lab VII-IX F
—27, Rec VI, FraH B1, Lab VII-IX F
—28, Rec VI, AH 350, Lab VII-IX F
—29, Rec VI, FraH 20, Lab VI-IX F
—30, Rec VI, FraH 102, Lab VI-IX F
—4, Lect VI MWThF, SciB 375, Johnson
—31, Rec V, C 111, Lab VII-IX T
—32, Rec V, C 115, Lab VII-IX T
—33, Rec V, AH 9, Lab VII-IX T
—34, Rec V, AH 101, Lab VII-IX T
—35, Rec V, MinMet 120, Lab VII-IX T
—36, Rec VI, C 111, Lab VII-IX T
—37, Rec VI, FraH B1, Lab VII-IX T
—38, Rec VI, AH 350, Lab VII-IX T
—39, Rec VI, C 315, Lab VII-IX T
—40, Rec VI, C 115, Lab VII-IX T
—5, Lect VII MTWF, SciB 325, Reynolds
—41, Rec V, C 111, Lab VII-IX Th
—42, Rec V, C 115, Lab VII-IX Th
—43, Rec V, AH 9, Lab VII-IX Th
—44, Rec V, AH 101, Lab VII-IX Th
—45, Rec V, C 315, Lab VII-IX Th
—46, Rec VI, C 111, Lab VII-IX Th
—47, Rec VI, FraH B1, Lab VII-IX Th
—48, Rec VI, AH 350, Lab VII-IX Th
—49, Rec VI, C 115, Lab VII-IX Th
—50, Rec VI, C 315, Lab VII-IX Th

6 Prins of Solution Chemistry (4 cr; prereq 5 or 15 or 25)
Lect I MWF, C 100, Britton
Lab VI-IX T or W

14 Gen Prins of Chemistry (4 cr, †4-5; prereq Phys 21, 22 or ♯)
—1, Lect I MTWF, SciB 325, Bolton
Rec I Th
Lab VII-IX T
—2, Lect I MTWF, SciB 325, Bolton
Rec I Th
Lab VII-IX Th
—3, Lect IV MWThF, SciB 325, Bolton
Rec IV T
Lab I-III T
—4, Lect IV MWThF, SciB 325, Bolton
Rec IV T
Lab I-III Th

24 Gen Prins of Chemistry (5 cr, †24-25)
Lect II MWF, SciB 325, O'Connor
Lab I-III TTh

24H Honors Course: Gen Prins of Chemistry (5 cr; prereq ♯)
Lect II MWF, C 111, Tobias
Lab I-III TTh

Winter and Spring Quarters

4w See 4f: Lect III MWThF, lab VII-IX, rec V, rec and lab choice of MWF, Lect V MTWF, lab VII-IX, rec VI, rec and lab choice of MWF, Lect VIII MWThF (StP Campus), lab VIII-IX T, rec VI T
-5w See 4f: Lect II MWThF, lab VII-IX, rec V or VI (lab choice of MTWF); Lect IV MTWF, lab VII-IX, rec V or VI (lab choice of MTWF); Lect V MTWF, lab VII-IX, rec V or VI (lab choice of MTWF); Lect VII MTWF, lab VII-IX, rec V or VI (lab choice of MWThF); Lect I MWThF (StP Campus), lab VII-IX, rec V or VI (lab choice of MWThF)
6s See 6f: Lect IV MWF, lab VI-IX MTWThF
-15w See 14f
-25w See 24f: Lect I Th; II W, lab I-III T
-25Hw See 24Hf: Lect II W; I Th, Lab I-III T

Inorganic Chemistry (InCh)

Fall Quarter

96 Senior Thesis (ar cr; prereq 4th yr)
106 Oxidation-Reduction Systematics (3 cr; prereq PCh 101 or 101A)
II MWF, C 315, Hugus
134 Seminar: Modern Probs (1 cr; prereq PCh 103 or 103A, ♯)
IV Th, C 225, Henneike
203 Atomic Structure, Chemical Bond (4 cr; prereq PCh 103 or 103H, OrCh 62)
III MWF, C 315, 1 hr ar, Conroy
206 Adv Inorganic Chemistry (3 cr; prereq ♯)
II MWF, C 315, Hugus
220 Adv Lab Methods (3 cr; prereq ♯)
V T, C 315, Britton, Spees
260 General Survey (1 cr)
301 Research (ar cr)

Winter and Spring Quarters

-97w-98s‡ See 96f
103w-104s Inorganic Chemistry I (3 cr; prereq PCh 102A) III MWF
111s Silicon, Related Elements (3 cr; prereq OrCh 62) VII MWF
122s Adv Inorganic Chemistry (2 cr; prereq AnCh 46, 47, PCh 103 or 103A) Lect I T
-135w-136s See 134f
204w Adv Inorganic Chemistry (4 cr; prereq 203 or ♯) III MWF

205S Adv Inorganic Chemistry (4 cr; prereq 204 or ‡) III MWF
-221w See 220f: IV T
260w,s See 260f
-302w-303s‡ See 301f

Organic Chemistry (OrCh)

Fall Quarter

42 **Elem Organic Chemistry** (5 cr; prereq 41 or 61)
Lect V MTWF, C 325, Leete
Lab Conf V Th, C 325
—1, Lab VI-IX Th, C 390
—2, Lab VI-IX F, C 390

61 **Elem Organic Chemistry** (5 cr; prereq GeCh 5 or 25)
Lect I TWThF, SciB 375, Kreevoy
Lab Conf I M, SciB 375
—1, Lab VI-IX M, C 390
—2, Lab II-V T, C 390
—3, Lab VI-IX T, C 390
—4, Lab VI-IX W, C 390
—5, Lab II-V Th, C 390
—6, Lab VI-IX F, C 390
Lect III MTWF, SciB 325, Dodson
Lab Conf III Th, SciB 325
—7, Lab VI-IX M, C 390
—8, Lab VI-IX T, C 390
—9, Lab VI-IX W, C 390
—10, Lab VI-IX Th, C 390
—11, Lab VI-IX F, C 390

63 **Elem Organic Chemistry** (3 cr; prereq 42 or 62)
III MWThF, SciB 375, Garbisch

65 **Elem Lab** (4 cr; prereq 63 or ¶)
Lab Conf VI TTh, C 325, Koelsch
—1, Lab VI-IX MF, C 390
—2, Lab VI-IX WF, C 390
—3, Lab I-IV T, VII-X Th, C 390
—4, Lab VII-X TTh, C 490
—5, Lab VI-IX WF, C 490

96 **Senior Thesis** (ar cr; prereq 4th yr, ‡)

103 **Spectral Methods for Organic Qualitative Analysis** (4 cr; prereq 65 or 102)
VI MWF, C 115, Fenton, Garbisch

165 **Organic Qualitative Analysis** (4 cr, §65; prereq 63)
Lab Conf VI TTh, C 325, Leete
—1, Lab VII-X TTh, C 490
—2, Lab VI-IX WF, C 490

201 Seminar (1 cr)
7:30-8:30 **pm** W, Ph 210

230 Adv Organic Chemistry (4 cr; prereq 63)
II MWF, C 325, Noland

232 Stereochemistry (3 cr; prereq 230 or ‡)
II TThS, C 225, Dodson

234 Adv Organic Chemistry (3 cr; prereq 232 or ‡)
II MWF, C 225, Borch

261 General Survey (1 cr)

301 Research (ar cr; prereq 238, 239, △)

Winter and Spring Quarters

16s Carbon Compounds (4 cr; prereq GeCh 5) I MWThF

17s Carbon Compounds Lab (1 cr, ¶16; prereq 16 or ¶) VII-IX M

41s Elem Organic Chemistry (5 cr; prereq GeCh 5) Lect IV MTWF, lab conf IV Th, lab VI-IX TWThF

61w See 61f: Lect II MTWF; IV MTWF, lab conf II Th; IV Th, lab II-V TTh, VI-IX MTWThF

-62w See 61f: Lect I TWThF; III MTWF, lab conf I M; III Th, lab VI-IX MTWThF

-62s See 61f: Lect II MWThF; IV MTWF, lab conf II T; IV Th, lab I-IV Th; VI-IX MTWThF

63s See 63f: III MWThF

65s See 65f: Lab conf VI TTh, lab VII-X TTh

-97w-98s‡ See 96f

139w Adv Organic Chemistry Lab (2-5 cr; prereq 64 or 65) Lab conf VIII M

143s Chemistry of Natural Products (3 cr; prereq 63 or ‡) III TThS

144w Heterocyclic Compounds (3 cr; prereq 63 or ‡) III TThS

165s See 165f: Lab conf VI TTh, lab VII-X TTh

-202w-203s‡ See 201f: 7:30-8:30 **pm** W

-231w See 230f

233s Theoretical Organic Chemistry (3 cr; prereq 232, PCh 103, calc or ‡) II MWF

238w-240s Intro to Research (4 cr; prereq 63, 65) II TThS (w); ar (s)

250s Theoretical Organic Chemistry (3 cr; prereq 220, 224 or ‡, PCh 103, integ calc) II TThS

251s Theoretical Organic Chemistry (3 cr; prereq 238 or ‡) I MWF

261w,s See 261f

-302w-303s See 301f

Physical Chemistry (PCh)

Fall Quarter

90 **Intro to Prins of Physical Chemistry** (3 cr; prereq Math 10, 1 yr gen chem, MeAg 25 or 1 yr coll phys)
II MWF, C 115, Livingston

96 Senior Thesis (ar cr; prereq 4th yr)

101A Physical Chemistry (4 cr; prereq 1 yr col chem, Phys 9 or 6 with △, Math 32 or 44)
IV MWFS, SciB 375, Overend

102A Physical Chemistry (4 cr; prereq 1 yr col chem, Phys 9 or 6 with △, Math 32 or 44)
IV MWFS, C 225, Moscowitz

103A Physical Chemistry (4 cr; prereq 101A)
IV MWFS, JohH 113, Humphries

105A Laboratory (1-3 cr; prereq 101 or 102 or 101A or 108)
Lect V M, C 225, Livingston
—1, Lab VI-VIII MW, C 190
—2, Lab VI-VIII TTh, C 190
—3, Lab II-IV TTh, C 190

105B Laboratory (1-3 cr; prereq 101 or 102 or 101A or 108)
Lect V M, C 225, Livingston
—1, Lab VI-VIII MW, C 190
—2, Lab VI-VIII TTh, C 190
—3, Lab II-IV TTh, C 190

106A Laboratory (1-3 cr; prereq 105A)
Lect V M, C 225, Livingston
—1, Lab VI-VIII MW, C 190
—2, Lab VI-VIII TTh, C 190
—3, Lab II-IV TTh, C 190

106B Laboratory (1-3 cr; prereq 105A)
Lect V M, C 225, Livingston
—1, Lab VI-VIII MW, C 190
—2, Lab VI-VIII TTh, C 190
—3, Lab II-IV TTh, C 190

107 Elem Physical Chemistry (3 cr; prereq 1 yr col chem, Phys 6 or 9 with △, Math 25A or 32 or 44)
IV MWF, C 325, Leonhardt

114 Physical Chemistry (4 cr; prereq 101A, 103A)
IV MWFS, C 315, Wertz

204 Atomistics (4 cr; prereq 118, 212)
III TThS, C 115, Mead

250 Seminar: Physical Chemistry (1 cr)
7:00 pm W, C 225

263 General Survey (1 cr)

301 Research (ar cr)

Winter and Spring Quarters

-97w-98s See 96f

101As See 101Af: IV MWFS

102Aw See 102Af: IV MWFS

-103Aw,s See 102Af: IV MWFS (w); IV MWFS (s)

-104As See 102Af: IV MWFS

105Aw,s See 105Af

105Bw,s See 105Bf

106Aw,s See 106Af

106Bw,s See 106Bf

-108w See 107f

112w Atomic, Molecular Structure (3 cr; prereq 103 or 103H or 103A) III TThS

113s Quantum Mechanics (3 cr; prereq 112) III TThS

115w-116s Physical Chemistry (4 cr; prereq 103 or 103H or 104A) IV MWFS

117s Fundamentals of Reaction Kinetics (3 cr; prereq 103 or 103H or 103A) IV MWF

128w Colloid, Surface Chemistry (3 cr; prereq 103 or 103H or 103A) II TThS

-205w-206s See 204f

-251w-252s See 250f

263w,s See 263f

302w-303s‡ See 301f

CIVIL ENGINEERING

Civil Engineering (CE)

Fall Quarter

53 Elements of Soil Mechanics (3 cr; prereq 3rd yr)
—1, Lect III TTh, Ex 25, Kersten
—2, Lect VII TTh, Ex 25
—1, Lab VII-IX M, Ex 154
—2, Lab II-IV T, Ex 154
—3, Lab VII-IX T, Ex 154
—4, Lab VII-IX W, Ex 154
—5, Lab VII-IX Th, Ex 154
—6, Lab VII-IX F, Ex 154

61 Surveying Instrumentation (4 cr; prereq Math 21 or ‡)
Lect II MWF, Ex 193, Fant
—1, Lab VII-X M, Ex 265
—2, Lab VI-IX W, Ex 265
—3, Lab II-V Th, Ex 265
—4, Lab VI-IX F, Ex 265

78 Elem Structural Design: Steel (3 cr; prereq MM 93)
III MWF, Arch 45

81 Elem Structural Analysis (4 cr; prereq MM 35, ¶MM 37)
Lect I MTWF, Ex 193, Andersen
Lab I Th, Ex 193

101 Contracts, Specifications (3 cr; prereq 4th yr or grad or ‡)
III MWF, Arch 60, Westin

111 Land Surveying (3 cr; prereq 63 or ‡)
III MWF, Ex 265, Fant

121 Applications of Linear Programming (3 prereq Math 32)
II MWF, Ex 265, Hanley

126 Approximate Methods of Structural Analysis I (3 cr; prereq 82)
I MWF, Ex 265, Hanley

138 Matrix Methods in Structural Analysis (3 cr; prereq 83)
VII MWF, Ex 193, Graves

139 Structural Dynamics I (3 cr; prereq 83, MM 193, Math 147 or ‡)
8:15-9:30 TTh, Ex 25, Chopra

141A Interm Structural Design (3 cr; prereq 83)
Lect V MWF, AE 225, Graves
—1, Lab VIII-IX M, Ex 193
—2, Lab VIII-IX W, Ex 193
—3, Lab VIII-IX F, Ex 193

146 Concrete, Concrete Materials (3 cr; prereq 51)
Lect IV TTh, Ex 193, Thomas
—1, Lab VI-IX T, Ex 93
—2, Lab VI-IX F, Ex 93

147 Foundations (3 cr; prereq 81)
II TTh, III Th, Ex 193, Andersen

151 Adv Highway Lab (3 cr; prereq 52)
VII-X MW, Ex 255, Thomas

153 Soils in Highway Engineering (3 cr; prereq 53)
IV MWF, Ex 25, Pederson

156 Highway Traffic Engineering (3 cr; prereq 52)
7:50-9:00 TTh, Ex 265, Wolsfeld

158 Airport Design (3 cr; prereq 52)
VI MWF, Ex 25, Kersten

160A Applied Hydraulics (4 cr; prereq Hydr 101 or 103 or 104)
Lect III MWF, E 104, Bowers
—1, Lab VII-IX T, Ex 193
—2, Lab VII-IX W, Ex 25

169 Public Works Engineering (3 cr; prereq 52)
III MWF, Ex 250, Schroepfer

171 Sewerage, Waste Water Treatment (3 cr; prereq 161, 170 or ‡)
Lect I MWF, Ex 25
—1, Lab VII-IX M, Ex 25
—2, Lab VII-IX Th, Ex 193

172 Sanitary Lab (3 cr; prereq 171 or grad)
Lect V MW, Ex 250, Johnson
Lab VI-VIII T, I-III S, Ex 250

173 Sanitary Engineering Prob: Water (3 cr; prereq 170 or grad)
II MWF, Ex 250, Schroepfer

176 Seminar: Sanitary Engineering (1 cr; prereq 171 or grad)
III TTh, Ex 250, Schroepfer

179 Ground Water, Surface Water Quality Probs (3 cr; prereq 170, 171)
Lect I MWF, Ex 250, Susag, lab ar

234 Adv Theory of Structures (3 cr; prereq 142A)
II MWF, Ex 25, Goodman

276 Adv Sanitary Engineering: Water (3-5 cr; prereq 173)
IV TTh, Ex 250, Schroepfer

280 Research (3-5 cr; prereq ‡)
I-II Th, Ex 250

281 Research (3-5 cr; prereq 280)

282 Research (3-5 cr; prereq 281)
IV-V F, Ex 250

Winter and Spring Quarters

1s Laboratory (1 cr...rec 2nd yr) VII-VIII M

51w Highways, Pavements (3 cr; prereq 53, 61) Lect V MTTh, Lab VII-IX MTWThF

-52s Highways, Pavements (3 cr; prereq 51) Lect V MTTh, Lab VII-IX MTWThF

53s See 53f: Lect III TTh, Lab VII-IX TTh

62w Mapping (2 cr; prereq 2nd yr or ‡) Lect I TTh, Lab II-III M; II-III or V-VI W; II-III or V-VI F

63w Land Survey Systems (2 cr; prereq 2nd yr or ‡) III TTh

64s Engineering Surveys (4 cr; prereq 61) Lect II MWF, Lab VI-IX MTWF

-79w-80s See 78f

-82w-83s See 81f: Lect IV MTWF, Lab IV Th

101w See 101f

102w Building, Construction Contracts (3 cr; prereq 101) IV MWF

112s Aerial Surveying, Photogrammetry (3 cr; prereq 62 or ‡) III MWF

113w Land Planning, Subdivision Design (3 cr; prereq 63 or ‡) III MWF

121s See 121f

125w,s Computer Applications (3 cr; prereq 64, 83, 160A or ‡) Lect III TTh (s); IV TTh (w)

136s Adv Topics: Structural Analysis (3 cr; prereq 141A) II MWF

137w Structural Lab (3 cr; prereq 83) Lect III TTh, Lab VI-VIII Th, VII-IX W, VI-VIII T

-142Aw See 141Af: Lect VI MWF, Lab VIII-IX MTTh

143s Design of Shell Structures (3 cr; prereq 142A) IV MWF

145w Structural Design by Ultimate Load Theory (3 cr; prereq 141A) II MWF

146s See 146f: Lect II TTh, Lab VI-IX M or Th

147s See 147f: VI MWF

148w Special Studies in Concrete Materials (2-3 cr; prereq 146) VII-IX MW

152s Highway Design (3 cr; prereq 52) I MWF

154w Design of Highway, Airport Pavements (3 cr; prereq 53) I MWF

159w Soil Mechanics (3 cr; prereq 53) IV MWF

160Aw See 160Af: Lect I MWF, Lab VII-IX T

161w,s Hydrology (3 cr; prereq Hydr 101 or 103) Lect II TTh (w); III TTh (s), VII-IX M (w,s); VII-IX Th (s); VII-IX W (w)

164s Water Conservation (3 cr; prereq 161 or ‡) 7:45-9:00 TTh

166s Water Power (3 cr; prereq 161) Lect VI TTh, Lab VII-IX T

170w,s Water Supply (3 cr; prereq 160A or ‡) Lect I MWF, Lab VII-IX MTh (w); VII-IX WF (s)

171s Sewerage, Waste Water Treatment (3 cr; prereq 161, 170 or ‡) Lect I MWF, Lab VII-IX TTh

174w Sanitary Engineering Probs: Waste Water (3 cr; prereq 171 or grad) II MWF

175s Industrial Waste Disposal (3 cr; prereq 174 or grad) II MWF

-177w-178s‡ See 176f: III T (w only)

180s Solid Waste Disposal Probs (3 cr; prereq 170, 171) IV MWF

227w-228s Approximate Methods of Structural Analysis II (3 cr; prereq 126) III MWF

-235w See 234f: V MWF

236s Shell Structures (3 cr; prereq 132)

244w Structural Dynamics II (3 cr; prereq 139 or ‡) 8:15-9:30 TTh

245s Structural Design for Dynamic Loads (3 cr; prereq 244 or ‡)

246w Harbor Engr (3 cr; prereq grad) 9:45-11:00 TTh

251w,s Adv Soil Mechanics Lab (3 cr; prereq 159 or ¶) VI-IX MF

252w,s Adv Soil Mechanics Lab (3 cr; prereq 251) VI-IX MF

261w Water Plant Design (3-5 cr; prereq 173) III-IV MWF

262s Waste Water Plant Design (3-5 cr; prereq 174)

277w Adv Sanitary Engineering: Waste Water, Industrial (3-5 cr; prereq 174)

280w,s See 280f

-281w,s See 281f

-282w,s See 282f

Hydromechanics (Hydr)

Fall Quarter

101 **Fluid Mechanics** (3 cr; prereq MM 35, Math 31)
IV MWF, Ex 193, Hayden

104 **Fluid Mechanics Lab** (1 cr; prereq 101 or 103 or ChEn 101 or ¶)
—1, VII-VIII M, Ex 138, Johnson
—2, II-III T, Ex 138
—3, VIII-IX T, Ex 138
—4, VII-VIII W, Ex 138
—5, II-III Th, Ex 138
—6, VIII-IX Th, Ex 138

161 **Open Channel Flow** (3 cr; prereq 101 or ‡)
12:45-2:00 TTh, Ex 25, Anderson

167 **Hydraulic Measurements** (3 cr; prereq 101 or ‡)
VI MWF, ChE 40, Ripken

184 **Adv Hydraulic Probs** (2 cr; prereq 161 or ¶ or ‡)

187 **Interm Fluid Mechanics** (3 cr; prereq 101 or 103, 104)
VII MWF, ChE 40, Song

194 **Adv Hydraulics Lab** (2 cr; prereq 101 or 103, 104)

195 **Adv Hydraulics Lab** (2 cr; prereq 194)

196 **Adv Hydraulics Lab** (2 cr; prereq 195)

293 Hydrodynamics of the Boundary Layer (3 cr; prereq 187 or ‡)
7:50-9:00 TTh, ChE 40, Silberman

Winter and Spring Quarters

101w,s See 101f: I MWF (w); III MWF (s); VI MWF (w,s)

104w See 104f: II-III TTh; IV-V W; VI-VII MTh; VIII-IX T

104s See 104f: II-III TTh; VI-VII TTh; VII-VIII MW

162w Natural, Artificial Waterways (3 cr; prereq 161 or ‡) 12:15-1:30 TTh

163s Groundwater Hydraulics (3 cr; prereq 101 or 103) I MWF

168w Hydraulic Pumps, Turbines (3 cr; prereq 101 or ‡) 2:15-3:30 WF

-185w-186s See 184f

187s See 187f

188w Incompressible Potential Flow (3 cr, §Aero 104; prereq 187) 1:45-3:00 TTh

189s Incompressible Boundary Layer Flow (3 cr, §Aero 101A; prereq 187 or ‡) 1:45-3:00 TTh

191s Mechanics of Similitude, Dimensional Analysis (3 cr; prereq 101 or ‡) IV TTh; V Th

194w,s-195w,s-196w,s See 194f-195f-196f

294w Hydrodynamics of the Boundary Layer (3 cr; prereq 293) 7:50-9:00 TTh

295s Hydrodynamics of the Boundary Layer (3 cr; prereq 294) 7:50-9:00 TTh

EARTH SCIENCES

Geology and Geophysics (Geo)

Fall Quarter

1 Physical Geology (5 cr, HS phys, chem rec)
—1, Lect V MWF, AE 211, CCTV, Matsch, Rapp
—2, Lect V MWF, AE 215, CCTV, Matsch, Rapp
—3, Lect V MWF, AE 313, CCTV, Matsch, Rapp
—4, Lect V MWF, AE 317, CCTV, Matsch, Rapp
—5, Lect V MWF, AE 319, CCTV, Matsch, Rapp
—6, Lect V MWF, AE 321, CCTV, Matsch, Rapp
—7, Lect V MWF, AE 327, CCTV, Matsch, Rapp
—8, Lect V MWF, Bu 120, CCTV, Matsch, Rapp
—9, Lect V MWF, Bu 123, CCTV, Matsch, Rapp
—10, Lect V MWF, Owre 113, CCTV, Matsch, Rapp
—11, Lect V MWF, VH 306, CCTV, Matsch, Rapp
—12, Lect V MWF, VH 307, CCTV, Matsch, Rapp
—13, Lect V MWF, CB(W) 130, CCTV, Matsch, Rapp
—14, Lect V MWF, CB(W) 150, CCTV, Matsch, Rapp
—15, Lect VI MWF, AgEng 109, (StP Campus), CCTV, Matsch, Rapp
—1, Rec I T, P 110
—2, Rec II T, P 110
—3, Rec IV T, P 110
—4, Rec V T, P 110
—5, Rec VI T, P 110
—6, Rec I Th, P 110
—7, Rec II Th, P 110
—8, Rec IV Th, P 110
—9, Rec V Th, P 110
—10, Rec VI Th, P 110
—1, Lab I-II M, ForH 180
—2, Lab III-IV M, ForH 180
—3, Lab VIII-IX M, ForH 180
—4, Lab I-II T, ForH 180
—5, Lab III-IV T, ForH 180
—6, Lab I-II W, ForH 180
—7, Lab III-IV W, ForH 180
—8, Lab VIII-IX W, ForH 180
—9, Lab I-II Th, ForH 180
—10, Lab III-IV Th, ForH 180
—11, Lab I-II M, ForH 185
—12, Lab III-IV M, ForH 185
—13, Lab VI-VII M, ForH 185
—14, Lab VIII-IX M, ForH 185
—15, Lab I-II T, ForH 185
—16, Lab III-IV T, ForH 185
—17, Lab VI-VII T, ForH 185
—18, Lab VIII-IX T, ForH 185
—19, Lab I-II W, ForH 185
—20, Lab III-IV W, ForH 185
—21, Lab VI-VII W, ForH 185
—22, Lab VIII-IX W, ForH 185
—23, Lab I-II Th, ForH 185
—24, Lab III-IV Th, ForH 185
—25, Lab V-VI Th, ForH 185

2 Historical Geology (4 cr; prereq 1 or 11)
Lect V MWF, Owre 15, Sloan
—1, Lab III-IV M, ForH 85
—2, Lab VI-VII M, ForH 85
—3, Lab VIII-IX M, ForH 85
—4, Lab I-II T, ForH 85
—5, Lab V-VI T, ForH 85
—6, Lab III-IV W, ForH 85
—7, Lab VIII-IX W, ForH 85
—8, Lab I-II Th, ForH 85
—9, Lab VI-VII Th, ForH 85

11 Intro Physical Geology (5 cr; prereq HS or col chem or ‡)
Lect V MWF, P 110, Weiblen
—1, Rec V T, P 125
—2, Rec VII Th, P 125
—1, Lab VI-VII MW, ForH 180
—2, Lab VIII-IX TTh, ForH 180

99 Senior Research (3 cr; prereq sr geo, ‡)

103 Problems (1-6 cr; prereq ‡)

106 Invertebrate Paleontology (5 cr; prereq 105)
Lect VI TTh, P 105, Bright
Lab VII-IX TTh

107 Vertebrate Paleontology I (5 cr; prereq 105 or Zool 53)
Lect III MWF, P 105, Sloan, lab ar

112 Micropaleontology (3 cr; prereq 105)
VII MWF, P 13, Swain

116 Glacial Geology (3 cr; prereq 2 or 22)
II MWF, P 110, Wright

118 Probs: Geomorphology (3 cr; prereq 115) Hooke

120 Structural Geology (4 cr; prereq 62 or 162 or ‡)
Lect V MWF, P 125, Craddock
Lab V-VI Th, P 125

128 Limnology (4 cr, §Bot 138; prereq GeCh 26, ‡) Shapiro

140 Mineral Systems I (4 cr; prereq 62, trig, 1 yr col phys, chem or ‡)
Lect I MWF, P 110, Zoltai
Lab VI-VII MW, P 100

143 Topics in Petrology (4 cr, §146, 147; prereq 120)
Lect V MWF, P 207C, Grant, lab ar

145 Phase Equilibrium in Mineral Systems (3 cr; prereq 141, PCh 108 or 103)
III MWF, P 207C, Phinney

150 Gen Geochemistry (3 cr; prereq PCh 102 or 108 or ‡)
Lect III MWF, P 125, Murthy
Rec II-III Th, P 125

157 Mineral Fuel Deposits (3 cr; prereq 110, 120 or ‡)
I MWF, P 125, Swain

170 Intro to Earth Physics (3 cr; prereq 2 or 22, Phys 9 or 14 or 23)
III MWF, P 110, Mooney

177 Prin of Electrical Exploration (2 cr; prereq 2 or 22, Phys 9 or 14 or 23, Math 23)
III TTh, P 110, Mooney

Winter and Spring Quarters

1w,s See 1f: Lect V MWF (w,s); VI MWF (w only), rec IV Th (w,s); V T (w); V TTh (s); VI Th (w); VI T (w,s); VII MWTh (w); VII T (s), lab I-II M or T or W or Th (w,s); III-IV M or T or W or Th (w,s) V-VI Th (w); V-VI T or Th (s); VI-VII M or T or W (w), VI-VII M or W (s); VII-VIII Th (w); VII-VIII T or Th (s)

2w,s See 2f: Lect V MWF (w,s); VI MWF (w,s); VII MWF (w only), lab I-II TTh; III-IV MW; V-VI T; VI-VII MWTh; VIII-IX MW

22w Intro Historical Geology (5 cr; prereq 11 or ‡) Lect V MWF, Rec V Th; VII T, Lab III-IV MW, VIII-IX TTh

62s Mineralogy, Lithology (5 cr, §old 23-24; prereq 1 or 11, 1 qtr col chem or ‡) Lect III MWF, Lab V-VI MWF; VII-VIII TThF

99w,s See 99f

103w,s See 103f

105s Intro to Paleontology (5 cr; prereq 2 or 22 or ‡) Lect VII MWF, lab ar

108w Vertebrate Paleontology II (5 cr; prereq 107 or Zool 53) Lect III MWF, lab ar

110w Sedimentology, Stratigraphy (4 cr; prereq 62) Lect II MWF, Lab VI-VII Th

111s Stratigraphy (3 cr; prereq 110)

115s Geomorphology (4 cr; prereq 2 or 22, Math 10 or 15 or ‡...62, Math 21 rec) Lect II MWF, Lab VIII-IX W

121s Adv Structural Geology (3 cr; prereq 120) Lect I MWF

125w Sedimentary Geochemistry (4 cr; prereq PCh 103A or ‡) Lect I TThF, lab ar

126s Sedimentary Petrology (4 cr; prereq 110 or ‡) Lect I TThF, lab ar

131w Ground-Water Geology (3 cr; prereq 1 or 11, Math 23, 1 qtr phys, chem or ‡) Lect ar

141w Mineral Systems II (4 cr; prereq 140) Lect I MWF, lab V-VI MW or TTh

141Aw Mineral Systems IIA (3 cr; prereq 140) Lect I MW, Lab V-VI MW or TTh

142s Mineral Systems III (4 cr, §145 or 150; prereq 141, PCh 102 or 108, Math 31) Lect I MWF, rec I-II T, lab VI-VII MW or TTh

146w Igneous Petrology (3 cr; prereq 145) Lect III MWF

147s Metamorphic Petrology (3 cr; prereq 146) Lect III MWF

151w Nuclear Geology (3 cr; prereq 142, 150 or ‡) Lect III MWF, rec II-III Th

155w Mineral Deposits (3 cr; prereq 120, 142 or ‡) Lect II MWF

156s Mineral Deposits (3 cr; prereq 155 or ‡) Lect II MWF

160w X-ray Mineralogy (3 cr; prereq 140 or ‡) Lect II TTh, lab ar

161s Single Crystal X-ray Diffraction (2 cr; prereq 160 or ‡) Lect II TTh, lab ar

162s Soil Mineralogy (4 cr, not open to geo, min, met maj; prereq 1 or 11 or ‡, 1 term col chem) Lect III MWF, lab V-VI MWF, VII-VIII TThF

163s Electron Microprobe Analysis (2 cr; prereq 160, PCh 103 or Phys 110 or ‡) Lect ar, lab ar

171w Intro to Earthquake Seismology (3 cr; prereq 120 or ‡) Lect III MWF

172s Intro to Exploration Geophysics (3 cr; prereq 2 or 22, Phys 9, 14 or 23) Lect III MWF

175s Prin of Gravity, Magnetic Exploration (3 cr; prereq 1 or 11, Phys 9 or 14 or 23, Math 23) Lect III TTh

176w Prin of Seismic Exploration (3 cr; prereq 2 or 22, Phys 9 or 14 or 23, Math 23) Lect III TTh

230w Methods of Analysis of Natural Waters (3 cr; prereq 128, AnCh 46 or 47, ‡) Lect ar

ELECTRICAL ENGINEERING (EE)

Fall Quarter

30 **Circuit Analysis** (3 cr, §61-62; prereq Phys 14 or 23 or ¶, Math 26A or 26B or 31 or ¶)
—1, II MWF, Arch 50
—2, IV MWF, Arch 55
—3, VII MWF, Arch 60

30A **Laboratory** (1 cr; prereq ¶30, 31)
Lab sec assigned second day of class

31 Circuit Analysis (3 cr, §61-62; prereq 30)
I MWF, Arch 50

31A Laboratory (1 cr; prereq 30A)
Lab sec assigned second day of class

64 Electronics I (4 cr, §104-105; prereq 30-31 or ¶, Phys 50)
Lect 8:00-9:15 TTh, Arch 50
—1, Rec VI-VII T, Arch 140
—2, Rec VIII-IX T, ME 321
—3, Rec VIII-IX W, ME 221
—4, Rec VII-VIII Th, ME 321
Lect IV MWF, Arch 50
—5, Rec VIII-IX M, ME 321
—6, Rec I-II T, ME 208
—7, Rec III-IV T, ME 208
—8, Rec VIII-IX W, Arch 140

74 Electromagnetic Fields (4 cr; prereq Phys 14 or 23, Math 33 or ¶, ‡)
Lect 9:45-11:00 TTh, Arch 35
—1, Rec V-VI Th, ME 214
—2, Rec VII-VIII Th, ME 214
—3, Rec VI-VII T, ME 214
—4, Rec VIII-IX F, ME 321
Lect III MWF, Arch 50
—5, Rec VIII-IX M, Arch 140
—6, Rec I-II Th, ME 208
—7, Rec III-IV Th, ME 208
—8, Rec VIII-IX F, ME 208

84 Jr Electrical Engineering Lab (2 cr; prereq ¶64-65, Engl 85A-B)
Lect V T, ME 4
—1, Lab VII-IX M, EE 205
—2, Lab VII-IX M EE 216
—3, Lab I-III T, EE 205
—4, Lab I-III T, EE 216
—5, Lab VII-IX T, EE 205
—6, Lab VII-IX T, EE 216
—7, Lab VII-IX W, EE 205
—8, Lab VII-IX W, EE 216
—9, Lab I-III Th, EE 205
—10, Lab VI-VIII Th, EE 205
—11, Lab VI-VIII Th, EE 216
—12, Lab VII-IX F, EE 205
—13, Lab VII-IX F, EE 216

99A Special Investigations (ar cr; prereq ‡ faculty sponsor)

101 Summer Engineering Employment (1-3 cr; prereq 2 yrs engin, ‡)

102 Summer Engineering Employment (1-3 cr; prereq 101, ‡)

108 Linear System Analysis (3 cr; prereq 107)
—1, IV MWF, Arch 40
—2, 9:45-11:00 TTh, Arch 50

110 Electromechanics (3 cr; prereq 76, MM 36, Math 60A or ¶)
—1, II MWF, Arch 55
—2, V MWF, Arch 55

117 Electronic Circuits (3 cr; prereq 65, 107 for EE maj, others Math 60A, ‡)
—1, VII MWF, Arch 50
—2, 8:15-9:30 TTh, Arch 35

124 Sr Electrical Engineering Lab (2 cr; prereq ¶110, 117)
—1, VII-IX M, EE 107, VII W, ME 208
—2, VII-IX M, EE 210, VII W, ME 214
—3, I-IV T, EE 107
—4, I-IV T, EE 210
—5, VI-IX T, EE 107
—6, VI-IX T, EE 210
—7, VII-IX W, EE 107, VII M, ME 214
—8, VII-IX W, EE 210, VII M, ME 221
—9, I-IV Th, EE 107
—10, I-IV Th, EE 210
—11, V-VIII Th, EE 107
—12, V-VIII Th, EE 210

150 Dynamical Methods (3 cr; prereq MM 36, Math 147 or ‡)
3:45-5:00 MW, Arch 40

167 Electromagnetic Theory, Applications (3 cr; prereq 76, grad or ‡)
11:15-12:30 TTh, AE 225

170 Linear Network Theory (3 cr; prereq 108, ‡)
12:45-2:00 TTh, ME 106

173A Semiconductor Properties, Devices (3 cr; prereq grad standing or ‡)
2:15-3:30 MW, AE 225

178 Nonlinear Circuit Analysis (3 cr; prereq 118 or ‡)
2:15-3:30 TTh, ME 106

186A Communications Theory (3 cr; prereq grad EE or ‡)
II MWF, ME 208

190A Digital Computer Systems (3 cr; prereq 118 or ‡)
9:45-11:30 TTh, E 330

194 Control Theory (3 cr; prereq 108 or ‡)
3:45-5:00 MW, AE 225

197A Power System Analysis (3 cr; prereq ‡)
8:15-9:30 TTh, E 330

242 Plasma Physics (3 cr; prereq 152, ‡)

250A Quantum Electronics (3 cr; prereq 152, 169, Phys 110 or ‡)

251A Properties of Semiconductors (3 cr; prereq 200C, ‡)

261A Probs: Electromagnetism (3 cr; prereq 169, ‡)

263A Seminar: Control Theory (ar cr; prereq ‡)

264A Seminar: Surface Physics (ar cr; prereq ‡)

267 Statistical Theory of Communication (3 cr; prereq 186C or ‡)

294 Adv Control Topics (3 cr; prereq ‡)

297A Nonlinear Systems (3 cr; prereq Math 148, ‡)

Winter and Spring Quarters

30w,s See 30f: I MWF (s); III or V or VII MWF (w)
30Aw,s See 30Af
31w,s See 31f: II or IV MWF (w); III or V or VII MWF (s)
31Aw,s See 31Af
64s See 64f: Lect VI MWF, rec VII-VIII Th; VIII-IX W
-65w See 64f
74w-75s See 74f: Lect I MWF, rec III-IV T; VIII-IX M
-75w-76s See 74f
84s See 84f: Lect V Th, Labs VI-VIII Th; VII-IX M; VII-IX T
-85w-86s See 84f
-99Bw-99Cs See 99Af
107s Linear System Analysis (3 cr; prereq 31, Math 60A) 8:00-9:15 TTh; IV MWF
-118w See 117f
127Aw-127Bs Network Synthesis (4 cr; prereq 108 or ‡) Lect VII MWF, lab ar
128Aw-128Bs Communications (4 cr; prereq 108, Stat 90) Lect II MWF, lab ar
129Aw-129Bs Control Systems (4 cr; prereq Math 60A, 108 or ‡) Lect IV MWF, lab ar
130Aw-130Bs Applications of Electromagnetic Theory (4 cr; prereq 76) Lect MWF, lab ar
131Aw-131Bs Applied Electronics I (4 cr; prereq 117) Lect I MWF, lab ar
134Aw-134Bs Direct Energy Conversion (4 cr; prereq 64, 76, ME 30) Lect 9:45-11:00 TTh, lab ar
135Aw-135Bs Prin of Computer Engineering (4 cr; prereq 108) Lect 9:45-11:00 TTh, lab ar
138Aw-138Bs Electric Power Systems (4 cr; prereq 108, 110) Lect V MWF, lab ar
141Aw-141Bs Physical Electronics (4 cr; prereq 64 or 104, Phys 51 or ‡) Lect V MWF, lab ar
147Aw-147Bs Applied Electromechanics (4 cr; prereq 108, 110 or ‡) Lect 8:15-9:30 TTh, lab ar
151w Thermodynamic Methods (3 cr; prereq 150 or ‡) 3:45-5:00 MW
152s Statistical-Mechanical Methods (3 cr; prereq 150, ‡) 3:45-5:00 MW
-168w-169s See 167f: Lect IV TTh, lab ar
-171w-172s See 170f: 12:45-2:00 TTh
173Bw-173Cs See 173Af: 2:15-3:30 MW
-179w-180s See 178f
-186Bw-186Cs See 186Af
-190Bw-190Cs See 190Af
-195w-196s See 194f
-197Bw-197Cs See 197Af
200Aw-200Bs Solid State Physics (3 cr, §Phys 231A; prereq Phys 181A or ‡)
-243w-244s See 242f
-250Bw-250Cs See 250Af
-251Bw-251Cs See 251Af
-261Bw-261Cs See 261Af
-263Bw-263Cs See 263Af
-264Bw-264Cs See 264Af
-268w-269s See 267f
-295w-296s See 294f
-297Bw-297Cs See 297Af

MATHEMATICS (Math)

Fall Quarter

Z **Preparatory Mathematics** (no cr)
—1, I MTWThF, ChE 54
—2, I MTWThF, AE 211
—3, I MTWThF, AE 215
—4, I MTWThF ForH 349
—5, II MTWThF, ForH 130
—6, II MTWThF, ChE 40
—7, II MTWThF, ChE 54
—8, III MTWThF, ME 106
—9, III MTWThF, ForH 170
—10, IV MTWThF, MinMet 116
—11, IV MTWThF, ForH 130
—12, IV MTWThF, ME 102
—13, V MTWThF, Ph 143
—14, V MTWThF, MMA 125
—15, V MTWThF, MinMet 116
—16, V MTWThF, E 302
—17, VI MTWThF, ME 110
—18, VI MTWThF, ME 102
—19, VI MTWThF, ForH 130
—20, VI MTWThF, ForH 170
—21, VII MTWThF, Arch 135
—22, VII MTWThF, ME 102
—23, VII MTWThF, E 203
—24, VII MTWThF, ChE 54
—25, VIII MTWThF, ForH 60
—26, VIII MTWThF, Arch 20
—27, VIII MTWThF, ForH 70
—28, IX MTWThF, E 229
—29, II MTWThF, McNH 48 (StP Campus)
—30, II MTWThF, AgBot 107 (StP Campus)
—31, III MTWThF, Agr 202 (StP Campus)
—32, III MTWThF, Hr 102 (StP Campus)
—33, IV MTWThF, Hr 12 (StP Campus)

T **Trigonometry** (3 cr; prereq plane geom, HS higher alg, qualifying score ACT, ¶10)
—1, I MWF, ForH 175
—2, I MWF, ForH 285
—3, I MWF, ForH 130

—4, II MWF, Ph 236A
—5, II MWF, MurH 311
—6, IV MWF, MurH 420
—7, IV MWF, ForH 155
—8, V MWF, ForH 160
—9, V MWF, E 104
—10, V MWF, E 203
—11, VI MWF, E 330
—12, VI MWF, E 227
—13, VII MWF, E 217
—14, VIII MWF, E 227
—15, VIII MWF, ForH 30
—16, II MWF, McNH 201 (StP Campus)
—17, III MWF, McNH 201 (StP Campus)
—18, IV MWF, GH 202 (StP Campus)

5A Foundations of Arithmetic (3 cr, 0 cr for CLA students; prereq elem educ, 1 yr elem alg, 1 yr HS geom or △)
—1, II MWF, Z 313
—2, IV MWF, ChE 240
—3, VI MWF, ForH 55
—4, VII MWF, Arch 55

10 College Algebra, Analytic Geometry (5 cr, §15; prereq HS higher alg, qualifying score ACT)
—1, II MTWThF, MinMet 116
—2, III MTWThF, Arch 5
—3, IV MTWThF, CB(W) 110
—4, V MTWThF, ForH 55
—5, VI MTWThF, MinMet 120
—6, II MTWThF, GH 211 (StP Campus)
—7, II MTWThF, GH 202 (StP Campus)
—8, III MTWThF, PP 103 (StP Campus)
—9, III MTWThF, GH 202 (StP Campus)
—10, IV MTWThF, GH 202 (StP Campus)
—11, IV MTWThF, McNH 201 (StP Campus)
—12, V MTWThF, GH 202 (StP Campus)
—13, V MTWThF, GH 211 (StP Campus)
—14, VI MTWThF, GH 211 (StP Campus)
—15, VI MTWThF, McNH 201 (StP Campus)

10A Algebra, Analytic Geometry, Elem Functions (5 cr, §10, 15; prereq HS higher alg, T or trig, placement score)
—1, I MTWThF, ForH 60
—2, I MTWThF, ForH 115
—3, II MTWThF, ForH 155
—4, II MTWThF, ChE 158
—5, III MTWThF, ForH 40
—6, III MTWThF, AE 209
—7, III MTWThF, ForH 60
—8, IV MTWThF, ChE 40
—9, IV MTWThF, CB(W) 225
—10, IV MTWThF, ChE 150
—11, V MTWThF, CB(W) 110
—12, V MTWThF, ChE 154
—13, V MTWThF, ChE 158
—14, VI MTWThF, E 4
—15, VI MTWThF, Arch 5
—16, VI MTWThF, ChE 158
—17, VII MTWThF, E 215
—18, VII MTWThF, A 201
—19, VIII MTWThF, ForH 285
—20, VIII MTWThF, C 115

15 College Algebra (5 cr, §10; prereq HS higher alg, T or HS trig, qualifying score ACT)
—1, I MTWThF, ForH 170
—2, I MTWThF, Arch 5
—3, I MTWThF, ChE 158
—4, I MTWThF, ForH 30
—5, II MTWThF, Arch 5
—6, IV MTWThF, AE 309
—7, IV MTWThF, ChE 158
—8, IV MTWThF, ChE 162
—9, V MTWThF, ForH 175
—10, V MTWThF, Arch 5
—11, V MTWThF, ForH 40
—12, V MTWThF, MurH 311
—13, VI MTWThF, CB(W) 145
—14, VI MTWThF, AE 225
—15, VII MTWThF, ChE 162
—16, VII MTWThF, Arch 5
—17, VIII MTWThF, ForH 40
—18, VIII MTWThF, ChE 158
—19, VIII MTWThF, ForH 150
—20, VIII MTWThF, ChE 154
—21, IX MTWThF, E 303

15H Honors Course: College Algebra (2 cr; prereq 15 or ¶15)
II TTh, E 215

21A Analysis I: Algebra, Trigonometry, Analytic Geometry (5 cr; prereq 4 yrs HS math incl trig, primarily for IT students)
—1, I MWF, Arch 35, I TTh, E 229
—2, I MWF, Arch 35, I TTh, Arch 25
—3, I MWF, Arch 35, I TTh, ForH 130
—4, I MWF, Arch 35, I TTh, E 215
—5, I MTWThF, E 104
—6, II MWF, Arch 35, II TTh, E 104
—7, II MWF, Arch 35, II TTh, E 106
—8, II MWF, Arch 35, II TTh, E 203
—9, II MWF, Arch 35, II TTh, E 229
—10, II MTWThF, E 217
—11, III MWF, Arch 35, III TTh, E 315
—12, III MWF, Arch 35, III TTh, E 229
—13, III MWF, Arch 35, III TTh, E 217
—14, III MWF, Arch 35, III TTh, ForH 285
—15, IV MTWThF, Arch 35
—16, IV MTWThF, E 227
—17, V MWF, Arch 35, V TTh, E 229
—18, V MWF, Arch 35, V TTh, E 320
—19, V MWF, Arch 35, V TTh, Arch 130
—20, V MWF, Arch 35, V TTh, E 203
—21, V MTWThF, E 106

—22, VI MTWThF, Arch 35
—23, VI MTWThF, E 203
—24, VII MWF, Arch 35, VII TTh, E 104
—25, VII MWF, Arch 35, VII TTh, E 106
—26, VII MWF, Arch 35, VII TTh, E 226
—27, VII MWF, Arch 35, VII TTh, E 229
—28, VII MTWThF, ForH 130
—29, VIII MTWThF, ChE 162
—30, IX MTWThF, E 315

21H Honors Course: Calculus I—Calculus, Analytic Geometry (5 cr)
III MTWThF, E 227

22 Calculus II: Calculus, Analytic Geometry (5 cr; prereq 13A or 21)
—1, V MTWThF, E 217
—2, VI MTWThF, E 229
—3, VIII MTWThF, ForH 130

22A Analysis II: Analytic Geometry, Calculus (5 cr; prereq 21A)
—1, III MTWThF, E 4
—2, IV MTWThF, E 104

23 Calculus III: Calculus, Analytic Geometry (5 cr; prereq 22 or 24A)
—1, I MWF, AE 209, I TTh, E 302
—2, I MWF, AE 209, I TTh, AE 209
—3, I MWF, AE 209, I TTh, MinMet 116
—4, I MWF, AE 209, I TTh, MinMet 124
—5, III MTWThF, ChE 40
—6, V MTWThF, E 227
—7, VI MTWThF, E 106
—8, VII MTWThF, ChE 150
—9, VIII MTWThF, ChE 40

30 Fortran Survey, Orientation (1 cr; prereq 15 or 21)
IX Th, Ph 133

31 Calculus IV: Calculus, Analytic Geometry (5 cr; prereq 23)
—1, I MWF, Arch 55, I TTh, E 227
—2, I MWF, Arch 55, I TTh, E 203
—3, I MWF, Arch 55, I TTh, AE 21
—4, I MWF, Arch 55, I TTh, E 340
—5, II MTWThF, E 227
—6, II MTWThF, AE 21
—7, III MWF, C 225, III TTh, E 104
—8, III MWF, C 225, III TTh, E 203
—9, III MWF, C 225, III TTh, E 320
—10, III MWF, C 225, III TTh, E 303
—11, IV MTWThF, ForH 115
—12, V MWF, Ph 131, V TTh, E 104
—13, V MWF, Ph 131, V TTh, ME 102
—14, V MWF, Ph 131, V TTh, ME 321
—15, V MWF, Ph 131, V TTh, Arch 140
—16, VI MTWThF, E 303
—17, VII MWF, Ph 131, VII TTh, E 340
—18, VII MWF, Ph 131, VII TTh, E 320
—19, VII MWF, Ph 131, VII TTh, E 315
—20, VII MWF, Ph 131, VII TTh, E 303

31H Honors Course: Calculus IV (5 cr; prereq ♯)
IV MTWThF, ChE 54

32 Calculus V: Calculus, Linear Algebra, Differential Equations (5 cr; prereq 31)
—1, I MTWThF, E 217
—2, III MTWThF, E 106
—3, V MTWThF, E 215
—4, VI MTWThF, E 320
—5, VI MTWThF, E 104

33 Calculus VI: Vector Calculus, Differential Equations (5 cr; prereq 32)
—1, II MTWThF, ForH 170
—2, VII MTWThF, ChE 158

40 Calculus (5 cr, §42; prereq 15 or 10, T or HS trig)
—1, I MTWThF, C 225
—2, III MTWThF, E 226
—3, V MTWThF, MinMet 124
—4, V MTWThF, ForH 130
—5, VII MTWThF, E 4
—6, IX MTWThF, E 340

42 Analytic Geometry, Calculus I (5 cr, §40; prereq 15 or 10, T or HS trig)
—1, I MTWThF, E 4
—2, II MTWThF, AE 211
—3, III MTWThF, E 215
—4, IV MTWThF, E 106
—5, VI MTWThF, E 226
—6, VII MTWThF, AE 21
—7, VIII MTWThF, ForH 175
—8, IX MTWThF, E 320

43 Analytic Geometry, Calculus II (5 cr; prereq 42 or 40 with grade A or B)
—1, I MTWThF, ForH 40
—2, I MTWThF, E 303
—3, III MTWThF, AE 21
—4, V MTWThF, ForH 30
—5, VII MTWThF, ForH 30
—6, VII MTWThF, Arch 20
—7, VIII MTWThF, ChE 54

44 Analytic Geometry, Calculus III (5 cr; prereq 43)
—1, I MTWThF, E 106
—2, I MTWThF, E 226
—3, III MTWThF, ForH 30
—4, V MTWThF, E 226
—5, VII MTWThF, ForH 40
—6, VIII MTWThF, ForH 170

44H Honors Course: Analytic Geometry, Calculus III (2 cr; prereq 43H, ¶44)
III TTh, ChE 54

55 Interm Calculus (3 cr; prereq 44)
—1, II MWF, ForH 30
—2, III MWF, ChE 54
—3, V MWF, ForH 170
—4, VII MWF, ForH 160

60 Synthetic Metric Geometry (3 cr; prereq 42)
—1, I MWF, Arch 130
—2, VI MWF, ForH 30
—3, VI MWF, AE 313

60A Operational Methods for Linear Systems (3 cr; prereq 26A or 27 or 32)
—1, I MWF, E 227
—2, I MWF, E 315
—3, VI MWF, ChE 54
—4, VI MWF, E 315
—5, VIII MWF, E 215

63 Linear Algebra (3 cr, §149; prereq 43)
—1, II MWF, E 104
—2, VI MWF, ForH 160

65 Programming Modern Digital Computers (4 cr, §165A or 166; prereq 26A or 27 or 32 or ¶ or ♯)
—1, VI MWF, Arch 45
—2, VII MWF, ForH 115

80A Foundations of Arithmetic (3 cr; prereq 44)
VII-VIII MW, ForH 55, Fuhrken

106 Differential Equations (3 cr, §26A or 27 or 32; prereq 55)
—1, II MWF, E 226
—2, V MWF, ForH 285

107 Adv Calculus (3 cr; prereq 26A or 26B or 32 or 55)
—1, II MWF, ChE 150
—2, V MWF, E 229

112 Elem Set Theory (3 cr; prereq 25A or 26B or 32 or 44)
II MWF, E 215, Locker

112A Mathematical Logic (3 cr; prereq 26A or 26B or 32 or 55 or Phil 155 or ♯)
IV MWF, ForH 30, Rosenstein

117A Geometry (3 cr; prereq 25A or 26B or 32 or 44)
VI MWF, E 215, Pedoe

130A Intro to Analysis (3 cr; prereq 26A or 26B or 32 or 55)
—1, II MWF, ChE 154, Thompson
—2, III MWF, E 217, Brooks
—3, VII MWF, E 315, Joichi

131A Linear Algebra, Group Theory (3 cr, §142, 143, 149, 180; prereq 25A or 26B or 32 or 44)
—1, IV MWF, E 226, Pruitt
—2, VI MWF, ForH 40, Fuhrken
—3, VI MWF, ForH 70, Gil de Lamadrid
—4, VII MWF, E 104, S Gaal

131C Linear Algebra, Group Theory (3 cr, §142, 143, 149, 180; prereq 131B)
VII MWF, ForH 60

142 Linear Algebra (3 cr, §131A-B-C, 149; prereq 25A or 26B or 32 or 44)
IV MWF, E 217

144 Fourier Series, Orthogonal Functions (3 cr; prereq 108 or 153 or ♯)
VII MWF, ForH 150, Riviere

147 Vector Analysis (3 cr; prereq 25A or 26B or 32 or 55)
—1, I MWF, E 203
—2, II MWF, E 203
—3, II MWF, ForH 160
—4, III MWF, E 340
—5, IV MWF, E 203
—6, VII MWF, AE 211
—7, VIII MWF, E 104
—8, VIII MWF, E 229

149 Determinants, Matrices (3 cr, §63 or 131A; prereq 25A or 26B or 32 or 44)
—1, II MWF, E 106
—2, VII MWF, ForH 170

153 Adv Calculus II (3 cr; prereq 108 or 151)
IV MWF, E 303

157 Methods of Applied Mathematics (3 cr; prereq 108 or 151 or ♯)
—1, III MWF, Arch 20, Striebel
—2, III-IV TTh, Arch 20, Wilde
—3, VII MWF, AE 215, Indritz

164 Theory, Programming of Modern Digital Computers (3 cr, §65 or 165A; prereq 26A or 27 or 32 or 55 or ♯)
VI MWF, Ph 133, Stein

167 Fourier Series, Boundary Values Probs (3 cr, §173; prereq 32 or 106)
—1, IV MWF, E 215
—2, IV MWF, E 315
—3, VII MWF, AE 313

173 Elem Partial Differential Equations (3 cr, §167, 168; prereq 26A or 27 or 32 or 106 or ♯)
—1, II MWF, E 315, Sibuya
—2, II MWF, E 303, Gustafson
—3, III MWF, E 315, Green
—4, III MWF, E 229, Juberg
—5, VII MWF, E 302, Meyers
—6, VIII MWF, E 217, Kahane

178A Probability (3 cr; prereq 108 or 151 or Stat 133 or ♯)
III-IV TTh, MinMet 104, McCarthy

184 Numerical Analysis in Engineering (3 cr; prereq 26A or 27 or 32 or 106)
III MWF, Ph 131, Munro

190A Gen, Algebraic Topology (3 cr; prereq 131A or ¶131A)
—1, I MWF, E 320, Aeppli
—2, I MWF, E 215, Reich

192 Theory of Approximation in Numerical Analysis (3 cr; prereq 168A or 175, 185 or ♯)
VIII MWF, AE 211, Leavitt

199A Prob Course (3 cr; prereq ♯)
VIII MWF, E 226, Konhauser

202A Adv Logic (3 cr; prereq 112C or ♯)
VII MWF, E 226, Pour-El

203A Topics: Logic (3 cr; prereq 112C or ♯)
V MWF, E 303, Engeler

205A Gen Algebra (3 cr, §201A; prereq 131B or 143 or ♯)
—1, VI MWF, E 340, Kahn
—2, VII MWF, E 229, Sagle

209A Group Theory (3 cr; prereq 205C or ‡)
I MWF, E 340, Keller

221A Complex Analysis (3 cr; prereq 130C or 173-174-175 or ‡)
—1, II MWF, ForH 40, Sine
—2, III MWF, E 320, Kelingos
—3, IV MWF, E 4, Miracle

222A Real Analysis (3 cr, §245A or 287; prereq 130C or 221C or ‡)
—1, II MWF, ForH 50, Argabright
—2, II MWF, ForH 60, Kallianpur
—3, VI MWF, E 217, S Gaal

228A Topics: Theory of Analytic Functions (3 cr, §267; prereq 221C or ‡)
IV MWF, E 229, Storvick

229A Theory of Quasiconformal Mapping (3 cr; prereq 221C)
III MWF, ChE 158, Reich

230A Topics: Several Complex Variables (3 cr; prereq ‡)
VII MWF, E 303, Aeppli

231A Dirichlet Series (3 cr; prereq 175 or ‡)
VIII MWF, E 303, Brauer

234A Ergodic Theory (3 cr; prereq 222A-B-C)
VII MWF, E 320, Chacon

235A Functional Analysis (3 cr, §290; prereq 222C or ‡)
IV MWF, ForH 40, Rejto

236A Linear Spaces, Operator Theory (3 cr, §252A; prereq 205C, 222C or ‡)
VIII MWF, E 315, Kalisch

238A Banach Algebras, Harmonic Analysis (3 cr, §239A; prereq 205C, 222C or ‡)
II MWF, E 320, Richards

246A Topics: Point Set Topology (3 cr, §213A; prereq 190C or ‡)
V MWF, E 315, Slye

248A Homotopy Theory (3 cr, §235A; prereq 190C or ‡)
VIII MWF, E 203, Puppe

250A Riemannian Geometry (3 cr, §217; prereq 115C or ‡)
VI MWF, Arch 20, Pohl

252A Lie Groups, Algebras (3 cr, §224A; prereq 205C or ‡)
VII-VIII MW, E 106, Guggenheimer

260A Theory of Probability (3 cr, §258; prereq 222C or ‡)
VI MWF, ForH 115, Fristedt

261A Stochastic Processes (3 cr, §284A; prereq 260C or ‡)
VIII MWF, E 320, Jamison

266A Theory of Ordinary Differential Equations (3 cr, §271, 284; prereq 130C, 150 or ‡)
IV MWF, E 320, Harris

268A Topics: Differential, Difference Equations (3 cr, §304; prereq ‡)
V MWF, E 320, Sell

271A Partial Differential, Integral Equations of Applied Mathematics (3 cr, §274A; prereq 153 or 175 or ‡)
II MWF, E 229, Cannon

272A Theory of Partial Differential Equations (3 cr, §275A; prereq 130C, 150 or ‡)
VII MWF, E 340, Littman

273A Topics: Partial Differential Equations (3 cr; prereq 223, 272C or ‡)
IV MWF, E 340, Aronson

276A Calculus of Variations, Minimal Surfaces (3 cr, §277; prereq 130C, 150 or ‡)
II MWF, E 340, Nitsche

284A System Programming (3 cr; prereq 164, 165, 166 or ‡)
VIII MWF, E 340, Frankowski

286A Adv Methods of Applied Mathematics (3 cr; prereq 159 or ‡)
II-III TTh, E 340, Loud

291 Mathematical Aspects of Boundary Layer (3 cr, §242; prereq 150, 153 or 175 or ‡)
III MWF, E 203, Serrin

296A Probs: Theoretical Physics (3 cr, §307; prereq ‡)
V MWF, E 340, W Miller

Winter and Spring Quarters

Zw See Zf: I or II or III or IV or V or VI or VII or VIII MTWThF; IV MTWThF **(StP Campus)**

Zs See Zf: I or II or III or IV or V or VI or VIII MTWThF

Tw See Tf: I or II or III or IV or V or VI or VII or VIII MWF; III or IV MWF **(StP Campus)**

Ts See Tf: I or II or III or IV or V or VI or VIII MWF; IV MWF **(StP Campus)**

5Aw,s See 5Af: II or V or VII MWF (w); II or VI MWF (s); 4:15-5:30 MW (s)

5Bw,s Foundations of Arithmetic (3 cr, or towards degree for elem ed students only) II or IV or VI MWF (w); IV or VI MWF (s)

10w See 10f: I or III or IV or V or VI MTWThF; II or III or IV or V or VI MTWThF **(StP Campus)**

10s See 10f: I or II or III or IV or V or VI MTWThF; I or II or III or IV MTWThF **(StP Campus)**

10Aw,s See 10Af

14s Laboratory (1 cr; prereq 2nd yr) VI-VII T

15w See 15f: I or II or III or IV or V or VII or VIII MTWThF

15s See 15f: I or III or V or VI or VII or VIII MTWThF

20w,s Investment (5 cr; prereq 10 or 15) IV MTWThF (w); I MTWThF (s)

21w,s Calculus I: Calculus, Analytic Geometry (5 cr; prereq 12 or 4 yrs HS math including trig) I or II or III or IV or V or VI or VII or VIII MTWThF (w); IV or VI MTWThF (s)

22w Calculus II: Calculus, Analytic Geometry (5 cr; prereq 13A or 21) I or II or III or IV or V or VI or VII or VIII MTWThF

22s Calculus II: Calculus, Analytic Geometry (5 cr; prereq 13A or 21) I or II or III or VI MTWThF

22Aw,s Analysis II: Analytic Geometry, Calculus (5 cr; prereq 21A) I or II or III or IV or V or VI or VII or VIII MTWThF (w); I or II or III or VI MTWThF (s)

23w See 23f: I or V or VII MTWThF

23s See 23f: I or II or III or IV or V or VI or VII MTWThF)

23As Analysis III: Analytic Geometry, Calculus (5 cr; prereq 22A) I or II or III or IV or V or VI or VII MTWThF

23Aw Analysis III: Analytic Geometry, Calculus (5 cr; prereq 22A) III or VII MTWThF

30w,s See 30f: VIII Th (w); VII Th (s)

31w,s See 31f: I or II or III or IV or V or VI or VII or VIII MTWThF (w); I or III or V or VII MTWThF (s)

32w See 32f: I or II or III or V or VII MTWThF

32s See 32f: I or II or III or IV or V or VI or VII or VIII MTWThF

32Hw Honors Course: Calculus V (5 cr; prereq 31H) IV MTWThF

33w,s See 33f: I or III or VI MTWThF (w); I or II or III or V MTWThF (s)

33Hs Honors Course: Calculus VI (5 cr; prereq 32H) IV MTWThF

40s See 40f: I or II or IV or V or VI or VII MTWThF

40Aw Intro to Calculus of One, Several Variables (5 cr, §40 or 42; prereq 10A) I or II or III or IV or V or VI or VII or VIII MTWThF

42w,s See 42f: I or II or III or IV or V or VI or VII or VIII MTWThF (w), III MTWThF **(StP Campus)** (w); I or III or VI or VII or VIII MTWThF (s)

42Hw Honors Course: Analytic Geometry, Calculus I (2 cr; prereq 15H, 42 or 15H, ¶42) II TTh

43w,s See 43f: I or III or VI or VIII MTWThF (w); I or II or III or IV or V or VI or VII or VIII MTWThF (s); II MTWThF **(StP Campus)** (s)

43Hs Honors Course: Analytic Geometry, Calculus II (2 cr; prereq 42H, 43 or 42H, ¶43) II TTh

44w,s See 44f: I or III MTWThF (w,s); IV or V or VII MTWThF (w); V or VI or VII MTWThF (s)

55w,s See 55f: I or III or VI or VII MWF (w); III or V or VII MWF (s)

60w,s See 60f: II MWF (w); I or II or IV MWF (s)

60Aw,s See 60Af: I or VI MWF (w); IV MWF (s)

63w,s See 63f: V or VI or VIII MWF (w); IV or VI or VII MWF (s)

65w,s See 65f: IV or VI MWF (w); VI or VII MWF (s)

80Bw Foundations of Algebra (3 cr; prereq 44) VII-VIII MW

80Cs Foundations of Geometry (3 cr; prereq 60) VII-VIII MW

104s Variational Probs (3 cr; prereq 148 or 150 or 153 or ‡) VII MWF

106w,s See 106f: V MWF (w,s)

107w-108s See 107f: II or V or VII MWF (w); V or VII MWF (s)

109s Theory of Numbers (3 cr; prereq 25A or 26B or 32 or 44) II MWF

-112Bw-112Cs See 112Af: IV MWF (w,s)

-117Bw-117Cs See 117Af: VI MWF (w,s)

125Aw-125Bs Critical Reasoning in Mathematical Analysis (3 cr; prereq 25A or 26B or 32 or 44) III MWF (w,s)

-130Bw-130Cs See 130Af: II or III or VII MWF (w,s)

131Aw-131Bs See 131Af: VII MWF

-131Bw-131Cs See 131Af: IV or VI or VII MWF (w,s)

133Bw-134Bs Probability with Technological Applications (3 cr; prereq Stat 131, ‡) VI MWF

135s Integral Equations (3 cr; prereq 26A or 27 or 32 or 106) III MWF

-143w See 142f

-145w-146s See 144f

147w,s See 147f: I or V MWF (w,s)

148w Differential Equations (3 cr, §150; prereq 26A or 27 or 32 or 106) I or II or III or IV or VII or VIII MWF

149w,s See 149f: V MWF (w); I or II or III or V or VII or VIII MWF (s)

150w,s Ordinary Differential Equations (3 cr, §148; prereq 26A or 27 or 32 or 106) IV MWF (w); I MWF (s)

151w,s Adv Calculus I (3 cr; prereq 25A or 26B or 32 or 55) I or III or IV or V MWF (w); IV MWF (s)

153s See 153f: I or III or IV or V MWF

-158w-159s See 157f: III or VII MWF (w,s); III-IV TTh (w,s)

-165w-166s See 164f: VI MWF (w,s)

168Aw Theory of Complex Variables (3 cr; prereq 108 or 147, 148, 149 or 151, 153 or ‡) IV or VII MWF

168Bs Applications of Complex Variables (3 cr; prereq 168A or ‡) IV or VII MWF

169s Mathematical Theory of Fluid Flow (3 cr; prereq 147, 174, 168A or ‡) VI MWF

-174w-175s See 173f: II or III or VII or VIII MWF (w,s)

-178Bw-178Cs See 178Af

180s Group Theory (3 cr; prereq 143 or ‡) IV MWF

-185w-186s‡ See 184f

-190Bw-190Cs See 190Af

-199Bw-199Cs‡ See 199Af

-202Bw-202Cs See 202Af

-203Bw-203Cs See 203Af

-205Bw-205Cs See 205Af

-209Bw-209Cs See 209Af

-221Bw-221Cs See 221Af

-222Bw-222Cs See 222Af

223w Theory of Differentiation (3 cr, §298; prereq 222C) III MWF

-228Bw-228Cs See 228Af

-229Bw-229Cs See 229Af

-230Bw-230Cs See 230Af

-231Bw-231Cs See 231Af

-234Bw-234Cs See 234Af

-235Bw-235Cs See 235Af

-236Bw-236Cs See 236Af

-238Bw-238Cs See 238Af

-246Bw-247Cs See 246Af

-248Bw-248Cs See 248Af

-250Bw-250Cs See 250Af

-252Bw-252Cs See 252Af

-260Bw-260Cs See 260Af

-261Bw-261As‡ See 261Af

-266Bw-266Cs See 266Af

-268Bw-268Cs See 268Af

-271Bw-271Cs See 271Af

-272Bw-272Cs See 272Af

-273Bw-273Cs See 273Af

-276Bw-276Cs See 276Af

282w Adv Numerical Analysis of Linear Systems (3 cr, §270B; prereq 131B, 186 or ‡) VIII MWF

283C Adv Numerical Analysis of Partial Differential Equations (3 cr, §270A; prereq 173, 186 or ‡) VIII MWF

-284Bw-284Cs See 284Af

-286Bw-286Cs See 286Af

-296Bw-296Cs See 296Af

MECHANICAL ENGINEERING

Engineering Graphics (EG)

Fall Quarter

1 **Slide Rule** (1 cr, 0 cr for IT students; prereq higher alg, trig or ‡)
—1, 7:15-8:00 am W, Arch 10
—2, IV T, Arch 10

25 **Engineering Graphics** (4 cr; prereq ¶Math 21 or ‡)
—1, I MTWTh, Arch 10
Lab open hrs, ME 308
—2, I MTWF, Arch 10
Lab open hrs, ME 308
—3, III MTWTh, Arch 10
Lab open hrs, ME 308
—4, III MTWF, Arch 10
Lab open hrs, ME 308
—5, V MTWTh, Arch 10
Lab open hrs, ME 308
—6, V MTWF, Arch 10
Lab open hrs, ME 308
—7, VII MTWTh, Arch 10
Lab open hrs, ME 308
—8, VII MTWF, Arch 10
Lab open hrs, ME 308

26 **Graphical Computation** (2 cr; prereq Math 22)
Lect II TTh, Arch 10
Lab open hrs, ME 308

27 **Graphical Communication, Analysis** (2 cr; prereq 25)
Lect VI TTh, Arch 10
Lab open hrs, ME 308

118 **Graphic Analysis of Experimental Data** (3 cr; prereq 26, Math 23 or ‡)

194 **Graphics in Engineering Probs** (2-4 cr; prereq 130 or 131 or ‡)

Winter and Spring Quarters

1w,s See 1f 7:15-8:00 am W; IV T

25w,s See 25f: III or V or VII MTWTh; III or V or VII MTWF

26w,s See 26f: VI TTh

27w,s See 27f: II TTh

101w Illustration for Design (3 cr; prereq 27 or ‡) VI TTh

120s Adv Descriptive Geometry (3 cr; prereq 27, Math 22 or ‡)

130w Nomography (3 cr; prereq 26, Math 22 or ‡)

131s Graphical Mathematics (3 cr; prereq 26, Math 23 or ‡)

Industrial Engineering (IE)

Fall Quarter

100 Industrial Engineering Analysis (3 cr; prereq ME 99 or ‡)
—1, II MWF, ME 106
—2, VI MWF, ME 106

110 Intro to Work Analysis (4 cr; prereq 100, ME 99)
Lect IV MWF, ME 106
—1, Lab VII-IX Th, ME 180
—2, Lab VII-IX T, ME 180

120 Probability Models in Engineering, Operations Research (3 cr; prereq ME 99)
II MWF, ME 321

130 Intro to Operations Research (4 cr; prereq MM 99)
II MTWF, E 4

155 Industrial Wage Admin (3 cr; prereq 153)
III MWF, ME 102

165 Industrial Plants (3 cr; prereq 153)
Lect VI TTh, ME 208
Lab VII-IX Th, ME 180

170 Production Planning, Control (3 cr; prereq 100)
I MWF, ME 221

171 Quality Control (3 cr; prereq Stat 90 or ME 99 or ‡)
III MWF, ME 208

175 Elem of Reliability (3 cr; prereq Stat 90 or ME 99)
IV MWF, ME 321

182 Industrial Safety (3 cr; prereq 100)
I MWF, ME 321

195 Applied Industrial Engineering (3 cr; prereq 15 cr)

251 Adv Industrial Engineering (3 cr; prereq ‡)
II MWF, ME 351

261 Probs: Production Engineering (3-5 cr; prereq ‡)

271 Research (3-5 cr; prereq ‡)

Winter and Spring Quarters

100w,s See 100f: I or III MWF (w); I MWF (s)

110w See 110f: Lect III MWF, lab VII-IX T

120s See 120f: III MWF

130w,s See 130f: II TWThF (w); IV MWThF

133Aw-134As Mathematical Methods in Operations Analysis (3 cr; prereq ME 99 or Stat 90 or 131 or ‡) II MWF

140s Analysis of Production Processes (3 cr; prereq 172) IV MWF

145s Manufacturing Process Planning (3 cr; prereq ME 170) VI MWF

170w,s See 170f: I MWF (w); V MWF (s)

171s See 171f: II MWF

172w,s Manufacturing Cost Analysis (3 cr; prereq 100) IV MWF (w); II MWF (s)

173w,s Engineering Economic Analysis (3 cr; prereq 100) V MWF (w); III MWF (s)

177w Industrial Sampling Techniques (3 cr; prereq 171) III MWF

180w Mgt for Engineers (3 cr; prereq 100) V MWF

195w See 195f

-196w,s See 195f

198w Design, Analysis of Experiments I (3 cr; prereq ME 99 or ‡) 8:15-9:30 TTh

199s Design, Analysis of Experiments II (3 cr; prereq 198 or ‡) III MWF

-252w-253s See 251f: 3:30-5:30 TTh (w); 3:30-5:30 WF (s)

-262w-263s‡ See 261f

-272w-273s‡ See 271f

Mechanical Engineering (ME)

Fall Quarter

21A Analysis of Mechanical Engineering Systems (4 cr; prereq MM 36)
Lect V MWF, ME 110
—1, Lab III-IV T, ME 221
—2, Lab V-VI Th, E 330
—3, Lab VII-VIII M, ME 208
—4, Lab VII-VIII Th, ME 208

22A Analysis, Synthesis of Mechanism Systems (4 cr; prereq 21A)
Lect I MWF, ME 208
Lab V-VI T, E 330

24 Optimum Design of Mechanical Elements (3 cr; prereq MM 37)
Lect V TTh, Arch 145
—1, Lab VII-IX Th, ME 221
—2, Lab VII-IX F, ME 214

30 Thermodynamics (3 cr; prereq Math 32 or ¶, Phys 23, EE maj)
—1, 9:15-11:00 TTh, ME 110
—2, III MWF, Arch 55

30A Thermodynamics (4 cr; prereq Phys 23, Math 32)
—1, I MWThF, Arch 40
—2, III MWThF, Arch 40
—3, VI MWThF, Arch 40

31A Thermodynamics (4 cr; prereq 30A)
II TWThF, Arch 40

33 Measurements Lab I (2 cr; prereq ¶30A)
Lect V T, ME 110
—1, Lab VII-IX M, ME 352
—2, Lab VII-IX T, ME 352
—3, Lab VII-IX W, ME 352
—4, Lab VII-IX Th, ME 352
—5, Lab VII-IX F, ME 352

34 Measurements Lab II (2 cr; prereq 33)
Lect IV Th, ME 214
—1, Lab VII-IX M, ME 370
—2, Lab VII-IX Th, ME 370

35 Measurements Lab III (2 cr; prereq 34)
Lect IV T, ME 214
Lab VII-IX T, ME 370

90 Industrial Assignment (2 cr, †90-91-92-93; prereq regis co-op work study prog)

91 Industrial Assignment (2 cr, †90-91-92-93; prereq 90)

92 Industrial Assignment (2 cr, †90-91-92-93; prereq 91)

93 Industrial Assignment (2 cr, †90-91-92-93; prereq 92)

99 Intro to Engineering Analysis (3 cr; prereq Math 23 or ♯)
—1, III MWF, ME 110
—2, VI MWF, ME 208

101 Summer Employment I (2 cr; prereq 4th yr, △)

112 Properties, Fabrication of Plastics (3 cr; prereq 170 or ♯)
Lect II TTh, ME 214
—1, Lab VII-IX T, ME 251
—2, Lab VII-IX F, ME 251

125 Machine Design Lab (2 cr; prereq 24)
—1, Lect VI M, ME 221
Lab VII-IX M, ME 357
—2, Lect VI F, ME 221
Lab VII-IX F, ME 357

128 Photoelastic Stress Analysis (3 cr; prereq MM 37)
Lect IV TTh, ME 351
Lab VII-IX Th, ME 351

133 Heat Transmission (3 cr; prereq 30A, Hydr 101, Aero 100A or ♯)
III MWF, Arch 145

134 Thermodynamics of Fluid Flow (3 cr; prereq 31A, Hydr 101)
IV MWF, Arch 145

140 Thermodynamics of Modern Power Devices (3 cr; prereq 133)
I MWF, ME 214

143 Turbomachinery (3 cr; prereq 31A)
IV MWF, ME 221

146A Intro to Combustion, Propulsion (4 cr; prereq 133 or ¶)
II TWThF, ME 221

150 Internal Combustion Engines (3 cr; prereq 31A or ¶)
II MWF, ME 321

155 Rocket Propulsion (3 cr; prereq 146A or ¶ or ♯)
V MWF, ME 321

159 Power, Propulsion Lab (2 cr; prereq 31A, 34)
—1, VI-IX M, ME 480
—2, VI-IX F, ME 480

160A Thermal Environmental Engineering (4 cr; prereq 133)
III MTWF, ME 214

169 Psychrometrics, Air Conditioning Lab (2 cr; prereq 34, 160A)
—1, VI-IX M, ME 362
—2, VI-IX F, ME 362

170 Manufacturing Processes (4 cr; prereq MetE 56)
Lect V MWF, ME 106
—1, Lab VII-IX T
—2, Lab VII-IX Th

183 Prins of Particle Technology (3 cr; prereq 31A or ♯)
I-II TTh, Arch 145

191 Design (2 cr; prereq 4th yr engr status or ♯)
Lect VI W, ME 4
—1, Lab VII-IX W, ME 321
—2, Lab VII-IX W, ME 308
—3, Lab VII-IX W, ME 314
—4, Lab VII-IX W, ME 325

192 Design (2 cr; prereq 4th yr engr status or ♯)
Lect VI W, ME 4
Lab VII-IX W, ME 325

194 Adv Engr Prob (2-4 cr; prereq 4th yr ME maj, 2.5 GPA, △)

197 System Analysis, Control (3 cr; prereq 21A)
I MWF, ME 106

198 Industrial Instrumentation, Automatic Control (3 cr; prereq EE 31)
Lect VI TTh, ME 221
Lab VII-IX T, ME 359

199 Intro to Feedback Control Systems (3 cr; prereq EE 31, Math 32)
III MWF, ME 221

224 Adv Applied Dynamics (3 cr; prereq 129)

228 Photoelasticity (3 cr; prereq 128)

230 Adv Thermodynamics (3 cr; prereq 32)
I MWF, Arch 145

233 Conduction (3 cr; prereq 133)
II MWF, ME 110

246 Energy Transport in Chemically Reacting Gases (3 cr; prereq 146)
III MWF, Arch 140

250 Dynamics of High Speed Engines (3 cr; prereq 24, 150)
VI MWF, ME 214

265 Adv Psychrometric Theory, Atmospheric Environmental Control (3 cr; prereq 162 or ♯)
IV MWF, ME 208

270 Magnetohydrodynamics (3 cr; prereq 134 or AE 102A, Math 147 or ♯)
290 Research (ar cr; prereq △)
291 Research (ar cr; prereq 290)
292 Research (ar cr; prereq 291)
296 Feedback Control Systems (3 cr; prereq 198, 199, Math 174 or ¶)

Winter and Spring Quarters

21Aw,s See 21Af: Lect I MWF (w); Lect III MWF (s), lab V-VI Th (s); VII-VIII M or T (w)
-22Aw See 22Af: Lect V MWF, lab V-VI T or Th; VII-VIII M or Th
-22As See 22Af: Lect I MWF, lab V-VI T or Th; VII-VIII M
24w,s See 24f: Lect V TTh (w); III TTh (s), lab VII-IX Th (w,s); VII-IX T or F (s)
30Aw,s See 30Af: Lect I MWThF (w); III MWThF (s)
31Aw,s See 31Af: Lect II MWThF (w,s); III or VI MWThF (w)
33w,s See 33f: Lect III T (w); V T (s), lab VII-IX M (w); VII-IX T or Th (s)
-34w,s See 34f: Lect IV T (w); IV Th (s), VII-IX MTWThF (w); VII-IX Th (s)
-35w,s See 35f: Lect IV Th (w); IV T (s), lab VII-IX T (w); VII-IX MTWThF (s)
90w,s-91w,s-92w,s-93w,s See 90f
99w,s See 99f: I or III or VI MWF (s); VII MWF (w only)
110w Control of Metal Working Processes (3 cr; prereq 170) Lect V TTh, lab ar
124w Experimental Stress Analysis (3 cr; prereq MM 37) Lect III TTh, lab VII-IX T
125w,s See 125f: Lect VI M or F (w,s), VII-IX M or F (w,s)
127s Friction, Lubrication (3 cr; prereq Hydr 101) 8:15-9:30 TTh
129s Vibration Engineering (3 cr; prereq 22A) I MWF
133w,s See 133f: II or V or VI MWF (s); V MWF (w)
134w,s See 134f
136s Reactor Heat Transfer (3 cr; prereq 133) 9:45-11:00 TTh
-141w See 140f
142s Vapor Cycle Power Systems (3 cr; prereq 31A) I MWF
143w,s See 143f: II MWF (s); I MWF (w)
146Aw,s See 146Af: II TWThF
148w-149s Chemistry of Combustion (3 cr; prereq 146A or ¶ or ♯) V MWF
150w,s See 150f: III MWF (s); IV MWF (w)
151s Adv Internal Combustion Engines (3 cr; prereq 150) II MWF
152w Gas Turbines, Compound Engines (3 cr; prereq 31A) III MWF
159w,s See 159f: VI-IX M or F (w,s)
160Aw,s See 160Af
164w Refrigeration, Cryogenics (3 cr; prereq 133) II MWF
166w Industrial Ventilation, Exhaust System (3 cr; prereq 160A) III MWF
169w,s See 169f
170w,s See 170f
-184w See 183f
-192w,s-193s† See 191f
194w,s See 194f
197w,s See 197f
198w,s See 198f
199s See 199f: IV MWF
-225w-226s See 224f
229w Adv Vibration Engineering (3 cr; prereq 129)
231w Statistical, Non-equilibrium Thermodynamics (3 cr; prereq 230) I MWF
232s Adv Fluid Thermodynamics (3 cr; prereq 134, 230 or ♯) I MWF
234w Convection (3 cr; prereq 233) II MWF
235s Radiation (3 cr; prereq 234) II MWF
236w Adv Theory of Heat Transfer (3 cr; prereq 133) V MWF
242w Adv Power Plants (3 cr; prereq 142)
247w Mass Transfer in Chemically Reacting Gases (3 cr; prereq 146) III MWF
253w Adv Gas Turbines, Jet Propulsion (3 cr; prereq 157) V-VI TTh
255s Adv Rocket Propulsion (3 cr; prereq 155 or ♯) VI MWF
266w Adv Psychrometric Processing (3 cr; prereq 265) IV TTh
267s Adv Air Conditioning (3 cr; prereq 266 or ♯) IV MWF
-271w-272s See 270f
280w Theoretical Refrigeration (3 cr; prereq 180)
282s Reverse Applications of Refrigeration: Heat Pump (3 cr; prereq 162)
290w,s-291w,s-292w,s See 290f
-297w-298s See 296f

MINERAL AND METALLURGICAL ENGINEERING

Metallurgical Engineering (MetE)

Fall Quarter

56 **Physical Metallurgy** (3 cr; prereq 3rd yr)
—1, I MWF, MinMet 116, Sivertsen
—2, III MWF, MinMet 116, Jerabek

90 Industrial Employment (2 cr; prereq ♯)

91 Industrial Employment (2 cr; prereq ♯)

92 Industrial Employment (2 cr; prereq ♯)

101 Science of Materials (3 cr; prereq Phys 50)
I MWF, MinMet 120, Toth

101A Science of Materials Lab (1 cr; prereq ¶101)
Lect VI T, MinMet 116, Nicholson
—1, Lab VII-IX T, MinMet 410
—2, Lab VII-IX Th, MinMet 410

106 Process Metallurgy (3 cr; prereq 8 cr inorg chem)
II MWF, MinMet 124, Bitsianes

110 Mineral Dressing (3 cr)
Lect I TTh, MinMet 104, Cooke
—1, Lab VI-VIII T, MinMet 16, 22
—2, Lab VI-VIII Th, MinMet 16, 22

128 Techniques of Mineral Processing Research I (3 cr; prereq PCh 101 or ¶, ME 99, MinE 126 or ♯)
Lect VI MW, Lab VII W, MEx, Lawver

134 Unit Processes (3 cr; prereq 108)
IV MWF, MinMet 124, Bitsianes

141 Special Probs (ar cr; prereq 108) Bitsianes

153 Physical Metallurgy (3 cr; prereq 103 or ♯)
I MWF, MinMet 124, Swalin

153A Physical Metallurgy Lab (1 cr; prereq ¶153)
Lect VI Th, MinMet 124, Jerabek
—1, Lab VII-IX T, MinMet 410
—2, Lab VII-IX Th, MinMet 410

167 Control of Mechanical Properties in Metals, Alloys (3 cr; prereq 155)
Lect IV TTh, MinMet 124, Nicholson
Lab VII-IX W, MinMet 124

173 Crystalline Properties of Metals (3 cr; prereq 103)
9:45-11:00 TTh, MinMet 124, Sivertsen

180 Thermodynamics, Kinetics of Solid State (3 cr; prereq PCh 103 or course in thermodynamics)
II MWF, MinMet 120, Gupta

201 Research (ar cr) Bitsianes

210 Seminar (ar cr)
IV T, MinMet 120, Cooke

222 Surface Chemistry of Flotation (3 cr)
Lect VI F, VII M, MEx, Iwasaki

255 Transformations, Microstructure (3 cr; prereq 155, 182 or ♯) Nicholson

260 Dislocation Theory of Crystals (3 cr; prereq 155 or ♯) Gupta

Winter and Spring Quarters

56w,s See 56f: IV MWF (w,s); VII MWF (s)

60s Physical Metallurgy (3 cr; prereq 3rd yr) IV MWF

90w Industrial Employment (2 cr; prereq ♯)

-91w-92s‡ See 90f

-92w-93s‡ See 91f

-102w-103s See 101f

-102Aw See 101Af: Lect VI T, lab VII-IX T or Th

103As Science of Materials Lab (1 cr; prereq ¶103) Lect VI Th, lab VII-IX Th

103Bs Science of Materials Lab (2 cr; prereq MM 37) Lect VI T

107w Process Metallurgy (3-4 cr; prereq 106) II MWF

107Aw Process Metallurgy Lab (1 cr; prereq 106 or ♯) VI-IX W

108s Process Metallurgy (3 cr; prereq 107) II MWF

-111w-112s See 110f: Lect I TTh (w,s), lab VI-VIII M or W (s); VI-VIII T or F (s); 7:30-10:20 am S (s)

113w-114s Metallurgical Plant Engineering (3 cr; prereq 110, ¶111) V MWF

122w-123s Hydrometallurgy (3 cr; prereq 112) III MWF

127w Electric, Magnetic Separation of Minerals (2 cr; prereq 112)

129w Techniques of Mineral Processing Research II (3 cr; prereq PCh 101 or ¶, Phys 50 or ♯)

130s See 128f

135w Unit Processes (3 cr; prereq 11) IV MWF

136s Unit Processes (3 cr; prereq 108) IV MWF

-142w-143s‡ See 141f

-154w-155s See 153Af

-154Aw-155As See 153f

161s Corrosion of Metals (2 cr; prereq 56, PCh 101 or 101H) II TTh

168w Metal Fabrication (3 cr; prereq 155) Lect IV TTh, lab VII-IX W

169s Analysis of Metallurgical Probs (3 cr; prereq 155 or ♯) Lect III-IV TTh, lab VIII-IX W

175s Imperfections in Metals (3 cr; prereq 174 or ♯) 9:45-11:00 TTh

-181w-182s See 180f: 12:45-2:00 MF (w); II MWF (s)

-202w-203s‡ See 201f: II MWF

-211w-212s‡ See 210f

220s Flotation Theory (3 cr) VI MWF

263w Adv X-Ray Diffraction of Metals (3 cr; prereq 155 or ♯)

Mineral Engineering (MinE)

Fall Quarter

90 **Industrial Employment** (1-3 cr; prereq ‡)
91 **Industrial Employment** (1-3 cr; prereq ‡)
111 **Exploration** (3 cr; prereq 3rd yr)
I MWF, MinMet 104, Lacabanne, Yardley
122 **Mine Plant Engineering II** (3 cr; prereq 121, MM 35 or ‡)
VI-VII TTh, MinMet 104, Dorenfeld
126 **Operations Analysis in Mineral Engineering I** (3 cr; prereq 122 or ‡)
IV MWF, MinMet 120, Dorenfeld
131 **Rock Mechanics I** (3 cr; prereq MM 37 or ‡)
II MWF, MinMet 104, Fairhurst
151 **Special Probs** (ar cr; prereq 112)
152 **Special Probs** (ar cr; prereq 112)
155 **Surface Mining Engineering** (3 cr; prereq 112 or 131 or ‡)
III MWF, MinMet 104, Pfleider
171 **Fluid Flow Through Porous Media I** (2 cr; prereq 113 or ‡)
II TTh, MinMet 104, Lacabanne
171A **Fluid Flow Lab I** (1 cr; prereq 171 or ‡)
VI-VII W, MinMet 216, Lacabanne
180 **Geochemical Exploration** (3 cr; prereq ‡) Yardley
201 Seminar (ar cr)
203 Seminar (ar cr)
212 Research Probs (ar cr)
241 Adv Mineral Economics I (3 cr; prereq 142, Geol 156 or 157...Econ 2T rec or ‡) Pfleider

Winter and Spring Quarters

1s Mineral Engineering Lab (1 cr) VII Th
13w Mine Surveying (3 cr; prereq CE 61 or ‡) Lect II MWF, lab ar
70s Geological Engineering I (3 cr; prereq Geo 1, Phys 23 or ‡) V MWF
90w-91w,s-92w‡ See 90f
-112w See 111f: III MWF
121s Mine, Petroleum Plant Engineering I (3 cr; prereq Phys 144 or ‡) VI-VIII TTh
-127w See 126f: III MWF
131w-132s Rock Mechanics I (3 cr; prereq MM 37 or ‡) 9:00-12:20 TTh
133s Rock Mechanics III (3 cr; prereq MM 37) II MWF
141w Mineral Economics I (3 cr; prereq 113 or ‡) IV MWF
142s Mineral Economics II (3 cr; prereq Geo 62 or ‡) III MWF
144w-145s Mine Systems Analysis (2 cr; prereq 142 or ‡) VI-VIII MW (w), VI-IX MWF (s)
-152w-153s‡ See 151f
161w-162s Geological Engineering Analysis (1 cr; prereq sr or ‡) IV T (w); VI-IX TTh (s)
172w Fluid Flow Through Porous Media II (3 cr; prereq 171 or ‡) VI MWF
173s Fluid Flow Through Porous Media III (2 cr; prereq 172 or ‡) III TTh
185s Topics: Mineral Exploration (3 cr; prereq 4th yr, grad or ‡)
201s Seminar (ar cr)
-202w-203s‡ See 201f: VII F (w)
-214w,s‡ See 212f
251w-252s Adv Rock Mechanics I (3 cr; prereq MM 180)

PHYSICS AND ASTRONOMY

Astronomy (Ast)

Fall Quarter

11 **Descriptive Astronomy** (5 cr, §51)
—1, IV MTWF, Ph 166, Cooke
—2, V MTWTh, Ph 166, Kaufmanis
—3, VII MTWTh, Ph 166, Kaufmanis

Winter and Spring Quarters

-11w See 11f: V MTWTh or VII MTWTh
-11s See 11f: IV MTWF or V MTWTh or VII MTWTh
51w Astronomy (3 cr, §11; prereq Math T or 10) IV MWF

Physics (Phys)

Fall Quarter

1 **Physical Science** (3 cr; prereq HS alg, plane geometry)
—1, III MWF, Ph 166, Roll
—2, V MWF, Ph 150, Wall
—3, I MWF, DI 15 (**StP Campus**), Mantis
1A Physical Science Lab (1 cr; prereq 1 or ¶)
Lab sec assigned first 2 days of class
4 **Gen Physics** (5 cr; prereq Math 40 or ¶)
Lab sec assigned first 2 days of class
IV MTWThF, Ph 150, Johnson
7 **Gen Physics** (5 cr; prereq Math 21 or 42 or 22 or 43 or ¶)
Lab sec assigned first 2 days of class
II MTWThF, Ph 150, Freier

22 Gen Physics (4 cr; prereq 21, ¶22A, Math 22 or 43 or ¶)
I MTWThF, Ph 170, Nier

22A Laboratory (1 cr; prereq ¶22)
Lab sec assigned first 2 days of class

23 Gen Physics (4 cr; prereq 22, ¶23A, Math 23 or 44 or ¶)
—1, I MTWThF, Ph 166, Lilley
—2, VI MTWThF, Ph 150, Courant

23A Laboratory (1 cr; prereq ¶23)
Lab sec assigned first 2 days of class

50 Interm Physics (4 cr; prereq 6 or 9 or 14 or 23, Math 31 or 55 or ¶)
II MTWThF, Ph 166, Waddington

50A Laboratory (1 cr; prereq ¶50)
Lab sec assigned first 2 days of class

60 Interm Physics (3 cr; prereq 6, Math 40 or △)
II MWF, ForH 346, Beck

100 Mechanics, Electricity, Magnetism (4 cr, §100A or MM 138; prereq 3rd yr, 9 or 14 or 23, Math 32 or 106)
I MTWF, Ph 145, Weil

100A Analytic Mechanics (3 cr, §100; prereq 3rd yr, 9 or 14 or 23, Math 32 or 106)
I-II TTh, Ph 210, Poppe

103A Electric, Magnetic Fields (3 cr; prereq 4th yr or ♯, 9 or 14 or 23, Math 32 or 106)
III MWF, Ph 210, Tang

107 Atomic, Nuclear Physics (3 cr, §50 or 51; prereq 9 or 14 or 23, Math 32 or 106, ♯)
VI MWF, Ph 143, Brown

108 Modern Physics (3 cr; prereq 51, Math 108 or 153 or ♯)
VI MWF, Ph 131, Greenlees

120 Experimental Atomic, Nuclear Physics (3 cr; prereq 51 or ¶107 or ¶108, ♯)
—1, VI-IX TTh, Ph 250, Pepin
—2, VII-X MF, Ph 250, Dehnhard

123 Thermodynamics, Kinetic Theory (3 cr; prereq 9 or 14 or 23, Math 32 or 106)
IV MWF, Ph 210, Weyhmann

131 Geometrical Optics (3 cr; prereq 3rd yr, 15 cr, Math 23 or 44)
III-IV TTh, Ph 143, Giese

144 Electrical Measurements (4 cr; prereq 9 or 14 or 23, Math 31 or 55)
Lect II MWF, Ph 170, Blair
—1, Lab VII-IX M, Ph 231
—2, Lab I-III T, Ph 231
—3, Lab VI-VIII T, Ph 231
—4, Lab VI-VIII W, Ph 231
—5, Lab VI-VIII Th, Ph 231
—6, Lab VII-IX F, Ph 231
—7, Lab II-IV S, Ph 231

165 Intro to Physics of Atmosphere (3 cr; prereq 50, Math 32 or 106)
III-IV TTh, Ph 210, Mantis

171A Classical Physics (4 cr; prereq 104 or 102A, 105A, Math 153 or 108)
Lect II MWF, Ph 210, Cheston
Rec II T, Ph 143, Cheston

181A Quantum Mechanics (4 cr; prereq 110, Math 153 or 108)
III MTWF, Ph 145, Gasiorowicz

192 Atomic, Molecular Structure (3 cr; prereq 181C or ♯)
VI MWF, Ph 210, Hamermesh

204 Equilibrium Statistical Mechanics (3 cr; prereq 181C or ♯)
III-IV TTh, Ph 236A, Mullin

208 Symmetry, Its Applications to Physical Probs (3 cr; prereq ¶181C or ♯)
IV MWF, Ph 236A, Bayman

210A Seminar: Theoretical Physics (ar cr)
VIII-IX F, Ph 435

211 Adv Quantum Mechanics (3 cr; prereq 181C or ♯)
III MWF, Ph 143, Bolsterli

220A Seminar: Nuclear Physics (ar cr)
VII-VIII W, Ph 210

230A Seminar: Solid-State, Low-Temperature Physics (ar cr)
VII-VIII F, Ph 145

233 Superconductivity (3 cr; prereq ♯)
VI MWF, Ph 145, Goldman

240A Seminar: Elem Particle Physics (ar cr)
VIII-IX M, Ph 210

241A Elem Particle Physics (3 cr; prereq 213 or ♯)
VI-VII TTh, Ph 236A, Suura

250A Seminar: Cosmic-Ray, Space Physics (ar cr)

251A Cosmic-Ray, Space Physics (3 cr; prereq 112, 171C, 196 or ♯)
IV MWF, Ph 145, Winckler

254 Adv Topics: Plasma Physics (ar cr)
II MWF, Ph 143, Kellogg

260A Seminar: Mass Spectroscopy (ar cr)
VIII-IX F, Ph 210

270A Seminar: Atmospheric Physics (ar cr)

301 Research (ar cr)

Winter and Spring Quarters

1w See 1f: II MWF

2w-3s See 1f: I MWF (w,s); II MWF (w); III MWF (w,s); V MWF (w,s)

2Aw-3As See 1Af

5w-6s See 4f

8w-9s See 7f

21w,s Gen Physics (4 cr; prereq ¶21A, Math 21 or 42 or ¶) I MTWThF (w,s); III or IV or VI MTWThF

21Aw,s Laboratory (1 cr; prereq ¶21) Lab sec assigned first 2 days of class
22s See 22f: I or III or IV or VI MTWThF
22As See 22Af
23w See 23f: I MTWThF
23Aw See 23Af
50w See 50f: I MTWThF; VI MTWThF
50Aw,s See 50f
50Hw Honors Course: Interm Physics (4 cr; prereq 6 or 9 or 14H or 23, Math 31 or 55 or ¶, △) II MTWThF
51w,s Interm Physics (4 cr; prereq 50, Math 32 or 106 or ¶) II MTWThF (w); VI MTWThF (s)
51Aw,s Laboratory (1 cr; prereq ¶51) Lab sec assigned first 2 days of class)
51Hs Honors Course: Interm Physics (4 cr; prereq 50H, Math 32 or 106 or ¶) II MTWThF
52Hw,s Honors Course: Physics Lab (1 cr; prereq ¶50H) Lab sec assigned first 2 days of class
-61w See 60f: II MWF
-101Aw-102As See 100Af
-102w-104s See 100f: I MTWF
-104Aw-105As See 103Af
-109w-111s See 107f
-110w-112s See 108f
113s Techniques of Nuclear Physics (3 cr; prereq 4th yr phys maj) I MWF
-121w-122s‡ See 120f
124w-125s Statistical Mechanics (3 cr; prereq 123 or ‡) IV MWF
133w Physical Optics (3 cr; prereq 3rd yr, 15 cr, Math 23 or 44) III-IV TTh
133A Physical Optics Lab (1 cr; prereq ¶133)
146w Vacuum Tubes, Associated Circuits (4 cr; prereq 144 or ‡) Lect II MWF, lab I-III T; II-IV S; VI-VIII TWTh; VII-IX MF
148s Application of Electronic Circuits (4 cr; prereq 146 or ‡) Lect II MWF, lab I-III T; II-IV S; VI-VIII TWTh; VII-IX MF
166w Meteorology I (3 cr; prereq 165 or ‡) III-IV TTh
167s Meteorology II (3 cr; prereq 166, vec anal or ‡) III-IV TTh
-171Bw-171Cs See 171Af
-181Bw-181Cs See 181Af
190s Intro to Elementary Particle Physics (3 cr; prereq 181B, ‡) VII MWF
194s Intro to Contemporary Probs in Cosmic-Ray, Space Physics (3 cr; prereq ‡) VI MWF
198s Intro to Astrophysics (3 cr; prereq 110, 124 or ‡) II MWF
205w Transport Theory (3 cr; prereq 181c or ‡) III-IV TTh
210Bw-210Cs See 210Af: VIII-IX F
212w Relativistic Quantum Mechanics (3 cr; prereq 211 or ‡) III MWF
213s Relativistic Quantum Field Theory (3 cr; prereq 212 or ‡) VI-VII TTh
216s Many-Body Theory (3 cr; prereq 211 or ‡) III MWF
-220Bw-220Cs See 220Af: VII-VIII W (w)
225w Nuclear Structure (3 cr; prereq 181C or ‡) IV MWF
226s Nuclear Reactions, Scattering (3 cr; prereq 181C or ‡) IV MWF
-230Bw-230Cs See 230Af: VII-VIII F (w); VII-VIII F (s)
231Aw-231Bs Solid-State Physics (3 cr, §EE 200A-B; prereq ¶181B-C, 125 or ‡) VI MWF
-240Bw-240Cs See 240Af: VIII-IX T
-241Bw See 241Af
-250Bw-250Cs See 250Af: V Th
-251Bw See 251Af
-260Bw-260Cs See 260Af
-270Bw-270Cs See 270Af
301w,s See 301f

COLLEGE OF VETERINARY MEDICINE

VETERINARY ANATOMY (VAna)

Fall Quarter

100 Orientation (1 cr; prereq ‡)
IV M, VetS 257, Weber, others
101 Veterinary Anatomy (7 cr; prereq ‡)
Lect I MWF, VetS 257, Anderson, Fletcher
Lab II-III MWF, I-III TTh, VetS 141
120 Anatomy (5 cr; prereq 2 qtrs biol, ‡)
Lect VII M, IX WF, VetS 257, Fletcher, Weber
Lab VI MF, VetS 141
150 Comparative Prenatal Development of Domestic Animals (4 cr; prereq ‡)
Lect VI TTh, VetS 257, Field, Priedkalns, Weber
Lab VII-IX TTh, VetS 247

151 Microscopic Anatomy of Domestic Animals (3 cr; prereq ♯)
Lect VI MW, VetS 257, Field, Hammer, Weber
Lab VII-VIII MW, VetS 247
191 Special Studies (1-5 cr; prereq 151, ♯) Fletcher, Weber
203 Experimental Comparative Neurology (3 cr; prereq 202, ♯) Fletcher
250 Morphology of Animal Cells, Intercellular Substances (3 cr; prereq 153, ♯)
Lect VI MW, VetS 257, Weber
Lab VII W, VetS 257

VETERINARY BACTERIOLOGY AND PUBLIC HEALTH (VBac)

Fall Quarter

53 **Gen Microbiology** (5 cr; prereq soph with C avg prereq courses or jr, 10 cr chem, 4 cr biol sci or ♯)
Lect VI MWF, HH 100, Lindorfer
Lab VII-VIII MWF, VetS 325
102 Pathogenic Bacteria, Fungi (6 cr; prereq 101, ♯)
Lect II MWF, VII T, VetS 229, Marquardt, Loken
Lab III-IV MWF, VetS 325
125 Public Health (4 cr; prereq 103, VPaP 153, ♯)
VI F, VII MWF, VetC 125, Anderson, Olson
128 Probs: Bacteriology, Public Health (ar cr; prereq 103, ♯) Anderson, Lindorfer, Loken, Pomeroy
201 Adv Poultry Diseases (ar cr; prereq 131, ♯) Barnes, Bergland, Higbee, Nelson, Pomeroy
205 Adv Bacteriology (ar cr; prereq ♯) Anderson, Lindorfer, Loken, Pomeroy
221 Adv Public Health (ar cr; prereq 127, ♯) Anderson

VETERINARY MEDICINE AND CLINICS (VMC)

Fall Quarter

102 Large Animal Medicine (4 cr; prereq 101)
VII MTWTh, VetA 103, Johnson, Sorensen
106 Small Animal Medicine (5 cr; prereq 3rd yr vet med)
VI MTWThF, VetA 103, Low, Mather
110 Clinics (5 cr; prereq 101)
II-IV MTWThF, I-III S, VetC 70, 125, Low, others
114 Clinical Conference (1 cr; prereq 3rd yr VMed)
IX W, VetC 125, Osborne
122 Clinics (5 cr; prereq 121)
II-IV MTWThF, I-III S, VetC 70, 125, Low, others
126 Clinical Conference (1 cr; prereq ♯)
IX W, VetC 125, Osborne
131 Infectious Diseases of Large Animals (5 cr; prereq 104)
I MTWThF, VetC 125, Johnson, Sorensen
201 Adv Medicine (ar cr; prereq 104, 131, ♯) Low, Mather, Sorensen
202 Adv Diagnosis, Therapeutics of Animal Diseases (ar cr; prereq 104, 131, ♯) Low, Mather, Sorensen
203 Seminar (ar cr; prereq ♯) Low, Mather, Sorensen
204 Medical Conference (ar cr; prereq 104, 131, ♯) Low, Mather, Sorensen

VETERINARY OBSTETRICS (VObs)

Fall Quarter

201 Adv Diagnostic Methods (3 cr; prereq 102)
II-IV MTWThFS, VetC 33, Fahning, Zemjanis
204 Probs: Animal Reproduction (ar cr; prereq 102, 201) Zemjanis, others
206 Comparative Physiology of Reproduction (ar cr; prereq 102, VPP 109) Zemjanis, others
210 Adv Endocrinology of Reproduction (1 cr; prereq MdBc 101, VPP 109) Graham, Zemjanis, others

VETERINARY PATHOLOGY AND PARASITOLOGY (VPaP)

Fall Quarter

151 Gen Pathology (5 cr; prereq VBac 101, ♯)
Lect VI MWF, VetS 229, Barnes, Johnson
Lab VII-IX MW, VetS 225-229, Johnson, others
154 Clinical Pathology (2 cr; prereq 153, ♯)
VIII TTh, VetS 229, Perman
155 Clinical Pathology (1-3 cr; prereq 154 or △) Perman

157 Necropsy (1-5 cr; prereq 153 or △) Barnes, others
158 Surgical Pathology (3 cr; prereq 157, △) Bergeland, others
160 Diagnostic Pathology (5 cr; prereq 157, ♯, △) Bergeland, others
241 Probs: Parasitology (ar cr; prereq 102, ♯) Griffiths

VETERINARY PHYSIOLOGY AND PHARMACOLOGY (VPP)

Fall Quarter

105 Animal Physiology (5 cr; prereq VAna 153, MdBc 103, ♯)
I MTWThF, VetS 229, Dziuk, Good
106 Animal Physiology Lab (2 cr; prereq ¶105)
II-IV TTh, VetS 135, VI T, VetS 229, Dziuk, Good, Jankus, McGinnis
130 Probs: Physiology (ar cr; prereq 109 or Phsl 106-107, ♯) Dziuk, Good
152 Pharmacology (3 cr; prereq 151, ♯)
Lect VIII MW, VetA 103, Hammond, Stowe
Lab VII-IX F, VetS 135
171 Probs: Pharmacology (ar cr; prereq 152, ♯) Hammond, Stowe

VETERINARY SURGERY AND RADIOLOGY (VSR)

Fall Quarter

101 Prin of Surgery (5 cr; prereq VMC 101, ♯)
Lect I MTWThF, VetA 103, Arnold, Gourley, Usenik
104 Lamenesses of Domestic Animals (1 cr; prereq 103, ♯)
VI M, VetC 125, Spurrell
121 Radiology (3 cr; prereq VMC 113, ♯)
Lect VI TW, VetC 125, Hanlon, Spurrell
Lab VII-VIII T, VetC 70, 125
210 Adv Radiology (2 cr; prereq 121, ♯) Hanlon, Spurrell
220 Anesthesia (ar cr; prereq 103, ♯) Arnold, Gourley, Usenik
225 Adv Small Animal Surgery (ar cr; prereq 103, ♯) Gourley
230 Adv Large Animal Surgery (ar cr; prereq 103, ♯) Arnold, Usenik

UNATTACHED UNIVERSITY DEPARTMENTS

AEROSPACE STUDIES (Air)

Fall Quarter

131 **History of Air Power** (3 cr)
—1, I MWF, A 11A, Suttie
—2, III MWF, A 11A, Johnson
—3, V MWF, A 11A
141 **Professionalism** (3 cr)
—1, II MWF, A 11A, Gill
—2, IV MWF, A 11A
—3, VI MWF, A 11A
144 **Flight Instruction Program** (3 cr; prereq △)
VII MWF, A 11A, Gill

Winter and Spring Quarters

132w Aerospace Organization, Concepts (3 cr) I MWF; III MWF; V MWF
133s Astronautics, Space Operations (3 cr) I MWF; III MWF; V MWF
142w Leadership, Human Relations (3 cr) II MWF; IV MWF; VI MWF
143s Military Executive Management (3 cr) II MWF; IV MWF; VI MWF

MILITARY SCIENCE (Mil)

Fall Quarter

41 **Employment of Firepower** (1 cr)
Leadership Laboratory II or VI Th
—1, II-III T, A 116, Iaconis
—2, V-VI T, A 116, Iaconis
—3, IV-V Th, A 116, Iaconis
44 **Military Maps, Aerial Photography** (1 cr)
Leadership Laboratory II or VI Th
—1, II-III T, A 201, Harrison
—2, V-VI T, A 201, Harrison
—3, IV-V Th, A 201, Harrison
151 **Probs of Special Warfare** (3 cr)
Leadership Laboratory II or VI Th
—1, II MWF, A 105, Harrison
—2, VI MWF, A 105, Harrison

154 **Command, Staff Operations** (4 cr)
Leadership Laboratory II or VI Th
—1, II-III TTh, A 116A, Harrison
—2, V-VI TTh, A 116A, Harrison

Winter and Spring Quarters

41w See 41f: II-III or VI-VII T
42w School of the Soldier (0 cr; prereq 41, △) II or V or VI Th
43s U S Army, National Security (1 cr) Leadership Lab VI-VII Th; Rec II or VI or VII T
45w American Military History (3 cr, §Hist 45) III or IV or VII MWF
46s Intro to Basic Tactics (1 cr) Leadership Lab VI-VII Th; Rec II or VI or VII T
152w Adv Tactics, Training (3 cr; prereq 151, △) II or VI MWF
153s Functional Organization of U S Army (3 cr) Leadership Lab VI-VII Th; Rec II or VI MWF
156s Military Law, Army Admin (4 cr) Leadership Lab VI-VII Th; Rec II-III or V-VI T or II or V Th

MORTUARY SCIENCE (Mort)

Fall Quarter

2 **Intro to Art** (3 cr)
—1, Lect II W, JacH 388, Burger
Lab II-III TTh
—2, Lect III W, JacH 388, Burger
Lab II-III MF

5 **Restorative Art** (1 cr; prereq 4)
—1, IV Th, JacH 188A, Burger
—2, V Th, JacH 188A, Burger
—3, VI Th, JacH 188A, Burger
—4, VII Th, JacH 188A, Burger

8 **Orientation** (2 cr)
VII TTh, VH 205, Koschig

13 **Mortuary Law** (3 cr)
I MWF, VH 205, Grayson

56 **Embalming** (3 cr; prereq Biol 2)
IV MWF, JacH 178, Stroud

60 **Funeral Mgt** (3 cr; prereq soph)
VII MWF, VH 113, Slater

63 **Business Methods** (2 cr; prereq Acct 24 or GC 16A)
III TTh, VH 205, Folz

64 **Psychology of Funeral Service** (2 cr; prereq GC 2A or Psy 1-2)
VI TTh, VH 205, Oman

70 **Embalming Chemistry** (3 cr; prereq intro course gen chem)
VI MWF, VH 113

76 **Embalming Lab** (2 cr; prereq 56 or ♯)
—1, I-III M, JacH 88, Koschig, Stroud
—2, II-IV T, JacH 88, Koschig, Stroud
—3, I-III W, JacH 88, Koschig, Stroud
—4, II-IV Th, JacH 88, Koschig, Stroud

77 **Clinical Embalming Training** (2 cr; prereq 56 or ♯) Stroud

102 **Seminar: Funeral Service** (2 cr; prereq soph, △)
VIII-IX T, VH 125, Slater

103 **Seminar: Ethics, Professional Practices** (2 cr; prereq △)
VIII-IX M, VH 125, Iacovino

Winter and Spring Quarters

3w,s-4w,s Anatomical Drawing, Modeling (1 cr; prereq 2) II-III TTh (w); VI-VII TTh (w); II-III M or T or Th or F (s)
5s Restorative Art (1 cr; prereq 4) I or II W
8w,s See 8f: IV TTh (w); VI-VII T (s)
13s See 13f
14w Mortuary Law (3 cr) 8:15-9:30 TTh
56s See 56f: VI MWF
-57w-58s See 56f: I MWF (w); III MWF (s)
59w,s Public Health, Minnesota Law, Regulations (2 cr; prereq PubH 3, 50 or GC 10B) VIII TTh (w); I TTh (s)
-61w-62s See 60f: VII MWF (w); 9:45-11:00 TTh
64s See 64f: VI-VII Th
70s See 70f: VII MWF
71w See 70f: VI MWF
76w,s Embalming Lab (2 cr; prereq 56 or ♯) I-III TTh (w,s); III-V W (w); V-VII Th (s)
101w Seminar: Dynamics of Grief (2 cr; prereq ♯) VIII-IX Th
102s See 102f: VIII-IX T

NAVAL SCIENCE (Nav)

Fall Quarter

11 **Naval Orientation** (3 cr)
—1, II MTWF, A 205, Totten
—2, III MTWF, A 205, Totten
—3, V MTWF, A 205, Totten

21 **Naval Weapons** (no cr; prereq △, psych or ¶psych...Psy 1 rec)
—1, II T, A 105, Royalty
—2, IV T, A 105, Royalty

51 **Naval Operations** (3 cr)
—1, II MTWF, A 12A, Taylor
—2, IV MTWF, A 12A, Taylor

54 **Evolution of Art of War I** (3 cr)
—1, II MTWF, A 202, Shubert
—2, IV MTWF, A 202, Shubert

57 **Supply Management I** (3 cr)
V MTWF, A 202, Pierce

61 **Naval Engineering** (3 cr; prereq trig, alg or ♯)
—1, I MTWF, A 12A, Closson
—2, V MTWF, A 12A, Closson

Winter and Spring Quarters

12w-13s Sea Power (3 cr) II or IV or V MTWF (w), II or IV or V MTWF (s)

22w-23s Naval Weapons (3 cr) II or IV MTWF (w), II or IV MTWF (s)

52w Naval Operations: Intro to Navigation (3 cr) II or IV MTWF

53s Celestial Navigation (3 cr; prereq trig or ♯) II or IV MTWF

55w Evolution of Art of War II (3 cr) II or IV MTWF

56s Modern Basic Strategy, Tactics (3 cr) II or IV MTWF

58w-59s See 57f

62w Naval Engineering: Leadership (3 cr; prereq trig, alg or ♯) I or V MTWF

63s Leadership (3 cr; prereq 62 or 68 or ♯) I or V MTWF

BUILDING ABBREVIATIONS

A, Armory
Aero, Aeronautical Engineering
AgBot(StP), Agricultural Botany
AgEng(StP), Agricultural Engineering
AgLib(StP), Agriculture Library
Agr(StP), Agronomy
AgrSH(StP), Agronomy Seed House
AgrSS(StP), Agronomy Seed Stocks
AH, Appleby Hall, Pharmacy
Arch, Architecture
ArtB(W), Art Building
2020 Washington Ave S

BaH(StP), Bailey Hall
BA(W), Business Administration Building, West Bank
BB(StP), Bull Barn
BCB(StP), Beef Cattle Barn
BeH(StP), Berry House (1304 Cleveland Ave N)
BFH(StP), Botany Field House
Bo, Botany
BoG, Botany Greenhouse
BoHH(StP), Botany Headhouse
BrH(StP), Brewster Hall
Bu,Burton Hall

C, Chemistry
CB(W), Classroom Building, West Bank
CCS, Center for Continuation Study (Changed to NCCE)
CD, Child Development
CenH, Centennial Hall
CH, Cooke Hall
ChE, Chemical Engineering
ChRC, Childrens Rehabilitation Center
ChStor, Chemical Storehouse (2812 SE Fairmount)
CI(StP), Crop Improvement
ClayS(W), Clay School Building, West Bank
CMU, Coffman Memorial Union
CofH (StP), Coffey Hall (Administration)
ComH, Comstock Hall
ComoY, Como Yard (3009 Como Ave SE)
ComT(StP), Commonwealth Terrace, Office 1295 Gibbs Ave
CropS(StP), Crop Service (formerly Plant Sci Field Bldg)
CS(StP), Carpenter Shop
CVL, Cardio-Vascular Lab

DCB(StP), Dairy Cattle Barn
DeH(StP), Dexter Hall
DFA, Delta Field Athletic Bldg
DI(StP), Dairy Industries
DiehlH, Diehl Hall
DinC(StP), Dining Center

E, Main Engineering
EconRes, Economics Research
EdH, Eddy Hall
EE, Electrical Engineering
Ex, Experimental Engineering

FCFH(StP), Farm Crops Field House
FieldHse, University Field House
FolH, Folwell Hall
ForH, Ford Hall
FP(StP), Forest Products
FraH, Fraser Hall (Law)
FronH, Frontier Hall
FStor, Food Stores (Food Storage)

GCH(StP), Golf Clubhouse
GCSS(StP), Golf Course Shops & Storage
GorC(StP), Gortner
GH(StP, Green Hall
Gy(StP), Gymnasium

HB(StP), Horse Barn
HH(StP), Haecker Hall
HL, Hydraulic Laboratory (Hennepin Island)
HolB, Holman Bldg (2035 Univ Ave SE)
Hosp, University Hospitals
HP, Heating Plant
HP(StP), Heating Plant
Hr(StP), Horticulture
HS, Health Service
HS(StP), Health Service

InvSW, Inventory Surplus Warehouse
J, Jones Hall
JacH, Jackson Hall (Anatomy)
JOAd, Jackson-Owre Addition
JohH, Johnston Hall

Lib, Walter Library
LinA, Linear Accelerator
LinL, Linac Laboratory
LSFor(StP), Lake States Forest Experiment Station
LsPav(StP), Livestock Pavilion
LyonL, Lyon Laboratories

MasonH, Masonic Memorial Hospital
Mayo, Mayo Memorial
McNH(StP), McNeal Hall (Home Economics)
ME, Mechanical Engineering
MeH(StP), Meredith Hall
MEx, Mines Experiment Station
MH, Millard Hall
MinMet, Mines and Metallurgy
MMA, Mayo Memorial Auditorium
MNH, Museum of Natural History
MS(StP), Machinery Shop
MSh(StP), Meat Shop
MorH, Morrill Hall (Administration)
MurH, Murphy Hall
MusEd, Music Education

NCCE, Nolte Center for Continuing Education (formerly CCS)
NGW, Norris Gymnasium for Women
NH, Nicholson Hall
NMA, Northrop Memorial Auditorium
NorH(StP), North Hall
NorHD(StP), North Hall Dormitory
NWGH(StP), Northwest Greenhouses

Owre, Owre Hall (Medical Sciences)
P, Pillsbury Hall
PB, Poucher Bldg (2007 Univ Ave SE)
PeikG, Peik Hall Gymnasium
PeikH, Peik Hall (University High School)
PetH(StP), Peters Hall
PG(StP), Poultry Group
Ph, Tate Laboratory of Physics
PH(StP), Power House
PiH, Pioneer Hall
PkR, Parking Ramp
PlantS(StP), Plant Sciences (formerly Crops Research)
PM(StP), Post-Mortem
PoH, Powell Hall
PolDB, Police Department Building (2030 Univ Ave SE)

Buildings located on the St Paul Campus are followed by StP in parentheses.
Buildings located on the West Bank are followed by W in parentheses.

PP(StP), Plant Pathology
PPFL(StP), Plant Pathology Field Laboratory
Psy, Psychology
Pt, Pattee Hall

SaH, Sanford Hall
SB(StP), Swine Barn
SBH, State Board of Health
ScH, Scott Hall (Music)
SciCB, Science Classroom Building (at East Bridgehead)
ShAn, Shops Annex
ShB(StP), Sheep Barn
ShH, Shevlin Hall
SnH(StP), Snyder Hall
SocSci(W), Social Sciences Building, West Bank
So(StP), Soils
SS, Storehouse and Shops
SSN(StP), Seed Storage North
SSS(StP), Seed Storage South
Stad, Stadium
StCen(StP), Student Center

TandAc, Tandem Accelerator Building
TEH(StP), Temporary, East of Haecker
TerH, Territorial Hall
TH(StP), Thatcher Hall
TNCE, Temporary, North Court of Engineering
TNCD, Temporary, North of Child Development
TNM, Temporary, North of Mines
TSC(StP), Temporary, South of Coffey Hall
TSCE, Temporary, South Court of Engineering
TSF, Temporary, South of Folwell

UPress, University Press Building (2037 Univ Ave SE)

VB(StP), Veterinary Barn
VCHH, Variety Club Heart Hospital
VetA(StP), Veterinary Anatomy
VetC(StP), Veterinary Clinic
VetDL(StP), Veterinary Diagnosis Laboratories
VetIB(StP), Veterinary Isolation Bldgs
VetS(StP), Veterinary Science
VFWCRC, VFW Cancer Research Center
VH, Vincent Hall

WeH, Wesbrook Hall
WeiH(StP), Weigley House (1316 Cleveland Ave N)
WmsA, Williams Arena
WuH, Wulling Hall

Z, Zoology

Buildings located on the St Paul Campus are followed by StP in parentheses.
Buildings located on the West Bank are followed by W in parentheses.

DIRECTORY OF DEPARTMENTAL OFFICES

Admissions and Records, Office of:	
Minneapolis Campus	MorH 105
St. Paul Campus	CofH 220
Aeronautics and Engineering Mechanics	AE 107
Aerospace Studies	A 3
Agricultural Economics	HH 212
Agricultural Education	Hr 208
Agricultural Engineering	AgEng 200
Agronomy and Plant Genetics	Agr 303
American Studies	VH 10
Anatomy	JOAd 262
Anesthesiology	Mayo C596
Animal Husbandry	PetH 122
Anthropology	ForH 200
Architecture	Arch 110
Art	J 108
Art Education	WuH 135
Astronomy	Ph 358
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Biochemistry (AFHE)	SnH 214
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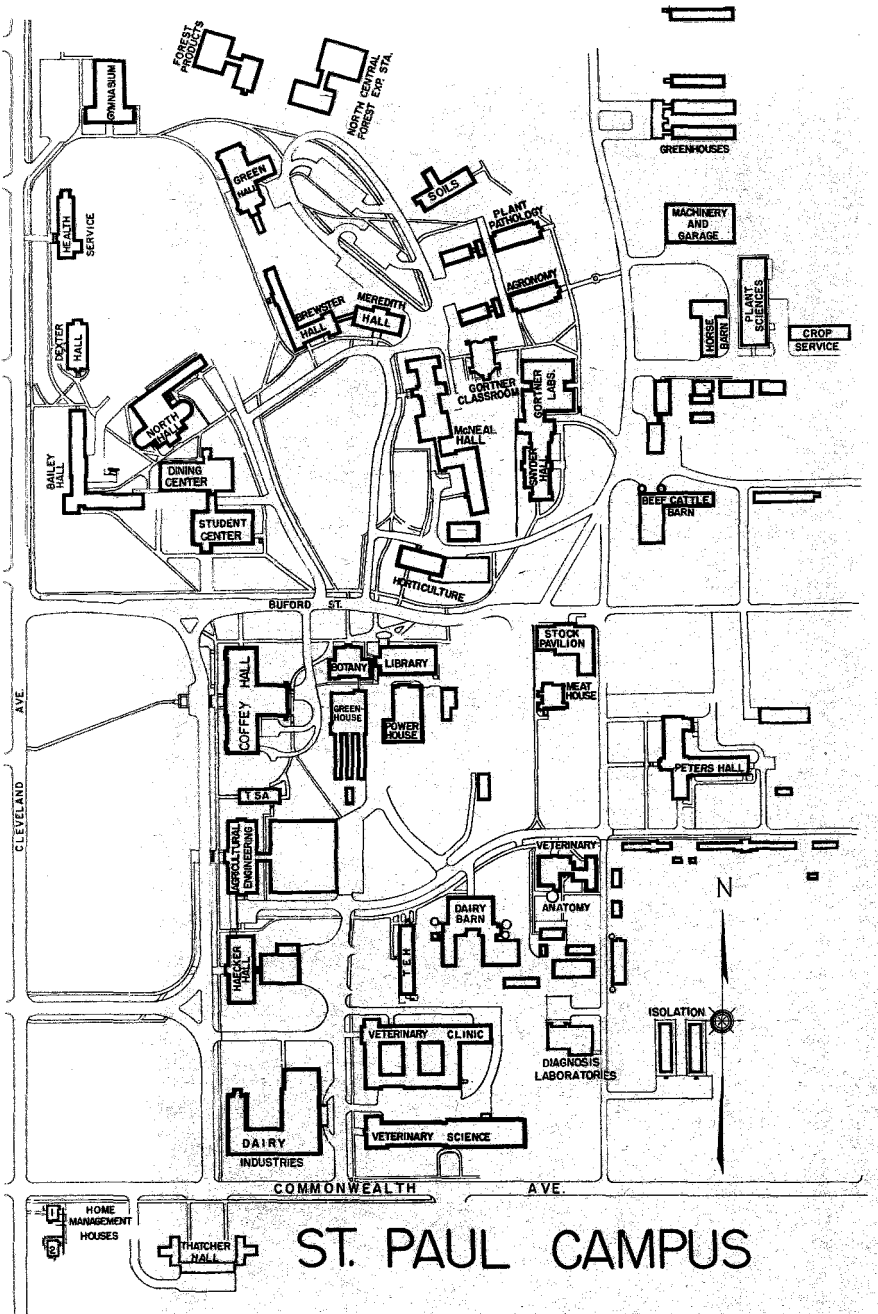
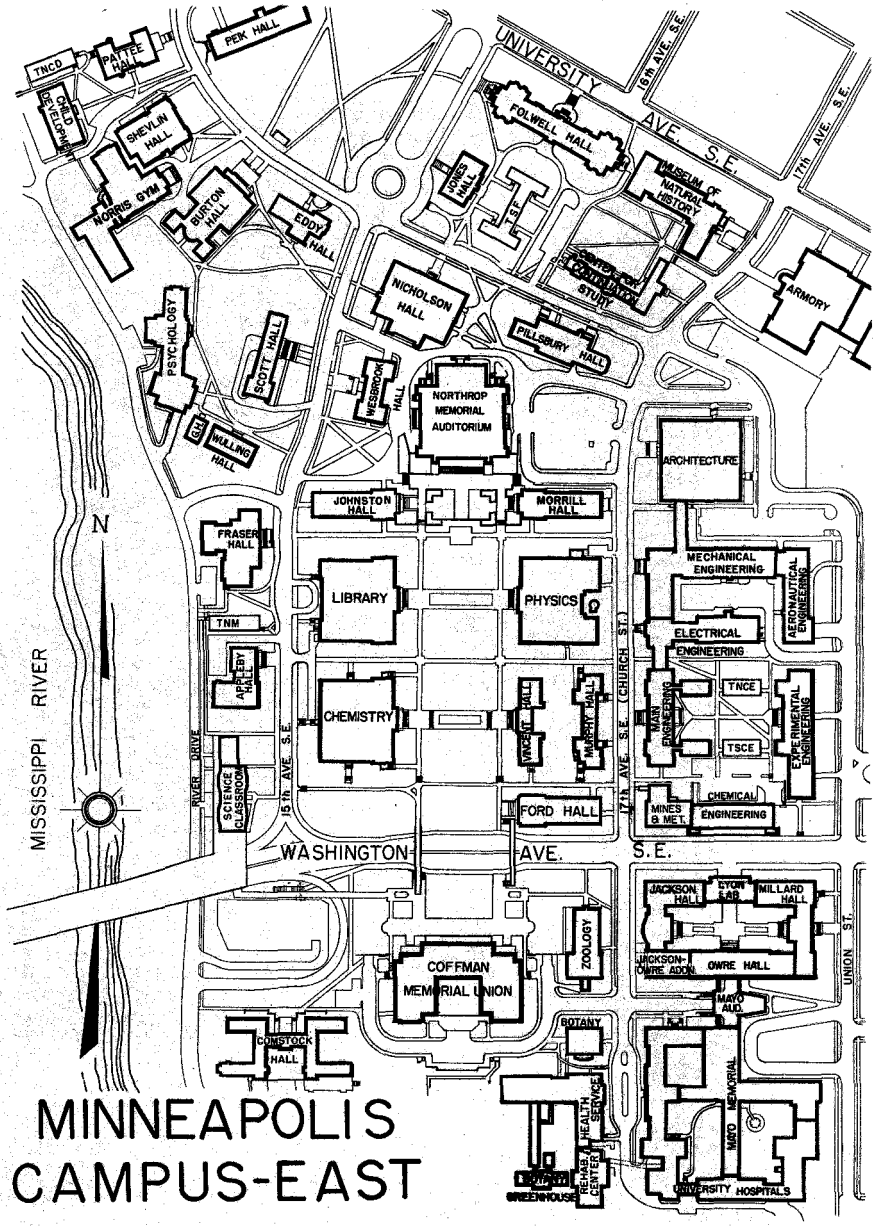
Biology	Z 108
Biophysics	TNCE 200
Botany	Bo 8
Business Administration	BA 225
Chemical Engineering	ChE 151
Chemistry	C 139
Child Psychology	CD 206
Civil Engineering	E 123
Classics	FolH 309
Communication	TNM 212
Dairy Husbandry	HH 130
Dairy Industries	DI 225
Dental Assisting	MH 360B
Dental Hygiene	MH 360A
Dentistry	Owre 136
Eastern and South Asian Languages	FolH 322
Economics	BA 1035
Educational Administration	Bu 203
Educational Psychology	Bu 139A
Electrical Engineering	EE 139
Engineering Graphics	ME 142
English	VH 127
Entomology, Fisheries, and Wildlife	CofH 300
Family Studies	SocSci 1014
Forestry	GH 110
General College	NH 106
General Education	Bu 204
Genetics	PetH 126
Geography	SocSci 414
Geology and Geophysics	P 108
German	FolH 219
History	SocSci 614
Home Economics	McNH 200
Home Economics Education	McNH 117
Horticultural Science	Hr 111
Humanities	ForH 286
Industrial Education	TNCD 103
Information and Agricultural Journalism	CofH 107
Journalism, Mass Communications	MurH 111
Laboratory Medicine	Mayo C205
Law	FraH 125
Library School	Lib 3
Linguistics and Philology	FolH 219
Mechanical Engineering	ME 125
Mechanized Agriculture	AgEng 200
Medicine	Mayo C306
Methods and Student Teaching	Bu 227
Microbiology	Mayo 1060
Middle Eastern Languages	FolH 322
Military Science	A 108
Mineral and Metallurgical Engineering	MinMet 112
Mortuary Science	VH 114
Music	ScH 107
Music Education	ScH 214
Natural Science	Ph 165
Naval Science	A 203
Nursing	Owre 125
Obstetrics and Gynecology	Mayo A619
Ophthalmology	Mayo A684
Otolaryngology	Mayo A605
Pathology	JacH 198
Pediatrics	Mayo 1460
Pharmacology	MH 105
Pharmacy	AH 115
Philosophy	ForH 314
Physical Education for Men	CH 220
Physical Education for Women	NGW 101
Physical Medicine	Mayo 860
Physics	Ph 148
Physiology	MH 424
Plant Pathology and Physiology	PP 304
Political Science	SocSci 1414
Poultry Science	PetH 205
Psychiatry and Neurology	Mayo B692
Psychology	Psy 112
Public Health	Mayo 1325
Radiology	Mayo B238
Rhetoric	AgEng 230
Romance Languages	FolH 200
Scandinavian	FolH 210
Slavic Languages	FolH 321
Social Science	SocSci 232
Social Work	SocSci 909
Sociology	SocSci 1114
Soil Science	So 125
Speech, Communication, and Theatre Arts	FolH 317
Statistics	ForH 395
Student Counseling Bureau	EdH 101
Surgery	Mayo B518
Veterinary Anatomy	VetS 239A
Veterinary Bacteriology and Public Health	VetS 300B
Veterinary Medicine and Clinics	VetC 110
Veterinary Obstetrics	VetC 116
Veterinary Pathology and Parasitology	VetS 205
Veterinary Physiology and Pharmacology	TEH 201
Veterinary Surgery and Radiology	VetC 116
Zoology	Z 108


FOREST PRODUCTS
NORTH CENTRAL FOREST EXP. STA.
GYMNASIUM
GREEN HALL
SOILS
PLANT PATHOLOGY
GREENHOUSES
MACHINERY AND GARAGE
HEALTH SERVICE
AGRONOMY
BREWSTER HALL
MEREDITH HALL
DEXTER HALL
HORSE BARN
PLANT SCIENCES
CROP SERVICE
GORTNER CLASSROOM
GORTNER LABS.
NORTH HALL
McNEAL HALL
GORTNER HALL
BAILEY HALL
DINING CENTER
STUDENT CENTER
BEEF CATTLE BARN
HORTICULTURE
BUFORD ST.
STOCK PAVILION
BOTANY
LIBRARY
COFFEY HALL
MEAT HOUSE
GREEN-HOUSE
POWER HOUSE
PETERS HALL
T.S.A.
CLEVELAND AVE
AGRICULTURAL ENGINEERING
VETERINARY
N
DAIRY BARN
ANATOMY
HAECKER HALL
Y.E.H.
ISOLATION
VETERINARY CLINIC
DIAGNOSIS LABORATORIES
DAIRY INDUSTRIES
VETERINARY SCIENCE
COMMONWEALTH AVE.
HOME MANAGEMENT HOUSES
THATCHER HALL
ST. PAUL CAMPUS


MINNEAPOLIS
CAMPUS-EAST
UNIVERSITY AVE. S.E.
16th AVE. S.E.
17th AVE. S.E.
WASHINGTON AVE. S.E.
15th AVE. S.E.
17th AVE. S.E. (CHURCH ST.)
MISSISSIPPI RIVER
RIVER DRIVE
UNION ST.
N
TNCD
PATTEE HALL
CHILD DEVELOPMENT
PEIK HALL
SHEVLIN HALL
NORRIS GYM
BURTON HALL
EDDY HALL
FOLWELL HALL
JONES HALL
T.S.F.
MUSEUM OF NATURAL HISTORY
CENTER FOR CONTINUATION STUDY
ARMORY
NICHOLSON HALL
PILLSBURY HALL
PSYCHOLOGY
SCOTT HALL
WESBROOK HALL
NORTHROP MEMORIAL AUDITORIUM
CLA
WILLING HALL
ARCHITECTURE
JOHNSTON HALL
MORRILL HALL
FRASER HALL
MECHANICAL ENGINEERING
AERONAUTICAL ENGINEERING
LIBRARY
PHYSICS
TNM
ELECTRICAL ENGINEERING
APPLEBY HALL
CHEMISTRY
VINCENT HALL
MURPHY HALL
MAIN ENGINEERING
TNCE
TSCE
EXPERIMENTAL ENGINEERING
SCIENCE CLASSROOM
FORD HALL
MINES & MET
CHEMICAL ENGINEERING
JACKSON HALL
LYON LAB
MILLARD HALL
ZOOLOGY
JACKSON-OWRE ADDN
OWRE HALL
COFFMAN MEMORIAL UNION
MAYO AUD.
BOTANY
CONSTOCK HALL
HEALTH SERVICE
MAYO MEMORIAL
REHAB. CENTER
GREENHOUSE
UNIVERSITY HOSPITALS

FINAL EXAMINATIONS

Hours and Days—The time of your examination is based on the hours and days the class is regularly scheduled, and the college under which the course is listed in the *Class Schedule*. This final examination schedule does not apply to courses offered primarily to students registered in the School of Dentistry, Law School, Medical School, College of Pharmacy, and College of Veterinary Medicine . . . or to courses numbered over 200 which have no regularly scheduled classrooms.

In determining your proper final examination time from this schedule:

- Go by the lecture hours rather than the laboratory or recitation hours.
- Follow the MWF sequence if your class meets four or more days a week.
- Use the first full class hour if your class meets for more than one continuous hour. (For example, a class meeting VI-VII MWF would follow the VI MWF examination time schedule)
- Split-hour classes are to use the following arrangement: 8:15-9:30 TTh use I TThS; 9:45-11:00 TTh use II TThS; 11:15-12:30 TTh use IV TThS; 12:45-2:00 TTh use V TTh; 2:15-3:30 TTh use VII TTh. Any other unusual combinations should be cleared with the Room Scheduling Office prior to final examination week.
- Use the common examination hour if your course is listed on the following page.

Classes meeting I-II Hour Saturday only will be examined 8:00-10:00 am S, December 10.

Classes meeting III-IV Hour Saturday only will be examined 10:30-12:30 S, December 10.

Special Note: Classes meeting at 7:15 am will be examined at a time arranged by the instructor with the Room Scheduling Office.

Courses Listed Under College of Biological Sciences, Business Administration, General College, and Institute of Technology

Class Hours					Class Hours				
I	MWF	1:00- 3:00	W	Dec. 14*	VI	MWF	1:00- 3:00	T	Dec. 13*
I	TThS	4:00- 6:00	F	Dec. 16	VI	TTh	1:30- 3:30	M	Dec. 12
II	MWF	8:00-10:00	Th	Dec. 15*	VII	MWF	1:00- 3:00	W	Dec. 14*
II	TThS	10:30-12:30	Th	Dec. 15	VII	TTh	10:30-12:30	W	Dec. 14
III	MWF	1:00- 3:00	F	Dec. 16*	VIII	MWF	3:30- 5:30	Th	Dec. 15*
III	TThS	8:00-10:00	F	Dec. 16	VIII	TTh	4:00- 6:00	M	Dec. 12
IV	MWF	8:00-10:00	M	Dec. 12*	IX, X	Instructor will arrange examination time and room with Room Scheduling Office.			
IV	TThS	10:30-12:30	M	Dec. 12					
V	MWF	8:00-10:00	T	Dec. 13*					
V	TTh	10:30-12:30	T	Dec. 13					

Courses Listed Under College of Liberal Arts, Education, Medical Sciences‡, Dentistry‡, and Unattached Departments**

Class Hours					Class Hours				
I	MWF	3:30- 5:30	W	Dec. 14*	VI	MWF	3:30- 5:30	T	Dec. 13*
I	TThS	4:00- 6:00	F	Dec. 16	VI	TTh	1:30- 3:30	M	Dec. 12
II	MWF	1:00- 3:00	Th	Dec. 15*	VII	MWF	1:00- 3:00	W	Dec. 14*
II	TThS	10:30-12:30	Th	Dec. 15	VII	TTh	10:30-12:30	W	Dec. 14
III	MWF	10:30-12:30	F	Dec. 16*	VIII	MWF	3:30- 5:30	Th	Dec. 15*
III	TThS	8:00-10:00	F	Dec. 16	VIII	TTh	4:00- 6:00	M	Dec. 12
IV	MWF	8:00-10:00	M	Dec. 12	IX, X	Instructor will arrange examination time and room with Room Scheduling Office.			
IV	TThS	10:30-12:30	M	Dec. 12					
V	MWF	8:00-10:00	T	Dec. 13*					
V	TTh	10:30-12:30	T	Dec. 13					

* Classes meeting four or more days a week may give three-hour examinations provided the instructor notifies the Room Scheduling Office of his intention to do so. Three-hour examinations will be scheduled on the respective morning or afternoon the examination would otherwise be given: December 12 (8:30-11:30 or 12:00-3:00); December 13 (8:30-11:30 or 1:00-4:30); December 14 (8:30-11:30 or 1:30-4:30); December 15 (8:30-11:30 or 12:00-3:00); December 16 (10:30-1:30 or 2:00-5:00).

‡ Courses offered primarily to students other than medical or dental students.

** Courses listed under Aerospace Studies, Military Science, Mortuary Science, Naval Science.

Courses Listed Under Agriculture, Forestry, and Home Economics

Class Hours				
I	MWF	3:30- 5:30	W	Dec. 14*
I	TThS	4:00- 6:00	F	Dec. 16
II	MWF	1:00- 3:00	Th	Dec. 15*
II	TThS	10:30-12:30	Th	Dec. 15
III	MWF	1:00- 3:00	F	Dec. 16*
III	TThS	8:00-10:00	F	Dec. 16
IV	MWF	8:00-10:00	M	Dec. 12*
IV	TThS	10:30-12:30	M	Dec. 12
V	MWF	8:00-10:00	T	Dec. 13*
V	TTh	10:30-12:30	T	Dec. 13

Class Hours				
VI	MWF	3:30- 5:30	T	Dec. 13*
VI	TTh	1:30- 3:30	M	Dec. 12
VII	MWF	1:00- 3:00	W	Dec. 14*
VII	TTh	10:30-12:30	W	Dec. 14
VIII	MWF	3:30- 5:30	Th	Dec. 15*
VIII	TTh	4:00- 6:00	M	Dec. 12
IX, X	Instructor will arrange examination time and room with Room Scheduling Office.			

Common Examinations—All sections of the following courses are examined together at time indicated.

Acct 24, 25, 26—7:00-9:00 pm M	Dec. 12	Ger 5—7:00-9:00 pm M	Dec. 12
Biol 1, 1A, 2, 2A, 2H—6:30-8:30 pm T	Dec. 13	Math T, 55—12:00-2:00 S	Dec. 10
Comm 1, 2, 3—8:00-10:00 am S	Dec. 10	Math Z—12:00-3:00 S	Dec. 10
Comp X, 1—8:00-10:00 am S	Dec. 10	Math 10, 15, 22, 23, 40, 42, 43, 44—3:15-6:15 S	Dec. 10
Econ 1, 1T, 2, 2T—7:00-9:00 pm Th	Dec. 15	ME 30—6:30-8:30 W	Dec. 14
EG 25—6:30-8:30 pm T	Dec. 13	Psy 1—8:00-10:00 F	Dec. 16
Engl A, C—§		Psy 4—7:00-9:00 pm S	Dec. 10
Fren 2, 3, 25—6:30-9:30 pm W	Dec. 14	QA 5, 51—7:00-9:00 pm S	Dec. 10
GC 10A—7:00-9:00 pm M	Dec. 12	Span 2, 3, 25—6:30-9:30 pm W	Dec. 14
GC 32A-7:00-9:00 pm Th	Dec. 15		
Ger 1A, 2A, 3A, 4—6:30-9:30 pm W	Dec. 14		

Rooms—Examinations are given in the regularly scheduled classroom unless your instructor arranges for and announces a different room. Instructors note: Requests for special final examination rooms are submitted to the Office of Room Assignments and Scheduling by your department office on Form A123 on or before November 9.

Conflicts and Three Examinations in One Day—Report conflicts with examinations in other courses and situations involving three examinations in one day to your college office.

Schedule Committee Regulations Regarding Examinations

1. There shall be no variations from the University final examination schedule except by concurrence of the dean of the college and the chairman of the University Scheduling Committee. This prohibition precludes also moving a final examination from a scheduled time to the last or earlier meetings of the class, except laboratory final examinations which cannot be held in accordance with the regular final examination schedule.
   All requests for adjustment of final examination hours by departments should be made by December 2 to permit publication and orderly consideration of hardships. Additional common examinations may be requested on Form A163, which is available in department offices. The same form is used to request exceptions to official examination hours.
2. Instructors requesting any variation from the official examination schedule must agree to give a special make-up examination to any student having examination conflicts or three examinations in one calendar day because of the change in hours being requested.
3. Arranged examinations and authorized variations in published hours shall conform with the hour-periods shown in the Examination Schedule.
4. No variations from the University final examination schedule will be considered official until published in the Official Daily Bulletin.
5. Each college shall assume responsibility for making arrangements to spread out examinations for students who have more than two examinations scheduled in one day.
6. **Recommended**—In order to give students an opportunity for thorough review prior to final examinations, instructors are requested not to schedule quizzes or term papers to be due during the last week of class.
7. Since providing adequate seating for final examinations is a continuing and growing problem:
   a. Departments are encouraged to limit final examinations to 2 hours.
   b. Alternate seating should be requested only when it is deemed necessary for proper administration. Some rooms are better than others for adjacent seating. Some departments are giving alternate forms of examinations to students seated in every seat and other departments are encouraged to follow this procedure.

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* Classes meeting four or more days a week may give three-hour examinations provided the instructor notifies the Room Scheduling Office of his intention to do so. Three-hour examinations will be scheduled on the respective morning or afternoon the examination would otherwise be given: December 12 (8:30-11:30 or 12:00-3:00); December 13 (8:30-11:30 or 1:00-4:30); December 14 (8:30-11:30 or 1:30-4:30); December 15 (8:30-11:30 or 12:00-3:00); December 16 (10:30-1:30 or 2:00-5:00).

§ Follow regular examination schedule using sectional rather than lecture hours.

GRADING SYSTEM

1. There shall be four permanent grades, A (highest), B, C, and D (lowest), which shall be acceptable for the completion of a single course.

2. There shall be a permanent grade of F (failure) given when a student does not complete successfully the work of a course.

3. There shall be a temporary grade of I (incomplete) which may be assigned when there is not sufficient information immediately available to permit the assignment of a permanent grade. This would be the case if the student has not done all the work of the course or the instructor does not know why a student, officially registered for his course, has not appeared or has left. If the instructor is able to ascertain that the student has no adequate excuse or if the student attended beyond the sixth week and was failing, F is the appropriate grade.
   An I which is not turned into a permanent grade or into a W (official cancellation with approval of the student's college) by the end of the sixth week of the next regular quarter of attendance shall become an F. (This does not apply to students in the Graduate School or to students in a Master's degree program in undergraduate colleges; their I grades remain until changed by the instructors to some other grade.) Permission to complete the work must be obtained from the instructor. He may set a makeup deadline of less than 6 weeks.
   An extension of time may be permitted for removal of I grades upon recommendation of the instructor concerned and with approval of the Scholastic Committee of the college in which the student is registered. If the petition is presented after the end of the sixth week of the next quarter of residence, a restoration of the mark of I and the completion of the required work would be considered in the nature of a special examination for which the special examination fee would be required.

4. There shall be a symbol W to indicate official cancellation from a course without grade. This shall be assigned in all cases of official cancellation during the first 6 weeks of classes irrespective of the student's standing. Whether cancellation is permitted is within the authority of the student's college to determine. After 6 weeks, W shall be posted only if the student is not failing at the time of official cancellation. W is a registration symbol, not a grade, and shall be posted by the Recorder on the basis of the student's registration activity as approved by the student's college.

5. A student who cancels officially or otherwise leaves a class after the sixth week of classes and is failing at the time shall receive an F.

6. There shall be a symbol X which may be reported in continuation courses in which a student is permitted to continue but in which a grade cannot usually be determined until the sequence is completed. The instructor shall submit a grade for each X when the student has completed the entire sequence.

7. In courses numbered 200 and higher, the permanent grade S (satisfactory) may be used to indicate satisfactory work for graduate students. In calculating grade point averages, it counts as a B.

8. In the doctor of medicine program, the permanent grade S (satisfactory) may be used to indicate satisfactory academic work for M.D. candidates. The grade S, when recorded for a course in the standard medical (M.D.) curriculum, carries no implication of a more exact grade level. A medical student's academic standing will be calculated on the basis of a more detailed evaluation available in the college office. A graduate student registered for courses in the standard medical (M.D.) curriculum should be graded in those courses on the standard (A, B, C, or D) system.

9. There shall be a registration symbol V (visitor) to indicate registration as an auditor or visitor.

10. There shall be a symbol T (transferred) indicating credits transferred from another institution, or from one college to another within the University when a revaluation is required. It shall be posted as a preceding supplement to the original grade.

11. For purposes of determining scholarship averages, grade points shall be assigned as follows:

Each credit of A	4 grade points
Each credit of B	3 grade points
Each credit of C	2 grade points
Each credit of D	1 grade point
Each credit of F	0 grade points

   A student's scholastic average—or grade point average—shall be the sum of grade points divided by the sum of credits passed and failed. In general, all credits must enter into the grade point average. If a course is repeated, usually both grades should enter into the computation of the grade point average. However, the faculty of a school or college may determine which credits and grade points are to be included in the average.

12. Any college or school may set special scholastic standards or other standards as a condition for registration in particular courses of study, for placing students on probation, for admission to the college or school, for promotion, for honors, for continued residence in the college or school, or for degree, etc.

13. The official grade point average shall be calculated in accordance with paragraph 11 above regardless of when grades were earned.

GRADES

Academic Staff—Grades are due in the Office of Admissions and Records within 72 hours after the examination. Fall quarter grades are due beginning December 13 with last day examination grades due by 5 p.m., Monday, December 19. Messenger service is provided. Please call 373-2153 when grades are ready. Do not put reports in campus mail.

Students—Your Fall quarter grade reports will be available beginning Wednesday, December 28 as follows:

Agriculture, Biological Sciences, Forestry, Home Economics; Veterinary Medicine—at 225 Coffey Hall, St. Paul Campus.

Business Administration; Education; General College; Graduate School; Institute of Technology; Liberal Arts; University College—at Office of Admissions and Records.

Other Colleges—at the college offices except for Law grades which will not be reported until the end of the year.

On Tuesday, January 3, grades for Business Administration; Education; General College; Graduate School; Institute of Technology; Liberal Arts; and University College will be in the Architecture Court.

REMOVAL OF INCOMPLETES

Grades of I (incomplete) must be made up by the end of the sixth week of your next regular quarter in attendance. Dates for removal of incompletes are November 4, February 10, and May 5. Permission to complete the work must be obtained from the instructor who may, and generally will, set the makeup deadline in advance of the above dates. See GRADING SYSTEM for further explanation.

SPECIAL FEES

Supplement to *General Information Bulletin.*

English for Foreign Students

$15.00 per qtr—required of foreign students needing special instruction in English

Late Change of Registration

$2.00 Arts and IT after 1st week of classes

Late Payment Fee

$3.00 through the first week of classes, $5.00 during the second week, and $10.00 thereafter

Music Practice Room

$1.00 per qtr for one, $2.00 for two, 50 cents for each addtl hr per week—all instruments except organ
.25 per hr—small organ
.50 per hr—large organ

Placement Service Fee—Required of degree candidates from:

Duluth	$10.00
Institute of Technology (first certificate or degree)	5.00
College of Education (except Nursing Education Majors)	10.00
Morris (optional)	10.00

Record Service Fee

$1.00 required of all new students. This fee provides three certified copies of student records. When more than three copies of records are requested, a charge of $1.00 will be made for each additional copy

Speech and Hearing Clinic—Students

$5.00 per qtr—spec clinical treatment

Speech and Hearing Clinic—Nonstudents

$ 2.00	per session, Speech Therapy—Days
2.50	per session, Speech Therapy—Evenings
125.00	Summer Session intensive therapy
5.00	Consultation (outpatient)
20.00	Evaluation (outpatient)

DEPOSIT CARDS

Deposit cards may be purchased from the bursar (or from the cashier, Coffey Hall, for Agricultural Biochemistry). Chemistry cards are $10.00; Agricultural Biochemistry, Art, Pharmacy, and Medical Biochemistry cards are $5.00.

Laboratory material and breakage will be charged against your deposit card. Any unused balance will be refunded at the end of the course.

You must present your deposit card to be assigned a laboratory desk. Veterans (P.L. 815 and 894) will receive information from their instructor concerning deposit cards and laboratory assignments.

FACILITY FEES

Physical education facility fees—Students registered in the following physical education courses must pay the amount indicated to the appropriate facility operator for the use of the facility and/or equipment:

PEM 1A	Bowling, Beginning	$ 8.10	PEW A	Bowling, Beginning	$ 8.10
	Bowling, Intermediate	12.00		Bowling, Intermediate	8.10
	SCUBA diving	18.00		Riflemarksmanship, Bgn	7.00

COURSE FEES

All fees are per quarter unless otherwise indicated.

Students taking the following courses will pay course fees in addition to tuition as follows:

Civil Engineering (Summer)

$35.00 per term—23

Composition (Arts)

*$21.00—X Preparatory Composition

English (Duluth and Morris)

*$21.00—X Preparatory English

Health Service (Field Trips and Foreign Study)

$14.26 per quarter, $7.13 per Summer Term—Required of students on University Field Trips such as Anthropology, Civil Engineering, Geology, Mines, etc.

Students in University sponsored foreign travel groups are required to enroll in the Blue Cross-Blue Shield program or take out other adequate insurance.

Itasca Biological Station (Summer)

$10.00—Laboratory fee
*$35.00—Research Table fee

Mathematics (IT and Morris)

*$21.00—8 Solid Geometry

Mathematics (Arts)

*$35.00—Z Preparatory Mathematics

Mathematics (Duluth and Morris)

*$35.00—X Preparatory Mathematics

Modern Language Institute (Summer)

$40.00 per term—French (22, 56, 106); or German (22, 67, 106); or Spanish (22, 58, 109)

Music

$35.00 for 1 half-hour individual lesson per week; $70.00 for 2 half-hour lessons or 1 hour lesson per week—A, D (no cr) ¶¶

$35.00 (2 cr) for 1 half-hour individual lesson per week; $70.00 (4 cr) for 2 half-hour lessons or 1 hour lesson per week—11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 100 ¶¶

No fee for 11A, 11B, 11C, 12C (Class Lessons)

$50.00—for 2 half-hour individual lessons per week or 1 hour lesson per week—13B (Summer)
$25.00—60B, 61B, 62B (Summer)
$70.00—for 1 hour lesson per week—204 ¶¶
$15.00—Piano for Children, ages 6-16

Music Education

225E—Same as Music 11-27, 100 ¶¶

Music (Duluth)

$15.00 (1 cr) for 10 half-hour lessons; $30.00 (2 cr) for 10 hour lessons—11, 13, 15, 17, 19, 39, 40

$15.00 (2 cr) for 10 half-hour lessons—50, 51, 52, 53, 54

$30.00 (2 cr) for 10 hour lessons—204

Music (Morris)

$30.00 for 10 half-hour lessons; $60.00 for 10 hour lessons—11, 12, 13, 14, 17, 18, 19, 40

Physical Education

Cooke Hall
Locker-Towel rental—$3.00 plus $1.00 deposit per quarter
Gym clothing rental—$3.00 per quarter

Norris Gymnasium
Locker-Towel rental—$3.00 plus $1.00 deposit per quarter

St. Paul Gymnasium
Locker-Towel rental—$3.00 per quarter

Physical Education (Duluth)

$1.25—1 through 49 (except 45), W66, W67
$5.00—9 (Bowling)

Physical Education (Morris)

$2.00—All courses and intramural activities

Public Health

$100.00—138, 169, 190
$251.00—231, 232
*$200.00—230 (September field course)

Rhetoric (AFHE)

*$7.00 per credit for more than 9 credits in Rhet (Communications)

Speech

$25.00—175

* In lieu of tuition.

¶¶ Number of lessons is doubled per Summer Session term for courses listed in these sections.

COURSES RESERVED IN COLLEGE OFFICES

Accounting
24, 25, 26—CofH 225 for AFHE, and JohH 205 for other students
75A, 105A, 115B, 125—BA(W) 225

Aeronautics
All courses under 200—E 136

Agricultural Economics
1, 3, 12—CofH 225

Agricultural Engineering
All courses under 200—E 136

Agronomy and Plant Genetics
1—CofH 225

Aerospace Studies
All courses—A 108

American Studies
200—JohH 205

Analytical Chemistry
57A, 57B—CofH 225 for AFHE, and JohH 205 for other students
All other courses under 141—E 136

Animal Husbandry
36A—CofH 225

Anthropology
1A (lect and lab), 85, 100, 117, 125, 150, 165—JohH 205

Architecture
All courses under 200—E 136

Art History
1—CofH 225 for AFHE, and JohH 205 for other students
All other courses under 199—JohH 205

Art Education
10, 14, 17, 18, 19, 53, 56, 58, 84, 151, 156—Bu 206

Astronomy
11—E 136 for IT, and JohH 205 for other students

Biochemistry (AFHE)
145, 204—CofH 225

Biology
1, 1A, 2, 2A, 2H (lect and lab)—CofH 225 for AFHE, AH 115 for Pharm, Owre 125 for Nurs, E 136 for IT, VH 114 for Mort Sci, Bu 206 for Ed, and JohH 205 for other students
49, 52, 71—CofH 225

Botany
52, 55, 91A, 104, 118, 130—Bo 8

Business Finance
56, 76—BA(W) 225

Business Law
58, 98—BA(W) 225

Chemical Engineering
All courses under 200—E 136

Child Psychology
80, 81—JohH 205

Chinese
1—JohH 205

Civil Engineering
All courses under 200 (lect and lab for 53)—E 136

Classics
1—JohH 205

Communication
All courses—JohH 205

Curriculum and Instruction
60, 61, 62, 63, 64, 65, 108, 125, 136, 147, 195, 250—Bu 206

Dairy Husbandry
49—CofH 225

Economics
1, 1H—JohH 205
1T—E 136
2, 2H—AH 115 for Pharm, and JohH 205 for other students
50A, 62, 65, 66, 67, 68, 69, 75, 178A, 182—BA(W) 225 for BA, and JohH 205 for other students

Education
55A, 75A—Bu 206

Educational Psychology
110, 116, 116A, 125, 150, 184, 186, 209, 210, 216, 216A, 219A, 255, 257, 281, 282A, 290—Bu 106

Electrical Engineering
All courses under 200—E 136

Engineering Graphics
All courses—E 136

English
A, C—E 136 for IT, and JohH 205 for other students
85A—E 136
All other courses under 205 *except* 90H, 91H, 92H, 100, 147—JohH 205

English Composition
1, 2, 3—E 136 for IT, and JohH 205 for other students

Entomology, Fisheries and Wildlife
1, 125, 132, 144—CofH 225

Family Studies
All courses—JohH 205

Forestry
10, 52, 74, 199—CofH 225

French
All courses under 107 *except* 50, 65H—JohH 205

General Chemistry
4 (lect and rec), 6—CofH 225 for AFHE, and JohH 205 for other students
14—E 136
24, 24H—E 136 for IT, and JohH 205 for other students

General College
7A, 10A, 10B, 26A—CofH 220 for AFHE, and NH 20 for other students
15 (lect and rec)—NH 20
All other courses—NH 20

Genetics
66—CofH 225

Geography
1 (lect and lab)—CofH 225 for AFHE, E 136 for IT and JohH 205 for other students
4, 41, 71, 81, 87—JohH 205

Geology and Geophysics
1 (lect and lab), 2—CofH 225 for AFHE, E 136 for IT, and JohH 205 for other students
11—E 136

German
1 (lect and rec), 1A, 50—E 136 for IT, and JohH 205 for other students
All other courses under 103—JohH 205

Greek
1—JohH 205

Hebrew
1, 51—JohH 205

History
1, 1H (lect and rec)—JohH 205
All other courses under 139C *except* 17, 74A, 87A, 100B, 103A, 103B, 106A, 118C, 118D, 118E, 118J, 133C—JohH 205

History and Philosophy of Education
90—Bu 206

Home Economics
1, 3, 40—CofH 225 for AFHE, and JohH 205 for other students
All other courses under 189A *except* 102, 140, 177—CofH 225

Home Economics Education
49, 63—CofH 225

Horticultural Science
1—CofH 225

Humanities
All courses—JohH 205

Hydromechanics
All courses under 200—E 136

Industrial Education
1, 2—Bu 206
6, 7, 9, 12, 15, 22, 25, 35—TNCD 103

Industrial Engineering
All courses under 200—E 136

Industrial Relations
52, 62, 172—BA(W) 225

Insurance
73—BA(W) 225

Italian
1, 3, 25—JohH 205

Japanese
1—JohH 205

Journalism
All other courses under 277 *except* 16, 60, 78, 103, 112, 118—JohH 205

Latin
1—JohH 205

Library
101, 102, 103, 104, 105—JohH 205

Management
60, 70, 150A, 250—BA(W) 225

Marketing
57—BA(W) 225

Mathematics
T, Z, 10, 15, 40, 42, 43—CofH 225 for AFHE, and JohH 205 for other students
5A, 15H, 44, 44H, 55, 60, 63, 80A, 106, 107, 112, 112A, 117A, 157, 178A—E 136 for IT, and JohH 205 for other students
All other courses—E 136

Mechanical Engineering
All courses under 200—E 136

Mechanics and Materials
All courses under 200—E 136

Mechanized Agriculture
All courses under 130 *except* 64, 84, 114—CofH 225

Metallurgical Engineering
All courses under 200—E 136

Methods and Student Teaching
51A, 67, 67A, 68, 68A, 69, 70, 75, 75A—Bu 206

Microbiology
53—CofH 225 for AFHE, Mayo C 205 for Med Tech, and JohH 205 for other students
153, 223—JohH 205

Military Science
All courses—A 108

Mineral Engineering
All courses under 200—E 136

Mortuary Science
All courses—VH 114

Music
1T, 3T, 4, 4T, 6T, 11A, 12A, 34, 43, 101A—JohH 205

Music Education
4, 5, 6, 7, 9, 10, 51, 52—Bu 206

Natural Science
1, 4—CofH 225 for AFHE, and JohH 205 for other students

Naval Science
13 (lect and lab)—A 203
All other courses—A 203

Norwegian
1—JohH 205

Office Management
32—BA(W) 225

Organic Chemistry
42—CofH 225 for AFHE and E 136 for other students
61 (sec 1)—CofH 225 for AFHE, AH 115 for Pharm, other sections, E 136 for IT, and JohH 205 for other students
All other courses under 200—E 136

Orientation
1—CofH 225

Personal Orientation
1—JohH 205

Philosophy
1, 2—E 136 for IT, and JohH 205 for other students
3, 50, 50H, 53, 53H, 121, 130, 154, 158, 167—JohH 205

Physical Chemistry
All courses under 200—E 136

Physical Education for Men
1A (secs 36, 37, 38, 51)—CofH 225 for AFHE, and JohH 205 for other sections
2A—JohH 205
4B, 5A, 5B, 5C, 6A, 6B, 7A, 8, 55, 68, 72—Bu 206

Physical Education for Women
A (courses open to women only) secs 39, 40, 41, 42—CofH 225 for AFHE, and JohH 205 for other sections
20A, 45, 70—Bu 206

Physics
1—E 136 for IT, CofH 225 for AFHE, and JohH 205 for other students
4, 7, 22, 23, 50, 120, 144, 171A, 181A—E 136

Plant Pathology and Physiology
1, 51, 120—CofH 225

Political Science
A, 1, 25—E 136 for IT, and JohH 205 for other students
26, 30, 40, 67, 107, 115, 141, 149, 155, 160, 162, 164, 167, 184, 187—JohH 205

Portuguese
1—JohH 205

Psychology
4 (lect and lab), 100, 118, 125, 148, 156, 162, 171, 234, 292A—JohH 205

Public Health
3, 50—CofH 225 for AFHE, and JohH 205 for other students
52—CofH 225
125, 140—JohH 205

Public Administration
210, 240, 270A, 282A—JohH 205

Quantitative Analysis
5—JohH 205
51, 52, 61, 150, 258—BA(W) 225

Recreation, Park Administration
11, 43, 45, 49, 111—Bu 206

Rhetoric
All courses under 169—CofH 225

Russian
1, 4—JohH 205

School Health Education
25, 70—Bu 206

Social Science
1, 2, 3—E 136 for IT, and JohH 205 for other students
51, 62, 71—JohH 205

Sociology
1A, 14A—CofH 225 for AFHE
45 (lect and lab)—JohH 205
All other courses under 297 *except* 97—JohH 205

Soil Science
18B, 19, 119, 126, 135—CofH 225

Spanish
All courses under 143 *except* 65, 65H, 80, 110—JohH 205

Speech
50—E 136 for IT, and JohH 205 for other students
All other courses under 181 *except* 2, 61, 94H, 109—JohH 205

Speech Science, Pathology and Audiology
119, 120, 140, 171—JohH 205

Statistics
90, 90E, 121, 131—JohH 205

Studio Art
20—CofH 225 for AFHE, and JohH 205 for other students
23A, 60A—E 136
All other courses under 210A—JohH 205

Swedish
1—JohH 205

Theatre
All courses under 181 *except* 51A, 52B—JohH 205

Transportation
54—BA(W) 225

Veterinary Bacteriology and Public Health
53—CofH 225

Zoology
51, 52, 65, 91, 93, 107, 112, 121, 153—Z 108
125, 144, 284—CofH 225 for AFHE, and Z 108 for other students

UNIVERSITY CALENDAR

Academic Year, 1966-1967

FALL QUARTER

August 1-September 23			Fall registration. Orientation program for new students. (Dates for the various colleges will be announced in mailed instructions. Students are urged to register early. It is expected that all students who can do so will register in August.)
August	15*		Last day to file application for fall admission to the undergraduate colleges.
August	26*	Friday	Graduate School application deadline for fall quarter.
September	1*		Last day to file fall request for change of college within the University.
September	5	Monday	Labor Day, holiday.
September	15	Thursday	Final payment of fall quarter fees due for students registered through September 9; application deadline for Adult Special students.
September	16	Friday	New Students' Camps, September 16-18; New Students' Parents' Day, September 18; Welcome Week (Minneapolis-St. Paul), September 18-23; Orientation and Registration Week (Duluth and Morris), September 19-23.
September	23	Friday	Last day for registration and final payment of fees for the undergraduate colleges (including Adult Special students).
September	26	Monday	Fall quarter classes begin.
September	29	Thursday	Opening convocation; IV hour classes excused (except Duluth and Morris).
September	30	Friday	Last day for registration and final payment of fees for the Graduate School and for teachers in service.
October	12	Wednesday	Columbus Day, holiday.
October	15	Saturday	Homecoming Day (Minneapolis-St. Paul; Morris).
October	29	Saturday	Homecoming Day (Duluth).
November	3	Thursday	Senate meeting.
November	11	Friday	Veterans Day, holiday.
November	24	Thursday	Thanksgiving Day, holiday.
November	25-26		Classes excused (except Medical School and College of Veterinary Medicine).
December	1*		Last day to file application for winter admission to the undergraduate colleges or for change of college within the University.
December	5*	Monday	Graduate School application deadline for winter quarter.
December	8	Thursday	Senate meeting; last class day.
December	9	Friday	Review begins.
December	10-16		Final examination period.
December	17	Saturday	Fall quarter closes. Commencement (Minneapolis-St. Paul), 8 p.m.

WINTER QUARTER

December	26	Monday	(Sunday, December 25, Christmas Day), holiday.
December	27	Tuesday	Final payment of winter quarter fees due for students in residence fall quarter.

* Other application dates are specified for General College, Medicine, Veterinary Medicine, Dentistry, and Dental Hygiene in the admissions section of this bulletin.

December	27-30		Orientation program; registration and final payment of fees for new students in all undergraduate colleges (including Adult Special students).
January	2	Monday	(Sunday, January 1, New Year's Day), holiday.
January	3	Tuesday	Winter quarter classes begin.
January	6	Friday	Last day for registration and final payment of fees for the Graduate School and for teachers in service.
February	2	Thursday	Senate meeting.
February	22	Wednesday	Washington's Birthday, holiday.
February	19-25		University of Minnesota Week.
February	23	Thursday	Charter Day Convocation, IV hour classes excused (except Duluth and Morris).
February	24*	Friday	Graduate School application deadline for spring quarter.
March	1*		Last day to file application for spring admission to the undergraduate colleges or for change of college within the University.
March	9	Thursday	Senate meeting; last class day.
March	10	Friday	Review begins.
March	11-17		Final examination period.
March	16	Thursday	Final payment of spring quarter fees due for students in residence winter quarter in undergraduate colleges.
March	18	Saturday	Winter quarter closes. Commencement (Minneapolis-St. Paul), 8:30 p.m.

SPRING QUARTER

March	20-23		Orientation program; registration and final payment of fees for new students in all undergraduate colleges (including Adult Special students).
March	24	Friday	Good Friday, holiday.
March	27	Monday	Spring quarter classes begin.
March	31	Friday	Last day for registration and final payment of fees for the Graduate School and for teachers in service.
April	27	Thursday	Senate meeting.
May	10	Wednesday	Cap and Gown Day Convocation (Minneapolis-St. Paul), IV hour classes excused.
May	15*	Monday	Graduate School application deadline for first term Summer Session.
May	24	Wednesday	Cap and Gown Day Convocation (Duluth), VII hour classes excused.
May	30	Tuesday	Memorial Day, holiday.
May	31	Wednesday	Cap and Gown Day Convocation (Morris), VII hour classes excused.
June	1	Thursday	Senate meeting; last class day.
June	2	Friday	Review begins.
June	3-9		Final examination period.
June	4	Sunday	Baccalaureate Service (Duluth), 8 p.m.
June	9	Friday	Baccalaureate Service (Minneapolis-St. Paul), 4 p.m. Commencement (Duluth), 8 p.m.
June	10	Saturday	Spring quarter closes. Commencement (Minneapolis-St. Paul), 7:30 p.m.
June	12	Monday	Commencement (Morris), 8 p.m.

* Other application dates are specified for General College, Medicine, Veterinary Medicine, Dentistry, and Dental Hygiene in the admissions section of this bulletin.

General Extension Division, 1966-1967

FALL SEMESTER

September	12	Monday	Registration for fall semester begins.
September	21	Wednesday	Last day for registration, fall semester.
September	26	Monday	Fall semester classes begin.
October	12	Wednesday	Columbus Day, holiday.
November	11	Friday	Veterans Day, holiday.
November	24	Thursday	Thanksgiving Day, holiday.
December	17	Saturday	Christmas recess begins.
December	26	Monday	(Sunday, December 25, Christmas Day), holiday.
January	2	Monday	(Sunday, January 1, New Year's Day), holiday.
January	3	Tuesday	Classes resume.
January	28	Saturday	Fall semester closes.

SPRING SEMESTER

January	30	Monday	Spring semester registration begins.
February	8	Wednesday	Spring semester registration closes.
February	13	Monday	Spring semester classes begin.
February	22	Wednesday	Washington's Birthday, holiday.
March	24	Friday	Good Friday, holiday.
May	30	Tuesday	Memorial Day, holiday.
June	10	Saturday	Spring semester classes close.

Extension classes offered on the quarter basis are on the same schedule as day school with registration beginning 2 weeks preceding the opening of classes for the winter and spring quarters.

Correspondence study courses may be started at any time.

Summer Session

FIRST TERM

1966			1967	
June	13	Orientation and registration for first term.	June	12
June	14	First term classes begin.	June	13
June	20	Graduate School application deadline for second term Summer Session.	June	19
July	4	Independence Day.	July	4
July	15	Classes end at close of VI hour. Commencement, 4 p.m.	July	14
July	16	First term closes.	July	15

SECOND TERM

July	18	Registration for second term.	July	17
July	19	Second term classes begin; fees due.	July	18
August	19	Classes end at close of VI hour. Commencement, 4 p.m.	August	18
August	20	Second term closes.	August	19

Extension Division and Summer Session final examinations are given at the last class meeting each semester or term.

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STUDENT PROGRAM WORK SHEET

EXAMPLE:

Course Section: AgEc 1 Sec 2

Room Bldg. Instructor: 109 HH Lowe

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
I					
II					
III					
IV					
V					
VI					
VII					
VIII					

REGISTRATION DATES

New students participating in the orientation program should register on the day they are scheduled to appear for this activity. Other students may register at any time during the period listed below for their college or course. (Aug. 15 last day for new undergraduates to file application for fall admission).

Students approved for change of college should pick up their registration permit card from their previous college (Duluth and Morris students only if convenient) and present it with their Authorization for Change of College at the office of their new college to obtain registration material. Those planning to enroll in another college of the University, who have not yet applied for transfer at the Admissions Office, should do so immediately or not later than September 1 to receive consideration.

Students in Colleges that begin registration on August 1 who need to obtain class reservation cards for Arts College courses will be required to observe the following schedule in reporting to the Arts College Class Reservation Office:

S-Z August 1 or later
A-D August 2 or later
E-H August 3 or later
I-L August 4 or later
M-R August 5 or later

After this initial period is over, students may report at any time.

Agriculture, Forestry, Home Economics (225 CofH) ..... Aug. 1-12, Sept. 6-23
Biological Sciences (225 CofH) ..... Aug. 1-12, Sept. 19-23
Business Administration ..... Aug. 1, Sept. 23
Crookston-Technical Institute ..... Sept. 21-23
Dental Hygiene ..... Aug. 22, Sept.15-16
Dentistry ..... Aug. 1, Sept.23
Duluth Campus ..... Sept. 19-23
Education[1] ..... Aug. 1-12, Sept. 19-23
General College[2] ..... Aug. 8-26, Sept. 6-23
Graduate School ..... Aug. 1, Sept. 30
Institute of Technology[3] ..... Aug. 1-5, Sept. 19-23
Law School
Third year students Sept. 19; Second year Sept. 20; First year Sept. 21-22
Liberal Arts (including Adult Specials) ..... Aug. 1-26, Sept. 6-23
Upper Division students must have approved programs on file.
Medical School ..... Sept. 23
Medical Technology ..... Aug. 1-26, Sept. 6-23
Morris Campus ..... Sept. 19-23
Mortuary Science ..... Aug. 1-5, Sept. 22-23
Nursing[4] ..... Aug. 1-26, Sept. 12-23
Occupational Therapy ..... Aug. 1-12, Sept. 12-23
Pharmacy ..... Aug. 1-12, Sept. 19-23
Physical Therapy ..... Aug. 1-12, Sept. 12-23
Public Health ..... Sept. 19-23
University College ..... Aug. 1, Sept. 23
Veterinary Medicine (220 Coffey Hall) ..... Sept. 22-23

Education and Graduate students taking Saturday classes only may also register on Saturday, October 1, at 206 Burton Hall.

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[1] Education students should follow the same alphabetic schedule as shown above for Arts College.

[2] General College students should make an appointment at least a week in advance by telephone or letter to the General College Office.

[3] Institute of Technology—Enrolling Schedule:

	8-9	9-10	10-11	11-12	1-2	2-3	3-4
Aug. 1 or Sept. 19	Gb-Gw	F-Ga	E-Di	Ci-De	Bu-Ch	Bi-Br	B-Be
Aug. 2 or Sept. 20	A	Mu-Ny	Mc-Mo	Lo-Ma	Lar-Lj	Ko-Lan	Jok-Kn
Aug. 3 or Sept. 21	Hu-Joh	Hs-Hei	H-Heg	Wi-Z	Ve-Wh	Th-Va	Sp-Te
Aug. 4 or Sept. 22	Se-So	Ru-Sc	Q-Ro	Pe-Pu	Pa-O		
Aug. 5 or Sept. 23	Completion of Tally						

[4] School of Nursing—Enrolling Schedule:

Plan B Nursing sophomores will register on August 10, and new Plan C Nursing sophomores will register on August 8. Junior and Senior Plan B and Plan C students will be registered by appointment beginning August 8. Practical Nursing students will be registered beginning August 1. Masters of Education, M.S. students in Psychiatric and Medical-Surgical Nursing and those from other groups who did not register will register the week of September 19, 1966.

University of Minnesota

CLASS SCHEDULE

Winter Quarter

1967

Minneapolis and St. Paul Campuses

including

- Registration Instructions, page 4
- Final Examination Schedule, page 112
- Courses Reserved in College Offices, page 120
- Course Fees, page 116
- Calendar, page 118

Every Student Is Held Accountable for Information Contained Herein and Should Save This Bulletin for Future Reference.

HOW TO USE THIS BULLETIN

Bold face titles—You must obtain a class reservation card to enroll in courses which appear with **bold face** titles. Instructions on where to get these class reservation cards appear on page 120.

Prerequisites—Before you can enroll in some courses, you must have completed or be concurrently enrolled in certain other courses or possess some particular qualification or class standing. These requirements are known as prerequisites. If no prerequisites are listed, there are none, except insofar as the course number indicates a class standing requirement.

Class standing requirements, unless otherwise noted, are indicated by the course number:

1-49 for freshmen and sophomores
50-99 for juniors, seniors, and fifth-year students
100-199 for juniors, seniors, fifth-year students, and graduate students
200 and over for graduate students only

A minimum of prerequisite information is shown. For example, when courses which must be taken in sequence are prerequisites, only the last course of the sequence is listed. A comma always mean "and"; while a semi-colon indicates that there are alternative prerequisites.

Example: prereq 2 or 5, Psy 1 (you must have had Psychology 1 plus either courses 2 or 5)

Example: prereq C or 12H; 3A or 3B or Comm 3, 5 addtl cr; 5 cr in 21 or 22 or 23; exempt, 5 cr lit (you must have had either C or 12H; or 5 credits in the same department plus either 3A or 3B or Communication 3; or 5 credits from either course 21, course 22, or course 23; or 5 credits of literature with exemption from freshman English).

When no departmental designation precedes the course number listed as a prerequisite, that course is in the same department as the course being offered. Likewise, a prerequisite reading "6 cr" means 6 credits in courses offered by the same department.

Work equivalent to a prerequisite course (having the same content) is ordinarily acepted in lieu of that prerequisite. You will also note that the instructor may, in some instances, waive prerequisites at his discretion. See your college bulletin for further information.

Symbols—The following symbols are used throughout this bulletin:

† To receive credit, all courses listed after the dagger must be completed.
‡ Students may enter any quarter.
§ No credit if credit received for equivalent course after the symbol.
¶ Means "concurrent registration in."
♯ Means "consent of instructor."
△ Means "consent of department or school offering the course."
R Means "some sections of course reserved."

Hours and Days—Class hours are identified by Roman numerals, and continue for 45 minutes after the starting time shown below in all colleges on the Twin Cities Campus.

0	I	II	III	IV	V	VI	VII	VIII	IX	X
7:15	8:15	9:15	10:15	11:15	12:15	1:15	2:15	3:15	4:15	5:15

The University Senate approved the foregoing class-hour schedule with the understanding that classes may continue for 50 minutes after the starting times shown whenever this is feasible with respect to the students' schedules.

A class listed I-III TTh meets the first through the third hours Tuesdays and Thursdays, the hyphen always indicating "through." Days of the week are abbreviated M, T, W, Th, F, and S.

Televised courses—Those courses to be given on closed circuit television are designated with the abbreviation, **CCTV**.

Building name abbreviations—Refer to the index for page reference.

Choice of classes—When section numbers precede the hours and days listed, you may choose the section in which you wish to enroll. Many courses have a choice of laboratory or recitation periods, but only a single lecture period for all students taking the course. Occassionally there will be a choice of both lecture and laboratory or recitation periods. The choice of the laboratory or recitation section will determine the lecture section whenever the lecture sections are listed among the laboratory or recitation periods.

Examples:

—1, I TThS	Lect III MWF	Lect II T	—1, Lect I T
—2, II MWF	—1, Lab V-VI M	—1, Lab III-IV T	—2, Lect II Th
—3, IV TThS	—2, Lab V-VI W	—2, Lab III-IV Th	—1, Lab III-IV T
		Lect II Th	—2, Lab III-IV Th
		—3, Lab VI-VII T	—3, Lab VI-VII T
		—4, Lab VI-VII Th	—4, Lab VI-VII Th

Missing Information—When hours and days or the place of meeting are missing, consult the instructor or department offering the course.

Changes—Changes made subsequent to publication of the *Class Schedule* are published in the Official Daily Bulletin, which appears in the *Minnesota Daily*. Room changes are posted on classroom doors.

REGISTRATION INSTRUCTIONS

Accurate registration is your personal responsibility. You will receive credit in only those courses for which you are properly registered. Likewise, you will be held responsible for every course for which you register unless you officially cancel it on a regular cancellation form available at your college office. Registration is not complete or official until fees are paid; student status is withdrawn when fees are delinquent even though you have filed a study program.

Colleges of the University reserve the right to cancel courses in which enrollment is not sufficient to warrant giving the course, or to depart from this schedule.

Do not register from the *Class Schedule* alone. Your college bulletin contains full course descriptions, college rules and requirements, and other information necessary for sound program planning.

All new students, both undergraduate and graduate, must obtain a student identification card before a statement of fees will be issued. Undergraduate students will obtain their I.D. cards either during orientation or by presenting their registration permit or I.D. card authorization to the I.D. office in Room B-35 Johnston Hall. I.D. pictures for all students are taken in B-35 Johnston Hall.

Step 1—Have your program approved by your college office. Follow the instructions given you by your college. Registration dates for each college are listed on the back cover.

Step 2—Get class reservation cards for courses reserved in the college offices. Courses which are reserved in college offices are listed on page 120.

Step 3—New students who do not already have a Health Service Clearance Slip go to the University Health Service to make proper arrangements. Required of all undergraduate students taking 6 credits or more and of all graduate students except "teachers in service" taking less than 6 credits.

Step 4—Present "I.D." card and turn in registration permit, class reservation cards, and approved registration blank at your record window in the Office of Admissions and Records to obtain statement of fees. New students, in addition, must present Health Service Clearance slip (if required) and turn in University Relations mailing slips, Dean of Students information card, and (optional)religious census card.

Step 5—Pay your fees to the bursar.

Every fee statement must be receipted, even when no payment is required, before you are considered officially registered.

Fees for students in residence fall quarter in undergraduate colleges are due December 27.

Fees for new students in undergraduate colleges are due December 30.

Fees for students in the Graduate School are due January 6.

The fee for late payment is $3 through the first week of classes, $5 during the second week, and $10, thereafter. Winter quarter classes begin on January 3.

Change of registration—Obtain a "cancel-add" form and approval at your college office, get necessary class reservation cards for courses you are adding as in step 2 above, and present to your college window in the Office of Admissions and Records. You will receive a supplementary fee statement or fee refund statement as necessary.

Withdrawal from the University—Notify your college and the Office of Admissions and Records of your intention to withdraw from the University. All University property such as library books, military, athletic or band equipment, laboratory material, locker keys or locks, athletic tickets, etc., must be turned in before you leave. P.L. 815 and 894 veterans must also notify 105 Morrill Hall.

Accounts Paid by Various Agencies

If you have authorization for the University to bill a donor for your tuition and fees you must have your fee statement approved at window 18 in Morrill Hall (or room 220 Coffey Hall, St. Paul Campus) and *receipted by the bursar or cashier.* Failure to have your fee statement receipted before the last date for payment will necessitate a "late fee."

Veterans and War Orphans

Ch. 34 (new GI Bill) Veterans and P. L. 634 (Ch. 35 trainees)—You must register and pay fees like every other student. Your business with the Veterans Administration is separate, and you are to attend to it on your own responsibility. The University assists you by certifying as required. You initiate this certification at window 18 on the first floor of Morrill Hall (or room 220 Coffey Hall, St. Paul Campus).

Do the following:

Make application to the Veterans Administration for benefits on or before your first day of class. You don't get paid unless you do apply; you obtain a certification of eligibility from the Veterans Administration. Present the certificate and your receipted fee statement *in person* at one of the above addresses.

If you are returning for another session, your previous training period under the law having been officially interrupted, you may have to make out a re-entrance form to notify the Veterans Administration that you wish to resume training status. Do this at one of the above addresses.

P. L. 815 and 894 Veterans—Have your fee statement approved at window 18, Morrill Hall (or room 220 Coffey Hall, St. Paul Campus), and then receipted by the bursar. Bring the receipted statement and your course list to room 105 Morrill Hall to obtain an order for books and supplies.

Additional information concerning University attendance under the above designated laws may be obtained at room 105 Morrill Hall, or in the Official Daily Bulletin.

Selective Service Certification

The University endeavors to be helpful to its students who ask deferment by their Selective Service boards for full-time study while making satisfactory progress toward a given degree objective. Authorization for reports on attendance, assistance in making out forms, counsel on solving problems with Selective Service, or information on how Selective Service may apply

to you as a student can be arranged through the National Services Advisor, room 105 Morrill Hall, Minneapolis Campus (or room 220 Coffey Hall for students whose college is at St. Paul). See under *Registration Instructions* and note that a student who has not paid fees by the time official class lists are prepared will be considered as not a student at the University of Minnesota.

Tuition Rates for Staff Members and Military Personnel

All academic appointees giving 25 per cent or more of full time service and all 75 per cent time or more civil service appointees, when enrolled in the Graduate School, will pay tuition at the Graduate School resident rate, regardless of source of fund, resident status, or curriculum pursued. Similar staff members when enrolled in the final year of a Master's degree curriculum in an undergraduate college will pay tuition at the respective college resident rate. If you are a nonresident, entitled to resident fee privileges under these regulations, tell the fee statement clerk that you are a staff member when you turn in your approved registration blank at your college window in the Office of Admissions and Records, Morrill Hall.

Any full-time faculty members with rank of instructor or above, University civil service personnel eligible for faculty group insurance, certain accredited foreign diplomatic officials, and their immediate families may pay resident fees in all colleges. Similar provision, 1 year after their arrival, is made for military personnel on duty in Minnesota for other than college attendance. Full-time faculty under contract in accredited Minnesota colleges (not their families) have the same privilege as provided for new University faculty. Persons for whom these provisions are meaningful should contact the Recorder's Office, 120 Morrill Hall, to make appropriate arrangements.

If You Are Graduating This Year

For the March Commencement, you must file a form called "Application for Degree" at the appropriate window in the Office of Admissions and Records (or room 220 Coffey Hall, St. Paul Campus), preferably with your fall quarter registration material. You should check with your college office regarding the last date for applications. A graduation fee of $10 is due February 13 for winter quarter graduation.

If you expect to graduate anytime within the year (through August 1967), file your formal Application for Degree now. Shortly thereafter you will receive a balance sheet which shows whatever requirements for the degree you still must complete.

Foreign Students

Your first action on arriving at the University should be to show your passport at the Foreign Student Adviser's Office, 717 East River Road. There you will be given full information about federal, state, and local regulations, and about housing, finance, health and personal problems. Following this, you register in the same manner as all other students.

COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS

Courses offered on the St. Paul Campus by Minneapolis Campus Departments:

Acct 25	Geo 1, 2
Anth 2A	Geog 1
BioC (MdBc) 102	Math Z, T, 10
Biol 1, 1A, 2, 2A, 2H (CCTV)	Mus 44S
Econ 65	Phys 1
Educ 55B	Psy 2
GeCh 4, 5	Soc 1A, 14A

For additional information, see the course listing under the appropriate department.

AGRICULTURAL ECONOMICS (AgEc)

1 Prin of Economics I (3 cr)
—1, III MWF, GorC 10, Peterson
—2, VI MWF, DI 15, Peterson

2 Prin of Economics II (3 cr; prereq 1)
—1, II MWF, GorC 10, Helmberger
—2, IV MWF, DI 15, Helmberger

25 Prin of Accounting (4 cr; prereq soph, regis AFHE)
Lect VII MWF, HH 210, R Dahl
—1, Lab VIII-IX M, HH 210, R Dahl
—2, Lab VIII-IX W, HH 210, R Dahl

40 Prin of Marketing Organization (3 cr; prereq soph, 2)
II MWF, HH 100, D Dahl

99 Special Probs (1-3 cr, total 6 cr; prereq AgEc or Ag BA maj or min, ‡)

101 Statistical Methods for Social Sciences (4 cr; prereq Biom 100)
Lect VI MWF, HH 210, Bryant
Lab I-II T, HH 2, Bryant

126 Economics of Consumption (3 cr; prereq 2 or ‡)
III-IV TTh, HH 100, Burk

127 Economics of Food Consumption, Distribution (3 cr; prereq 2 or ‡)
VII-VIII TTh, AgEng 108, Burk

141 Dairy Marketing (3 cr; prereq 40)
II MWF, HH 210, Koller

143 Livestock, Poultry Marketing (3 cr; prereq 40)
IV MWF, HH 210, D Dahl

170 Land Economics (3 cr; prereq 110 or ‡)
VII MWF, HH 100

183 Adv Farm Planning (3 cr; prereq ‡)
9:45-11:00 TTh, DI 118, Engene

201 Seminar (ar cr)

226 Seminar: Farm Mgt (3 cr)
3:45-5:00 TTh, DI 118, Engene

235 Methods of Price Analysis (3 cr; prereq 101, 131 or ‡)
3:45-5:00 TTh, HH 210, Bryant

240 Seminar: Law, Agricultural Marketing (3 cr; prereq law or grad student)
D Dahl

278 Seminar: Agricultural, Economic Development (3 cr; prereq 172 or Econ 103)
Mosher, Ruttan

AGRICULTURAL ENGINEERING

Mechanized Agriculture (MeAg)

1 Slide Rule Computation (1 cr; prereq Math 10 or ‡)
IV T, AgEng 108, Machmeier

3 Technical Drawing (3 cr)
—1, II-IV TTh, AgEng 103
—2, VI-VIII TTh, AgEng 103

4 Agricultural Shop—Metalwork (4 cr; prereq GeCh 4 or ‡)
Lect I TTh, AgEng 35, Bear
Lab II-IV TTh, AgEng 20, Bear

7 Farm Building Construction (3 cr; prereq 23)
Lect VI TTh, AgEng 41, Pomroy
—1, Lab VII-IX T, AgEng 48, Pomroy
—2, Lab VII-IX Th, AgEng 48, Pomroy

45 Engines, Tractors (3 cr; prereq 23)
Lect VI MW, AgEng 109, Solstad
Dem VI F, AgEng 37, Solstad

45A Engines, Tractors Lab (1 cr; prereq 45 or ¶)
VIII-X M, AgEng 37, Solstad

55 Electricity (2 cr; prereq 23)
III TTh, AgEng 105

114 Probs: Farm Buildings (2-4 cr; prereq 3, 7, 14) Pomroy

115 Drainage, Irrigation (3 cr; prereq 84)
IV MWF, AgEng 16, Allred

130 **Instructional Methods in Farm Mechanics** (3 cr; prereq 10 cr MeAg, AgEd 91 or ¶)
Lect VI-VII MWF, AgEng 35, Bear
—1, Lab VIII-IX MW, AgEng 20, Bear
—2, Lab VIII-IX TTh, AgEng 20, Bear

AGRONOMY AND PLANT GENETICS (Agro)

1 **Introduction** (4 cr)
Lect IV MWF, Agr 202, Smith
—1, Lab III-IV T, Agr 104, Smith
—2, Lab VI-VII T, Agr 104, Smith
—3, Lab III-IV Th, Agr 104, Smith

21 **Grain, Oilseed Crops** (4 cr, §121; prereq 1 or ‡)
Lect VI MWF, Agr 202, Robinson
—1, Lab VII MF, Agr 104, Robinson
—2, Lab VII-VIII W, Agr 104, Robinson

77 Literature (1 cr; prereq sr, 9 cr)
IX W, Agr 408

121 **Grain, Oilseed Crops** (4 cr, §21; prereq 1 or ‡)
Lect VI MWF, Agr 202, Robinson
—1, Lab VII MF, Agr 104, Robinson
—2, Lab VII-VIII W, Agr 104, Robinson

132 Intro to Plant Breeding (3 cr; prereq Gen 66)
VI MWF, GorC 12

201 Research: Farm Crops (ar cr; prereq 121, 127)

202 Seminar: Farm Crops (1 cr; prereq 9 cr farm crops)
IX W, Agr 408

233 Prins of Plant Breeding I (3 cr; prereq 132, Gen 141)
II MWF, Agr 202, Rasmusson

241 Research: Plant Genetics (ar cr)

242 Seminar: Plant Breeding (1 cr)
IX F, Agr 408

248 Applied Statistics (3 cr; prereq Biom 100 or PubH 110)
V MWF, Agr 408, Thomas

251 Probs: Application of Statistics (ar cr; prereq Biom 100) Thomas

252 **Cytogenetics** (4 cr; prereq Gen 140, Bot 118 or ‡)
Lect I MWF, Agr 408, Burnham
—1, Lab ar
—2, Lab ar

ANIMAL HUSBANDRY (AnHu)

1 Introduction (4 cr)
II MTWThF, PetH 110, Goodrich

21 **Meat Animal Evaluation** (3 cr)
—1, III-IV TTh, LsPav 100, Meiske
—2, VI-VII TTh, LsPav 100, Meiske

30 Meat Selection, Utilization (3 cr; prereq soph)
VI MWF, MSh 102, Forrest

37 Livestock Feeding II (3 cr; prereq 36)
III MWF, PetH 110, Meade

37A **Livestock Feeding II Lab** (1 cr; prereq 37 or ¶)
—1, VIII-IX T, LsPav 203, Meade
—2, VIII-IX Th, LsPav 203, Meade

52 Animal Breeding I (3 cr; prereq Agro 30)
IV MWF, PetH 110, Rempel

53 Adv Meats (3 cr; prereq 31)
VIII-IX TTh, MSh 102, Forrest

61 Current Topics (1 cr; prereq sr)
IX W, PetH 108, Meiske

64 Sheep Production (3 cr, §164; prereq 37, 52 or ‡)
VI-VIII TTh, PetH 108, Jordan

164 Sheep Production (3 cr, §64; prereq 37, 52 or ‡)
VI-VII TTh, PetH 108, Jordan

209 Seminar: Animal Husbandry (1 cr)
IX M, PetH 108, Hanson

211 Experimental Methods (3 cr; prereq Biom 181)
IV MWF, PetH 108, Goodrich

213 Research: Animal Husbandry (3-9 cr)

222 Energy in Animal Husbandry (3 cr; prereq 37, BioC 6 or ‡...BioC 216 rec)
VI MWF, PetH 108, Donker

DAIRY HUSBANDRY (DyHu)

1 Elements of Dairying (3 cr, §FScI 10)
III MWF, DI 15, Morris, Williams

49 **Reproduction, Artificial Insemination** (3 cr)
VI-VIII TTh, HH 9, Graham

120 Feeding, Mgt (3 cr; prereq vet med student or ‡)
VIII-IX MF, VetC 125, Williams

122 Principles for Genetic Improvement of Dairy Cattle (4 cr; prereq Gen 66)
VI-VII TTh, HH 210, Young

124 Dairy Cattle Nutrition (3 cr; prereq AnHu 36, 36A)
II MWF, HH 9, Otterby

199 Special Probs (1-3 cr; prereq ‡)

202 Research: Dairy Production (ar cr)

216 Seminar (1 cr) Cole

222 Energy in Animal Nutrition (3 cr; prereq BioC 52 or ‡...BioC 143 rec)
VI MWF, PetH 108, Donker

ENTOMOLOGY, FISHERIES, AND WILDLIFE (ENT)

56 **Forest Entomology** (4 cr; prereq Biol 2)
Lect VIII MWF, DI 15, Kulman
—1, Lab VI-VII WF, CofH 302
—2, Lab IX-X WF, CofH 302

64 Wildlife Populations (2 cr; prereq jr, Biol 2, 80 or For 54)
I MW, HH 100, Tester

65 Fishery Populations (2 cr; prereq 64, Biol 2, 80)
I TTh, HH 100, Smith

66 Intro to Fish, Wildlife Mgmt (3 cr; prereq 64, 65)
II TThS, CofH 307, Marshall, Smith

77 **Mammalogy** (4 cr; prereq Zool 53)
Lect II MWF, LsPav 203, Beer
—1, Lab I-II TTh, LsPav 203
—2, Lab III-IV TTh, LsPav 203
—3, Lab VI-VII TTh, LsPav 203

104 Basic Entomology or Fishery Biology or Wildlife Biology (ar cr; prereq △)

118 Experimental Ecology (3 cr; prereq 9 cr biol, 3 cr animal or plant ecology, ♯)
VI T, VI-VII Th, CofH 307, Chiang

126 **Embryology, Development of Insects** (5 cr, §Zool 126; prereq 125, OrCh 42 or 62, ♯)
Lect VI MWF, CofH 11, Brooks
Lab VII-VIII MWF, CofH 11

141 Insects in Relation to Plant Diseases (3 cr, §PlPa 141; prereq 5 cr plpa, ent or ♯)
I-II TThS, CofH 302, Peterson, Wilcoxson

180 Sr Seminar: Fisheries, Wildlife (1 cr; prereq sr) Smith, Waters

194 Adv Work in Entomology or Fishery Biology or Wildlife Biology (ar cr; prereq ♯)

200 Seminar (1 cr)

201 Experimental Ecology Lab (2 cr; prereq 118 or ¶)
VII-IX T, VIII-X Th, CofH 15, Chiang

241 Research (ar cr)

265 Research: Fishery Biology (ar cr) Smith, Waters

273 Wildlife Mgt: Fur Bearers (3 cr; prereq 65, 77, Zool 116, Bot 50 or ♯)
I TTh, CofH 301, Beer

278 Research: Wildlife Biology (ar cr) Beer, Marshall, Tester

FOOD SCIENCE AND INDUSTRIES (FScI)

50 Dairy, Food Microbiology (3 or 5 cr; prereq soph, MicB 53, lect only ♯)
Lect VI MWF, DI 255, Olson
Lab VII-VIII MWF, DI 218, Olson

52 Food Physics, Process Engineering (5 cr; prereq Phys 2 or 5)
Lect IV MWF, DI 118
Lab VI-VIII TTh, DI 10

100 Seminar: Food Industries Literature (2 cr; prereq sr, 3 courses FScI)
V TTh, DI 122, Jezeski

105 Sensory Testing of Foods: Theory, Methodology (2 cr; prereq 51)
Lect I Th, DI 255, Thomas
Lab II-IV Th, DI 95, Thomas

110 Sanitation Microbiology (3 cr; prereq sr, BioC 2, 2 courses micb or ♯)
III MWF, DI 118, Jezeski

150 Dairy, Food Microbiology (3 or 5 cr; prereq grad or ♯, MicB 53)
Lect VI MWF, DI 255, Olson
Lab VII-VIII MWF, DI 218, Olson

152 Food Physics, Process Engineering (5 cr; prereq grad, ♯)
Lect IV MWF, DI 118
Lab VI-VIII TTh, DI 10

170 Special Probs: Food Manufacturing (1-3 cr; prereq sr or ♯) Coulter, Morris, Thomas

180 Special Probs: Dairy, Food Microbiology (1-3 cr; prereq sr or ♯) Jezeski, Olson

205 General Seminar (1 cr)

FORESTRY (For)

11 Conservation of Natural Resources (3 cr)
III MWF, GH 120, Reidel

51 Logging (2 cr)
II TTh, GH 211, Hallgren

79 Strength of Wood Materials (4 cr; prereq 74, Math 10)
Lect I MWF, FP 25, Haygreen
Lab II-IV T, FP 26

81 Wood Drying (3 cr; prereq 74)
Lect I TTh, FP 25, Erickson
Lab VIII-IX T, IX F, FP 26

85 Glued Wood Products (3 cr, §57; prereq 74)
Lect VII TTh, FP 25, Erickson
Lab VIII-IX Th, FP 26

88 Building Materials Estimating (3 cr; prereq 78, MeAg 7, Ind 9)
Lect VIII MW, FP 26, Thompson, lab ar

100 Forest Fire (2 cr; prereq 49, 53)
IV TTh, GH 120, Irving

109 **Forest Aerial Photogrammetry** (3 cr; prereq 52 or ‡)
—1, I-III TTh, GH 206, Meyer
—2, VI-VIII TTh, GH 206

111 **Statistical Methods** (4 cr; prereq 52, ¶109, Math 10 or ‡)
Lect II MWF, GH 211, John
—1, Lab VI-VIII M, GH 202
—2, Lab VI-VIII T, GH 202

123 Forest Economics (5 cr; prereq 77, 122 or ‡)
IV MTWThF, GH 211, Hughes

131 Forest Policy (3 cr; prereq sr) Irving, Skok

145 Adv Silviculture (3 cr; prereq sr, 129 or ‡) Hansen

148 Forest Hydrology (2 cr; prereq 54, 53 or ‡ for nonforestry maj, Soil 18, Geo 1 or ‡)
III TTh, GH 211

150 Forest Genetics (3 cr; prereq Gen 66 or 101 or ‡) Pauley

152 Forest-Tree Physiology (3 cr; prereq Biol 2, MeAg 25, BioC 1A or OrCh 42)
III MWF, GH 211, Sucoff

154 Adv Forest Hydrology (3 cr; prereq 148 or ‡)

157 Recreational Land Policy (3 cr; prereq 143 or ‡) Frissell, Merriam

175 Wood Pulp, Paper (3 cr; prereq 74, organ chem)
II MWF, FP 25, Gertjejansen

181 Moisture Relations in Wood (3 cr; prereq 81, 177) Hossfeld

185 Adhesion in Manufactured Wood Products (3 cr; prereq 86, 177) Hossfeld

187 Adv Building Materials Merchandising (3 cr; prereq 87, Mktg 197) Thompson

195 Adv Wood Pulp, Paper (2 cr; prereq 175, AnCh 57)
VI-VIII MW, FP 30, Gertjejansen

198 Senior Topics (ar cr)

199 **Seminar** (1 cr; prereq sr)
—1, VIII-IX M, GH 14, Kaufert, Winsness
—2, VIII-IX T, GH 14

200 Research Probs: Silviculture (ar cr) Bakuzis, B Brown, Hansen

203 Research Probs: Forest Mgt (ar cr) Hughes, Irving, Meyer, Winsness

205 Research Probs: Forest Economics (ar cr) Hughes, Skok

207 Research Probs: Forest Products Engineering (ar cr) Haygreen, Hossfeld, Kaufert

213 Research Probs: Forest Utilization (ar cr) Haygreen, Hossfeld, Kaufert

215 Research Probs: Forest-Tree Physiology (ar cr) Sucoff

218 Research Probs: Forest Measurements, Photogrammetry (ar cr) John, Meyer

219 Research Probs: Forest Recreation (ar cr) Hansen, Hughes, Merriam, Skok

220 Probs: Forest-Tree Genetics (ar cr) Pauley

221 Probs: Forest Influence (ar cr) Sucoff

222 Probs: Forest Policy (ar cr) Hughes, Irving, Skok, Winsness

224A Seminar: Forest Biology (1 cr)
VIII-IX Th, GH 14, Sucoff

224B Seminar: Forest Mgt (1 cr)
VIII-IX Th, GH 14, Meyer

224C Seminar: Forest Products (1 cr)
VIII-IX Th, GH 14, Haygreen

HOME ECONOMICS (HE)

1 Clothing Selection (3 cr, §GC 3C, no seniors)
III MWF, McNH 227, Williams

3 **Clothing Construction I** (3 cr; prereq 1)
—1, II-IV TTh, McNH 327, Williams
—2, II-IV TTh, McNH 328

4 **Clothing Construction II** (3 cr; prereq soph, 3)
III-IV MWF, McNH 328, Mahannah

5 **Contemporary Society** (3 cr)
Lect II TTh, McNH 227, Gallagher
—1, Lab III T, McNH 227
—2, Lab IV T, McNH 227
—3, Lab III Th, McNH 227
—4, Lab IV Th, McNH 227
—5, Lab II W, McNH 303
—6, Lab II F, McNH 303

19 **Visual Presentation** (3 cr)
—1, I-II MWF, McNH 359, Forsyth
—2, II-IV TTh, McNH 359, Shank

20 **Related Art** (3 cr)
—1, I MWF, McNH 350, Myren
—2, II MWF, McNH 350, Myren

21 **Color** (3 cr)
—1, III-IV MWF, McNH 433, Abell
—2, II-IV TTh, McNH 342, Nagle
—3, VI-VIII TTh, McNH 359
—4, III-IV MWF, McNH 342, Shank

23 **Design I** (3 cr; prereq 21)
VI-VII MWF, McNH 433, Abell

24A **Home Planning, Furnishings I** (3 cr; prereq soph)
IV MWF, McNH 350, Nagle

24B **Home Planning, Furnishings Experiences I** (3 cr; prereq 21, 24A or ‡)
—1, II-IV TTh, McNH 360, 425
—2, VI-VII TTh, McNH 360, 425, Franklin

28 Construction, Refinishing of Home Furnishings (3 cr; prereq ♯)
II-IV TTh, McNH 433, Myren

40 Food Preparation (5 cr; prereq 3rd qtr fr, 2 qtrs chem)
—1, Lect IV TTh, McNH 48
Lab III-IV MWF, McNH 157, Asp
—2, Lect VII TTh, McNH 48
Lab VI-VII MWF, McNH 157, Knuth

41 Food Mgt, Marketing (5 cr; prereq soph, 31, 40)
—1, Lect III TW, McNH 150, Trammell
Lab III-IV M, III-V Th, McNH 150, 152, 156
Conf IV T, McNH 150
—2, Lect VI WTh, McNH 150, Lund
Lab VI-VII M, VI-VIII T, McNH 150, 152, 156
Conf VII Th, McNH 150

49 Household Equipment (3 cr; prereq soph, Phys 1 or ♯)
Lect VII-VIII T, McNH 128, Ehrenkranz
Lab VII-VIII Th, McNH 128

50 Textiles (4 cr; prereq 3rd qtr soph, GeCh 5 or NSci 2 or ♯)
—1, III-IV MWF, McNH 303, Franzen
—2, II-IV TTh, McNH 303, Franzen

54A Fashion Merchandising I (3 cr; prereq Mktg 107, ♯)
VIII MWF, McNH 303, Grindereng

63 Quantity Food Purchasing, Production (5 cr; prereq 41, 3rd qtr soph)
I-V TTh, DinC 154, Verstraete

69 Administrative Food Service Experience (5 cr; prereq 67) Verstraete

73 Experimental Foods (3 cr; prereq 40, BioC 1A)
Lect VI TTh, McNH 48, Trammell
Lab VII-VIII TTh, McNH 56

85 Home Mgt Principles (3 cr; prereq 40, AgEc 2...41 rec)
VII MWF, McNH 201, Jeary

86 Home Mgt Lab (4 cr; prereq 85 or ¶...41 rec)
—1, I MTWThFS, Home Mgt House, Jeary
—2, I MTWThFS, Home Mgt House

87 Family Relationships (3 cr; prereq Psy 2, Soc 1 or 1A)
2:15-3:30 pm TTh, McNH 201, Tester

100 Homes of the World (3 cr; prereq 24 or 29)
6:00-9:00 pm TTh, McNH 350, Esteros

107 Textile Analysis (3 cr; prereq 50, BioC 1A or OrCh 42, InCh 11, AnCh 57)
I-III TTh, McNH 304, Davison

115 Sociological, Economic Aspects of Clothing (3 cr; prereq 50, AgEc 2 or Econ 2, Soc 1 or 1A, Psy 2 or ♯)
VI MWF, McNH 303, Grindereng

118A History of Decorative Arts I (3 cr; prereq 120)
V MWF, McNH 359, Forsyth

120 Art History (3 cr)
VIII MWF, McNH 350, Forsyth

123B History of Home Interiors, Furnishings II (3 cr; prereq 120)
VIII MWF, McNH 342, Ludwig

125 Adv Costume Design (3 cr; prereq 3, 22 or ♯)
6:00-9:00 pm TTh, McNH 342, Amir-Fazli

126A Probs: Related Art (3 cr; prereq cons div chrm)

141 Current Literature in Foods (3 cr; prereq sr, 40)
8:45-9:55 TTh, McNH 350, Lund

142 Experimental Cookery (3 cr; prereq 73, BioC 1A)
Lect VI MW, McNH 48, Maruyama
Lab VII-VIII MW, McNH 56

154 Pattern Design, Alteration (3 cr; prereq 4, 22 or ♯)
VI-VIII TTh, McNH 327, Williams

171 Maternal, Child Nutrition (3 cr; prereq 170, HEEd 90)
III MWF, McNH 48, Morse

174 Topics: Nutrition (1 cr; prereq 170)
—1, V W, McNH 48, Morse
—2, V W, McNH 239, Doyle

178 Clinical Probs in Nutrition (2-4 cr; prereq 35 or ¶, 170)
—1, Lab VI-VIII T, U Hosp (Mpls Campus) 1 hr ar, Ross
—2, Lab VI-VIII Th, U Hosp (Mpls Campus) 1 hr ar, Ross

179 Readings: Nutrition (2 cr; prereq 170) Sirny

180 Adv Home Planning, Furnishing II (3 cr; prereq 24B, 50)
VI-VII MWF, McNH 360, Nagle

182 Parent in American Society (3 cr; prereq 87)
4:15-5:30 pm TTh, McNH 201, Tallman

183 The Family in World Perspective (3 cr; prereq HEEd 90 or ♯)
VI-VII TTh, McNH 303

189B Construction, Use Characteristics of Household Appliances (3 cr; prereq 49)
II-IV TTh, McNH 124, Ehrenkranz

197 Applications of Art Theory (3 cr; prereq 120)
VIII TTh, McNH 342, Esteros

209 Seminar: Textiles, Clothing (1 cr; prereq ‡)
X W, McNH 323, Davison
220 Readings in Related Art (1-3 cr; prereq ‡, no seniors) Forsyth
227 Probs: Home Planning, Furnishing (1-3 cr; prereq 180 or ‡...122B rec) Esteros, Ludwig
247 Probs: Food (3 cr; prereq 142, BioC 1, ‡) Noble
249 Seminar: Foods (1 or 2 cr; prereq ‡) Noble
271 Human Nutrition (3 cr; prereq 270) Doyle
272 Human Metabolic Studies in Health, Disease (4 cr; prereq 173, ‡)
273 Adv Diet Therapy (4 cr; prereq 173 or ‡)
279 Seminar: Nutrition (1 cr; prereq ‡)
IX W, McNH 201, Sirny
289 Seminar: Household Equipment (2 cr; prereq 6 cr in 189) Ehrenkranz
295 Probs: Home Economics (1-5 cr; prereq ‡) Brown, Burk, Davison, Doyle, Ehrenkranz, Ford, Morse, Noble, Sirny, Swan, Tallman
296 Probs: Home Economics (1-5 cr; prereq 295) Brown, Burk, Davison, Doyle, Ehrenkranz, Ford, Morse, Noble, Sirny, Swan, Tallman

HORTICULTURAL SCIENCE (Hort)

6 Fruit Growing (3 cr; prereq Biol 2 or 3 cr bot)
III MWF, Hr 102, Andersen
25 History of Landscape Design III (3 cr)
III-IV TTh, Hr 302, Hard
36 Plant Propagation (3 cr; prereq Biol 2 or 6 cr bot)
Lect IV TTh, Hr 8, Pellett
Lab VI-VIII Th
53 Ornamentals For Interior Decorations (3 cr; prereq 16)
Lect III, VI W, Hr 8, Widmer
Lab VII-VIII W
62 Probs: Landscape Design, Composition (2-4 cr; prereq sr, 61 or ‡) Phillips
63 Prins of Landscape Design II (3 cr; prereq 24, 60)
VII-IX TTh, Hr 302
77 Floral Design (3 cr)
99 Seminar (1 cr; prereq jr)
IX Th, Hr 8, Snyder
104 Frozen Food Processing, Storage (3 cr; prereq BioC 5 or 6 or 10, MicB 53 or ‡)
IV MWF, Hr 102, Munson
105 Frozen Food Problems (2-4 cr; prereq 104 or ‡) Munson
113 Adv Landscape Design (5 cr; prereq 63)
VII-IX MWF, Hr 302
137 Adv Plant Propagation (3 cr, §36; prereq Bot 51 or BioC 105)
Lect IV TTh, Hr 8, Weiser
Lab VI-VIII Th
138 Light, Temperature Requirements of Horticultural Plants (3 cr; prereq 15 cr plant sci incl 3 cr plant physiol)
VII MWF, Hr 106, Nylund
144 Professional Practices (2 cr; prereq sr landscape design)
VI MW, Hr 106
191 Special Probs (2-4 cr; prereq 190) Snyder, others
221 Breeding of Sexually Propagated Horticultural Crops (3 cr; prereq Agro 132)
I MWF, Hr 8, Davis
222 Breeding Asexually Propagated Crops (3 cr; prereq 110) Lauer
241 Organization of Research (2 cr) Snyder, others
242 Seminar (1 cr; prereq 9 cr) Snyder, others
251 Adv Probs in Horticultural Crop Breeding (3-9 cr; prereq ‡)
252 Adv Probs in Physiology of Horticultural Crops (3-9 cr; prereq ‡)

INFORMATION AND AGRICULTURAL JOURNALISM (AgJo)

53 Publicity (3 cr; prereq rhet comm req)
8:15-9:30 TTh, AgEng 109, Swanson, others

PLANT PATHOLOGY AND PHYSIOLOGY (PlPa)

90 Research (ar cr; prereq 1, 51, 56 or ‡) French, Wilcoxson
91 Research Probs (ar cr; prereq 21 or ‡) Sudia
106 Mycology (3 cr; prereq 1 or 51 or 105)
Lect VI TTh, PP 103, Anderson
Lab VII-VIII TTh, PP 105, Anderson
109 Physiology, Biochemistry of Fungi (3 cr; prereq BioC 51 or ‡)
Lect VI MWF, PP 103, Mirocha
Lab VII-IX MWF
141 Insects in Relation to Plant Diseases (3 cr, §Ent 141; prereq 5 cr plpa, 5 cr ent or ‡)

183 Plant Physiology (3 cr; prereq Biol 2 or 51, OrCh 42 or 62, physics)
II MWF, AgBot 107, Stadelmann, Sudia
186 Measurement of Plant-Environment Interactions (1-4 cr; prereq PCh 90, ‡) Sucoff
191 Biological Concepts I-II (4 cr; prereq 190)
IV-V TTh, AgBot 107, 1 hr ar, Olson
192 Advances in Biology (1 cr, Biology Institute students only)
IX F, AgBot 107, Olson
201 Research: Nematology (ar cr; prereq 101 or ‡) Kernkamp, others
203 Research (ar cr) Kernkamp, others
207 Probs: Mycology (ar cr; prereq 105, 106, 107) Anderson, Christensen
213 Seminar (1 cr)
IX-X T, PP 401, Kernkamp, others
218 Prin: Plant Pathology (3 cr; prereq 1 or 51, 156, MicB 53, 6 addtl cr)
III MWF, PP 401, Eide
251 Seminar: Plant Physiology (1 cr)
IX Th, AgBot 107, Sudia
254 Research Probs: Plant Physiology (ar cr) Stadelmann, Sudia
280 Radioisotope Techniques Applied to Biology (3 cr; prereq course in nuclear physics)
VI-VIII TTh, AgBot 107, Caldwell, Linck
285 Photosynthesis (3 cr; prereq Bot 182) Frenkel

POULTRY SCIENCE (Poul)

1 Poultry Production (3 cr)
VI-VII TTh, PetH 110, Snetsinger
55 Problems (1-3 cr; prereq ‡)
102 Avian Genetics, Cytogenetics (3 cr; prereq Gen 66 or ‡)
I MWF, SnH 14, Shoffner
106 Comparative Vertebrate Physiology (3 cr; prereq 105, VPP 42 or ‡)
II MWF, PetH 108, Phillips
214 Research (ar cr; prereq ‡)
215 Research: Poultry Nutrition (ar cr; prereq 9 cr biochem) Snetsinger, Waibel
216 Research: Avian Genetics, Cytogenetics (ar cr; prereq 9 cr gen or ‡) Shoffner
217 Seminar (1 cr; prereq ‡)
218 Research: Poultry Products (ar cr; prereq ‡)
219 Research: Avian Physiology (ar cr; prereq ‡) Phillips
222 Energy in Animal Nutrition (3 cr; prereq AnHu 37, BioC 6 or ‡...BioC 116 rec)
VI MWF, PetH 108, Donker

RHETORIC (Rhet)

1 **Communication I** (3 cr)
Lect I M, PetH 108, Lair
—1, I WF, PetH 108, Lair
—2, I TTh, PetH 108, Lair
2 **Communication II** (3 cr; prereq 1)
Lect I M, McNH 48, Thurston, others
—1, I WF, McNH 48
—2, I TTh, McNH 48
Lect I M, McNH 201
—3, I WF, McNH 201
—4, I TTh, McNH 201
—5, I MWF, AgEng 307
—6, I MTTh, DI 118
—7, I MWF, PP 103
—8, I MTTh, Agro 202
—9, I MWF, DI 255
—10, I MWF, HH 210
Lect II M, PP 103
—11, II WF, PP 103
—12, II TTh, PP 103
Lect III M, AgEng 108
—13, III WF, AgEng 108
—14, III TTh, AgEng 108
Lect III M, AgEng 109
—15, III WF, AgEng 109
—16, III TTh, AgEng 109
Lect IV M, AgEng 109
—17, IV WF, AgEng 109
—18, IV TTh, AgEng 109
Lect V M, DI 118
—19, V WF, DI 118
—20, V TTh, DI 118
Lect VI M, DI 118
—21, VI WF, DI 118
—22, VI TTh, DI 118
Lect VII M, GorC 12
—23, VII WF, GorC 12
—24, VII TTh, GorC 12
3 **Communication III** (3 cr; prereq 1)
I MWF, McNH 44, R Brown
4 **Communication IV** (3 cr; prereq 1)
—1, I MWF, AgEng 315, J Brown
—2, III MWF, AgEng 315, Marchand
—3, 9:45-11:00 TTh, AgEng 315, Marchand
22 **Public Speaking** (3 cr; prereq rhet comm req)
—1, II MWF, AgEng 307, Felien
—2, II MWF, AgEng 315, Forston
—3, III MWF, HH 210, Nelson
—4, III MWF, McNH 44, R Brown
—5, IV MWF, AgEng 307, Nichols
—6, IV MWF, AgEng 315, R Brown
—7, V MWF, AgEng 307, Garvin
—8, VI MWF, AgEng 307, King
—9, VII MWF, AgEng 307, McBride

25 Parliamentary Procedure (1 cr)
IV TTh, AgEng 315, Miller

31 Intro to Literature (3 cr; prereq rhet comm req)
III MWF, AgBot 107, Savage

32 Novel, Short Story (3 cr; prereq rhet comm req)
—1, IV MWF, McNH 44, Horberg
—2, V MWF, AgEng 105, Savage

33 American Literature (3 cr; prereq rhet comm req)
9:45-11:00 TTh, AgEng 307, Savage

41 Humanities: Enlightenment (3 cr)
—1, III MWF, AgEng 307, J Brown
—2, V MWF, NorH 100, Marchand
—3, VI MWF, NorH 100, Price

42 Humanities: The Industrial Revolution (3 cr; prereq 41)
—1, I MWF, NorH 100, Drake
—2, II MWF, NorH 100, Marchand
—3, IV MWF, NorH 100, Drake
—4, 9:45-11:00 TTh, GorC 12
—5, III MWF, NorH 100, Drake

43 Humanities: Age of Darwin (3 cr; prereq 41)
8:15-9:30 TTh, NorH 100, Drake

47 Efficient Reading (3 cr; prereq rhet comm req; Arts students see Arts Bulletin)
—1, VI MWF, AgEng 315, J Brown
—2, VII MWF, AgEng 315, J Brown

51 Exposition (3 cr; prereq jr)
—1, IV MWF, AgEng 105, Wright
—2, V MWF, DI 255, Brock
—3, VI MWF, AgEng 105, Horberg
—4, VII MWF, DI 118, Savage
—5, 9:45-11:00 TTh, PetH 108, Lair

52 Technical Writing (3 cr; prereq 51)
III MWF, DI 255, Thurston

54 Adv Public Speaking (3 cr; prereq 22)
II MWF, DinC 154, Garvin

56 Discussion Methods (3 cr; prereq rhet comm req)
V MWF, AgEng 315, Geier

60 Contemporary Literature (3 cr; prereq rhet comm req)
II MWF, McNH 44, Rosendahl

62 Humanities: Religion in American Thought, Experience (3 cr)
9:45-11:00 TTh, NorH 100, Price

91 American Speech for Foreign Students (no cr)
IX MWF, AgEng 105, White

92 Communication Probs for Foreign Exchange Groups (3 cr; prereq elem knowledge of oral, written Engl)
IV MWF, DI 255, White

151 Report, Thesis Writing (3 cr; prereq 51 or ‡)
VIII M, VIII-IX W, AgEng 307, Thurston

SOIL SCIENCE (Soil)

19 Intro Soil Science (4 cr, §18; prereq ¶GeCh 5 or regis technical certificate prog)
Lect I MWF, So 115, Arneman, Martin
—1, Lab VII-IX W, So 115, 120
—2, Lab VII-IX Th, So 115, 120
—3, Lab VII-IX F, So 115, 120

51 Soil Mgt, Land Use (3 cr, §1; prereq 19 or regis technical certificate)
III MWF, So 115, Burson

52 Topics (1 cr; prereq 18 or 19)
VIII-IX F, So 215

54 Soil Fertility Evaluation (3 cr; prereq 18 or 19)
Lect IV TTh, So 115, Grava
—1, Lab VI-VIII M, So 120
—2, Lab VI-VIII T, So 120

119 Interm Soil Science (3 cr; prereq GeCh 5)
Lect I MWF, So 115, Arneman, Martin
—1, Lab VII-IX W, So 115, 120
—2, Lab VII-IX Th, So 115, 120
—3, Lab VII-IX F, So 115, 120

123 Fertilizers (3 cr; prereq 18 or 19 or 119 or ‡)
II MWF, So 115, MacGregor

128 Soil Chemistry (3 cr; prereq 18 or 19 or 119)
9:45-11:00 TTh, So 115

130 Problems (1-5 cr; prereq 18 or 19 or 119)

132 Soil Fertility (3 cr; prereq 18 or 19 or 119)
IV MWF, So 115, Caldwell

134 Organic Soils (3 cr; prereq 18 or 19 or 119)
8:15-9:30 TTh, So 115, Farnham

203 Seminar (1 cr)
IX T, So 215

214 Radioisotope Techniques Applied to Biology (3 cr; prereq nuclear phys)
1:30-4:30 TTh, So 4, 215, Caldwell

UNATTACHED COURSES

Biometrics (Biom)

100 Statistical Analysis I (4 cr; prereq 90, coll alg or grad)
11:15-12:30 TTh, GorC 10, 2 hr lab ar, Keenan

101 Statistical Analysis II (4 cr; prereq 100)
IV MWF, GorC 10, 2 hr lab ar, Keenan

Orientation (Orie)

1 **College Orientation Lectures** (1 cr)
—1, IV Th, CofH 307, Goodding
—2, Ar, Miller (for exchange students only)

COLLEGE OF BIOLOGICAL SCIENCES

BIOCHEMISTRY (BioC)

51 **Intro to Biochemistry** (4 cr; prereq OrCh 42 or 62)
Lect I MWF, McNH 227, Henderson
—1, II-IV T, SnH 102, 108, Warner
—2, VI-VIII F, SnH 102, 108, Warner

142 Gen Biochemistry (3 cr; prereq 141)
I MWF, C 325 (Mpls Campus), Kirkwood, Wold

146 **Gen Biochemistry Lab** (3 cr; prereq 145)
—1, VI-VIII MW, SnH 102, 108, Gander
—2, VI-VIII TTh, SnH 102, 108, Gander

151 **Intro to Biochemistry** (4 cr; prereq OrCh 42 or 62, ‡)
Lect I MWF, McNH 227, Henderson
—1, II-IV T, SnH 102, 108, Warner
—2, VI-VIII F, SnH 102, 108, Warner

220 Adv Protein Chemistry (2 cr; prereq 143 or MdBc 144)
I TTh, GorC 12, Briggs

BIOLOGY (Biol)

1 **Gen Biol** (5 cr, †1-2; prereq any maj requiring Biol 1-2 or soph (winter); open to all in spring)
—1, Lect II MWF, Arch 15, CCTV
—2, Lect II MWF, Arch 30, CCTV
—3, Lect II MWF, Arch 45, CCTV
—4, Lect II MWF, Arch 60, CCTV
—5, Lect II MWF, VH 306, CCTV
—6, Lect II MWF, VH 307, CCTV
—7, Lect II MWF, VH 309, CCTV
—8, Lect II MWF, AgEng 109 (StP Campus) CCTV
—9, Lect VIII MWF, AE 215, CCTV
—10, Lect VIII MWF, AE 321, CCTV
—11, Lect VIII MWF, AE 327, CCTV
—12, Lect VIII MWF, Arch 15, CCTV
—13, Lect VIII MWF, Arch 30, CCTV
—14, Lect VIII MWF, Arch 45, CCTV
—15, Lect VIII MWF, Arch 60, CCTV
—16, Lect VIII MWF, Bu 120, CCTV
—17, Lect VIII MWF, VH 303, CCTV
—18, Lect VIII MWF, VH 306, CCTV
—19, Lect VIII MWF, VH 307, CCTV
—20, Lect VIII MWF, VH 309, CCTV
—21, Lect VIII MWF, AgEng 108, 109, (StP Campus) CCTV
—1, Lab I-II TTh, Z 107
—2, Lab III-IV TTh, Z 107
—3, Lab VI-VII TTh, Z 107
—4, Lab VIII-IX TTh, Z 107
—5, Lab I-II WF, Z 107
—6, Lab III-IV WF, Z 107
—7, Lab VI-VII WF, Z 107
—8, Lab VIII-IX WF, Z 107
—9, Lab I-II TTh, AgEng 303B (StP Campus)
—10, Lab III-IV TTh, AgEng 303B (StP Campus)
—11, Lab VI-VII TTh, AgEng 303B (StP Campus)
—12, Lab VIII-IX TTh, AgEng 303B (StP Campus)
—13, Lab I-II WF, AgEng 303B (StP Campus)
—14, Lab III-IV WF, AgEng 303B (StP Campus)
—15, Lab VI-VII WF, AgEng 303B (StP Campus)
—16, Lab VIII-IX WF, AgEng 303B (StP Campus)

1A **Gen Biol** (3 cr, †1A-2A)
Register for Biol 1 lect and:
—1, Dem I-II M, Z 101A
—2, Dem III-IV M, Z 101A
—3, Dem V-VI M, Z 101A
—4, Dem VII-VIII M, Z 101A

2 **Gen Biol** (5 cr, †1-2; prereq 1)
—1, Lect I MWF, AE 211, Kerr, Olson, CCTV
—2, Lect I MWF, AE 215, CCTV

—3, Lect I MWF, AE 313, CCTV
—4, Lect I MWF, AE 317, CCTV
—5, Lect I MWF, AE 319, CCTV
—6, Lect I MWF, AE 321, CCTV
—7, Lect I MWF, AE 327, CCTV
—8, Lect I MWF, Arch 15, CCTV
—9, Lect I MWF, VH 306, CCTV
—10, Lect I MWF, VH 309, CCTV
—11, Lect I MWF, AgEng 108, 109 (StP Campus) CCTV
—12, Lect V MWF, AgEng 108, 109 (StP Campus) CCTV
—13, Lect IX MWF, AE 211, CCTV
—14, Lect IX MWF, AE 215, CCTV
—15, Lect IX MWF, AE 313, CCTV
—16, Lect IX MWF, AE 317, CCTV
—17, Lect IX MWF, AE 319, CCTV
—18, Lect IX MWF, AE 321, CCTV
—19, Lect IX MWF, AE 327, CCTV
—20, Lect IX MWF, Arch 15, CCTV
—21, Lect IX MWF, VH 306, CCTV
—22, Lect IX MWF, VH 309, CCTV
—23, Lect IX MWF, AgEng 108, 109 (StP Campus) CCTV
—1, Lab I-II TTh, Z 101B
—2, Lab III-IV TTh, Z 101B
—3, Lab VI-VII TTh, Z 101B
—4, Lab VIII-IX TTh, Z 101B
—5, Lab I-II WF, Z 101B
—6, Lab III-IV WF, Z 101B
—7, Lab VI-VII WF, Z 101B
—8, Lab VII-IX WF, Z 101B
—9, Lab I-II TTh, AgEng 303E (StP Campus)
—10, Lab III-IV TTh, AgEng 303E (StP Campus)
—11, Lab VI-VII TTh, AgEng 303E (StP Campus)
—12, Lab VIII-IX TTh, AgEng 303E (StP Campus)
—13, Lab I-II WF, AgEng 303E (StP Campus)
—14, Lab III-IV WF, AgEng 303E (StP Campus)
—15, Lab VI-VII WF, AgEng 303E (StP Campus)
—16, Lab VIII-IX WF, AgEng 303E (StP Campus)

2A Gen Biol (4 cr, †1A-2A; prereq 1A)
Register for Biol 2 lect and:
—1, Dem I-II, M, Z 101D
—2, Dem III-IV M, Z 101D
—3, Dem V-VI M, Z 101D
—4, Dem VII-VIII M, Z 101D

2H Honors Course: Gen Biology Lab (5 cr; prereq grade of B in 1)
Register for Biol 2 lect and:
Lab VIII-IX WF, Z 101C

51 Plant Biology (5 cr; prereq Biol 2 or 49, GeCh 6)
Lect VI MWF, HS W30, Brook
Lab VII-VIII MWF, Bo 3, 4

71 Laboratory: Genetics (2 cr; prereq 70 or Gen 66 or ¶)
—1, VII-VIII T, Z 16
—2, VII-VIII W, Z 16

80 Ecology (3 cr; prereq 15 cr biol sci)
II MWF, Bo B6, Underhill

81 Lab: Ecology (1 cr; prereq 80 or ¶)
Wright

110 Gen Physiology (3 cr; prereq 15 cr biol sci, OrCh 62, Phys 6 or 9)
II MWF, C 225, Rhea

111 Laboratory: Gen Physiology (2 cr; prereq 110 or ¶)
—1, VI-IX T, Z 18, VI Th, Z 323
—2, I-IV Th, Z 18, I T, Z 323
—3, VI-IX Th, Z 18, VI T, Z 323

BOTANY (Bot)

53 Plant Anatomy (5 cr; prereq Biol 2 or 51)
Lect III MWF, HS W30, Hall
—1, Lab I-II MW, Bo 3
—2, Lab IV-V MWF, Bo 3

98 Undergraduate Proseminar (1 cr; prereq maj biol sci, ♯)

99 Research Probs (1-5 cr; prereq maj biol sci, ♯)

101 Basic Botany (ar cr; prereq Biol 2, ♯)

121 Developmental Plant Anatomy (5 cr; prereq 2 or 51)
Lect III MWF, HS W30, Abbe
—1, Lab I-II MWF, Bo 5
—2, Lab IV-V MWF, Bo 5

131 Structure, Function of Ecosystems (5 cr; prereq Biol 80, 81, intro chem, phys or ♯)
II-IV F, BoG, Reiners

138 Freshwater, Wetland Ecology (5 cr; prereq 15 cr biol, intro chem or ♯...Biol 80 rec)
II MWF, HS W30, Gorham

165 Intro to Pollen Analysis (3 cr; prereq 10 cr bot or biol, ♯) Dahl

183 Plant Physiology (3 cr; prereq Biol 2 or 51, OrCh 42 or 62, phys)
II MWF, AgBot 107, Stadelmann, Sudia

185 Physiology of Photosynthetic Microorganisms (3-5 cr; prereq ♯) Frenkel

186 Measurement of Plant-environment Interactions (1-4 cr; prereq PCh 90, ♯) Sucoff

188 Research Perspectives in Plant Physiology (1-4 cr; prereq ‡) Behrens

280 Radioisotope Techniques Applied to Biology (3 cr; prereq nuclear phys)
VI-VIII TTh, AgBot 107, Linck, Rust

285 Photosynthesis (3 cr; prereq 182)
8:30-9:45 TTh, HS W30, Frenkel

297 Special Topics (ar cr; prereq ‡)

298 Seminar (1 cr)

299 Research Probs (ar cr)

GENETICS (Gen)

66 **Principles of Genetics** (3 cr; prereq Biol 2)
II-III TTh, GorC 10, Snyder

67 **Laboratory: Genetics** (2 cr, §Biol 71; prereq 66 or Biol 70 or ¶)
—1, VII-VIII T, Z 16, Hiatt
—2, VII-VIII W, Z 16, Hiatt

101 Basic Genetics (ar cr)

141 Interm Genetics II (3 cr; prereq 66, Biol 60)
III MWF, SnH 14, Enfield, Wade

171 **Genetics, Speciation** (3 cr, §Zool 171; prereq 66 or Biol 70, 71, or ¶, 15 cr biol sci)
VI MWF, Z 211 **(Mpls Campus)** Merrell

176 **Probs, Methods in Human Genetics** (3 cr, §Zool 176; prereq 175, PubH 110, ‡)
VII TTh, Z 323 **(Mpls Campus)** Anderson

246 Seminar (1 cr)
IV-V Th, Agro 408, Rempel

262 Population, Quantitative Genetics II (3 cr; prereq 260...Biom 181 rec)
VI-VII TTh, GorC 15, Comstock

297 Current Topics (ar cr)

298 Seminars (1 cr)

299 Research (ar cr)

ZOOLOGY

Biophysics (BPhy)

105 Review of Elem Physics for Medical Students (1 cr; prereq ‡) Loken

171 Radiation (3 cr; prereq ‡) Loken

204 Research: Biophysics, Radiation Biology (ar cr) Loken

218 Seminar: Radiobiology (1 cr; prereq ‡) Jacobson

Zoology (Zool)

53 **Comparative Anatomy** (5 cr; prereq soph, Biol 2 or 50)
Lect II MWF, Z 313 **(Mpls Campus)**, Huver
—1, Lab III-IV MWF, Z S3 **(Mpls Campus)**
—2, Lab VI-VIII WF, Z S3 **(Mpls Campus)**
—3, Lab VI-VIII TTh, Z S3 **(Mpls Campus)**

75 **Intro Ornithology** (3 cr; prereq Biol 2 or 50)
Lect VII TTh, MNH 307 **(Mpls Campus)** Warner
Lab VIII-IX TTh, MNH 307 **(Mpls Campus)**

77 **Mammalogy** (4 cr; prereq 53)
Lect II MWF, LsPav 203, Beer
—1, Lab I-II TTh, LsPav 203
—2, Lab III-IV TTh, LsPav 203
—3, Lab VI-VII TTh, LsPav 203

98 Senior Seminar (1 cr; prereq sr, biol sci maj, ‡)

99 Individual Work in Some Special Discipline (ar cr; prereq Biol 2 or 50, ‡)

101 Basic Zoology (ar cr; prereq maj consult adv, others △)

110 **Animal Behavior** (3 cr; prereq 91 or 92, ‡)
I T, I-II Th, Z 323 **(Mpls Campus)** McKinney

117 **Theoretical Biology** (3 cr; prereq ‡)
IV MWF, Z 323 **(Mpls Campus)**, Williams

118 Experimental Ecology (3 cr; prereq 9 cr biol, 3 cr ecology or ‡)
VI T, VI-VII Th, CofH 307, Chiang

126 **Embryology, Development of Insects** (5 cr, §Ent 126; prereq 125, OrCh 42 or 62, ‡)
Lect VI MWF, CofH 11, Brooks
Lab VII-VIII MWF, CofH 11

138 Seminar: Gen Physiology, Biophysics (ar cr) Schmitt

145 **Parasitic Protozoa** (3 cr, §Ent 145; prereq 15 cr incl Biol 2 or 50, ‡)
Lect VI TTh, Z 211 **(Mpls Campus)**, Wallace
Lab VII-VIII TTh, Z 208 **(Mpls Campus)**

156 Biophysics (3 cr; prereq 28 cr betw phys, biol, ‡...phys chem, physiol rec) Schmitt

164 Cytology (3 cr; prereq 51 or ‡)
8:15-9:30 TTh, Z 313 **(Mpls Campus)**, Luykx

166 **Cytology Lab** (2 cr; prereq ‡)
II-III TTh, Z 201 **(Mpls Campus)**, Luykx

201 Experimental Ecology Lab (2 cr, §Ent 201; prereq 118 or ¶)
VII-IX T, VIII-IX Th, CofH 15, Chiang
209 Topics: Comparative Physiology (2 cr; prereq 91 or 92 or ‡)
297 Seminar: Research Fields (ar cr)
298 Seminar (no cr)
299 Research (ar cr)

SCHOOL OF BUSINESS ADMINISTRATION

Accounting (Acct)

24 Accounting (3 cr, §55A; prereq 3rd qtr fr)
—1, 11:15-12:30 TTh, ForH 115, CCTV, Purdy
—2, 11:15-12:30 TTh, ForH 150, CCTV, Purdy
—3, 11:15-12:30 TTh, ForH 160, CCTV, Purdy
—4, 11:15-12:30 TTh, CB(W) 130, CCTV, Purdy
—5, 12:45-2:00 TTh, ForH 115, CCTV, Purdy
—6, 12:45-2:00 TTh, ForH 150, CCTV, Purdy
—7, 12:45-2:00 TTh, CB(W) 130, CCTV, Purdy

25 Accounting (3 cr, §55B; prereq 24)
—1, 8:15-9:30 TTh, ForH 115, CCTV, Stanley
—2, 8:15-9:30 TTh, ForH 150, CCTV, Stanley
—3, 8:15-9:30 TTh, CB(W) 130, CCTV, Stanley
—4, 8:15-9:30 TTh, GorC 15 (StP Campus), CCTV, Stanley
—5, 9:45-11:00 TTh, ForH 115, CCTV, Stanley
—6, 9:45-11:00 TTh, CB(W) 130, CCTV, Stanley
—7, 2:15-3:30 TTh, ForH 115, CCTV, Stanley
—8, 2:15-3:30 TTh, ForH 150, CCTV, Stanley
—9, 2:15-3:30 TTh, CB(W) 130, CCTV, Stanley
—10, 3:45-5:00 MW, ForH 160, CCTV, Stanley
—11, 3:45-5:00 MW, ForH 150, CCTV, Stanley
—12, 3:45-5:00 MW, ForH 115, CCTV, Stanley
—13, 3:45-5:00 MW, CB(W) 130, CCTV, Stanley

26 Principles (3 cr, §55A-B; prereq 24)
—1, 8:15-9:30 TTh, ForH 160, CCTV, Gray
—2, 12:45-2:00 TTh, ForH 160, CCTV, Smith
—3, 2:15-3:30 TTh, ForH 160, CCTV, Smith

55C Managerial Costs (3 cr, §115A or 115B or 265A; prereq 26)
11:15-12:30 MW, CB(W) 425, Purdy

75A Accounting Lab I (1 cr; prereq ¶105A)
—1, 3:45-5:30 T, CB(W) 425
—2, V-VI Th, CB(W) 155

75B Accounting Lab II (1 cr; prereq 26, ¶115A)
—1, VI-VII F, CB(W) 450
—2, 3:45-5:30 T, CB(W) 435
—3, VI-VII T, CB(W) 240
—4, 3:45-5:30 Th, CB(W) 425

105A Interm Accounting I (3 cr; prereq 25, 26)
—1, I MWF, CB(W) 145, Berryman
—2, III MWF, CB(W) 145, Berryman

105B Interm Accounting II (3 cr; prereq 105A, ¶75B)
—1, 11:15-12:30 TTh, CB(W) 425, Khemakhem
—2, VI MWF, CB(W) 225, Smith
—3, 8:15-9:30 TTh, CB(W) 110, Khemakhem

115A Cost Accounting (3 cr, §55C; prereq 25, 26)
—1, 12:45-2:00 TTh, CB(W) 425, Gray
—2, 12:45-2:00 MW, CB(W) 425, Simmons
—3, 2:15-3:30 MW, CB(W) 425, Simmons
—4, 2:15-3:30 TTh, CB(W) 425, Khemakhem

145B Adv Topics (3 cr; prereq 12 cr upper div acct)
8:15-9:30 TTh, CB(W) 215, Zimmer

155B Intro: Managerial (3 cr, §25-26 or 55B; prereq 155A)
12:45-2:00 TTh, CB(W) 110, Stanley

175C Controllership Functions, Procedures (3 cr; prereq 115B)
3:45-5:00 TTh, CB(W) 130, Zimmer

195A Internship: Public (3 cr; prereq 125, ‡) Smith
295A Readings (ar cr; prereq cons adv, instr) Gray
295B Research (ar cr) Gray
315 Seminar: Cost Accounting (3 cr)
VIII-IX MW, BA(W) 632, Purdy

Business Finance (BFin)

56 **Finance Fundamentals** (3 cr, §156; prereq Acct 26)
Lect 2:15-3:30 TTh, CB(W) 10, Stevenson
—1, VI F, CB(W) 425, Cooper
—2, VII F, CB(W) 425, Cooper
—3, VIII F, CB(W) 425, Cooper
57 Financial Mgmt (3 cr, §old 76; prereq 56 or Acct 105B)
9:45-11:00 TTh, CB(W) 225, Hanson
66 Investment Fundamentals (3 cr; prereq 56)
IV MWF, CB(W) 225, Cooper
76 Capital Markets, Institutions (3 cr, §old 72; prereq 56)
8:15-9:30 TTh, CB(W) 225, Hanson
258 Topics: Financial Mgt (3 cr, §58, 196; prereq old 57 or 257 or ‡)
3:45-5:00 TTh, CB(W) 105, Rosko
267 Investment Analysis (3 cr; prereq 66 or 266)
2:15-3:30 TTh, CB(W) 105, Rosko
296A Readings (ar cr; prereq cons adv, instr)
296B Research (ar cr)

Business Law (BLaw)

58 **Law, Contracts** (3 cr, §158; prereq Econ 2)
Lect III T, CB(W) 5, Wright
—1, I TTh, CB(W) 205, Wright
—2, I TTh, CB(W) 140, Eastlund
—3, II TTh, CB(W) 205, Wright
—4, II TTh, CB(W) 140, Eastlund
78 **Agency, Partnership, Corporations** (3 cr, §178; prereq 58)
Lect III Th, CB(W) 5, Wright
—1, I TTh, CB(W) 105, Neville
—2, II TTh, CB(W) 105, Neville
—3, III T, IV Th, CB(W) 105, Eastlund
—4, IV TTh, CB(W) 205, Neville
158 Contracts (3 cr, §58)
Lect III T, CB(W) 5, Wright
Rec II TTh, CB(W) 205, Wright
178 Agency, Partnership, Corporations (3 cr, §78; prereq 158)
Lect III Th, CB(W) 5, Wright
Rec IV TTh, CB(W) 205, Neville

Industrial Relations (IR)

52 **Systems: Labor Marketing** (3 cr, §152; prereq Econ 2)
Lect II TTh, CB(W) 5, Zaidi
—1, III T, CB(W) 430, Woods
—2, IV T, CB(W) 115, Woods
—3, V T, CB(W) 430
—4, III Th, CB(W) 430, Vitalis
—5, IV Th, CB(W) 115, Vitalis
—6, V Th, CB(W) 430
—7, III T, CB(W) 115, Vitalis
72 **Systems: Manpower Mgt** (3 cr, §172; prereq Econ 2 or ‡)
I MWF, CB(W) 155, Zaidi
82 **Modern Labor Relations** (3 cr; prereq 52)
II MWF, CB(W) 225, Vitalis
152 Systems: Labor Marketing (3 cr, §52; prereq Econ 2)
Lect II TTh, CB(W) 5, Zaidi
Lab III Th, CB(W) 115, Zaidi
172 **Systems: Manpower Mgt** (3 cr, §72; prereq Econ 2 or ‡)
I MWF, CB(W) 155, Zaidi
182B Interm Manpower Mgt (3 cr; prereq 72 or 172)
VII MWF, BA(W) 632, Heneman
192 Practices, Techniques (3 cr; prereq 72 or 172, 3 cr stat)
VI-VII TTh, BA(W) 632, England
212B Employee Development, Training (3 cr; prereq 72 or 172)
VI MWF, BA(W) 632, Dawis
282 Collective Bargaining: Legal Framework, Public Policy Issues (3 cr; prereq 152)
III-IV TTh, BA(W) 632, Smythe
292A Readings: Manpower Economics, Industrial Relations (ar cr; prereq cons adv, ‡)
292B Research: Manpower Economics, Industrial Relations (ar cr; prereq cons adv, ‡)
362 Seminar: Organization Theory (3 cr; prereq 210)
VIII-IX MF, BA(W) 735, Mahoney

Insurance (Ins)

53 Risk Mgt, Insurance (3 cr, §153; prereq Econ 2)
VIII MWF, CB(W) 5, Williams
83 **Group Insurance, Pensions** (3 cr, §213; prereq 53)
II MWF, CB(W) 140, Whitman

93 Property, Liability Insurance I (3 cr, §223; prereq 53)
VI MWF, CB(W) 140, Whitman

163 Risk Mgt, Insurance II (3 cr; prereq grad, 153)
III MWF, BA(W) 632, Williams

223 Property, Liability I (3 cr, §93; prereq 53 or 153)
VII MWF, BA(W) 735, Whitman

293A Readings: Risk Mgt (ar cr; prereq cons adv, ‡)

293B Research: Risk Mgt (ar cr)

Management (Mgmt)

60 **Business Policy: Strategy Formulation, Implementation** (3 cr; prereq sr stdg, compl bus core or ¶ final core course)
—1, 8:15-9:30 TTh, CB(W) 435, Mauriel
—2, 9:45-11:00 TTh, CB(W) 435, Mauriel
—3, 11:15-12:30 TTh, CB(W) 415, Juralewicz
—4, 2:15-3:30 TTh, CB(W) 415, Juralewicz

70 **Fundamentals** (3 cr)
—1, I MWF, CB(W) 140, Gaumnitz
—2, III MWF, CB(W) 140, Gaumnitz
—3, VI MWF, CB(W) 125, Juralewicz

80 Admin Practices (3 cr)
12:45-2:00 TTh, CB(W) 140, Burke

170 Adv Topics: Mgmt (ar cr; prereq ‡, sr or grad standing)
2:15-3:30 TTh, CB(W) 205, Mauriel

251 Superior-Subordinate Probs (3 cr; prereq 250)
2:15-3:30 TTh, BA(W) 735, Burke

257 Govt, Business Enterprise II (3 cr; prereq 256)
3:15-5:00 MF, CB(W) 110, Erickson

290A Readings: Theory, Admin (ar cr; prereq 2nd yr grad, cons adv, ‡)

290B Research: Theory, Admin (ar cr; prereq 2nd yr grad, cons adv, ‡)

Marketing (Mktg)

57 **Prin of Marketing** (3 cr, §157; prereq Econ 2)
Lect III MW, CB(W) 5, Holloway
—1, I TTh, CB(W) 145
—2, V TTh, CB(W) 205
—3, V TTh, CB(W) 255
—4, VI TTh, CB(W) 205
—5, VI TTh, CB(W) 255

77 Advertising (3 cr, §207; prereq 57...Psy 156 rec)
VII MWF, CB(W) 105, Pennington

97C Marketing Research II (3 cr, §217C; prereq 97)
9:45-11:00 TTh, BA(W) 933, Holloway

99 Communication, Attitude Change (3 cr; prereq 98 or ‡)
12:45-2:00 TTh, CB(W) 105, Berscheid

107 Retail Mgt I (3 cr, §227; prereq 57)
II MWF, CB(W) 125, Pennington

107C Retail Mgt II (3 cr, §227C; prereq sr, 107)
II MWF, CB(W) 105, Werner

117 Sales Mgt I (3 cr, §237; prereq 57)
IV MWF, CB(W) 205, Lewis

187 Price Policy (3 cr; prereq 57)
III MWF, CB(W) 205, Harper

197 Purchasing (3 cr; prereq 57 or 157)
VI MWF, CB(W) 120, Rudelius

217C Marketing Research II (3 cr, §97C; prereq 97 or 217)
9:45-11:00 TTh, BA(W) 933, Holloway

227 Retail Mgt (3 cr, §107; prereq 57)
II MWF, CB(W) 125, Pennington

237 Sales Mgt (3 cr, §117; prereq 57 or 157)
VII MWF, BA(W) 837, Lewis

287 Price Policy (3 cr, §187; prereq 57 or 157)
3:30-6:00 W, CB(W) 110, Harper

297A Readings (ar cr; prereq cons adv, instr)

297B Research (ar cr; prereq cons adv, ‡)
12:45-2:00 TTh, CB(W) 105

299 Communication, Attitude Change (3 cr; prereq 98 or ‡)
12:45-2:00 TTh, CB(W) 105, Berscheid

Office Management (OMgt)

33 **Interm Typewriting** (1 cr; prereq 32 or 1 yr HS typing or 30 words a min)
I MWF, VH 209

36 Office Procedures (3 cr; prereq soph)
IV MWF, CB(W) 105, Kreidberg

38 Shorthand (3 cr, †37-38-39; prereq 37 or 1 yr HS shorthand)
III MWF, VH 209, Sloan

79B Admin Secretarial Studies (3 cr; prereq 79A)
VI MWF, VH 208, Sloan

Production (Prod)

50 Production Mgt (3 cr, §150B; prereq Econ 2)
I MWF, CB(W) 5, Hoffmann

110 Systems, Procedures Analysis (3 cr; prereq 50)
2:15-3:30 TTh, CB(W) 235, Dickson

150B Admin (3 cr, §50; prereq Mgmt 150A or ♯)
9:45-11:00 TTh, CB(W) 415, Dickson

290A Readings (ar cr; prereq 2nd yr grad, cons adv, ♯)

290B Research (ar cr; prereq 2nd yr grad, cons adv, ♯)

Quantitative Analysis (QA)

5 Statistics (4 cr, §151, Soc 45, Psy 70; prereq Math 10)
—1, I MTWF, FraH B25
—2, III MTWF, FraH B25
—3, V MTWF, FraH B25

51 Business Statistics (3 cr; prereq 5, soph with △)
—1, III MWF, CB(W) 110, Kozelka
—2, VI MWF, CB(W) 110, Oweiss
—3, 9:45-11:00 TTh, CB(W) 110, Olson
—4, 11:15-12:30 TTh, CB(W) 110, Neter

53 Quantitative Methods for Admin II (3 cr; prereq 52, Econ 2 or ♯)
Lect IV MF, CB(W) 440, Andrew
Lab V-VI W, CB(W) 430

61 Intro to Electronic Computers (2 cr; prereq 5, Math 10)
Lect II TTh, CB(W) 145, Heath
—1, III-IV T, CB(W) 93
—2, V-VI T, CB(W) 93
—3, VII-VIII T, CB(W) 93

150 Mathematics for Business Analysis (3 cr, §Math 24A, 40; prereq grad or ♯, Math 10)
III MWF, CB(W) 430, Andrew

191A Statistical Methods: Business Admin (3 cr; prereq 51 or 54 or 151 or Econ 121A or ♯)
—1, 11:15-12:30 TTh, CB(W) 1:45, Hastings
—2, 3:45-5:00 TTh, CB(W) 145, Neter

236 Stochastic Models for Business Analysis (3 cr; prereq 150 or Math 40, 258, knowledge of Fortran)
V-VI MF, CB(W) 430, Andrew

251 Business Research Methods, Techniques (3 cr; prereq 51 or 151)
3:45-5:00 TTh, BA(W) 735, Hastings

258 Quantitative Approaches to Admin Probs I (3 cr, §58; prereq 151, Econ 65 or 165)
IV MWF, CB(W) 145, Hoffmann

291A Readings (ar cr; prereq cons adv, instr)

291B Research (ar cr)

Transportation (Tran)

54 Fundamentals (3 cr, §154; prereq Econ 2)
VII MWF, CB(W) 10, Glaskowsky

144 Transportation Pricing (3 cr; prereq 54 or 154)
II MWF, CB(W) 205, Nightingale

194B Regulation, National Policy II (3 cr; prereq 54 or 154)
III MWF, BA(W) 735, Nightingale

294A Readings: Transportation, Business Logistics (ar cr; prereq cons adv, instr)

294B Graduate Research: Transportation, Business Logistics (ar cr; prereq cons adv, instr)

SCHOOL OF DENTISTRY

Dental Assisting (DA)

4 Bacteriology (1 cr)
8:00-9:00 F, MH 213, Thorson

5 Oral Pathology (1 cr)
9:00-10:00 F, MH 213, Thorson

7 Clinic II (5 cr)
1:30-4:30 MTWThF, Owre 310, Tuchner

8 Dental Therapeutics (2 cr)
VI Th, JacH 178

11 Clinic III (7 cr)
10:00-12:30 MTWThF, 1:30-4:30 TTh, Owre 310, Tuchner

12 Seminar (1 cr)
9:00-10:00 W, MH 356, Tuchner

14 Seminar (1 cr; prereq 12)
II W, Owre 117, Tuchner

Dental Hygiene (DH)

8 Dental Anatomy (2 cr; prereq 7)
Lect VI M, MH 356, Hall
Lab 2:30-5:20 T, MH 356, Hall

21 Dental Prophylaxis (2 cr)
Lect III W, MH 356, Hall
—1, Lab ar, Jackson
—2, Lab ar, Jackson
—3, Lab ar, Jackson

35 Dental Office Emergencies (1 cr)
I Th, MH 356, Sander

41 Dental Health Education (2 cr; prereq 40)
Lect VI W, MH 356, Schendel, lab ar
46 Assisting in Dentistry (2 cr; prereq 45)
Lect I T, MH 356, Sander, lab ar
54 Dental Prophylaxis (2 cr; prereq 53)
—1, VII-IX M, Clinic, Jackson, Sander
—2, II-IV T, Clinic, Jackson, Sander
—3, VII-IX T, Clinic, Jackson, Sander
—4, VII-IX W, Clinic, Jackson, Sander
—5, II-IV Th, Clinic, Sander, Schendel
—6, VII-IX Th, Clinic, Sander, Schendel
—7, VII-IX F, Clinic, Sander, Jackson
58 Prosthetic Dentistry, Dental Lab (2 cr; prereq 57)
Lect I W, MH 356, Hall
Lab I-III M, MH 356, Hall
60 Oral Pathology, Histology (2 cr)
VI TF, MH 356, Gorlin
63 Dental Roentgenology (1 cr) Peterson
64 Lectures: Periodontology (1 cr)
I F, MH 356, Stallard

Dentistry (Dent)

51 Oral Anatomy, Histology (4 cr)
—1, Lect I TTh, Owre 12, Hall
—2, Lect II TTh, Owre 12
Lab III-IV TTh, Owre 1
60 Dental Prosthetics (3 cr)
Lect VI W, Owre 111, Morstad
Lab VII-IX W, II-IV F, JOAd 54, Hall
67 Preventive Dentistry (1 cr)
Lect VII T, Owre 12, Meskin
76 Crown, Bridge Technic (4 cr; prereq 75)
Lect VI T, Owre 111, Serr
Lab II-IV MW, VII-IX T, JOAd 54
86 Operative Technic (3 cr; prereq 85)
Lect VI M, Owre 111, Wakely
Lab II-IV TTh, JOAd 54
111 Dental Prosthetics (1 cr; prereq 110)
8:00-9:00 M, Owre 12, Morstad
111C Dental Prosthetics Clinic (2 cr; prereq 110C) Morstad
116C Dental Prosthetics Clinic (2 cr; prereq 115C) Morstad
121C Crown, Bridge Clinic (2 cr; prereq 120C) Yock
126C Crown, Bridge Clinic (2 cr; prereq 125C) Yock
128 Seminar: Restorative Dentistry (1 cr)
9:00-10:00 Th, Owre 113, Jensen, Morstad, Yock
138 Diagnostic Oral Roentgenology (1 cr)
9:00-10:00 T, Owre 113, Yamane
141C Operative Dentistry (4 cr) Jensen
144 Endodontics (2 cr)
8:00-9:00 T, 9:00-10:00 F, Owre 111, Jensen
146C Clinical Operative Dentistry (3 cr; prereq 145C) Jensen
149 Mgmt of Mass Casualties, First Aid (1 cr)
9:00-10:00 W, Owre 113, Jensen
156 Oral Surgery (2 cr)
9:00-10:00 MF, Owre 113, Clark
161 Oral Pathology, Histology (3 cr)
Lect 9:00-10:00 MW, Owre 111, Gorlin
—1, Lab 10:00-12:00 M, MH 356
—2, Lab 10:00-12:00 W, MH 356
171 Pedodontics (1 cr)
9:00-10:00 T, Owre 111
176C Pedodontics Clinic (3 cr)
181 Periodontics (1 cr)
9:00-10:00 Th, Owre 111, Stallard
181C Periodontics Clinic (1 cr) Stallard
186C Periodontics Clinic (1 cr; prereq 185C) Stallard
197 Professional Orientation (1 cr)
8:00-9:00 T, Owre 113, Holland
198 Dental Jurisprudence, Ethics (1 cr; prereq 195)
8:00-9:00 W, Owre 113, Brand
201 Growth, Development (ar cr) Isaacson
205 Orthodontic Diagnosis, Treatment Planning (ar cr) Isaacson
209 Probs, Research: Orthodontics (ar cr) Isaacson
213 Research: Orthodontics (ar cr) Isaacson
217 Topics: Orthodontics (ar cr) Isaacson
220 Adv Dental Anatomy (ar cr) Hall
230 Adv Oral Diagnosis (ar cr) Yamane
231 Adv Clinical Oral Diagnosis (ar cr) Yamane
232 Research Probs: Oral Medicine (ar cr) Yamane
240 Adv Technical Restorative Dentistry (ar cr) Jensen, Morstad, Yock
241 Seminar: Adv Restorative Dentistry (ar cr) Morstad
243 Adv Clinical Restorative Dentistry (ar cr) Jensen, Morstad, Yock
245 Seminar: Prosthodontics (ar cr; prereq ‡) Olsen
246 Seminar: Prosthodontics (ar cr; prereq ‡) Olsen
247 Research Probs: Restorative Dentistry (ar cr) Jensen, Morstad, Yock
248 Adv Prosthodontics (ar cr; prereq 245, ‡) Olsen
249 Adv Prosthodontics (ar cr; prereq 246, ‡) Olsen
250 Adv Oral Surgery (ar cr) Clark
251 Seminar: Oral Surgery (1 cr) Clark
252 Research: Oral Surgery (ar cr) Clark
253 Probs: Oral Surgery (ar cr) Clark
261 Adv Dental Roentgenology (ar cr) Yamane

262 Research: Oral Pathology (ar cr) Gorlin
263 Seminar: Oral Pathology (1 cr) Gorlin
265 Seminar: Histopathology Slide (1 cr) Gorlin
267 Seminar: Human Genetics (1 cr) Gorlin
268 Current Literature Review (1 cr) Gorlin
280 Adv Periodontics Clinic (ar cr) Stallard
281 Adv Periodontics Lectures (3 cr) Stallard
282 Research: Periodontics (ar cr) Stallard
283 Seminar: Periodontics (2 cr) Stallard
284 Supporting Structures of the Teeth (3 cr) Stallard
285 Histochemistry of Normal, Pathologic Periodontium (2 cr) Stallard

COLLEGE OF EDUCATION

AGRICULTURAL EDUCATION (AgEd)

1 Introduction (1 cr; prereq ♯)
III Th, Hr 301, Kitts
20 Rural Education, Community Leadership (3 cr, §120)
81 Teaching Agriculture in Secondary School (4 cr; prereq 91 or Ed 55B)
Lect IV MWF, Hr 301, Kitts
Lab VII-VIII T
103 Adult Education in Agriculture (4 cr)
Lect III MWF, Hr 301
Lab VII-VIII Th, Persons
104 Planning Programs (3 cr; prereq ♯)
11:15-12:30 TTh, Hr 301, Peterson
120 Rural Education, Community Leadership (3 cr, §20; prereq ♯)
11:15-12:30 TTh, Hr 102, Swanson
141 Supervised Farm Practice in Vocational Agriculture (3 cr, total 9 cr; prereq 10 cr educ or ♯) Kitts
221 Field Probs (3 cr)
232 Research (ar cr; prereq 15 cr educ)
286 Current Issues (ar cr; prereq ♯) Peterson

ART EDUCATION (ArEd)

10 **Elementary Survey** (2 cr)
—1, I-II TTh, WuH 210, Bradley
—2, I-II TTh, WuH 240, Mitra
—3, III-IV TTh, WuH 210, Olson
—4, III-IV TTh, WuH 220, Salome
14 **Introduction** (2 cr)
—1, I TTh, WuH 110, Olson
—2, II TTh, WuH 110, Salome
17 **Pictorial Expression for Elem Education** (3 cr)
—1, I-II MWF, WuH 240, Mitra
—2, III-IV MWF, WuH 240, Mitra
18 **Design Activities for Elem Education** (3 cr)
—1, I-II MWF, WuH 210, Bradley
—2, VI-VII MWF, WuH 210, Sontag
19 **Functional Arts, Crafts in Elem Education** (3 cr)
III-IV MWF, WuH 220, Hegg
53 **Intro to Weaving** (3 cr)
VI-VII MF, VI W, WuH 340, Smits
54 Adv Weaving (3 cr)
VII W, VIII MWF, WuH 340, Smits
56 **Principles, Experiences** (5 cr; prereq 14)
VI-VII MTWThF, WuH 110, 120, Olson
57 **Principles, Experiences** (5 cr; prereq 14)
—1, I-II MTWThF, WuH 110, 120, Salome
—2, III-IV MTWThF, WuH 110, 120, Hastie
81 **Puppetry in Education** (3 cr)
VIII-IX MWF, WuH 220, Olson
84 **Teaching Art in Elementary School** (2 cr; prereq 6 or 10 cr from 17, 18, 19)
Lect VI TTh, WuH 230, Gayne
—1, Lab VII TTh, WuH 210, Bradley
—2, Lab VII TTh, WuH 220, Gayne
—3, Lab VII TTh, WuH 240, Mitra
86 Student Teaching, Supervision (3 cr, †86-87-88; prereq sr, 56, 57, Ed 55A, 55B, ¶86A) Hastie, Olson
87 Student Teaching, Supervision (3 cr, †86-87-88; prereq sr, 56, 57, Ed 55A, 55B, ¶87A) Bradley, Mitra
87A Teaching, Supervision (2 cr, †86A-87A-88A; prereq sr, 56, 57, Ed 55A, 55B, ¶87)
IX-X MWF, WuH 110, Hastie, Olson
88 Student Teaching, Supervision (3 cr, †86-87-88; prereq sr, 56, 57, Ed 55A, 55B, ¶88A) Hegg, Salome
189 **Application of Aesthetic Theory in Education** (3 cr)
I-II S, WuH 130, Hastie

284 **Research** (3 cr)
III-IV S, WuH 110, Gayne
295 Problems (ar cr; prereq ‡) Gayne, Hastie
296 Seminar (1 cr) Gayne, others

CHILD PSYCHOLOGY (CPsy)

80 **Child Psychology** (3 cr; prereq Psy 2)
III MWF, ME 4, Flavell
81 **Adolescent Psychology** (3 cr; prereq Psy 2)
IV MWF, ME 4, Malmquist
125 Experimental Research with Children (3 cr; prereq 80, ‡)
VIII MWF, Bu 125, Karmel
127 Social Behavior of Children (3 cr; prereq 80, ‡) Laubengayer
140 Behavior Probs (3 cr; prereq 80)
I MWF, ME 4, Linker
142 Psychology of Handicapped Children (3 cr; prereq 80)
VI MWF, CD 218, Templin
190 Topics: Child Psychology (ar cr; prereq ‡)
211 Adv Child Psychology (3 cr; prereq 210)
I MWF, CD 218, Charlesworth, Hill
214 Learning in Children (3 cr; prereq Psy 129 or ‡)
3:15-4:45 TTh, CD 218, Stevenson
217 Adv Personality Development (3 cr; prereq ‡)
VIII MWF, CD 105, Hartup
221 Seminar: Current Issues in Child Psychology I (1 cr; prereq ‡)
IV-V alt T, CD 102, Ruebush
224 **Seminar: Developmental Psychology** (ar cr; prereq ‡)
—1, Ar, Roff
—2, Ar, Pick
—3, Ar, Eiblfeldt
—4, Ar, Ruebush
249 Treatment of Disturbed Children (3 cr; prereq ‡)
VI-VII F and ar, CD 117, Wirt
251 Practicum: Clinical Child Psychology (5 cr; prereq ‡) Goldin
287 Behavior of Preschool Children (3 cr; prereq ‡) Moore

EDUCATIONAL ADMINISTRATION (EdAd)

128 Workshop: Educational Admin (1-6 cr; prereq practicing admin or ‡)
VII-VIII Th, FolH 202, Davis, Hooker
200 Seminar: Elem School Admin (3 cr; prereq 215 or ‡)
IX-X T, Bu 123, Lambert
201 Foundations (3 cr)
4:15-6:45 M, Bu 123, Pierce
218 Seminar: Secondary School Admin (3 cr; prereq 201, 202 or ‡)
VII-VIII M, Bu 105, Popper
228 Probs: Educational Admin (1-3 cr) Davis, Domian, Hooker, Mueller
236 Field Study (0-10 cr; prereq ‡) Curtin, Davis, Domian, Firth, Hooker, Lambert, Mueller, Nickerson, Pierce, Popper
239 School Principal's Workshop (1-4 cr) Curtin, Lambert
241 Seminar: Internship (1 cr)
VI-VII Th, Pt 214, Nickerson
242 Admin Organization, Staffing of School Systems (3 cr; prereq ‡)
III-IV S, Pt 111, Davis
253 Admin in Higher Education (3 cr; prereq EdCI 250)
3:00-5:00 M and ar, NH 201, Ammentorp
265 Administering the High School Program (3 cr)
I-II S, PeikH 155, Nickerson
270A Probs: Elem School Admin (ar cr; prereq ‡) Clymer, Curtin, Goossen, Lambert
270B Probs: Secondary School Admin (ar cr; prereq ‡) Davis, Domian, Firth, Hooker, Mueller, Nickerson, Pierce
274 The Junior College (3 cr)
IX-X Th, Pt 111, Hendrix

EDUCATIONAL PSYCHOLOGY (EPsy)

110 **Educational Measurement in the Classroom** (3 cr)
VIII MWF, Pt 102, Becklund
116 Introductory Statistical Methods (3 cr)
VII MWF, WuH 230, MacEachern
116A **Introductory Statistical Methods Lab** (2 cr; prereq ¶116)
VI-VII TTh, WuH 330, Hennen
117 Basic Prin of Measurement (3 cr; prereq 116 or 216 or Psy 70)
VIII MWF, CD 218, D Anderson
126 **Analysis of Behavior in Groups** (3 cr; prereq 125)
I-II TTh, Bu 125, David W Johnson
133 Intro to Guidance (3 cr; prereq 9 cr educ)
III-IV S, Bu 120, Tennyson

134 Counseling Procedures (3 cr; prereq 110 or 117, 133, ‡)
III-IV S, Pt 110, Blocher

141 Computer Programming (3 cr; prereq sr)
VI MWF, Bu 123, D Anderson

150 **Clinical Practice in Remedial Teaching** (3 cr; prereq EdCI 145 or 151, ‡)

159 Personality Development, Mental Hygiene (3 cr)
IX-X MW, Pt 110

182 Education of Exceptional Children (3 cr; prereq Ed 55B or 75B)
VII MWF, Pt 102, Force

183 Education of Gifted Children (3 cr; prereq Ed 55B or 75B)
IX-X T, Pt 110, Reynolds

188 Education of the Culturally Disadvantaged Child (3 cr; prereq HEd 90, CPsy 80)
IX-X Th, Pt 110, Wood

190 Educational Probs of Cerebral Palsy (3 cr; prereq 182)
IX-X Th, Pt 204, Force

193 Psychological Analysis of Instruction (3 cr, §193, 196-197; prereq sr)
I MWF, Bu 123, Samuels

195 Experimental Analysis of Instruction (3 cr; prereq 194)
VII-VIII TTh, Pt 110, Hively

197 Psychology of School Learning (3 cr, §193, †196-197; prereq 196)
III MWF, Bu 125, P Johnson

200 **Seminar: Guidance (1-3 cr; prereq ‡)**
V-VI W, Bu 255, A Anderson

207 Research Practicum (3-6 cr, †9 cr total; prereq ‡) Wilk

208 Methods in Educational Research (3 cr; prereq MA students only)
VII MWF, Bu 125, White

209 **Seminar: Research Planning (1 cr)**
VIII-IX T, CD 105, Hoyt

211 **Adv Individual Mental Testing** (3 cr, §143; prereq 210, ‡)
IX-X TTh, NH 107, Duker, Hall

216 Statistical Methods (3 cr; prereq 116 or Psy 70)
I MWF, Pt 110, Terwilliger

216A **Statistical Methods Lab** (2 cr; prereq ¶216)
IV-V MW, WuH 330, Hennen

217 **Statistical Methods** (3 cr; prereq 216)
—1, II MWF, Arch 10, Collier, MacEachern
—2, II MWF, Arch 40, Collier, MacEachern

217A **Statistical Methods Lab** (2 cr; prereq ¶217)
—1, I-II TTh, WuH 330
—2, III-IV TTh, WuH 330, Schluck
—3, VI-VII MW, WuH 330, Schluck
—4, VIII-IX TTh, WuH 330, Schluck

221 Adv Theory of Measurement (3 cr; prereq 220)
9:45-11:00 Th, WuH 130, Hoyt

225 Counseling Theory, Procedure I (3 cr; prereq 140 or ¶, 133 or 250 or Psy 130)
VIII-IX TTh, Bu 125, Blocher

233 Probs: Guidance, Personnel Work (1-9 cr) Parker, others

240 Probs: Measurement (3 cr) Hoyt

243 **Probs: Statistics for Students in Education, Psychology** (3 cr)
—1, Ar, MacEachern
—2, Ar, Collier

244 Research: Special Education (1 cr; prereq 116, 117, ‡)
IX-X M, Pt 111

248 Seminar: School Psychology (1 cr; prereq PhD or spec cand, ‡) Duker, Hall

251 College Student Personnel Work (1-3 cr; prereq 250 or 1 course higher educ)
III-IV Th, Bu 125, Parker, others

253 Research Probs (ar cr; prereq ‡) Wilk, others

257 **Clinical Practice in Educational Diagnosis** (5 cr, §151; prereq 210, EdCI 145, ‡)

259 Personality Theory in Mental Hygiene (3 cr)
VII MWF, Pt 215

260 Seminar: Educational Psychology (ar cr)
VIII-IX M, Pt 214, Wilk

262 Functional Analysis of Behavior in Mental Retardates (3 cr; prereq 261)
VII-VIII TTh, Pt 102, Turnure

266 Research: Education of Disturbed Children (3 cr; prereq ‡)
VI-VIII Th, Pt 204, Balow

280 **Practicum in Group Leadership** (3 cr; prereq ‡)
VI-VII T, Bu 255, A Anderson

281 **Practice in Personnel Work** (3 cr; prereq 226 or ‡)
—1, VI-VII Th and ar, EdH 202, Hagenah
—2, Ar, Parker

282A **Field Practice in Guidance** (1-3 cr; prereq counselor in service only, ‡)

282B **Supervised Practicum in Counseling** (1-3 cr; prereq ‡)
I-IV S, Bu 125, Lee

286 Adv Course: Education of Emotionally Disturbed, Socially Maladjusted Children (3 cr; prereq ‡)
IX-X T, Pt 111, Wilderson

287 Practicum: School Psychological Services (1-3 cr; prereq ‡) Duker, Hall

288 Practicum: Special Education (3-9 cr; prereq ‡) Reynolds, others

295 Research Practicum in Programmed Instruction, Behavior Modification (1 cr; prereq 194-195 or ‡) Hively

GENERAL EDUCATION

Curriculum and Instruction (EdCI)

56 Methods, Observations in Kindergarten (3 cr; prereq CPsy 80)
V MWF, CD 105, Headley

57 Nursery-Kindergarten-Primary Lab: Art, Music, Science, Social Studies (4 cr; prereq CPsy 80)
VII MWF, CD 105, Headley

60 **Teaching Reading in Elem School** (3 cr; prereq Ed 75A)
—1, I MWF, Bu 120, Harris
—2, III MWF, Bu 120, Odland
—3, VI-VII MW, Marcy School, Manning
—4, VIII MWF, Pt 215, Ollila

61 **Teaching Social Studies in Elem School** (3 cr; prereq Ed 75A)
—1, II MWF, Pt 214, Keach
—2, III MWF, Pt 214, Rogers
—3, VII MWF, Pt 214

62 **Teaching Mathematics in Elem School** (3 cr; prereq Ed 75A, Math 5A-B)
—1, I MWF, JohH 113, Maertens
—2, III MWF, JohH 113, Jackson
—3, VI MWF, JohH 113, Stochl
—4, VII MWF, JohH 113, Hatfield

63 **Children's Literature** (3 cr)
—1, I TTh, Bu 120, Peterson
—2, III TTh, Bu 120, Odland
—3, VIII TTh, Bu 120, Peterson

64 **Teaching English in Elem School** (3 cr; prereq Ed 75A)
—1, II MWF, Pt 215, Dykstra
—2, III MWF, Pt 204, Chase
—3, VI MWF, Pt 215, Dykstra

65 **Teaching Science in Elem School** (3 cr; prereq Ed 75A, 10 cr nat sci)
—1, 9:45-11:00 TTh, Pt 111, Goossen
—2, III MWF, Pt 111, Humphreys
—3, VI MWF, Pt 111, Humphreys
—4, VII-VIII T, VII Th, Pt 111, Goossen

105 Audio-Visual Materials in Education (3 cr; prereq sr)
IX-X T, NH 211, 1 hr ar, Pearson

109 **Projected Audio-Visual Materials, Equipment Lab** (3 cr; prereq 105 or ¶)
Lect IX-X M, WeH 206, Pearson
—1, VI-VII M, WeH 206
—2, IX-X Th, WeH 206

114 Interdisciplinary Approaches to Curriculum (3 cr)
IX-X T, JohH 114, Kimpston

119 Elem School Curriculum (3 cr; prereq Ed 75B)
III-IV S, Bu 123, Goossen

121 Literature for Elem School (3 cr)
I-II S, Bu 120, Odland

127 Methods of Teaching School Subjects to Hearing Impaired (3 cr; prereq SSPA 183, ‡)
IX-X T, Pt 204

131 Adv Teaching Technical Business Subjects (3 cr)
I-II S, Bu 105, Price

135 Group Procedures in Guidance (3 cr; prereq EPsy 133 or ‡, 9 cr educ)
IX-X Th, PeikH 155, Hansen

139 Co-ordination Techniques (3 cr)
4:15-6:30 W, Bu 105, Klaurens, Meyer

143A Teaching, Supervision of Reading in Elem School (3 cr; prereq 9 cr educ)
IX-X W, JohH 106, 1 hr ar, Clymer

143B Materials, Instructional Techniques of Elem Reading (3 cr; prereq 60 or 143A or ‡)
IX-X W, Bu 123, 1 hr ar, Manning

145 Reading Difficulties (3 cr; prereq 143A or 144)
IX-X M, Bu 125, 1 hr ar, Bormuth

149B **Materials Lab for Elem School Mathematics Instruction** (3 cr; prereq 62 or 149A or ‡)
9:15-12:00 S, PeikH 325, Jackson

153 Teaching, Supervision of English in Elem Schools (3 cr; prereq 64 or elem sch tchg exper)
IX-X W, Bu 125, 1 hr ar, Chase

155A Materials Lab for Elem Social Studies Teachers (3 cr, §155; prereq 61 or 102 or ‡)
IX-X Th, Pt 214, 1 hr ar, Keach

156 Trends in Business Education (3 cr)
IX-X T, Bu 105, Paleen, Price

159 Materials Lab, Secondary School Distributive Education (3 cr; prereq 137A or EdT 90C or ‡)
III-IV S, Bu 105, Klaurens, Meyer

168 Current Developments in Social Studies (3 cr; prereq grad or ‡)
I-II S, JohH 409, McCune

169 Student Activity Programs in Secondary Schools (3 cr; prereq Ed 55B)
IX-X Th, Pt 215, Firth

170 Programs, Procedures of Curriculum Development (3 cr, §170A-B; prereq 113 or 119)
III-IV S, PeikH 165, Firth

171 Workshop: Curriculum Lab Practice (0-3 cr; prereq 113 or 119, ‡) Birkmaier, Firth

174 Clinical Methods, Practice in Speech Pathology (3 cr, §SSPA 164; prereq SSPA 141, 142 or ‡)
5:00-6:00 Th, FolH 103, Starr

174A Clinical Practicum in Speech Correction—Cleft Palate (1 cr; prereq SSPA 146) Starr

175 Clinical Methods, Practice in Speech Pathology (3 cr, §SSPA 165; prereq 174)
5:00-6:00 Th, FolH 103, Starr

176 Clinical Methods, Practice in Speech Pathology (3 cr, §SSPA 166; prereq 175)
5:00-6:00 Th, FolH 103, Starr

178 Structure, Function of the Eye: Educational Implications (3 cr; prereq ‡)
IX-X W, Pt 111, Martin

179 Education of Mentally Retarded Children in Elem School (3 cr; prereq EPsy 184)
VII MWF, Pt 110

180 Education of Mentally Retarded in Secondary Schools (3 cr; prereq EPsy 184)
IX-X Th, CD 105

189 Materials, Curriculum Construction in Modern Languages (3 cr; prereq 185, ‡)
I-II S, PeikH 225, Birkmaier, Lange

192 Mathematics Lab (3 cr; prereq grad or tchg exper)
4:15-6:45 Th, PeikH 315, David C Johnson

199E Internship (ar cr) Mork

201 Probs: Teaching Social Studies (ar cr; prereq 102 or 155 or 168, 204 or ‡) Gardner, Keach, McCune, Morse, Rogers, West

205 Probs: Audio-Visual Education (ar cr; prereq ‡) Pearson

206 Curriculum Construction in Elem Social Studies (3 cr; prereq 61 or 102, 154 or ‡)
IX-X T, Pt 214, 1 hr ar, Rogers

207 Probs: Radio-Television Education (1-3 cr; prereq 107) Pearson

215 Probs: School Health Education Program (ar cr; prereq ‡) Grout

222 Seminar: Secondary Curriculum, Instruction (1 cr, †3 cr; prereq 113)
IX-X W, PeikH 265, Firth, Hill, Kimpston

225 Probs: Secondary School Supervision (ar cr; prereq ‡) Firth

226 Seminar: Elem School Probs (no cr)
4:00-5:00 Th, PeikH 165

228 Probs: Higher Education, Teacher Education (ar cr; prereq ‡) Mork

231 Recent Research in Elem School Math Instruction (3 cr; prereq 230 or ‡)
IX-X W, JohH 113, Stochl

232 Probs: Teaching Mathematics (ar cr; prereq 230 or 231 or 291) Jackson, David C Johnson, Donovan Johnson, Stochl

233 Seminar: Mathematics Education (0-3 cr; prereq ‡)
IX-X T, PeikH 315, Jackson, David C Johnson, Donovan Johnson, Stochl

237 Seminar: Business, Distributive Education (0 cr; prereq ‡) Meyer, Price, Warmke

238 Probs: Distributive Education (ar cr; prereq ‡) Ashmun, Meyer

239 Probs: Business Education (ar cr; prereq ‡) Price

241 Seminar: Adv Study in Supervision, Curriculum Development (1 cr, †3 cr; prereq 113, 170 or 172)
IX-X M, PeikH 255, Birkmaier, Firth, Gardner

242 Field Practicum: Supervision, Curriculum Development (1 cr, †3 cr; prereq 113, 170) Firth

243B Recent Research: Reading (3 cr; prereq ‡)
IX-X T, JohH 520, Clymer

250 Higher Education in U S (3 cr; prereq 18 cr educ or 1 yr grad study in any field)
I-II S, Bu 123, Fenske

253A Seminar: Materials, Methods in Marriage Education (4 cr) Hey, Neubeck

254 Directed Experience in College Instruction (ar cr; prereq ‡)

257 Research: Engl Comp in Elem Schools (3 cr; prereq 153)
III-IV S, CD 105, 1 hr ar, Chase

261 Probs: Improvement of Instruction (ar cr; prereq ‡) Bormuth, Chase, Clymer, Curtin, Dykstra, Goossen, Humphreys, Jackson, Keach, Lambert, Manning, Odland, Stochl

264 Research: Educational Diagnosis (3 cr)
IX-X W, Pt 214, 1 hr ar, Bormuth

271 Probs: Curriculum Construction (ar cr; prereq ♯) Birkmaier, Boeck, Firth, Gennaro, David C Johnson, Donovan Johnson

273 Probs: Reading (ar cr; prereq 143A or 144 or ♯) Bormuth, Chase, Clymer, Dykstra, Kegler, Manning, Odland, Raygor

284 Probs: Student Teaching (3-9 cr; prereq ♯) Mork

285 Professional Education of Teachers (3 cr; prereq 15 cr educ incl 184, 250 or HEd 182 or EPsy 250 or ♯)
III-IV S, PeikH 75, 77, Mork, Woestehoff

287 Research Foundations of Secondary School Science Teaching (3 cr)
I-II S, PeikH 365, Boeck

291 Research: Mathematics Education (ar cr; prereq 191)
IX-X M, PeikH 315, Donovan Johnson

294 **Adv Materials, Methods in Secondary School English** (3 cr; prereq EdT 75C)
I-II S, PeikH 245, Kegler, Piche

295 Readings: Engl, Modern Language Education (1-3 cr; prereq MA degree) Chase, Dykstra, Birkmaier, Kegler, Piche

296 Probs: Teaching English (ar cr) Chase, Dykstra, Kegler

297 Research: English, Speech Education (1-3 cr) Kegler

Education (Ed)

55A Intro to Secondary School Teaching (5 cr; prereq Psy 2)
Lect I MWF, NH 45, Williams
—1, II TTh, Pt 102
—2, II TTh, Pt 215
—3, III TTh, Pt 215
—4, III TTh, Pt 110
—5, III TTh, Pt 102
—6, V TTh, Pt 102
—7, V TTh, Bu 125
—8, VI TTh, Bu 125

55B Intro to Secondary School Teaching (5 cr; prereq 55A)
—1, II-III MWF, Ag Eng 105 (StP Campus)
—2, II-III MWF, GorC 12 (StP Campus)
—3, II-III MWF, GorC 15 (StP Campus)
—4, II-III MWF, Bu 123
—5, II-III MWF, AE 211
—6, VII-VIII MWF, Bu 123
—7, VII-VIII MWF, AE 211
—8, VII-VIII MWF, AE 313
—9, VII-VIII MWF, AE 317
—10, VII-VIII MWF, AE 319
—11, Ar

75A Intro to Elem School Teaching (5 cr; prereq Psy 2)
Lect IV MWF, Ph 131, Samuels
—1, I-II TTh, Pt 110
—2, I-II TTh, Pt 204
—3, III-IV TTh, Pt 204
—4, VI-VII TTh, Pt 215

75B Intro to Elem School Teaching (5 cr; prereq 75A, IIIA students only, others by △)
Lect IV MWF, Bu 120, Curtin
—1, I-II TTh, Pt 214
—2, III-IV TTh, Pt 214
—3, VI-VII TTh, CD 218

History and Philosophy of Education (HEd)

90 School, Society (3 cr; prereq sr)
—1, IV MWF, P 110, Travisano
—2, VI MWF, P 110, Travisano
—3, VII MWF, Pt 111, Travisano
—4, VIII MWF, Pt 111, Neff
—5, VII-VIII T, VII Th, ME 110, Neff

131 Comparative Education (3 cr)
IX-X W, CD 218, Corcoran

156 History of Ideas in American Education (3 cr)
IX-X Th, Bu 123, Bagley

241 Problems (ar cr; prereq ♯) Bagley, Corcoran, Neff, Smith

297 Seminar: American Social, Educational History (3 cr, §Hist 238E; prereq 296) Smith

HOME ECONOMICS EDUCATION (HEEd)

60 Curriculum (3 cr; prereq 49, Soc 1 or 1A, Ed 55B or ¶)
III MWF, McNH 144, Wantoch

63 Supervised Teaching in Home Economics (9 cr, §93-94; prereq 61, 62, HE 4, 21, 41) Wantoch

64 Adult Education in Home Economics (3 cr, §194A; prereq 60)
VI-VII TTh, McNH 103, Segolson

65 Colloquium (2 cr; prereq 63)
VIII WF, McNH 103, Braseth

90A Practicum in Child Development (1 cr; prereq 90 or ¶)
V T and ar, McNH 102, Christenson

95 Field Experience for Home Agents (6 cr; prereq 49, △, cons dir agric ext)
II TTh, McNH 108, Ford

164 Adult Education in Home Economics (3 cr, §194B; prereq 64 or ‡)
III-IV TTh, McNH 103, Ford
190 Readings (1-3 cr; prereq cons adv, ‡)
201 Problems (1-9 cr, §old 293; prereq 200A, ‡) Brown, Ford
266 Seminar: History, Philosophy (2 cr; prereq 166, 200B)
6:00-9:00 pm Th, McNH 102, Brown

INDUSTRIAL EDUCATION (Ind)

1 **Elem Handicrafts (3 cr)**
I-III TTh, TNCD 218 (for non-majors)
2 **Wood Processing I (3 cr)**
II-IV TTh, TNCD 1, Bortz (for OT students only)
3 **Wood Processing II (3 cr; prereq 2 or ‡)**
I-II MWF, TNCD 1, Bortz, Holland
4 Wood Processing III (3 cr; prereq △) Nelson
8 **Design I (3 cr; prereq 7 or ‡)**
III-IV MWF, TNCD 201, Pratzner
10 Adv Drafting B (3 cr; prereq △) Nelson
15 **Graphic Arts I (3 cr)**
I-III TTh, TNCD 14, Moss (for majors only)
20 **Electricity, Electronics (3 cr)**
VI-VII MWF, TNCD 15, Kavanaugh
23 Applied Electronics I (3 cr; prereq △) Nelson
24 Applied Electronics II (3 cr; prereq △) Nelson
26 **Metal Processing II—Machine Shop Practices (D) (3 cr; prereq △)**
4:30-9:30 Th, Sandeen
27 Metal Processing III (3 cr; prereq △) Nelson
28 Metal Processing IV (3 cr; prereq △) Nelson
29 Metal Processing V (3 cr; prereq △) Nelson
31 Automotive Mechanics I (A) (3 cr; prereq △) Nelson
32 Automotive Mechanics II (A) (3 cr; prereq △) Nelson
50 **Industrial Practices, Processes (3 cr; prereq 35)**
VI-VIII T, TNCD 113, Miletich
55 **Teaching Industrial Arts (3 cr; prereq Ed 55A or ¶)**
IV-V TTh, TNCD 116, Randleman
60A Student Teaching (3 cr, †60A-60B-60C; prereq 6, 55, 100, △)
60B Student Teaching (3 cr, †60A-60B-60C; prereq 60A)
60C Student Teaching (3 cr, †60A-60B-60C; prereq 60B)
60D Student Teaching (3 cr; prereq △)
60S Student Teaching Seminar (1-3 cr; prereq ¶60A-B-C-D)
VIII W, TNCD 116
70 Drafting, Technical Specialty I (B) (3 cr; prereq △) Nelson
71 Drafting, Technical Specialty II (B) (3 cr; prereq △) Nelson
72 Graphic Arts, Technical Specialty I (B) (3 cr; prereq △) Nelson
73 Graphic Arts, Technical Specialty II (B) (3 cr; prereq △) Nelson
74 Power Mechanics, Technical Specialty II (A) (3 cr; prereq △) Nelson
75 Power Mechanics, Technical Specialty II (A) (3 cr; prereq △) Nelson
76 Metals, Technical Specialty I (D) (3 cr; prereq △) Nelson
77 Metals, Technical Specialty II (D) (3 cr; prereq △) Nelson
78 Electronics, Technical Specialty I (C) (3 cr; prereq △) Nelson
79 Electronics, Technical Specialty II (C) (3 cr; prereq △) Nelson
90 Independent Study (3 cr; prereq jr or ‡)
VIII M, TNCD 116, Randleman
91 Independent Study (3 cr; prereq 90)
VIII M, TNCD 116, Randleman
92 Independent Study (3 cr; prereq 91)
VIII M, TNCD 116, Randleman
101 Tests in Industrial Subjects (3 cr; prereq Ed 55B)
IX-X Th, TNCD 113, Kavanaugh
105 Administration (3 cr; prereq 35 or ‡)
IX-X T, TNCD 113, Nelson
109 Conference Leading for Industry (3 cr; prereq ‡)
IX-X M, TNCD 116, Miletich
200 Research Probs (3, 6 or 9 cr)
III-IV M, TNCD 103, Kavanaugh, Moss, Nelson, Randleman
205 Seminar (no cr)
V W, TNCD 116, Randleman
251 Research (3 cr; prereq ‡)
IX-X W, TNCD 116, Moss

METHODS AND STUDENT TEACHING (EdT)

50 Junior Practicum: Special Education (3 cr; prereq ‡) Force, Grismer
51B Teaching Nursing (6 cr; prereq 51A)
I-II TTh, MH 118, Backlund, Dunning
52 Student Teaching (ar cr) Mork, others
53A Teaching Handicapped Children (6 cr; prereq ‡)
4:15-6:00 T and ar, Grismer

53B Teaching Handicapped Children (6 cr; prereq 53A)
4:15-6:00 T and ar, Grismer

54A Student Teaching: Elem School (6 cr)
4:30-6:00 M and ar, Erlandson, others

54B Student Teaching: Elem School (6 cr; prereq 54A)
4:30-6:00 M and ar, Erlandson, others

60 Student Teaching: Library Science (2-6 cr; prereq sr, Lib 53, 62, 70, 74, 171, 172 or ♯) Olson

67 **Student Teaching: Mathematics** (1 or 3 or 6 cr, †9 cr; prereq sr, ¶67B, Math 60 or ¶)
—1, IX-X M and ar (off-campus) Ronken, others
—2, Ar (on-campus) David Johnson, others

67B **Teaching Secondary School Mathematics** (1 cr, †67A-67B-67C; prereq 67A)
—1, I MW, J 202, Hatfield
—2, IX-X W, PeikH 315, Kieren

68 **Student Teaching: Science** (1 or 3 or 6 cr, †9 cr; prereq sr, ¶68B)
—1, IX-X M and ar (off-campus) Ronken, others
—2, Ar (on-campus) Gennaro, others

68B **Teaching Secondary School Science** (1 cr, †68A-68B-68C; prereq 68A)
—1, IX-X W, PeikH 375, Boeck (phys sci maj only)
—2, IX-X W, PeikH 385, Gennaro (nat sci maj only)

69 **Student Teaching: Social Studies** (3-6 cr; prereq sr, ¶69A or B)
—1, IX-X M and ar (off-campus) Ronken, others
—2, VIII W and ar (on-campus) PeikH 165, Beery, others

69A Teaching Social Studies in Secondary School (3 cr, †69A-69B; prereq sr, ¶69)
IX-X TTh, PeikH 175, Beery

69B Teaching Social Studies in Secondary School (2 cr, †69A-69B; prereq 69A, ¶69)
IX-X MW, PeikH 175, Beery

69J Student Teaching: Social Studies Juniors (1 cr; prereq jr, ¶Ed 55A or B)
VIII W and ar (on-campus) PeikH 166, Beery, others

70 **Student Teaching: Modern Languages** (3 or 6 cr, †9 cr; prereq sr, ¶70B)
—1, IX-X M and ar (off-campus) PeikH 215, Ronken, others
—2, VIII-IX F and ar (on-campus) PeikH 225, Lange, others

70A Teaching Modern Languages (3 cr, †70A-70B; prereq sr, ¶70)
VIII-IX TTh, PeikH 225, Lange

70B Teaching Modern Languages (2 cr, †70A-70B; prereq 70A, ¶70)
VIII-IX TTh, PeikH 215, Birkmaier

71 Student Teaching: Latin (3-9 cr, †9 cr; prereq sr, ¶71B)
IX-X M and ar (off-campus) PeikH 225, Ronken, others

71A Teaching Latin (3 cr, †71A-71B; prereq sr, ¶71)
VIII-IX TTh, PeikH 215, Lange

71B Teaching Latin (2 cr, †71A-71B; prereq 71A, ¶71)
VIII-IX TTh, PeikH 215, Birkmaier

72 Student Teaching: Distributive Education (3-9 cr, †9 cr; prereq Ed 55B, ♯)
VI-VII F and ar, Bu 105, Ashmun

73 Student Teaching: Business Subjects (3-9 cr, †9 cr; prereq Ed 55B, ♯)
5:00-6:30 M, JohH 106, Hopkins

74 Teaching Journalism (3 cr; prereq Jour 41 or 51)
VIII MWF, MurH 302, Hvistendahl

75 **Student Teaching: Language Arts** (3 or 6 cr, †9 cr; prereq sr, ¶75A or B)
—1, IX-X M and ar (off-campus) Ronken, others
—2, Ar (on-campus) Kemp, others

75A Teaching Language Arts in Secondary School (3 cr, †75A-B-C-D; prereq sr, ¶75)
VIII MWF, PeikH 265, Bacig

75B **Teaching Language Arts in Secondary School** (1 cr, †75A-B-C-D; prereq 75A)
—1, I MW, FolH 305½, Piche
—2, VIII-IX W, PeikH 275, Kemp

77 Student Teaching: Nursery School (1-6 cr)
IX-X M and ar, CD 105

78 Student Teaching: Kindergarten (6 cr)
4:30-6:00 M and ar

79 Student Teaching: Primary Grades (6 cr)
4:30-6:00 M and ar

81 Teaching Shorthand (2 cr; prereq Ed 55B or ¶)
VIII-IX TTh, FolH 108, Hopkins

84 Practice, Field Work in Recreation Leadership (2 or 4 cr; prereq jr, recr ,maj)
I T, CH 206, 6 hrs ar, Giles, Scott

85 Practice, Field Work in Recreation (1 or 2 or 4 cr; prereq sr, rec maj or min)
V W, CH 206, 3 hrs ar min, 6 hrs ar maj, Giles, Scott

90B Teaching Distributive Education Subjects (2 cr, †90A-90B-90C; prereq 90A)
VII TTh, Bu 105, Ashmun

MUSIC EDUCATION (MuEd)

4 **Applied Instrumental Technique** (2 cr; prereq mus educ maj or ‡)
I MTWTh, MusEd 200, Sieber

5 **Applied Instrumental Technique** (2 cr; prereq mus educ maj or ‡)
VI MTWTh, MusEd 101, Prescott

6 **Applied Instrumental Technique** (2 cr; prereq mus educ maj or ‡)
VII MTWTh, MusEd 101, Prescott

7 **Applied Instrumental Technique** (2 cr; prereq 4, mus ed maj, ‡)
III TWThF, MusEd 104, Sieber

8A **Instrumental Technique** (1 cr; prereq mus educ maj or ‡)
I MW, MusEd 101, Prescott

8B **Instrumental Technique** (1 cr; prereq 8A)
I TTh, MusEd 101, Prescott

10A **Instrumental Technique** (1 cr; prereq 6)
II MW, MusEd 101, Prescott

10B **Instrumental Technique** (1 cr; prereq 10A)
II TTh, MusEd 101, Prescott

20 Educators Chorus (1 cr; prereq mus maj or min in educ)
II MWF, NMA 4, Caswell

50B Teaching Music in Interm, Jr High Grades (2 cr; prereq 50A, ‡)
III MWF, ScH 104, Borg

51 **Teaching Music: Kindergarten, Primary Grades** (2 cr; prereq Mus 4)
—1, I MWF, WuH 320, Nyberg
—2, II MWF, ScH 104, Nyberg
—3, III MWF, ScH 103, Coleman
—4, V MWF, ScH 104, Borg
—5, VII MWF, ScH 103, Swanson
—6, VIII MWF, ScH 104, Nyberg

52 **Teaching Music: Interm Grades** (2 cr; prereq 51, Mus 4 or ‡)
—1, I MWF, NMA 4, Swanson
—2, III MWF, NMA 4, Swanson
—3, VI MWF, ScH 104, Dickinson
—4, VII MWF, WuH 320, Coleman

61 Student Teaching, Supervision (3-12 cr; prereq sr, 53, Ed 55B, ‡)
IX-X W, ScH 104, Borg, Caswell

68 Teaching Instrumental Music (3 cr; prereq ‡)
IV MWF, ScH 103, Byrne

69 Instrumental Literature, Conducting (1 or 2 cr)
VI TWTh, NMA 5, Bencriscutto

124 Selection, Conducting of Choral Materials (3 cr; prereq sr)
V MWF, NMA 4, Caswell

125 Selection, Instrumental Music Materials (3 cr; prereq sr)
IX-X Th, ScH 103, Mayer

224 Research Probs (3-9 cr; prereq elem stat)
VIII W, ScH 214, Borg, Caswell

252 Seminar: Curriculum Development (3 cr; prereq 251)
IX-X T, ScH 103, Borg, Caswell

PHYSICAL EDUCATION

For Facilities Fee See Page 115

Undergraduate Courses for Men (PEM)

Nonprofessional Courses

1B **Courses Open to Men Only** (1 cr)
Adapted Activities (activity rating 1, 2, 3, 4, 5)
—1, III MWF, StadSouth 264, Osell
—2, IV MWF, StadSouth 264, Osell
—3, VIII MWF, StadSouth 264, Osell
Archery, Bgn (activity rating 1, 2, 3)
—4, I MWF, FieldHse, Gostick
—5, II MWF, FieldHse, Gostick
Badminton, Volleyball (activity rating 1, 2)
—6, II MWF, CH Gym, Desmond
—7, III MWF, CH Gym, DeSchriver
Basketball, Bgn (activity rating 1, 2)
—8, 8:15-9:25 TTh, CH Gym, Finstad
—9, II MWF, FieldHse, Finstad
—10, 9:30-10:45 TTh, CH Gym, Weingarten
—11, IV MWF, Gym (StP Campus) Nowotny
—12, V MWF, CH Gym, Walsh
Bowling, Bgn (activity rating 1, 2, 3)
—13, I MWF, CMU, Hunt
—14, II MWF, CMU, Hunt
Conditioning (activity rating 1, 2)
—15, III MWF, FieldHse, Gostick
—16, VII MWF, FieldHse, Annis, Bird
—17, VIII MWF, FieldHse, Annis, Torpey
—18, 12:50-2:00 TTh, FieldHse, Weingarten

Diving (activity rating 1)
—19, VI MWF, CH Pool, Walker
Golf (activity rating 1, 2, 3)
—20, II MWF, StadSouth 267, Tutt
—21, III MWF, StadSouth 267, Bolstad
—22, IV MWF, StadSouth 267, Bolstad
—23, VI MWF, StadSouth 267, Bolstad
—24, VII MWF, StadSouth 267, Bolstad
Gymnastics (activity rating 1, 2)
—25, VI MWF, CH AppGym, Bird
Handball (activity rating 1, 2)
—26, VII MWF, Gym (StP Campus), Serfass
Handball, Paddleball (activity rating 1, 2)
—27, II MWF, StadNorth, Marshall
—28, III MWF, StadNorth, Walsh
Judo, Bgn (activity rating 1, 2)
—29, 12:15-1:20 MW, StadNorth 205, Dorey
—30, 2:15-3:20 MW, StadNorth 205, Dorey
Karate (activity rating 1, 2)
—31, 12:15-1:20 TTh, CH Gym, Bird, Hyon
Officiating, Basketball, Volleyball (activity rating 1, 2)
—32, I TTh and ar, CH 214, B Anderson
Swimming, Bgn (activity rating 1)
—33, III MWF, CH Pool, Desmond
—34, VI MWF, CH Pool, Desmond
Tennis, Bgn (activity rating 1, 2)
—35, VI MWF, CH Gym, Walsh
Volleyball, Bgn (activity rating 1, 2)
—36, III MWF, Gym (StP Campus) Nowotny
Weight Training (activity rating 1, 2)
—37, V MWF, StadSouth 264, Weingarten
—38, VI MWF, StadSouth 264, Torpey
—39, VII MWF, StadSouth 264, DeSchriver
Wrestling, Bgn (activity rating 1, 2)
—40, 10:15-11:20 TTh, StadNorth 207, DeSchriver
Freshman Basketball
—41, Ar, Hanson
Freshman Gymnastics
—42, Ar, Bird
Freshman Ice Hockey
—43, Ar, Sonmor
Freshman Swimming
—44, Ar, Mowerson
Freshman Wrestling
—45, Ar, Johnson

1B Courses Open to All Men and Women
Archery, Bgn (activity rating 1, 2, 3)
—46, I MWF, Gym (StP Campus) Prowdzik
Badminton, Bgn (activity rating 1, 2)
—47, 10:15-11:20 TTh, Gym (StP Campus)
Bowling, Bgn (activity rating 1, 2, 3)
—48, II MWF, StCen (StP Campus) Prowdzik
—49, 9:15-10:20 TTh, StCen (StP Campus)
Curling, Bgn (activity rating 1, 2, 3)
—50, 2:30-3:30 TTh, CH 206, Donnelly
Dance, Ballroom, Bgn (activity rating 1, 2, 3)
—51, 10:15-11:20 TTh, NGW 151
—52, 1:15-2:20 TTh, NGW 151
Dance, Folk and Square, Bgn (activity rating 1, 2)
—53, 9:15-10:20 TTh, NGW 151
Dance, Modern, Bgn (activity rating 1, 2)
—54, III MWF, NGW 151
Fencing, Bgn (activity rating 1, 2)
—55, 12:15-1:20 TTh, NGW 60
Figure Skating, Bgn (activity rating 1, 2)
—56, II MWF, NGW 3
Ice Skating, Bgn (activity rating 1, 2)
—57, II MWF, NGW 3
—58, III MWF, NGW 151
—59, VI MWF, WmsA, Schleisman
—60, 9:15-10:20 TTh, WmsA, Sonmor
Skiing, Bgn, Interm (activity rating 1, 2)
—61, 3:15-4:15 TTh, CH 215, Dorey
Swimming, Bgn, Adv-Bgn (activity rating 1)
—62, VI MWF, Gym (StP Campus), Serfass

2B Courses Open to Men Only (1 cr)
Bowling, Interm (activity rating 1, 2, 3) (prereq Bgn Bowling or 150 avg)
—1, I-II TTh, CMU, Hunt
Life Saving (activity rating 1) (prereq ARC swimmer test)
—2, III MWF, CH Pool, Walker
Swimming, Interm (activity rating 1) (prereq swim 25 yds)
—3, II MWF, CH Pool, Walker
Water Safety Instructor (activity rating 1) (2 cr; prereq ARC Senior Life Saving)
—4, V-VI TTh, CH Pool, Mowerson
Varsity Basketball
—5, Ar, Kundla
Varsity Gymnastics
—6, Ar, Piper
Varsity Ice Hockey
—7, Ar, Sonmor
Varsity Swimming
—8, Ar, Mowerson

Varsity Wrestling
—9, Ar, Johnson

2B Courses Open to All Men and Women (1 cr)
Dance, Modern, Interm (activity rating 1, 2) (prereq Bgn Modern Dance)
—10, II MWF, NGW 151
Dance, Modern, Adv (activity rating 1, 2) (prereq Interm Modern Dance)
—11, VII MWF, NGW 151
Fencing, Interm (activity rating 1, 2) (prereq Bgn Fencing)
—12, 1:15-2:20 TTh, NGW 60
Figure Skating, Interm (activity rating 1, 2) (prereq Bgn Figure Skating)
—13, III MWF, NGW 151
Ice Dancing (activity rating 1, 2) (prereq Bgn Figure Skating)
—14, IV MWF, NGW 153

Professional Courses

4A Football Fundamentals (1 cr)
2:05-3:05 TTh, CH 215, Nash

5B Gymnastics (1 cr)
2:05-3:05 TTh, CH AppGym, Bird, Weingarten

6B Intramural Sports: Hockey, Handball, Squash (1 cr)
12:55-1:55 TTh, CH 215, Piper, Walsh, Sonmor

6C Aquatics (1 cr; prereq swim 50 yds in 45 seconds)
10:25-11:25 TTh, CH Pool, Mowerson

7B Wrestling (1 cr)
9:15-10:15 TTh, StadNorth 207, DeSchriver, Johnson

9A Fundamental Rhythms (1 cr)
11:15-12:30 TTh, NGW, Dietz, Ostrander

60B Athletic Training Lab (1 cr; prereq 60A)
I Th and ar, CH Training Room, Marshall, Stein

65 Adapted Physical Education (3 cr; prereq 51, Anat 27)
II MWF, CH 206, Osell

69 Track Coaching (2 cr; prereq 4C)
IV MWF, CH 215, Griak

71 Physiological Application to Sports (3 cr, §PubH 91, 92; prereq 50 or Anat 27)
4:00-6:00 M, CH 206, Serfass

75 Student Teaching (3 or 6 cr, †9 cr; prereq 55, Ed 55B)
I or V F, CH 215, Ostrander, Torpey, Walsh

76 Student Teaching (9 cr, §75; prereq 55, Ed 55B)
I or V F, CH 215, Ostrander, Torpey, Walsh

77 Student Teaching for Coaching Certificate (3 cr; prereq sr)
I or V F, CH 215, Ostrander, Torpey, Walsh

Undergraduate Courses for Women (PEW)

For Facilities Fee See Page 115

(First Class Meeting in Norris Gym, except StP Classes)

B Courses Open to Women Only
Aquatics (activity rating 1)
Swimming, Bgn
—1, VI MWF, NGW 51 (1 cr)
Swimming, Adv-Bgn
—2, 2:15-3:20 TTh, NGW 51 (1 cr)
Swimming, Interm
—3, VII MWF, NGW 58 (1 cr)
Swimming, Adv, Diving
—4, IV MWF, NGW 58 (1 cr)
ARC Sr Life Saving
—5, V MWF, NGW 58 (1 cr; ability to swim 440 yards)
Water Safety Instructors Course
—6, 10:15-12:20 TTh, NGW 58 (2 cr; prereq current senior life saving certificate)
—7, 1:15-3:20 TTh, NGW 58 (2 cr)
Gymnastics
Posture, Individual Exercise (activity rating 1, 2, 3)
—8, I MWF, NGW 153A (1 cr)
—9, IV MWF, NGW 153A (1 cr)
—10, VI MWF, NGW 153A (1 cr)
—11, 11:15-12:20 TTh, Gym 100 (StP Campus) (1 cr)
Conditioning Exercises (activity rating 1, 2)
—12, 8:15-9:20 TTh, NGW 153 (1 cr)
—13, 11-15-12:20 TTh, NGW 153 (1 cr)
—14, 12:15-1:20 TTh, NGW 153 (1 cr)
Stunts, Tumbling, Free Exercise (activity rating 1, 2)
—15, V MWF, NGW 153 (1 cr)
Adapted Activities (activity rating 4)
—16, 1:15-2:20 TTh, NGW 153 (1 cr)
Individual, Dual Sports

Archery, Bgn (activity rating 1, 2, 3)
—17, VI MWF, NGW 60 (1 cr)
—18, VII MWF, NGW 60 (1 cr)
Archery, Interm (activity rating 1, 2, 3)
—19, 2:15-3:20 TTh, NGW 60 (1 cr; prereq Bgn Archery)
Badminton, Bgn (activity rating 1, 2)
—20, II MWF, NGW 60 (1 cr)
—21, IV MWF, NGW 60 (1 cr)
—22, V MWF, NGW 60 (1 cr)
—23, 11:15-12:20 TTh, NGW 60 (1 cr)
Badminton, Interm (activity rating 1, 2)
—24, 10:15-11:20 TTh, NGW 60 (1 cr; prereq Bgn Badminton)
Bowling, Bgn (activity rating 1, 2, 3)
—25, III MWF, NGW 151 (1 cr)
—26, IV MWF, NGW 153 (1 cr)
—27, 10:15-11:20 TTh, NGW 153 (1 cr)
Bowling, Interm (activity rating 1, 2, 3)
—28, 9:15-10:20 TTh, NGW 201 (1 cr; prereq Bgn Bowl)
Riflemarksmanship (activity rating 1, 2, 3)
—29, 2:15-3:20 TTh, NGW 201 (1 cr)
—30, 3:15-4:20 TTh, NGW 201 (1 cr)
Social Games, Mixers (activity rating 1, 2, 3)
—31, 1:15-2:20 TTh, NGW 153 (1 cr)

Teamsports
Basketball, Bgn (activity rating 1, 2)
—32, I MWF, NGW 151 (1 cr)
Basketball, Interm (activity rating 1, 2)
—33, 10:15-11:20 TTh, NGW 153 (1 cr; prereq Bgn Basketball)
Volleyball, Bgn (activity rating 1, 2)
—34, IV MWF, NGW 151 (1 cr)
—35, 8:15-9:20 TTh, NGW 151 (1 cr)
Volleyball, Interm (activity rating 1, 2)
—36, V MWF, NGW 151 (1 cr; prereq Bgn Volleyball)

B Courses Open to Men and Women

Aquatics
Swimming, Bgn, Adv-Bgn
—37, VI MWF, Gy Pool (StP Campus) (1 cr)

Individual, Dual Sports
Archery, Bgn (activity rating 1, 2, 3)
—38, I MWF, Gy 100 (StP Campus) (1 cr)
Badminton, Bgn (activity rating 1, 2)
—39, 10:15-11:20 TTh, Gy 100 (StP Campus) (1 cr)
Bowling, Bgn (activity rating 1, 2, 3)
—40, II MWF, StCen (StP Campus) (1 cr)
—41, 9:15-10:20 TTh, StCen (StP Campus) (1 cr)
Curling, Bgn (activity rating 1, 2, 3)
—42, 2:30-3:30 TTh, CH 206 (1 cr)
Fencing, Bgn (activity rating 1, 2)
—43, 12:15-1:20 TTh, NGW 60 (1 cr)
Fencing, Interm (activity rating 1, 2)
—44, 1:15-2:20 TTh, NGW 60 (1 cr; prereq Bgn Fencing)
Skating, Bgn (activity rating 1, 2)
—45, II MWF, NGW 3 (1 cr)
—46, III MWF, NGW 151 (1 cr)
—47, VI MWF, WmsA (1 cr)
Skating, Figure, Bgn (activity rating 1, 2)
—48, II MWF, NGW 3 (1 cr)
Skating, Figure, Interm (activity rating 1, 2)
—49, III MWF, NGW 151 (1 cr; prereq Bgn Figure Skating)
Ice Dancing (activity rating 1, 2) (1 cr; prereq Bgn Figure Skating)
—50, IV MWF, NGW 153 (1 cr)
Skiing, Bgn, Interm (activity rating 1, 2)
—51, 3:15-4:15 TTh, CH 215 (1 cr)

Dance
Ballroom Dance, Bgn (activity rating 1, 2, 3)
—52, 10:15-11:20 TTh, NGW 151 (1 cr)
—53, 1:15-2:20 TTh, NGW 151 (1 cr)
Folk, Square Dance, Bgn (activity rating 1, 2)
—54, 9:15-10:20 TTh, NGW 151 (1 cr)
Modern Dance, Bgn (activity rating 1, 2)
—55, III MWF, NGW 151 (1 cr)
Modern Dance, Interm (activity rating 1, 2)
—56, II MWF, NGW 151 (1 cr; prereq Bgn Mod Dance)
Modern Dance, Adv (activity rating 1, 2)
—57, VII MWF, NGW 151 (1 cr; prereq Interm Modern Dance)

Professional Courses

20A **Badminton** (1 cr)
VIII MWF, NGW 60, Tenney

21A Basketball (1 cr)
VII-VIII TTh, NGW 151, 153, 153A, Boaz, Young

21B Rhythmic Fundamentals, Elem Folk Dance
11:15-12:30 TTh, NGW 151, Dietz

21D Posture, Functional Exercise (1 cr)
II MWF, NGW 153A, Cato

41A **Adv Aquatics** (1 cr)
—1, III MWF, NGW 58, Stoner
—2, VI MWF, NGW 58, Stoner

41B Officiating of Basketball (1 cr; prereq 21A)
II TTh, NGW 153, 153A, 1 hr ar, Gunderson

45 **Physical Education Activities for the Elem School** (2 cr; prereq elem educ maj only)
—1, III MWF, NGW 153, 153A, Lampe
—2, VII MWF, NGW 153, 153A, Cato
—3, VIII MWF, NGW 153, 153A, Lampe

46 **Water Safety Instructor's Course** (2 cr; prereq current ARC Certificate)
—1, III-IV TTh, NGW 58, Stoner
—2, VI-VII TTh, NGW 58, Eibner

58 The Intramural-Extramural-Interschool Sports Program (3 cr; prereq phys ed maj or min, jr)
4:00-5:00 MW, NGW 201, 1 hr ar, Gunderson

70 **Teaching Health, Physical Educ in Elem School** (3 cr, §Hlth 70; prereq 45, 3rd qtr soph, elem educ maj)
—1, III TTh, IV T, NGW 201, Hauptfuehrer
—2, VI MWF, NGW 201, Plack

76 Teaching of Creative Dance for Children (3 cr; prereq 40A)
4:00-5:00 MW, NGW 151, 1 hr ar, Mordine

88 Dance Composition (2 cr; prereq 87) Dietz, Mordine

90B Student Teaching in Jr High School (3 cr; prereq Ed 55A-B, maj, ¶90C)
II TTh, NGW 4 and ar, Hauptfuehrer, Slocum

90C Student Teaching in Sr High School (3 cr; prereq Ed 55A-B, maj, ¶90B)
II TTh, NGW 4 and ar, Hauptfuehrer, Slocum

90D Student Teaching in Elem School (3 cr; prereq Ed 55A-B, maj)
II TTh, NGW 4 and ar, Hauptfuehrer, Slocum

90E Adv Student Teaching (3 cr; prereq ‡)

91A **Physical Education for NKP** (3 cr; prereq NKP maj, 3rd qtr soph)
VI MWF, NGW 3, 153, Lampe

93 Student Teaching for Minors (3 cr; prereq Ed 55A-B, phys educ min) Hauptfuehrer

Professional Courses for Men and Women (PE)

82 Principles (3 cr; prereq sr)
VI MWF, CH 214, Richardson

101 Foundations of Physical Education (3 cr; prereq grad or MEd student)
11:15-12:30 MW, CH 214, McAdam

102 Curriculum (3 cr; prereq sr)
III MWF, NGW 3, Jaeger, others

118E Problems (ar cr; prereq MEd cand, ‡)

124 Supervision of School Health, Physical Education (3 cr, §Hlth 124; prereq ‡)
VI MWF, NGW 3, Jaeger, Slocum

130 Contributions of Basic Sciences (3 cr; prereq grad or ‡)
I-II S, NGW 4, Wilson

135 Tests, Measurements (3 cr; prereq grad or MEd, ‡)
4:15-5:30 MW, CH 214, McAdam

137 Readings: Physical Education (1-3 cr; prereq sr, honor, grad, ‡)

224A Research Probs (3 cr; prereq 136, EPsy 116 or ‡)
4:00-5:15 TTh, NGW 4, Wilson

224B Research Probs (ar cr; prereq 224A or ‡)

236 Lab Research Techniques (1-3 cr; prereq 136 or ¶)
VI-VII Th, CH 214, Alexander

RECREATION AND PARK ADMINISTRATION (Rec)

23 Recreation Leadership (3 cr)
I MWF, CH 215, Starr

52 **Leadership in Social Activities** (3 cr)
VI-VII TTh, StadSouth 264, Ostrander

58 **Leadership in Community Recreation** (3 cr; prereq 57)
II MWF, CH 215, Schultz

64A Leadership in Nature Recreation (2 cr; prereq 15 cr nat sci)
II TTh, CH 215, Chapman

107 Camp Admin (3 cr; prereq 46, ‡)
VI MWF, CH 206, Chapman, Osell, Ostrander

116 Community Recreation Resources, Organizations (3 cr; prereq 110, 111, 112)
III MWF, CH 215, Schultz

118E Problems (ar cr; prereq MEd cand, ‡) Anderson, Chapman, Schultz, Scott

137 Readings: Recreation (1-3 cr; prereq sr, honor, grad, ‡) Anderson, Chapman, Giles, Schultz, Scott

143 Programming Hospital Recreation (3 cr; prereq 141)
II MWF, CH 214, Chapman, Scott

224A Research Probs (3 cr; prereq PE 136, EPsy 116 or ‡) Anderson, Chapman

224B Research Probs (ar cr; prereq 224A or ‡) Anderson, Chapman

242 Community Organization for Recreation (3 cr; prereq ‡)
II-III Th, CH 214, Anderson

SCHOOL HEALTH EDUCATION (Hlth)

25 **ARC: Standard Adv First Aid** (2 cr)
—1, IV MWF, NGW 201, Young
—2, VII MWF, NGW 153, 201, Ost

70 **Teaching Health, Physical Education in the Elem School** (3 cr, §PEW 70; prereq PEW 45, 3rd qtr soph, elem educ maj)
—1, III TTh, IV T, NGW 201, Hauptfuehrer
—2, VI MWF, NGW 201, Plack

83 **Methods, Materials of School Health Education** (3 cr)
—1, III MWF, NGW 201, Slocum, Knutson
—2, III MWF, NGW 4, Slocum, Knutson

94 Student Teaching: School Health Education (2 cr; prereq sr, 83, ‡) Slocum

117B Adv Instruction in School Health for Secondary Schools (3 cr; prereq 83 or ‡)
III-IV S, NGW 4, 1 hr ar, Slocum

118E Problems (ar cr; prereq MEd cand, ‡) Slocum

124 Supervision of School Health, Physical Education (3 cr, §PE 124; prereq ‡)
VI MWF, NGW 4, Jaeger, Slocum

137 Readings: Health Education (1-3 cr; prereq sr, honor, grad, ‡) Slocum

224A Research Probs (3 cr; prereq PE 136, EPsy 116 or ‡)
4:00-5:15 TTh, NGW 4, Slocum

224B Research Probs (ar cr; prereq 224A or ‡) Slocum

GENERAL COLLEGE (GC)

1A **Individual Adjustment** (4 cr)
II-III TTh, ME 110, King

1B **Vocational Planning** (5 cr; prereq ‡ or cons couns)
I MTWThF, NH 216, Long

2A **Psychology in Modern Society** (5 cr)
—1, I MTWThF, NH 211, Borow, lab ar
—2, III MTWThF, NH 211, Pettman, lab ar
—3, VII MTWThF, NH 211, Eichinger, lab ar

2B **Fields of Applied Psychology** (5 cr; prereq 2A)
—1, II MTWThF, NH 211, Shapiro, lab ar
—2, V MTWThF, NH 211, Eichinger, lab ar

2C **Psychology of Human Development** (3 cr)
VIII MWF, NH 211, Latts

3A **Home Life: Marriage, Family Living** (5 cr)
—1, II MTWThF, WuH 230, Anderson
—2, III MTWThF, CD 218, Latts
—3, V MTWThF, WuH 230, Anderson

3B **Food Selection, Purchase** (3 cr)
V MWF, P 110

4 **Leisure Today** (3 cr)
IV MWF, CH 215

5A **Functions, Probs of Philosophy** (3 cr)
—1, II MWF, Arch 130, Kurak
—2, VII MWF, Arch 55, Pavlos

5B **Functions, Probs of Logic** (3 cr)
—1, I MWF, AE 225, Zanoni
—2, II MWF, AE 225, Pavlos
—3, IV MWF, AE 225, Pavlos
—4, VI MWF, ME 221, Kurak
—5, VIII MWF, AE 225, Kroiss

5C **Probs of Ethics** (3 cr)
—1, III MWF, Arch 130, Zanoni
—2, VI MWF, MH 213, Zanoni

5D **Man's Religious Beliefs** (3 cr)
V MWF, NH 213, Sheldon

6A **Science in Context: Weather, Climate** (5 cr)
II MTWThF, SciB 175, A Johnson, lab ar

7A **Physics** (5 cr)
—1, II MTWThF, Ph 133, Rassweiler
—2, VI MTWThF, Ph 170, Policoff

7B **Astronomy** (5 cr)
IV MTWThF, Ph 170, Policoff, lab ar

7C **Chemistry** (5 cr)
—1, III MTWThF, SciB 175, Ario
—2, VII MTWThF, SciB 175, Ario

7D Geology (5 cr)
—1, I MTWThF, SciB 175, A Johnson, lab ar
—2, VI MTWThF, SciB 175, M Harris, lab ar

7F Historical Geology (5 cr; prereq 7D)
IV MTWThF, SciB 175, M Harris, lab ar

8A Applied Mathematics (5 cr)
—1, I MTWThF, NH 207, Chally
—2, I MTWThF, MinMet 116, Ekstrand
—3, III MTWThF, NH 207, Kroiss
—4, III MTWThF, MinMet 116, Ekstrand
—5, V MTWThF, NH 207, Lester
—6, V MTWThF, MinMet 124, Greenfield
—7, VIII MTWThF, NH 207, Cook
—8, VIII MTWThF, MinMet 124, Greenfield

8B Applied Mathematics (5 cr; prereq 8A)
—1, II MTWThF, MinMet 120, McCutcheon
—2, VI MTWThF, MinMet 120, Lester

9A Statistics (5 cr)
—1, II MTWThF, MinMet 116, Mandeville
—2, IV MTWThF, MinMet 116, Mandeville
—3, VI MTWThF, MinMet 116, Cook
—4, VIII MTWThF, MinMet 116, Giese

9B Basic Concepts in Mathematics (5 cr)
—1, II MTWThF, NH 207, Chally
—2, IV MTWThF, NH 207, Klippenstein
—3, VI MTWThF, NH 207, Denny
—4, VII MTWThF, NH 207, Denny

10A Prin of Biology (5 cr)
—1, II MTWThF, SciB 125, Dearden, lab ar
—2, VI MTWThF, SciB 125, Dearden, lab ar

10B The Human Body: Structure, Function, Health (5 cr)
—1, III MTWThF, SciB 125, Jefferson
—2, V MTWThF, SciB 175, Jefferson

11A Science in Context: Man, His Environment (5 cr)
VII MTWThF, SciB 125, Owen

11B Science in Context: Utilization of Natural Resources (5 cr, §old 38B)
IV MTWThF, SciB 125, Owen

12A Lab Biology (1 cr; prereq 10A)
—1, I-II M, FolH 125, Liston
—2, IV-V M, FolH 125, Liston
—3, II-III T, FolH 125, Liston
—4, IV-V T, FolH 125, Liston
—5, VII-VIII T, FolH 125, Liston
—6, I-II W, FolH 125, Liston
—7, III-IV W, FolH 125, Liston
—8, VI-VII W, FolH 125, Liston

15 Intro to Modern Business (5 cr, §19A, 65f, 66w, 66s)
—1, Lect II TTh, Arch 25, Kroll
—2, Lect VII TTh, Arch 25, Kroll
—1, I MWF, NH 209A, Rian
—2, II MWF, NH 209A, Kroll
—3, III MWF, NH 209A, Kroll
—4, V MWF, NH 209A, Rian
—5, VI MWF, NH 209A, Rian
—6, VII MWF, NH 209A, Pung

16 Accounting Fundamentals (5 cr, §16A-B)
—1, I MTWThF, FolH 110, R Larson
—2, IV MTWThF, FolH 110, Berger
—3, V MTWThF, FolH 110, R Larson
—4, VI MTWThF, FolH 110, Donnelly

17 Consumer Probs (5 cr, §17A or 17B)
Lect II MWF, AE 209, Berger
—1, II TTh, NH 209A, Gerachty
—2, III TTh, NH 209A, Folz
—3, V TTh, NH 209A, Gerachty
—4, VII TTh, NH 209A, Gerachty

18B Retailing, Selling (5 cr; prereq 18A or ♯)
Lect I M, FraH 120, Ludlow
—1, I-II TTh, Bu 105, Ludlow
—2, III-IV TTh, Bu 105, Ludlow

18D Salesmanship (3 cr)
Lect V W, Arch 145, Goodenough
—1, V MF, Arch 145, Goodenough
—2, V TTh, Arch 45, Goodenough

19A Probs of Business Transactions (5 cr)
—1, I MTWThF, C 111, Folz
—2, V MTWThF, ME 221

19B Probs of Investment Transactions (3 cr; prereq 19A)
III MWF, Arch 60, Folz

20A Practical Law (5 cr)
—1, II MTWThF, FolH 110, Hower
—2, V MTWThF, MurH 311
—3, VIII MTWThF, FolH 110, Donnelly

20B Law in Society (5 cr)
—1, III MTWThF, ME 221, Gerachty
—2, VII MTWThF, ME 221, Hower

21 Gen Arts (3 cr)
—1, II MWF, NH 111, Stokes
—2, III MWF, NH 111, Gates
—3, V MWF, NH 111, Byrne
—4, VIII MWF, NH 111, MacInnes

22B Art Today (3 cr)
IV MWF, NH 111, Safer

23A Art Lab (3 cr)
—1, I-II MW, NH 102, 1 hr ar, K Johnson
—2, I-II TTh, NH 102, 1 hr ar, Heap
—3, III-IV WF, NH 102, 1 hr ar, K Johnson
—4, V-VI TTh, NH 102, 1 hr ar, Logan
—5, VI-VII MW, NH 102, 1 hr ar, Marvy

23B Commercial Art (3 cr)
—1, III-IV TTh, NH 102, MacInnes
—2, VII-VIII TTh, NH 102, Gates

24B Music Today: Vocal, Its Texts (3 cr)
—1, I MWF, NH 111, Byrne
—2, VI MWF, NH 111, MacInnes
—3, 12:45-2:00 TTh, NH 111, Stokes

25A Music Lab: Materials of Music (3 cr; prereq ♯)
—1, VII MWF, NH 111, Byrne
—2, 9:45-11:00 TTh, NH 111, Stokes

26A Photography (3 cr)
VI-VIII T, VI-VII Th, J 2, Wilcox

28A French Language, Civilization (5 cr)
Lect II TTh, JohH 122, Keeler
—1, II MWF, NH 216, Keeler
—2, VII MWF, NH 216, Keeler

29A World Literature I (5 cr)
—1, I MTWThF, ForH 155, Wyvell
—2, III MTWThF, NH 213, Wyvell
—3, VIII MTWThF, NH 213, Kivits

29B World Literature II (5 cr)
—1, II MTWThF, NH 213, Burrows
—2, VI MTWThF, NH 213, Finnberg

29D Contemporary Books, Periodicals (5 cr)
IV MTWThF, NH 213, Finnberg

29E Reading Short Stories (3 cr)
VII MWF, NH 213, Sheldon

29G Literature of the Theater: Film, Drama (4 cr)
V-VI TTh, ScH 108, Burrow

29I Reading Novels (3 cr)
V MWF, Bo B6, Rathburn

30A Reading, Vocabulary Development (5 cr)
—1, Lect IV MWF, Arch 30, **CCTV**, Sartain
Lab III TTh, FolH 102, Sartain
—2, Lect IV MWF, Bu 123, **CCTV**, Sartain
Lab VI TTh, FolH 102, Sartain
—3, VI MTWThF, NH 216, Nielsen

30B Fundamentals of Usage, Style (3 cr)
VII MTWTh, Ph 170, Kivits

31A Writing Lab: Personal Writing (3 cr)
—1, I-II M, I WF, NH 209, Lyon
—2, II-III M, II WF, NH 122, Finnberg
—3, II-III TTh, NH 216, Reisman
—4, II-III WF, NH 209, Kirchner
—5, III-IV M, III WF, NH 216, Warren
—6, III-IV M, IV WF, FolH 102, Sweet
—7, IV-V M, V WF, NH 201, Lyon
—8, IV-V M, V WF, NH 122, Woehrer
—9, IV-V WF, NH 216, Wanhala
—10, V-VI M, V WF, FolH 109, Gerstein
—11, VII-VIII TTh, FolH 109, Warren
—12, VII-VIII TTh, NH 201, Wanhala

31B Writing Lab: Organizing Ideas (3 cr; prereq 31A)
—1, I-II M, I WF, FolH 102, Elsenpeter
—2, I-II TTh, NH 209, Gerstein
—3, I-II TTh, FolH 102, Fry
—4, III-IV TTh, NH 201, Nielsen (for DA students only)
—5, III-IV TTh, NH 122, Wanhala
—6, IV-V TTh, NH 216, Lindsey
—7, V-VI M, V WF, FolH 102, Gillespie
—8, V-VI TTh, NH 122, Hoke
—9, V-VI TTh, NH 201, Fry
—10, V-VI TTh, FolH 109, Sweet
—11, VI-VII WF, FolH 102, Hoke
—12, VI-VII WF, NH 209, Warren
—13, VII-VIII TTh, NH 216, Woehrer
—14, VII-VIII TTh, FolH 102, Lindsey
—15, VII-VIII TTh, NH 209, Gillespie

31C Writing Lab: Communicating in Society (3 cr; prereq 31B)
—1, I-II TTh, JohH 106, Sweet
—2, III-IV TTh, NH 209, Hardie
—3, IV-V TTh, FolH 102, Lyon
—4, VI-VII WF, FolH 109, O'Neill
—5, VII-VIII TTh, NH 122, Hardie

31D Writing Lab: Business Writing (3 cr; prereq 31A...31B rec)
—1, I-II TTh, NH 201, Sheldon (for DA students only)
—2, III-IV WF, NH 201, O'Neill

31E Writing Lab: Individual Writing (3 cr; prereq 31A, ♯)
III-IV TTh, FolH 109, Elsenpeter

32A Oral Communication: Basic Prin (3 cr)
—1, I MWF, NH 107, Thiel
—2, I MWF, NH 122, Hagen
—3, III MWF, NH 107, Amram
—4, V MWF, NH 107, Brookbank
—5, VI MWF, NH 201, Hagen (for DA students only)
—6, VI MWF, NH 122, Nelson
—7, VII MWF, NH 107, Amram
—8, VIII MWF, NH 107, Thiel

32B Oral Communication: Language, Speech Style (3 cr; prereq 32A)
—1, II MWF, NH 107, Nelson
—2, VI MWF, NH 107, Thiel

32C Oral Communication: Speech Organization (3 cr; prereq 32A)
III-IV TTh, NH 107, Brookbank

32D Oral Communication: Group Discussion (3 cr; prereq 32A)
I-II TTh, NH 107, Amram

33B Oral Communication: Creative Speech Activities (3 cr; prereq 32A, ♯)
V-VI TTh, NH 107, Hagen

34 Creative Problem Solving (4 cr)
Lect V MTW, Arch 40, Amram
—1, V Th, Arch 40, Amram
—2, V F, Arch 40, Amram

38A Geography (5 cr)
I MTWThF, NH 213, Steinhauser

39 Intro to Cultural Anthropology (3 cr)
—1, IV MWF, AE 209, Holsteen
—2, VI MWF, AE 209, Holsteen

40 Probs of Contemporary Society (5 cr)
II MTWThF, Arch 5, McCune

41A Man in Society: His Personal Role (5 cr)
—1, I MTWThF, JohH 122, Shaw
—2, I MTWThF, JohH 114, Schafer
—3, II MTWThF, MurH 420, Kamerman
—4, III MTWThF, MurH 420, Kamerman
—5, III MTWThF, A12, Schafer
—6, V MTWThF, JohH 114, Robins
—7, VI MTWThF, Bu 120, T Harris
—8, VIII MTWThF, A 116, Robins

41B Man in Society: His Organizational Role (5 cr; prereq 41A)
—1, II MTWThF, AH 350, Appleby
—2, III MTWThF, AH 350, F Harris
—3, VI MTWThF, AH 350

42A Economic Perspectives (5 cr)
—1, V MTWThF, Arch 5, Cline
—2, VI MTWThF, Arch 5, Cline

43A Background of Modern World (5 cr)
—1, VI MTWThF, Arch 25, Jones
—2, VIII MTWThF, Arch 135, Jones

43B Biography (3 cr)
—1, IV MWF, Arch 145, Buckley
—2, VI MWF, Arch 10, Buckley

43C The Far East (5 cr)
V MTWThF, C 325, Garnham

44B Current History: Latin American Relations (3 cr)
III MWF, Arch 40, T Harris

45A Growth of American Democracy (5 cr)
II MTWThF, MMA 125, Buckley

45B Impact of Science, Technology on American History (5 cr)
IV MTWThF, NH 211, McCune

45C Minnesota History (5 cr)
I MTWThF, ForH 130, Moen

46A Functions of Govt (5 cr)
—1, III MTWThF, Ph 131, Hathaway
—2, VI MTWThF, C 325, Hathaway

46D Probs of Intl Relations (5 cr)
III MTWThF, ChE 240, Shaw

LAW SCHOOL (Law)

101 Contracts (3 cr)
—1, III MTW, FraH B1, Bryden
—2, III MTW, FraH 20, Kinyon
—3, III MTW, FraH 120, Dole, Hamilton

102 Criminal Law, Procedure (3 cr)
—1, I MTW, FraH 101, Livermore
—2, IV WThF, FraH 102, Pirsig

106 Legal Research (3 cr) Greene

107 Property I (3 cr)
—1, VI MTW, FraH 101, Stein
—2, VI WTh, I F, FraH 102, Smith, Waterbury
—3, VI MTF, FraH B1, Hogg, Smith

108 Torts (3 cr)
—1, IV T, III ThF, FraH 102, Livermore
—2, IV T, III ThF, FraH 101, Morris
—3, IV T, III ThF, FraH B1, Dobbs

109 Intro to Procedure (3 cr)
—1, I MTW, FraH 20, Cound
—2, VII MTW, FraH 102, Dobbs, Hetland
—3, I MTW, FraH B1, Wolfram

110 Constitutional Law (3 cr)
—1, VIII TWTh, FraH 102, Lewis
—2, VIII MTW, FraH 101, Auerbach
—3, I MTW, FraH 102, Lockhart

119 Seminar: Real Estate Planning (3 cr)
IX W, FraH 223, Graven, Joseph, Stein

123 Private Corporations (5 cr)
VI MTW, FraH 120, Hamilton

123A Corporations I (3 cr)
VI TF, FraH 102, VI W, FraH B1, Morris

124 Real Estate Transactions (5 cr)
VII MTWThF, FraH B1, Graven

126 Sales (3 cr)
—1, VII MTW, FraH 120, McClure
—2, VII MTW, FraH 101, Kinyon

128 Taxation I (4 cr)
II MTWTh, FraH 101, Waterbury

130 Law Review (3 cr)

131 International Commercial Transactions Seminar (3 cr)
IX M, FraH 223, Hogg

132 Restitutions, Damages (3 cr)
V MT, VI Th, FraH B1, Bryden

133 Business Planning I (3 cr)
VI MTW, FraH 20, Scallen

135 Modern Social Legislation Seminar (2 cr)
IX T, FraH B1, Levy, Lewis

140 Admin Law (5 cr)
II MTW, FraH 20, Auerbach

142 Conflicts (4 cr)
VII MTWTh, FraH 20, Cound

144 Seminar: Criminal Law (3 cr)
VIII Th, FraH 237, Clendenen, Pirsig

155A Labor Law II (3 cr)
V T, III ThF, FraH 20, Lewis

157 Standards of Legal Profession (2 cr)
I ThF, FraH 101, Pirsig

159 Local Government Law (3 cr)
V WThF, FraH 20, Hagman

163 Practice (3 cr)
—1, III MTW, FraH 101, Graven
—2, III MTW, FraH 102, Hetland

173 Taxation II (3 cr; prereq 123, 128)
I W, FraH 120, II ThF, FraH 20, Scallen

175 International Law (4 cr)
IV MTWTh, FraH 20, Hogg

190 Comparative Law (4 cr)
VIII MTWTh, FraH B1, Greene

192 Seminar: Divorce Counseling (3 cr)
VIII Th, FraH 225, 226, Levy

COLLEGE OF LIBERAL ARTS

AMERICAN STUDIES (AmSt)

91 Proseminar (3 cr; prereq 90)
VIII-IX W, VH 125, Griffin

201 **Introduction** (3 cr; prereq 200)
—1, VIII-IX T, ForH 175, Kwiat
—2, VIII-IX W, CB 440, Sibley

212 Seminar (3 cr; prereq 211)
VII-VIII W, SocSci 633, Noble

241 Materials for Study of American Civilization (3 cr; prereq 240)
VIII-IX M, VH 6, Turpie

ANTHROPOLOGY (Anth)

2A **Intro to Cultural Anthropology** (5 cr)
—1, Lect II MTWF, NH 45, Spencer
—2, Lect V MWThF, NH 45, Spencer
—3, Lect IX MWThF, Arch 45, Bu 120, SciB 125, Spencer
—4, Lect II MTWF, AgEng 108 **(StP Campus)**
—1, II T, ForH 50
—2, II T, ChE 40
—3, II T, ForH 30
—4, II T, ForH 170
—5, III T, Arch 145
—6, III T, Bu 125
—7, III T, ForH 30
—8, III T, ForH 170
—9, IV T, Arch 145
—10, IV T, Arch 140
—11, IV T, ForH 30
—12, IV T, ForH 170
—13, VI T, E 340
—14, VI T, ME 106
—15, VI T, ForH 175
—16, VI T, ForH 170
—17, VII T, C 115
—18, VII T, Bu 125
—19, VII T, ForH 30
—20, VII T, ForH 170
—21, VIII T, ForH 60
—22, VIII T, Bu 105
—23, VIII T, ForH 30
—24, VIII T, ForH 170
—25, III Th, ME 208
—26, III Th, Arch 45
—27, III Th, ForH 30
—28, III Th, ForH 170
—29, IV Th, Arch 145
—30, IV Th, Arch 140
—31, IV Th, ForH 30
—32, IV Th, ForH 170
—33, VI Th, Owre 117
—34, VI Th, E 340
—35, VI Th, For H 175
—36, VI Th, ForH 170
—37, VII Th, Arch 145
—38, VII Th, ME 302
—39, VII Th, ForH 30
—40, VII Th, ForH 170

90 **Archaeology of North America** (3 cr; prereq 1A)
9:45-11:00 TTh, ForH 155, Adams

100 **Prin of Cultural Anthropology** (3 cr, §2A)
VII MWF, ForH 55, Salovesh

101 **Prin of Bio-cultural Evolution** (3 cr, §1A)
IV MWF, ForH 155, Johnson

120 Peoples, Cultures of Africa (3 cr; prereq 2A or 100)
2:15-3:30 TTh, ForH 155, Bender

121 Peoples, Cultures of the South Seas (3 cr; prereq 2A or 100)
V MWF, ForH 285, Kiste

124 Culture, Society in China, Japan (3 cr; prereq 2A or 100 or △)
VI MWF, ForH 285, Gerlach

137 Old World Prehistory: Europe, Near East, Africa (3 cr; prereq 90)
12:45-2:00 TTh, VH 205, Adams
151 Applied Anthropology (3 cr; prereq sr, 150 or △)
III MWF, ForH 285, Kiste
162 Comparative Technology (3 cr; prereq 2A or 100)
9:45-11:00 TTh, ForH 20, Krantz
163 Economic Anthropology (3 cr; prereq 2A or 100 or none for econ or bus admin maj)
II MWF, ForH 285, Gerlach
164 **Social Anthropology** (3 cr; prereq 2A or 100)
III MWF, ForH 155, Pelto
165 **Culture, Personality** (3 cr; prereq sr, 2A or 100 or △ or none for PubH, nurs, psy, soc, social work maj)
12:45-2:00 TTh, ForH 155, Sarles
173 Human Biology (3 cr; prereq 1A or 101 or △)
V MWF, ForH 130, Novak
178 Physical Anthropology (4 cr; prereq 177)
VI-VIII TTh, ForH 20, Krantz
180 Descriptive Linguistics (3 cr, †180-181; prereq △)
9:45-11:00 TTh, ForH 244, Sarles
200 Anthropology, Scientific Method (3 cr)
VII-VIII W, ForH 261, Spencer
221 Seminar: Ethnology (3 cr)
VII-VIII T, ForH 244, Hoebel
231 Seminar: Archaeology (3 cr)
VII-VIII F, ForH 15, Johnson
251 Seminar: Culture, Personality (3 cr)
VII-VIII M, ForH 261, Pelto

ART

Art History (ArtH)

1 **Principles** (5 cr, §50; prereq fr, soph)
Lect III MWF, NH 45, Torbert
—1, Lab I-II T, J 207A
—2, Lab II-III T, J 207B
—3, Lab III-IV T, J 207A
—4, Lab IV-V T, J 207B
—5, Lab V-VI T, J 207A
—6, Lab VI-VII T, J 207B
—7, Lab VII-VIII T, J 207A
—8, Lab I-II Th, J 207A
—9, Lab II-III Th, J 207B
—10, Lab III-IV Th, J 207A
—11, Lab IV-V Th, J 207B
—12, Lab V-VI Th, J 207A
—13, Lab VI-VII Th, J 207B
3 **Survey: History of Art** (3 cr, §57)
VI MWF, MNH Aud, Sheppard
4 **Survey: History of Art** (3 cr, §58)
V MWF, Arch 25, Thomas
87 **Art of the Film** (3 cr; prereq 86)
VIII-IX MW, VIII F, J 207A, Milgrom
101 **Later Greek Art** (3 cr; prereq 2, ‡)
II MWF, J 207B, McNally
107 **Early 15th Century Art in Italy, Northern Europe** (3 cr)
III MWF, J 207B, Canedy
112 **Art of Japan** (3 cr; prereq 3 cr art hist)
II MWF, J 207A, Poor
114 **16th Century Sculpture, Architecture** (3 cr)
V MWF, J 207B, Canedy
127 **18th Century Art in France** (3 cr; prereq sr, grad or ‡)
III MWF, J 207A, Thomas
137 **Art in United States** (3 cr; prereq sr, grad or ‡)
VI MWF, J 207B, Torbert
141 **Scandinavian Painting** (3 cr; prereq sr, grad or ‡)
I MWF, J 207A, Nelson
147 **Modern American, European Architecture** (3 cr; prereq sr, grad or ‡)
I MWF, J 207B, Tselos
156 **19th Century French Painting 1800-1860** (3 cr; prereq sr, grad or ‡)
IV MWF, J 207A, Waldfogel
159 **English Painting from 1750-1850** (3 cr; prereq sr, grad or ‡)
VII MWF, J 207A, Waldfogel
168 **Modern Sculpture from Rodin to Roszak: 1875-1960** (3 cr; prereq 3 cr art hist)
IV MWF, J 207B, Tselos
171 **Greek Painting** (3 cr; prereq 3 cr art hist)
VI MWF, J 207A, McNally
177 **20th Century Painting** (3 cr)
IV MWF, Arch 25, Simon
196 Readings: Art History, Criticism (3 cr; prereq sr, ‡)
197 Readings: Art History, Criticism (3 cr; prereq 196)
198 Readings: Art History, Criticism (3 cr; prereq 197)
241 Seminar: Studies in Scandinavian Art (3 cr; prereq ‡)
VIII M, J 202, Nelson
247 Twentieth Century Art: New Realism, 1958-1962
VIII W, J 202, Simon
286 Seminar: Oriental Art (3 cr; prereq ‡) Poor
295 Museology I (3 cr; prereq △) Simon, Sheppard
296 Museology II-III-IV-V (5 cr; prereq 295, △) Simon, Sheppard

297 Museology II-III-IV-V (5 cr; prereq 296) Simon, Sheppard

298 Museology II-III-IV-V (5 cr; prereq 297) Simon, Sheppard

299 Museology II-III-IV-V (5 cr; prereq 298) Simon, Sheppard

Studio Art (Art)

10 Photography (3 cr)
—1, I-II MWF, J 2, Lang
—2, III-IV MWF, J 2, Lang
—3, VI-VII MWF, J 2, Dean
—4, I-II TThS, J 2, Wilcox

11 Photography (3 cr; prereq 10 or prac exper, △)
III-IV TThS, J 2, Wilcox

20 Basic Drawing (3 cr; prereq 1 or ¶)
—1, I-II MWF, E 417A, Raid
—2, I-II MWF, ArtB 150, Routon
—3, III-IV MWF, ArtB 140, Routon
—4, VI-VII MWF, ArtB 140, Volpe
—5, VIII-IX MWF, ArtB 150, Raid
—6, VII-IX TTh, E 417A, Johnson

23 Drawing, Painting (3 cr; prereq 20)
—1, III-IV MWF, ArtB 141, Volpe
—2, III-IV TThS, ArtB 160, Howard
—3, VI-VIII TTh, ArtB 150, Priede
—4, I-II TThS, ArtB 150, Chaffey
—5, I-II MWF, ArtB 140, Rowan

24A Drawing, Painting for Architects I (2 cr; prereq 23A)
—1, I-III TTh, E 417A, Burg
—2, IV-VI TTh, E 417A, Burg
—3, I-III TTh, E 417, Johnson
—4, IV-VI TTh, E 417, Johnson

25 Drawing, Color (3 cr; prereq 23)
I-II TThS, ArtB 141, Howard

32 Elements of Printmaking (3 cr)
—1, I-II TThS, ArtB 170, Bethke
—2, III-IV TThS, ArtB 170, Bethke

33 Printmaking (3 cr; prereq 32)
—1, I-II TThS, ArtB 170, Bethke
—2, III-IV TThS, ArtB 170, Bethke

40 Basic Sculpture I (3 cr; prereq 1, ¶41)
—1, I-II MWF, HolB 154, Nash
—2, III-IV TThS, HolB 154, Sauls
—3, III-IV MWF, HolB 153, House
—4, VI-VII MWF, HolB 153, House

41 Basic Sculpture I (3 cr; prereq 40)
—1, III-IV MWF, HolB 154, Nash
—2, I-II TThS, HolB 154, Sauls

42 Basic Sculpture I (3 cr; prereq 41)
I-II MWF, HolB 153, House

45 Ceramic Processes (3 cr)
—1, I-II MWF, HolB 134, MacKenzie
—2, I-II TThS, HolB 134, Horning
—3, III-IV TThS, HolB 134, Horning
—4, VI-VIII TTh, HolB 134, Horning

51 Drawing (3 cr; prereq 23)
—1, I-II MWF, ArtB 160, Volpe
—2, V-VI MWF, ArtB 150, Busa
—3, IIII-IV TThS, ArtB 150, Chaffey
—4, VI-VIII TTh, ArtB 160, Howard

54 Drawing (3 cr; prereq 51)
—1, I-II MWF, ArtB 160, Volpe
—2, V-VI MWF, ArtB 150, Busa
—3, III-IV TThS, ArtB 150, Chaffey
—4, VI-VIII TTh, ArtB 160, Howard

55 Drawing (3 cr; prereq 54)
—1, I-II MWF, ArtB 160, Volpe
—2, V-VI MWF, ArtB 150, Busa
—3, III-IV TThS, ArtB 150, Chaffey
—4, VI-VIII TTh, ArtB 160, Howard

61A Drawing, Painting for Architects II (3 cr; prereq 60A)
—1, 6:00-9:00 pm MW, E 417, Raid
—2, 6:00-9:00 pm TTh, E 417A, Burg

70 Oil Painting (3 cr; prereq 55 or ♯)
—1, I-III MW, ArtB 151, Busa
—2, VI-VIII MW, ArtB 151, Routon

71 Oil Painting (3 cr; prereq 70)
—1, I-III MW, ArtB 151, Busa
—2, VI-VIII MW, ArtB 151, Routon

72 Oil Painting (3 cr; prereq 71)
—1, I-III MW, ArtB 151, Busa
—2, VI-VIII MW, ArtB 151, Routon

80A Direct Metal Sculpture, Construction (3 cr; prereq 41)
VI-VII MWF, HolB 154, Nash

80B Direct Carving in Stone, Wood (3 cr; prereq 42)
VI-VII MWF, HolB 154, Nash

80C Metal Casting of Sculpture (3 cr; prereq 42)
VI-VIII TTh, HolB 154, Sauls

81A Direct Metal Probs of Sculptural Expression, Organization in Relation to Architecture (3 cr; prereq 80A-B-C)
VI-VII MWF, HolB 154, Nash

81B Carving, Modeling, Assemblage of Sculpture Relating to Civic, Private Monuments, Buildings (3 cr; prereq 80A-B-C)
VI-VII MWF, HolB 154, Nash

81C Probs Concerned with Cast Metal Sculpture for Landscape Architecture (3 cr; prereq 80A-B-C)
VI-VIII TTh, HolB 154, Sauls

82A Experimental Work in Direct Metal (3 cr; prereq 81A)
VI-VII MWF, HolB 154, Nash

82B Experimental Work in Carving, Modeling, Assemblage (3 cr; prereq 81B)
VI-VII MWF, HolB 154, Nash

82C Experimental Work in Cast Metals (3 cr; prereq 81C)
VI-VIII TTh, HolB 154, Sauls

84 Photography II (3 cr; prereq 83)
VIII-IX MWF, J 2, Dean

90 Printmaking, Intaglio Processes (3 cr; prereq 32 or ‡)
VI-VIII TTh, ArtB 170, Bethke

91 Printmaking, Intaglio Processes (3 cr; prereq 90)
VI-VIII TTh, ArtB 170, Bethke

92 Printmaking, Intaglio Processes (3 cr; prereq 91)
VI-VIII TTh, ArtB 170, Bethke

93 Ceramic Design (3 cr; prereq 45 or ‡)
III-IV MWF, HolB 134, MacKenzie

94 Ceramic Design (3 cr; prereq 93)
III-IV MWF, HolB 134, MacKenzie

95 Ceramic Design (3 cr; prereq 94)
III-IV MWF, HolB 134, MacKenzie

120 Adv Drawing (3 cr; prereq 55)
VI-VIII MW, ArtB 160, Busa

121 Adv Drawing (3 cr; prereq 120)
VI-VIII MW, ArtB 160, Busa

122 Adv Drawing (3 cr; prereq 121)
VI-VIII MW, ArtB 160, Busa

123 Film Workshop (3 cr; prereq art or hum or mus or theat maj, ‡)
VI-VII MWF, J 4, Downs

124 Film Workshop (3 cr; prereq 123)
VI-VII MWF, J 4, Downs

125 Film Workshop (3 cr; prereq 124)
VI-VII MWF, J 4, Downs

133 Lithography (3 cr; prereq 32 or ‡)
—1, I-II TThS, ArtB 175, Priede
—2, III-IV TThS, ArtB 175, Priede

134 Lithography (3 cr; prereq 133)
—1, I-II TThS, ArtB 175, Priede
—2, III-IV TThS, ArtB 175, Priede

135 Lithography (3 cr; prereq 134)
—1, I-II TThS, ArtB 175, Priede
—2, III-IV TThS, ArtB 175, Priede

150 Probs: Painting (3 cr; prereq 72, ‡)
VI-VIII MW, ArtB 161, Chaffey

151 Probs: Painting (3 cr; prereq 150)
VI-VIII MW, ArtB 161, Chaffey

152 Probs: Painting (3 cr; prereq 151)
VI-VIII MW, ArtB 161, Chaffey

180A Sculpture IV (3 cr; prereq 9 cr above 81)
VI-VII MWF, HolB 161, Nash

180B Sculpture IV (3 cr; prereq 180A)
VI-VII MWF, HolB 154, Nash

180C Sculpture IV (3 cr; prereq 180B)
VI-VIII TTh, HolB 154, Sauls

181A Sculpture IV (3 cr; prereq 9 cr above 81)
VI-VII MWF, HolB 154, Nash

181B Sculpture IV (3 cr; prereq 180B)
VI-VII MWF, HolB 154, Nash

181C Sculpture IV (3 cr; prereq 180C)
VI-VIII TTh, HolB 154, Sauls

182A Sculpture IV (3 cr; prereq 9 cr above 81)
VI-VII MWF, HolB 154, Nash

182B Sculpture IV (3 cr; prereq 181B)
VI-VII MWF, HolB 154, Nash

182C Sculpture IV (3 cr; prereq 181C)
VI-VIII TTh, HolB 154, Sauls

190 Adv Printmaking: Intaglio Processes (3 cr; prereq 90 or ‡)
VI-VIII TTh, ArtB 170, Bethke

191 Adv Printmaking: Intaglio Processes (3 cr; prereq 190)
VI-VIII TTh, ArtB 170, Bethke

192 Adv Printmaking: Intaglio Processes (3 cr; prereq 191)
VI-VIII TTh, ArtB 170, Bethke

193 Adv Probs in Studio (3 cr; prereq ‡)
—1, VI-VII MWF, HolB 134, MacKenzie
—2, I-II MWF, J 4, Liebling
—3, Ar

194 Adv Probs in Studio (3 cr; prereq 193)
—1, VI-VII MWF, HolB 134, MacKenzie
—2, I-II MWF, J 4, Liebling
—3, Ar

195 Adv Probs in Studio (3 cr; prereq 194)
—1, VI-VII MWF, HolB 134, MacKenzie
—2, I-II MWF, J 4, Liebling
—3, Ar

200 Adv Probs: Painting (3 cr; prereq ‡)
VI-VIII MW, ArtB 141, Rowan

201 Adv Probs: Painting (3 cr; prereq ‡)
VI-VIII MW, ArtB 141, Rowan

202 Adv Probs: Painting (3 cr; prereq ‡)
VI-VIII MW, ArtB 141, Rowan

203 Adv Probs: Painting (3 cr; prereq ‡)
VI-VIII MW, ArtB 141, Rowan

204 Adv Probs: Painting (3 cr; prereq 203)
VI-VIII MW, ArtB 141, Rowan

205 Adv Probs: Painting (3 cr; prereq 204)
VI-VIII MW, ArtB 141, Rowan

210A Adv Probs: Sculpture (3 cr; prereq ‡) Nash

210B Adv Probs: Sculpture (3 cr; prereq 210A) Nash

210C Adv Probs: Sculpture (3 cr; prereq 210B) Nash

211A Adv Probs: Sculpture (3 cr; prereq 210A-B-C) Nash

211B Adv Probs: Sculpture (3 cr; prereq 211A) Nash

211C Adv Probs: Sculpture (3 cr; prereq 211B) Nash

212A Adv Probs: Sculpture (3 cr; prereq 211A-B-C) Nash
212B Adv Probs: Sculpture (3 cr; prereq 212A) Nash
212C Adv Probs: Sculpture (3 cr; prereq 212B) Nash
220 Adv Probs: Printmaking (3 cr; prereq 192) Myers
221 Adv Probs: Printmaking (3 cr; prereq 220) Myers
222 Adv Probs: Printmaking (3 cr; prereq 221) Myers
231 Adv Probs: Drawing (3 cr; prereq ♯)
VI-VIII MW, ArtB 160, Busa
232 Adv Probs: Drawing (3 cr; prereq 231)
VI-VIII MW, ArtB 160, Busa
233 Adv Probs: Drawing (3 cr; prereq 232)
VI-VIII MW, ArtB 160, Busa
240 Adv Probs: Ceramics (3 cr; prereq ♯) MacKenzie
241 Adv Probs: Ceramics (3 cr; prereq 240) MacKenzie
242 Adv Probs: Ceramics (3 cr; prereq 241) MacKenzie
260F Film (3 cr; prereq 125, ♯)
I-II MWF, J 4, Dean
260P Photography (3 cr; prereq 125, ♯)
I-II MWF, J 4, Dean
261F Film (3 cr; prereq 260F)
I-II MWF, J 4, Dean
261P Photography (3 cr; prereq 260P)
I-II MWF, J 4, Dean
262F Film (3 cr; prereq 261F)
I-II MWF, J 4, Dean
262P Photography (3 cr; prereq 261P)
I-II MWF, J 4, Dean

CLASSICS

Classics (Clas)

2 Age of Pericles: City-State, Intellectual Maturity (3 cr)
VII MWF, FolH 308, Weber
5 Intro to Classical Civilization: The World of Augustus (3 cr)
III MWF, FolH 303, Wheatley
42 Greek, Roman Mythology (2 cr, §42A; prereq soph)
III TTh, C 100, Schork
48 **Technical Terms of Science, Medicine, Humanities** (3 cr; prereq soph)
IV MWF, FolH 308
68 **Technical Terms of Science, Medicine, Humanities** (3 cr, §48; prereq jr)
IV MWF, FolH 308
81 Greek Tragedy in Translation (3 cr, §181; prereq 9 cr Engl lit above C or foreign lit or △)
IV MWF, FolH 109, Ferguson
106 Study of Language (3 cr; prereq 56 or △)
V MWF, FolH 308, Swanson
108 **Classical Voices of Poetry** (3 cr, §Spch 108; prereq Spch 82 or 83 or Th 61 or 3 cr Lat or Grk above 60 or 3 cr upper div Engl or foreign lit or ♯)
III MWF, FolH 307, Sonkowsky
122 Greek Archaeology (3 cr; prereq jr or ♯)
VII MWF, FolH 303, McDonald
192 Classical Literary Traditions (3 cr, §92; prereq 191)
VII MWF, FolH 103, DeWitt

Greek (Grk)

2 **Bgn Greek** (5 cr, †1-2; prereq 1)
—1, II MTWThF, FolH 303, Cole
—2, III MTWThF, Owre 117, Wilkie
51 Reading (3 cr, §2, †50-51; prereq 50)
III MWF, FolH 303½, Ooms
62 Greek Tragic Drama (3 cr; prereq 3)
IV MWF, FolH 108, Schork
82 Lyric Poetry (3 cr; prereq 63)
III MWF, FolH 305½, Weber
96H Honors Tutorial (3 cr; prereq △) McDonald, others
176B Reading: Philosophy (3 cr)
11:15-12:30 TTh, FolH 108, Ferguson
176D Directed Reading, Research (3 cr)
262 The Conflict of Religions in the Roman Empire (3 cr, §Lat 262; prereq ¶171, △)
3:15-5:15 W, Lib 312, Ferguson

Latin (Lat)

2 **Bgn Latin** (5 cr)
—1, I MWF, FolH 308
I TTh, FolH 308, Forbes
—2, I MWF, FolH 301
I TTh, FolH 308, Forbes
4X Interm Latin (5 cr; prereq 3 or 2 yrs HS Latin or △)
VI MTWThF, FolH 103, A MacDonald
51 Reading Latin (3 cr, §1-2-3, †50-51; prereq 50)
V MWF, FolH 302, Ooms
62 Latin Lyric Poetry (3 cr; prereq 61 or 3X, ♯ or △)
VI MWF, FolH 108, DeWitt

82 Caesar, Cicero (3 cr; prereq 63)
I MWF, FolH 302, Ooms

96H Honors Tutorial (3 cr; prereq △) W
McDonald, others

102 Structure of Latin (1-2 cr; prereq 101)
Erickson, Forbes

174A Reading: History (3 cr)
2:15-3:30 TTh, FolH 302, Poeschl

176D Directed Reading, Research (3 cr)

232 Seminar: Augustan Poetry (3 cr)
3:45-5:45 T, Lib 312, Poeschl

262 The Conflict of Religions in Roman Empire (3 cr, §Grk 262; prereq 261)
3:15-5:15 W, Lib 312, Ferguson

COMMUNICATIONS (Comm)

1 Communications (4 cr, §Engl A or 10H or Comp 1; prereq classif card 1 or 1A or 2 or 3)
—1, I MTWF, WuH 130, Coiner
—2, I MTWF, TNCD 113
—3, IV MTWF, WuH 130, Cranney
—4, V MTWF, WuH 130, Coiner
—5, V MTWF, TNCD 113
—6, VI MTWF, WuH 130, Huffington
—7, VII MTWF, WuH 130, Huffington

2 Communication (4 cr, §Engl B or 11H or Comp 2; prereq 1)
—1, I MTWF, JohH 105, Sheehan
—2, I MTWF, CD 105, Taubr
—3, I MTWF, ForH 261, Campbell
—4, II MTWF, FraH B25, Hahn
—5, II MTWF, CD 105, Gordon
—6, III MTWF, TNCD 113, Rose
—7, III MTWF, CD 105, Johnsrud
—8, IV MTWF, TNCD 113, Campbell
—9, IV MTWF, FraH B25, Coiner
—10, IV MTWF, CD 105, Sheehan
—11, V MTWF, FraH 182, Holtan
—12, V MTWF, Owre 117, Tintner
—13, V MTWF, Z 313, Rose
—14, V MTWF, MH 214, Alyeshmerni
—15, VI MTWF, FraH B25, Elzey
—16, VI MTWF, AH 150, Cranney
—17, VI MTWF, Arch 135, Tintner
—18, VII MTWF, FraH B25, Tembeck
—19, VII MTWF, AH 150, Taubr
—20, VII MTWF, AH 9, Norton
—21, VIII MTWF, WuH 130, Pyclik
—22, I-II TTh, AE 211, McNall
—23, III-IV TTh, MH 214, McNall
—24, VI-VII TTh, Ph 131, Pyclik

2H Honors Course: Communication (4 cr, §Engl B or 11H or Comp 2; prereq 1, △)
IV-V TTh, SciB 527, Bryan

3 Communication (4 cr, §Engl C or 12H or Comp 3; prereq 2)
—1, II MTWF, VH 303, Holtan
—2, V MTWF, MMA 125, Huffington

EAST AND SOUTH ASIAN LANGUAGES

Chinese (Chin)

2 Bgn Chinese (5 cr; prereq 1)
—1, VI MTWThF, FolH 303½, Liu, others
—2, VI MTWThF, CD 105, Liu, others

52 Interm Chinese (5 cr; prereq 51, ¶102)
II MTWThF, J 202, Chang

102 Bgn Literary Chinese (3 cr; prereq 101, ¶52)
I MWF, FolH 108, Mather

106 Intro to Chinese Linguistics (3 cr; prereq 105)
III MWF, FolH 322, Wang

111 Literature in Translation (3 cr; prereq 110)
VI MWF, FolH 302, Mather

126 Chinese Documents (3 cr; prereq 103 or ♯)
IV MWF, TSF 105, Chang

172 Poetry of T'ang, Sung Periods (2 cr; prereq 171) Mather

176 Chinese Literature of Yuan, Ming, Ch'ing Periods (3 cr; prereq 103, 123 or ♯) Liu

192H Honors Course: Research (1-3 cr; prereq 191H)

200B Bibliography, Research Methods (3 cr; prereq 103, 123, ♯) Wang

Indian (Indn)

2 Bgn Hindi (5 cr)
V MTWThF, VI TTh, FolH 305½, Staneslow

52 Interm Hindi (5 cr; prereq 51)
III MTWThF, VH 125, Khokle

102 Adv Hindi (3 cr; prereq 101)
IV MWF, FolH 305½, Khokle

106 Hindi Linguistics 3(cr; prereq ♯)
IV MWF, FolH 303½, Staneslow

122 Readings: Hindi Literature—20th Century (3 cr; prereq 121)

126 Hindi Composition (3 cr; prereq 125)

152 Directed Readings (3 cr; prereq 151)

Japanese (Jpn)

2 Bgn Japanese (5 cr; prereq 1)
—1, III MTWThF, FolH 205, Matsumoto
—2, V MTWThF, FolH 103, Matsumoto

52 Interm Japanese (5 cr; prereq 51)
VIII MTWThF, FolH 103, Loveless

102 Adv Japanese (3 cr; prereq 101)
III MWF, Bu 105, Tsukimura

106 Intro to Linguistics (3 cr; prereq 105)
9:45-11:00 TTh, FolH 305½, Loveless

111 Literature in Translation (3 cr; prereq 110)
II MWF, FolH 305½, Tsukimura

122 Readings: Contemporary Jpn Texts (3 cr; prereq 121)
III MWF, A 205, Copeland

148F History of Japan (3 cr, §Hist 148)
VI MWF, BA 933, Marshall

172 Poetry of Nara, Heian Periods (2 cr; prereq 171)
IV MWF, FolH 322, Copeland

192H Honors Course: Research (1-3 cr; prereq 191H)

Sanskrit (Skt)

52 Beginning Sanskrit (3 cr; prereq 51)
VI MWF, TSF 103, Ickimura

152 Directed Readings (3 cr; prereq #)
VI MWF, TSF 103, Ickimura

Tibetan (Tib)

102 Bgn Tibetan (3 cr; prereq 101)
VII MWF, TSF 103, Wang

ECONOMICS (Econ)

B Scope, Methods, Application (3 cr)
VIII MWF, SciB 125, Smith

1 Prin of Macroeconomics (4 cr, †1-2, §C or 1T or 50A; prereq 3rd qtr fr)
Lect I Th, NMA, Heller, Kareken
—1, I MWF, CB(W) 205
—2, II MWF, CB(W) 110
—3, III MWF, AE 327
—4, III MWF, CB(W) 255
—5, IV MWF, CB(W) 255
—6, IV MWF, ChE 50
—7, IV MWF, Z 211
—8, V MWF, AE 209
—9, V MWF, ChE 50
—10, V MWF, A 12
—11, V MWF, A 116
—12, VI MWF, AE 327
—13, VI MWF, Arch 30
—14, VII MWF, Arch 30

1H Honors Course: Prin of Macroeconomics (4 cr, †1H-2H, §C or 1 or 1T or 50A; prereq 3rd qtr fr)
Lect I Th, NMA, Heller, Kareken
Rec III MWF, AH 101

1T Principles (3 cr, †1T-2T; prereq Math 13A or 40)
—1, I MWF, C 315
—2, IV MWF, VH 309
—3, V MWF, ForH 349

2 Prin of Microeconomics (3 cr, †1-2, §C or 50B; prereq 1)
—1, I MWF, ChE 50
—2, I MWF, Pt 214
—3, I MWF, CB(W) 255
—4, II MWF, CB(W) 415
—5, I MWF, C 115
—6, II MWF, ForH 130
—7, III MWF, Arch 45
—8, III MWF, CB(W) 230
—9, IV MWF, CB(W) 110
—10, IV MWF, A 12
—11, IV MWF, VH 303
—12, V MWF, ForH 150
—13, V MWF, VH 2
—14, V MWF, CB(W) 255
—15, VI MWF, CB(W) 255
—16, VI MWF, Arch 45
—17, VI MWF, Arch 60

2H Honors Course: Prins of Microeconomics (3 cr, †1H-2H, §C or 2T or 50B; prereq 1 or 1H)
IV MWF, FolH 103

2T Principles (3 cr, †1T-2T; prereq Math 13A or 40)
—1, I MWF, Arch 40
—2, II MWF, TNCD 113
—3, III MWF, VH 2
—4, IV MWF, JohH 106
—5, V MWF, VH 309

50B Probs of American Economy (3 cr, §C, 2 or 2T; prereq 50A)
VI MWF, CB(W) 205, Smith

65 Interm Economic Analysis I (3 cr; prereq 2 or #)
—1, I MWF, CB(W) 125, Swidinsky
—2, 9:45-11:00 TTh, CB(W) 220, Hause
—3, III MWF, CB(W) 125, Smits
—4, V MWF, CB(W) 120, Smits
—5, 11:15-12:30 TTh, CB(W) 135, Muench
—6, VI MWF, HH 100 (StP Campus), Everson

65T Interm Economic Analysis I (3 cr, §65; prereq ¶Math 43 or ‡)
9:45-11:00 TTh, CB(W) 230, Muench

66 Interm Economic Analysis II (3 cr, §66T; prereq 2 or ‡)
—1, I MWF, CB(W) 230, Gardner
—2, I MWF, CB(W) 110, Keyt
—3, 9:45-11:00 TTh, CB(W) 240, Teubal
—4, III MWF, CB(W) 240, Gardner
—5, IV MWF, CB(W) 240, Rich
—6, 11:15-12:30 TTh, CB(W) 240, Teubal
—7, V MWF, CB(W) 240, Rich

67 Money, Banking (3 cr; prereq 66)
—1, II MWF, CB(W) 240, Keyt
—2, IV MWF, CB(W) 115, Green

68 Elem of Public Finance (3 cr; prereq 65, 66)
—1, IV MWF, CB(W) 220, Swidinsky
—2, 11:15-12:30 TTh, CB(W) 230, Foster

69 Govt Regulation of Business (3 cr; prereq 65 for BA or econ maj, law or pol sci for others or ‡)
—1, IV MWF, CB(W) 140, Mohring
—2, 11:15-12:30 TTh, CB(W) 140, Hofmeister

75 Interm Economic Analysis III (3 cr; prereq 65)
II MWF, CB(W) 145, Buttrick

90H Honors Course: Undergrad Seminar in Economics (3 cr; prereq 66, 75, econ maj, sr, honors cand or ‡) Sonnenschein

101B Intro to Decision Theory (3 cr; prereq 101A or ‡)
II MWF, ForH 175

103 Economic Development (3 cr, §103A; prereq 2, no econ maj)
IV MWF, CB(W) 230, Schmookler

104 International Economics (3 cr, §104A; prereq 2, no econ maj)
11:15-12:30 TTh, CB(W) 10, Coen

114B Intl Trade, Payments Theory (3 cr; prereq 66, 67, 114A)
11:15-12:30 TTh, CB(W) 120, Krueger

135B Foundations of Economic Analysis (3 cr; prereq 135A)
9:45-11:00 TTh, CB(W) 125, Richter

140 Location Theory (3 cr; prereq 165, 166 or ‡)
2:15-4:15 F, CB(W) 125, Mohring

160 Comparative Economic Systems (3 cr, §160A; prereq 2, no econ maj)
III MWF, CB(W) 220, Maynes

160A Adv Comparative Economic Systems (3 cr, §160; prereq 65, 66 or ‡)
II MWF, CB(W) 255, Maynes

164 Economy of USSR (3 cr; prereq 2)
9:45-11:00 TTh, CB(W) 120, Boddy

176A Economic Analysis II: Income Theory (3 cr; prereq 166 or ‡)
3:45-5:00 TTh, CB(W) 415, Brownlee

177B Interm Monetary Economics (3 cr; prereq 177A)
3:30-5:30 F, CB(W) 130, Kareken

178B Public Finance (3 cr; prereq 178A)
2:15-3:30 TTh, CB(W) 410, Brownlee

179B Industrial Organization (3 cr; prereq 179A)
2:15-3:15 MW, CB(W) 125, Mohring

180A History of Economic Thought (3 cr; prereq 175, 176A or ‡)
IV MWF, CB(W) 125, Buttrick

185A Economic Analysis I: Price Theory (3 cr; prereq 165)
9:45-11:00 TTh, CB(W) 135, Henderson

190 Readings (ar cr; prereq cons adv, ‡)

192 Collective Bargaining (3 cr; prereq 62, 65, 66)
11:15-12:30 TTh, CB(W) 125, Simler

195B Decision Making, Operations Analysis (3 cr; prereq 195A or ‡)
2:15-3:30 TTh, CB(W) 430, Henderson

201B Econometrics B (3 cr; prereq 201A)
3:45-5:00 MW, CB(W) 425, Hildreth

213B Economic Growth, Natl Planning (3 cr; prereq 213A) Diaz

215B Welfare Economics (3 cr; prereq 215A)
11:15-12:30 TTh, CB(W) 220, Hause

223A Adv Topics: Science, Technology (3 cr; prereq ‡)
10:00-12:00 S, CB(W) 430, Schmookler

245B Mathematical Economics (3 cr; prereq 245A)
3:45-5:00 TTh, CB(W) 205, Hurwicz

277A Development of Monetary Theory, Policy (3 cr; prereq 176A, 177A or ‡)
2:15-3:30 TTh, CB(W) 255, Wallace

290 Individual Research (ar cr)

390B Workshop (ar cr; prereq 390A) Hurwicz

ENGLISH

English (Engl)

A Freshman Composition, Literature (5 cr, §Comp 1 or 10H or Comm 1; prereq classif card 1 or 1A or 2)
—1, I MTWThF, AH 101
—2, I MTWThF, AH 350
—3, II MTWThF, ForH 359
—4, III MTWThF, VH 307
—5, IV MTWThF, AH 350
—6, V MTWThF, AH 350

—7, VI MTWThF, SciB 527
—8, VII MTWThF, AH 101

B Freshman Composition, Literature (5 cr, §Comp 2 or 11H or Comm 2; prereq A)
—1, I MTWThF, VH 2
—2, I MTWThF, VH 113
—3, I MTWThF, ChE 150
—4, I MTWThF, VH 210
—5, I MTWThF, VH 301
—6, I MTWThF, VH 303
—7, I MTWThF, VH 307
—8, I MTWThF, Z 211
—9, I MTWThF, FraH B20
—10, II MTWThF, AH 101
—11, II MWF, Bu 125, II TTh, FolH 406
—12, II MTWThF, VH 113
—13, II MTWThF, C 111
—14, II MTWThF, ChE 162
—15, II MTWThF, Z 211
—16, III MTWThF, VH 210
—17, III MTWThF, JohH 114
—18, III MTWThF, VH 309
—19, III MTWThF, VH 1
—20, III MTWThF, AE 309
—21, III MTWThF, Z 313
—22, III MTWThF, Owre 111
—23, III MTWThF, MMA 100
—24, III MTWThF, MMA 125
—25, IV MTWThF, CHRC 208
—26, IV MTWThF, AH 9
—27, IV MTWThF, ForH 261
—28, IV MTWThF, Pt 215
—29, IV MTWThF, Pt 102
—30, IV MTWThF, NH 209A
—31, IV MTWThF, JohH 122
—32, IV MTWThF, JohH 114
—33, IV MWF, VH 306, IV TTh, MinMet 104
—34, V MTWThF, VH 301
—35, V MTWThF, VH 303
—36, V MTWThF, VH 306
—37, V MTWThF, Z 211
—38, V MTWThF, JohH 122
—39, V MTWThF, Ph 143
—40, V MTWThF, FraH 120
—41, V MTWThF, AE 225
—42, VI MTWThF, AH 101
—43, VI MTWThF, VH 210
—44, VI MTWThF, E 217
—45, VI MTWThF, Pt 110
—46, VI MTWThF, VH 309
—47, VII MTWThF, VH 309
—48, VII MTWThF, Z 211
—49, VII MTWThF, ForH 359
—50, VII MTWThF, CB(W) 135
—51, VII MTWThF, JohH 105
—52, VII MTWThF, A 205
—53, VII MTWThF, A 202
—54, VII MTWThF, A 105
—55, VIII MTWThF, Z 211
—56, VIII MTWThF, A 105
—57, VIII MTWThF, A 201
—58, VIII MTWThF, A 202
—59, VIII MTWThF, A 205
—60, VIII MTWThF, CB(W) 135,

11H Honors Course: Freshman Literature, Composition (5 cr, §B or Comp 2 or Comm 2; prereq 10H)
—1, IV MTWThF, VH 210
—2, VII MTWThF, FolH 108

21 Intro to Literature (5 cr, §19; prereq completion or exempt fr Engl)
—1, II MTWThF, VH 1, Stricker
—2, VI MTWThF, Arch 40, McClure

22 Intro to Literature (5 cr, §19; prereq completion or exempt fr Engl)
—1, II MTWThF, VH 301, Durham
—2, III MTWThF, VH 301, Leyasmeyer
—3, IV MTWThF, VH 301, Levy
—4, VI MTWThF, VH 301, McNaron
—5, VII MTWThF, VH 301, Haley
—6, VIII MTWThF, VH 301, Joseph

38 Modern Literature: Prose Fiction (3 cr; prereq soph, completion fr Engl)
—1, VI MWF, VH 207, Stricker
—2, VII MWF, VH 207, Reed
—3, VIII MWF, VH 207, Haley

53 English Novel (3 cr; prereq C or 12H; Comp 1-2-3 or Comm 3, 5 addtl cr; 5 cr in 21-22-23; exempt, 5 cr lit)
VII MWF, MurH 420, Stricker

55 Shakespeare (3 cr; prereq C or 12H; Comp 1-2-3 or Comm 3, 5 addtl cr; 5 cr in 21-22-23; exempt, 5 cr lit)
—1, I MWF, VH 6, Durham
—2, II MWF, VH 205, Reed
—3, III MWF, VH 205, Munro
—4, 11:15-12:30 TTh, VH 205, Unger
—5, VI MWF, VH 205, Durham

56 Shakespeare (3 cr; prereq 55 or △)
—1, II MWF, VH 2, Levy
—2, 11:15-12:30 TTh, VH 307, Goldman
—3, IV MWF, VH 307, Buchwald
—4, 12:45-2:00 TTh, VH 307, Youngblood
—5, 2:15-3:30 TTh, VH 307, Youngblood
—6, 2:15-3:30 TTh, VH 205, Scoggins
—7, VII MWF, VH 307, Rosendahl

60 Intro to English Language (3 cr; prereq Comp 1-2-3 or Comm 3, 5 addtl cr; 5 cr in 21-22-23; exempt, 5 cr lit)
VI MWF, VH 1, J Erickson

72 American Literature (3 cr; prereq C or 12H; Comp 1-2-3 or Comm 3, 5 addtl cr; 5 cr in 21-22-23; exempt, 5 cr lit)
11:15-12:30 TTh, VH 2, Griffin

73 **American Literature** (3 cr; prereq 72 or ‡, none for Ed min)
—1, II MWF, VH 207, Roth
—2, 11:15-12:30 TTh, VH 207, C Foster
—3, IV MWF, WuH 230, Alsen
—4, VII MWF, ForH 115, Roth

75 **Chaucer** (4 cr; prereq C or 12H; Comp 1-2-3 or Comm 3, 5 addtl cr; 5 cr in 21-22-23; exempt, 5 cr lit)
VI MWThF, Arch 55, Leyasmeyer

78 **20th Century British, American Literature** (3 cr, §143; prereq 5 cr above fr Engl)
—1, 9:45-11:00 TTh, VH 207, Youngblood
—2, VI MWF, VH 2, Reed

85 **Technical Writing for Engineers** (3 cr; prereq C or 3A or 3B)
III MWF, AE 313, Haga

85B **Technical Writing for Engineers** (1 cr; prereq ¶ME 146 or ME 192 or EE 82)
—1, II Th, Arch 55, Haga
—2, VI T, Arch 55, Haga
—3, II T, Arch 55, Haga

90H Honors Course: Magna Honors Thesis (3 cr; prereq cand magna cum laude, △)

91H Honors Course: Summa Honors Thesis (3 cr, †91H-92H; prereq cand summa cum laude, △)

92H Honors Course: Summa Honors Thesis (3 cr, †91H-92H; prereq 91H, △)

102 Readings: Old English Prose, Verse (3 cr; prereq 100)
11:15-12:30 TTh, VH 309, J Erickson

105 **Hawthorne, Melville** (3 cr; prereq 5 cr above fr Engl)
IV MWF, VH 2, Roth

109 **Romantic Poetry, Prose** (3 cr; prereq 5 cr above fr Engl)
11:15-12:30 TTh, VH 6, Scoggins

136 **Adv Shakespeare** (3 cr; prereq 56)
9:45-11:00 TTh, VH 2, McNaron

138 **Victorian Literature** (3 cr; prereq 5 cr above fr Engl)
—1, III MWF, VH 207 (prereq grad or △) Stange
—2, III MWF, VH 113, Joseph

154 **American Novel** (3 cr; prereq 5 cr above fr Engl)
III TThS, VH 113, Bowron

158 **American Poetry** (3 cr; prereq 5 cr above fr Engl)
2:15-3:30 TTh, VH 207, Levenson

159 Early American Literature (3 cr; prereq 5 cr above fr Engl)
2:15-3:30 TTh, VH 6, C Foster

162 **Milton** (3 cr; prereq 21 or 56)
III MWF, VH 303, Steinmann

165 **Modern English** (3 cr; prereq 5 cr above fr Engl)
VII MWF, VH 2

169 **Earlier English Drama** (3 cr; prereq 5 cr above fr Engl)
2:15-3:30 TTh, VH 303, O'Brien

185 **Form, Idea in Dramatic Literature** (3 cr; prereq 5 cr above fr Engl...56 rec)
9:45-11:00 TTh, VH 6, Hurrell

188 **18th Century Literature** (3 cr; prereq 5 cr above fr Engl)
—1, IV MWF, VH 207 (prereq grad or △) Monk
—2, IV MWF, VH 113, Leyasmeyer

191 **20th Century Writers: Lawrence, Joyce** (3 cr; prereq 5 cr above fr Engl)
VI MWF, ForH 55, R Foster

195 **Elizabethan Prose, Verse** (3 cr; prereq 5 cr above fr Engl)
11:15-12:30 TTh, VH 113, O'Brien

198 **17th Century Literature** (3 cr; prereq 5 cr above fr Engl)
III MWF, VH 306, Unger

204 Studies in English Language (3 cr; prereq 100)
VI-VII T, VH 125, Allen

211 17th Century Literature (3 cr; prereq 210)
VIII-IX T, VH 210, Unger

235 Medieval English Culture (3 cr; prereq 234)
VIII-IX Th, VH 125, Clark

257 Spenser, Milton (3 cr; prereq 256)
VI-VII F, ForH 346, O'Brien

266 American Renaissance II: Hawthorne, Thoreau, Melville (3 cr; prereq 265)
VI-VII M, VH 125, C Foster

269 Aesthetics (3 cr; prereq 268)
VIII-IX T, Arch 20, Steinmann

272 Rise, Development of the English Novel (3 cr; prereq 271)
VI-VII F, VH 125, Montgomery

278 American Realism (3 cr; prereq 277)
VIII-IX F, VH 125, Bowron

281 English Romantic Movement (3 cr)
VIII-IX W, ForH 346, Scoggins

285 Dryden, His Age (3 cr; prereq 284)
VIII-IX W, VH 210, Monk

288 Victorian Literature (3 cr; prereq 287)
VI-VII W, VH 125, Stange

298 Independent Reading (3 cr; prereq MA degree)

English Composition (Comp)

X **Preparatory Composition** (0 cr; prereq classif card 4 or 4A)
—1, 8:15-9:30 TTh, MurH 308
—2, 9:45-11:00 TTh, C 225

—3, 11:15-12:30 TTh, Arch 50
—4, 12:45-2:00 TTh, VH 2
—5, 2:15-3:30 TTh, JohH 113

1 Freshman Composition (4 cr, §Engl A or 10H or Comm 1; prereq classif card 1 or 1A or 2)
—1, I-II TTh, VH 306
—2, I-II TTh, VH 309
—3, I-II TTh, CB(W) 115
—4, I-II TTh, AE 215
—5, I-II TTh, AE 225
—6, I-II TTh, ChE 154
—7, III-IV TTh, ChE 162
—8, III-IV TTh, FolH 105
—9, III-IV TTh, FolH 308
—10, III-IV TTh, CB(W) 410
—11, V-VI TTh, ChE 50
—12, V-VI TTh, CB(W) 410
—13, V-VI TTh, FolH 105
—14, V-VI TTh, AH 9
—15, V-VI TTh, ME 302
—16, V-VI TTh, Arch 60
—17, VII-VIII TTh, VH 306
—18, VII-VIII TTh, CB(W) 225
—19, VII-VIII TTh, CB(W) 230
—20, VII-VIII TTh, CB(W) 250

2 Freshman Composition (4 cr, §Engl B or 11H or Comm 2; prereq 1)
—1, I MTWF, A 12
—2, I MTWF, A 105
—3, I MTWF, A 116
—4, I MTWF, A 201
—5, I MWThF, CB(W) 120
—6, I MWThF, Ph 236A
—7, I MWThF, Pt 111
—8, I MTWF, CB(W) 220
—9, II MTWTh, MH 213
—10, II MTWF, MH 214
—11, II MTWF, FolH 302
—12, II MTWF, ChRC 206
—13, II MWF, CB(W) 230, II T, CB(W) 430
—14, II MWThF, Ph 145
—15, II MWThF, VH 210
—16, III MTWF, Owre 12
—17, III MTWF, CB(W) 440
—18, III MTWF, Owre 113
—19, III MWF, Pt 102, III T, FolH 302
—20, III MWF, Pt 110, III Th, CD 105
—21, III MWF, Pt 215, III Th, TNCD 113
—22, III MWThF, Ph 133
—23, III MWThF, Ph 170
—24, IV MTWF, Owre 12
—25, IV MTWF, C 111
—26, IV MTWF, CD 218
—27, IV MTWF, VH 1
—28, IV MWThF, FraH B1
—29, IV MWThF, ME 102
—30, IV MWThF, C 315
—31, IV MWF, MMA 125, IV Th, MMA 100
—32, IV MWF, SciB 527, IV Th, C 111
—33, V MWThF, ChRC 204
—34, V MTWF, CD 218
—35, V MTWF, VH 1
—36, V MTWF, CB(W) 115
—37, V MTWF, CB(W) 155
—38, V MTWF, Owre 12
—39, V MTWF, VH 210
—40, V MWThF, ME 4
—41, V MWThF, MMA 100
—42, V MWF, CB 125, V Th, CB 115
—43, V MWThF, Ph 210
—44, VI MTWF, Pt 214
—45, VI MTWF, CB(W) 115
—46, VI MTWF, Owre 117
—47, VI MWThF, VH 113
—48, VI MWThF, CB(W) 240
—49, VI MWThF, TNCD 113
—50, VI MWThF, CB(W) 230
—51, VII MTWF, MinMet 104
—52, VII MTWF, CB(W) 145
—53, VII MTWF, C 111
—54, VII MTWF, C 315
—55, VII MWThF, C 115
—56, VII MWThF, AH 350
—57, VII MWThF, TNCD 113
—58, VII MWThF, Owre 12
—59, VIII MTWF, Ph 236A
—60, VIII MTWF, Ph 143
—61, VIII MTWF, FraH B25
—62, VIII MTWF, ForH 130
—63, VIII MWThF, ForH 170
—64, VIII MWThF, ForH 60
—65, VIII MWThF, C 115
—66, VIII MWThF, C 111
—67, I-II TTh, Bu 123
—68, I-II TTh, Arch 60
—69, I-II TTh, Arch 45
—70, I-II TTh, Arch 15
—71, I-II TTh, AE 321
—72, I-II TTh, AE 319
—73, I-II TTh, ChE 158
—74, III-IV TTh, Arch 5
—75, III-IV TTh, ForH 359
—76, III-IV TTh, E 315
—77, III-IV TTh, FolH 202
—78, III-IV TTh, FolH 406
—79, III-IV TTh, MurH 302
—80, III-IV TTh, Z 211
—81, III-IV TTh, AE 209
—82, V-VI TTh, Arch 30
—83, V-VI TTh, AE 327
—84, V-VI TTh, ChE 54
—85, V-VI TTh, ChE 150
—86, V-VI TTh, ChE 154
—87, V-VI TTh, ChE 162
—88, V-VI TTh, E 315

—89, V-VI TTh, JohH 113
—90, VII-VIII TTh, ChE 150
—91, VII-VIII TTh, ChE 154
—92, VII-VIII TTh, E 315
—93, VII-VIII TTh, NH 107
—94, VII-VIII TTh, Ph 210
—95, VII-VIII TTh, VH 1
—96, VII-VIII TTh, VH 2

27 Adv Writing (3 cr; prereq Engl C or Comm 3 or △)
—1, I MWF, Arch 130, Foy
—2, II MWF, ChE 240, Foy
—3, 9:45-11:00 TTh, ForH 160, Goldman
—4, III MWF, Arch 15, Edgington
—5, V MWF, VH 6, Edgington
—6, 12:45-2:00 TTh, VH 6, Cummins
—7, VI MWF, VH 303, Korges
—8, VII MWF, A 12, Korges

28 Adv Writing (3 cr; prereq 27)
—1, III MWF, ForH 349, Wilson
—2, IV MWF, VH 205, Wilson
—3, V MWF, VH 113, K Warner
—4, VI MWF, VH 306, K Warner

102 Writing of Fiction, Poetry (3 cr; prereq 101)
VIII-IX Th, ForH 261, R Foster

FAMILY STUDIES (FamS)

1 Dynamics of Dating, Courtship, Marriage (3 cr, §1A)
—1, I MWF, Pt 215, Kim
—2, II MWF, JohH 106, Holland
—3, VI MWF, JohH 106, Torbett
—4, V MWF, Lib 4A, Torbett
—5, VI MWF, JohH 105, Kokosh
—6, 8:15-9:30 TTh, CB(W) 125, Kokosh
—7, 9:45-11:00 TTh, JohH 105, Torbett

1A Dynamics of Dating, Courtship, Marriage (3 cr, §1; prereq up div or married students)
—1, III MWF, JohH 105, Huyck
—2, 9:45-11:00 TTh, CB(W) 215, Holland

15 The Home, Its Furnishing (3 cr but cr does not count toward BA degree)
II MWF, JohH 122, Ludwig

25 Parenthood (3 cr, §CPsy 80)
II MWF, WuH 130, Huyck

GEOGRAPHY (Geog)

1 Physical Geography (5 cr)
—1, Lect IV MWF, AE 211, 215, Arch 15, 45, 60, CCTV, Barrett
—2, Lect VII MWF, AE 321, 327, Arch 15, 45, 60, CCTV, Barrett
—3, Lect IV MWF, AgEng 108 (StP Campus) CCTV
—4, Lect IV MWF, CB(W) 150
—1, I MW, ForH 60
—2, II MW, ForH 60
—3, III MW, ForH 60
—4, I TTh, ForH 60
—5, II TTh, ForH 60
—6, III TTh, ForH 60
—7, IV MW, ForH 60
—8, IV TTh, ForH 60
—9, V MW, ForH 60
—10, V TTh, ForH 60
—11, VI MW, ForH 60
—12, VI TTh, ForH 60
—13, VII TTh, ForH 60
—14, I TTh, ForH 50
—15, III MW, ForH 50
—16, I TTh, CB(W) 440
—17, II TTh, CB(W) 440
—18, V MW, CB(W) 440
—19, III MW, CB(W) 450
—20, III TTh, CB(W) 450
—21, IV MW, CB(W) 450

4 Human Geography (5 cr)
Lect IV MWF, C 100, Webb
—1, I MW, ForH 70
—2, II MW, ForH 70
—3, II TTh, ForH 70
—4, III MW, ForH 70
—5, III TTh, ForH 70
—6, IV TTh, ForH 70
—7, V MW, ForH 70
—8, V TTh, ForH 70
—9, VI TTh, ForH 70
—10, VII MW, ForH 70
—11, VII TTh, ForH 70
—12, VI MW, ForH 50
—13, VI TTh, ForH 50
—14, VII MW, ForH 50
—15, VII TTh, ForH 50
—16, I TTh, CB(W) 450
—17, VI MW, CB(W) 450
—18, VIII MW, CB(W) 450
Lect V MWF, SciB 125, Rice
—19, I MW, CB(W) 450
—20, II MW, CB(W) 450
—21, II TTh, CB(W) 450
—22, III TTh, ForH 50
—23, IV MW, ForH 50
—24, IV TTh, ForH 50
—25, II MW, ForH 50
—26, V TTh, ForH 50
—27, IV MW, ForH 70

4H Honors Course: Human Geography (5 cr; prereq ‡)
Lect IV MWF, C 100, Webb
Lab IV TTh, CB(W) 440, Saari

41 **Economic Geography** (5 cr)
Lect VI MWThF, CB(W) 235, Abler
—1, V W, CB(W) 450
—2, VII Th, CB(W) 450
—3, V F, CB(W) 450
—4, III Th, CB(W) 440
—5, VI T, CB(W) 450

63 **Soviet Union** (3 cr)
III MWF, CB(W) 425, Adams

71 **Maps, Map Interpretation** (3 cr, §60; prereq soph, 5 cr or ‡)
VI-VII TTh, CB(W) 445, Brown

81 **Cartography** (3 cr, §70; prereq 5 or ‡)
II-III TTh, CB(W) 455, Brown

91H Undergrad Honors Seminar (3 cr; prereq 10 cr, 3.0 GPA, ‡)
VII-VIII M, CB(W) 445, Borchert

101 **Western Europe** (3 cr; prereq 5 cr or ‡)
VII MWF, CB(W) 435, Webb

102 **Central Europe** (3 cr; prereq 5 cr or ‡)
II MWF, CB(W) 435, Rice

120 South Asia (3 cr; prereq 5 cr or ‡)
V MWF, CB(W) 435, Schwartzberg

126 Australia, New Zealand, Oceania (3 cr)
VI MWF, CB(W) 435, Barrett

143 South America (3 cr, §110)
8:15-9:30 TTh, CB(W) 235, Mather

152 Adv Climatology (3 cr, §134; prereq 151 or ‡)
VI MWF, CB(W) 445

160 Development of Geographic Thought (3 cr, §197; prereq sr, 15 cr)
IV MWF, CB(W) 435, Broek

167 American Cities—Location, Geographic Design (3 cr; prereq ‡)
III MWF, CB(W) 435, Borchert

175 Rural Geography (3 cr, §150)
11:15-12:30 TTh, CB(W) 435, Mather

177 Geography of Outdoor Recreation (3 cr, §130)
2:15-3:30 TTh, CB(W) 435, Lucas

187 **Quantitative Research Design** (3 cr, §Soc 187; prereq 87, Soc 45 or ‡)
11:15-12:30 TTh, CB(W) 450, Adams

190 Readings (1-3 cr; prereq sr)

191B Institute in Geography (3 cr; prereq 191A)
7:00-9:00 **pm** T, CB(W) 445, Borchert, Lukermann

262 Seminar: Development of Geographic Thought (3 cr; prereq ‡)
VIII-IX W, CB(W) 445, Broek

272 Seminar: Historical Economic Geography (3 cr; prereq ‡)
VIII-IX Th, CB(W) 445, Lukermann

287 Seminar: Settlement, Population Geography (3 cr; prereq ‡)
VIII-IX T, CB(W) 445, Webb

301 Research Probs (ar cr)

GERMAN (Ger)

1A **Bgn German: Oral Approach** (5 cr, §1 or 1B or HS Ger)
—1, I MTWThF, FolH 209
—2, I MTWThF, FolH 204
—3, IV MTWThF, FolH 209
—4, V MTWThF, FolH 209

2 **Bgn German: Oral Approach** (5 cr; prereq 1)
—1, Lect IV TTh, Bu 120, 123, CCTV, C Wood
—2, Lect VII TTh, Bu 120, 123, CCTV, C Wood
—1, Rec I MWF, FolH 208
—2, Rec I MWF, ForH 50
—3, Rec II MWF, A 116
—4, Rec III MWF, FolH 105
—5, Rec IV MWF, ChE 162
—6, Rec V MWF, FolH 207
—7, Rec V MWF, FolH 406
—8, Rec VII MWF, FolH 207
—9, Rec VII MWF, FolH 208
—10, Rec VII MWF, VH 306
—11, Rec VII MWF, FolH 110

2A **Bgn German: Oral Approach** (5 cr, §2B; prereq 1A)
—1, Lect III MWF, FolH 209½
Lab III TTh, FolH 209½
—2, Lect VI MWF, FolH 209½
Lab VI TTh, FolH 209½

2B **Bgn German: Language, Culture** (5 cr, §2A; prereq 1B)
—1, Lect III MWF, FolH 209
Lab III TTh, FolH 209
—2, Lect VI MWF, FolH 209
Lab VI TTh, FolH 209

2H **Honors Course: Bgn German** (5 cr; prereq 1H)
VI MTWThF, FolH 208

3A **Bgn German: Oral Approach** (5 cr, §3B; prereq 2A)
—1, I MTWThF, VH 1
—2, II MTWThF, FolH 208
—3, II MTWThF, FraH 120

4 **Interm German** (3 cr; prereq 3A or 3B or 3 yrs HS Ger)
—1, II MWF, AE 21
—2, IV MWF, FolH 205
—3, IV MWF, MurH 302
—4, V MWF, FolH 209½

5 **Interm German** (2 cr; prereq 3A or 3B or 3 yrs HS Ger)
—1, II TTh, FolH 209½
—2, IV TTh, FolH 103
—3, IV TTh, FolH 205
—4, V TTh, FolH 204

51 Reading German: Bgn for Juniors, Seniors (3 cr, §2A or 2B or 2H; prereq 50)
—1, I MWF, FolH 209½
—2, I MWF, Arch 60

54 German Literature in Translation (2 cr)
II TTh, AE 209, Kimber

56A Reading, Analysis of Literary Texts (3 cr; prereq 4 or 4 yrs HS Ger, not open to students with 70 or above)
—1, IV MWF, FolH 105
—2, V MWF, FolH 108
—3, V MWF, FolH 208

58 Composition (2 cr; prereq 57)
VI TTh, FolH 202

62 Conversation (2 cr; prereq 61)
VII TTh, FolH 208

71 Lyric Poetry from Goethe to Rilke (3 cr; prereq 56A or ♯)
11:15-12:30 TTh, FolH 305, F Wood

74 Drama from Lessing to the Present (3 cr; prereq 56A or 4, △)
IV MWF, FolH 209½, Menze

76 Prose of the 19th Centuries (3 cr; prereq 56A or ♯)
9:45-11:00 TTh, FolH 305

77 Prose of the 19th, 20th Centuries (3 cr; prereq 56A or ♯)
9:45-11:00 TTh, FolH 307, Weiss

80 History of German Language (3 cr; prereq 6 cr above 70)
I TTh, FolH 209½

89H Honors Course: Proseminar (3 cr; prereq cand for honors in Ger)
VIII-IX M, FolH 207, Taraba

92 Civilization, Culture (3 cr; prereq 3 cr above 70)
VII MWF, FolH 209½, Weiss

95 Survey of Literature (3 cr; prereq 3 cr above 70)
II MWF, FolH 209½, Friedrichsmeyer

98 Goethe (3 cr; prereq 9 cr above 70)
III MWF, FolH 208, Ramras

104 German Style, Composition (1 cr; prereq 66)
VII Th, FolH 306, Friedrichsmeyer

114 Methods of Comparative Germanic Linguistics (3 cr, †114-115; prereq 113)
VIII-IX M, FolH 108, C Wood

122 History of the German Language (3 cr, †122-123)
VIII-IX F, FolH 208, Coleman

141 Drama in Translation (3 cr; prereq sr, 9 cr theat arts or lit above 50, not open to maj or min)
II-III Th, FolH 302, Menze

149 Directed Reading (2-3 cr)

164 Goethe (3 cr; prereq sr, 14 cr above 70)
VIII-IX F, FolH 305, Ramras

171 Romanticism (3 cr; prereq sr, 14 cr above 70)
VIII-IX T, FolH 208, F Wood

177 19th Century Drama (3 cr; prereq sr, 14 cr above 70)
VI-VII W, FolH 208A, Menze

254 Seminar: 19th Century—Fontane (3 cr; prereq 1 yr grad work)
VIII-IX Th, FolH 208, Weiss

254A Seminar: 19th Century—Morike (3 cr; prereq 1 yr grad work)
VIII-IX W, FolH 208, Taraba

HISTORY (Hist)

1 Civilization of the Modern World (3 cr)
Lect VII TTh, C 100, Christianson
—1, I T, AH 9
—2, II T, E 303
—3, III M, C 115
—4, III W, C 115
—5, III F, C 115
—6, IV W, FolH 203
—7, IV F, FraH 20
—8, V T, Arch 135
—9, V Th, Arch 135
—10, V Th, VH 210
—11, VI T, Arch 140
—12, VI W, Bu 105
—13, VI Th, Ph 145
—14, VI Th, FraH 20
—15, VI Th, WuH 130
—16, VIII Th, Arch 40

1H Honors Course: Civilization of the Modern World (3 cr; prereq ♯)
Lect VII TTh, C 100, Christianson
Rec VII W, Bu 105, Christianson

2 Civilization of the Modern World (3 cr)
—1, Lect II TTh, C 100, Noonan
—1, I M, Owre 117
—2, I W, Owre 117
—3, I F, FraH 20
—4, I T, ForH 55
—5, I Th, ForH 55
—6, II F, ForH 50
—7, III T, AE 225
—8, III Th, AE 225
—9, III T, Arch 25
—10, III Th, AE 313
—11, V M, AH 101
—12, V W, Ex 193
—13, V F, Bu 125
—14, VI T, Arch 145
—15, VI Th, Arch 135
—16, VII M, CD 218
—17, VII W, CD 218
—18, VII F, CD 218
—19, VII T, Arch 135
—20, VII Th, AH 9

—2, Lect III TTh, NH 45, Wright
—21, I T, Arch 135
—22, I Th, AH 150
—23, II M, C 115
—24, II W, FolH 203
—25, II F, C 115
—26, II T, Arch 135
—27, II Th, Arch 135
—28, IV T, AH 101
—29, IV T, ForH 55
—30, IV Th, AE 313
—31, V T, AE 211
—32, V Th, AE 211
—33, VI M, ChE 158
—34, VI F, ChE 150
—35, VII M, ChE 158
—36, VII T, Arch 145
—37, VII W, Ex 193
—38, VII Th, Arch 135
—39, VII Th, VH 113
—3, Lect VI TTh, Bo B6, Rudolph
—40, I T, ForH 70
—41, I Th, ForH 70
—42, I F, ForH 70
—43, II T, Arch 145
—44, II Th, ChE 40
—45, V M, AH 150
—46, V W, AH 150
—47, V F, ForH 60
—48, VII T, Arch 35
—49, VII Th, AH 150
—50, VII T, AH 350
—51, VII Th, Bu 125
—4, Lect VII TTh, NH 45, Kieft
—52, II T, A 105
—53, II Th, CD 105
—54, II F, ForH 70
—55, III W, FolH 203
—56, III F, ForH 50
—57, IV T, Arch 40
—58, IV Th, CD 105
—59, V M, Bu 125
—60, V W, FraH B1
—61, V F, ChE 158
—62, V F, ForH 70
—63, VI M, FraH 102
—64, VI T, AE 319
—65, VI Th, AH 150
—66, VI F, ChE 158
—67, VIII T, Arch 145

2H Honors Course: Civilization of the Modern World (3 cr; prereq ‡)
—1, Lect II TTh, C 100, Noonan
Rec II W, FolH 108, Noonan
—2, Lect III TTh, NH 45, Wright
Rec VII Th, CB(W) 145, Wright
—3, Lect VI TTh, Bo B6, Rudolph
Rec VI W, ForH 346, Rudolph
—4, Lect VII TTh, NH 45, Kieft
Rec VII W, ForH 346, Kieft

5 English History (3 cr)
Lect IV TTh, C 100, Altholz
—1, I T, Arch 20
—2, I Th, ForH 261
—3, I F, ForH 60
—4, II Th, ForH 50
—5, II Th, A 105
—6, II Th, E 315
—7, III F, Arch 10
—8, IV F, ForH 50
—9, V F, Arch 10
—10, VI T, ME 214
—11, VI Th, ME 214
—12, VII M, Ex 193
—13, VII F, Arch 10
—14, VII Th, FraH 101

12 Medieval, Renaissance History (3 cr)
IV MWF, Bo B6, Buzicky, Hoyt

15 Ancient Civilization (3 cr)
—1, I MWF, ChE 240, Muhly
—2, VII TWTh, Bo B6, Leichty

15A Ancient Civilization with Readings (5 cr)
—1, I MWF, ChE 240, Muhly
I TTh, JohH 113, Muhly
—2, VII TWTh, Bo B6, Leichty
VII MF, CB(W) 240, T Jones

18 Asia (3 cr, §60)
2:15-3:30 TTh, SciB 325, Dietrich, Marshall, Zelliot

23 American History (4 cr; prereq soph)
Lect 7:45-9:00 TTh, C 100, Howe
—1, II M, ME 221
—2, II T, FraH 102
—3, II Th, A 201
—4, III W, Arch 20
—5, III F, ForH 60
—6, III F, FraH 120
—7, IV M, FraH 101
—8, IV F, FraH 101
—9, V T, AE 215
—10, V Th, AE 215
—11, V Th, MinMet 116
—12, VI T, Arch 20
—13, VI F, ForH 60
—14, VII M, FolH 109
—15, VII Th, Arch 35

23H Honors Course: American History (4 cr; prereq soph, ‡)
Lect 7:45-9:00 TTh, C 100, Howe
Rec III T, CB(W) 140, Howe

24 American History (4 cr; prereq soph)
Lect 2:15-3:30 TTh, MNH Aud, A Jones
—1, I T, MurH 311
—2, I Th, Arch 145
—3, I Th, MurH 311
—4, III T, Arch 45

—5, IV T, JohH 106
—6, IV Th, Arch 40
—7, IV Th, JohH 106
—8, IV F, ForH 70
—9, V M, FraH 20
—10, V T, AH 101
—11, V F, ChE 162
—12, VI T, Ph 143
—13, VI T, Ph 145
—14, VI Th, Arch 20
—15, VII M, NH 209

24H Honors Course: American History (4 cr; prereq soph, ‡)
Lect 2:15-3:30 TTh, MNH Aud, A Jones
Rec VI T, VH 113, A Jones

45 American Military History (3 cr, §Mil 45, but cr not appl to hist maj req or arts dist req)
—1, III MWF, A 116, Beard
—2, IV MWF, A 116, Beard
—3, VII MWF, A 116, Beard

51 Ancient Civilization (3 cr, §15)
—1, I MWF, ChE 240, Muhly
—2, VII TWTh, Bo B6, Leichty

54 Civilization of the Modern World (3 cr, §2)
Lect IV TTh, Arch 25, Thayer
—1, V T, Arch 145
—2, V Th, Arch 145
—3, VI T, MinMet 124
—4, VI Th, FraH 101

57 England (3 cr, §5)
Lect IV TTh, C 100, Altholz
—1, IV F, ForH 60
—2, V T, Ph 210
—3, V Th, FraH B1

60 Asia (3 cr, §18)
2:15-3:30 TTh, SciB 325, Dietrich, Marshall, Zelliot

74A Ancient Israel (3 cr, §Hebr 74)
V MWF, JohH 113, Paradise

75 History of the Arabs (3 cr, §Arab 75; prereq 74)
VII MWF, Arch 135, Chejne

80 United States in 20th Century (3 cr)
V MWF, CB(W) 10, A Jones

83H Honors Course: History (3 cr, †82H-83H-84H; prereq 82H)
VIII-IX W, CB(W) 430, Berkhofer

88A The Era of American Revolution (3 cr; prereq 87A or ‡)
V MWF, CB(W) 250, Howe

91 The American West (3 cr; prereq 90)
IV MWF, CB(W) 250, Berkhofer

91A American Social History (3 cr) T Smith

93A American Business History: Colonial to 1890 (3 cr)
VI MWF, CB(W) 135, Green

94 History of American Foreign Policy (3 cr)
VI MWF, CB(W) 10, Brauer

98 Minnesota, the Northwest (3 cr)
III MWF, CB(W) 10, Jordan

100B Directed Study (3 cr; prereq ‡)

101B Directed Study (3 cr; prereq ‡)

102B Directed Study (3 cr; prereq ‡)

104A Ancient Near East (3 cr)
VI TWTh, CB(W) 145, Leichty

104B Greece to 200 BC (3 cr)
VIII TWTh, CB(W) 215, T Jones

107A Europe in Early Middle Ages (3 cr)
9:45-11:00 TTh, CB(W) 235, Sawyer

107C Europe in Late Middle Ages, Renaissance, Reformation (3 cr)
III MWF, CB(W) 215, Tracy

116A Early Modern Europe (3 cr)
III MWF, CB(W) 105, Christianson

116D Europe in 20th Century (3 cr)
II MWF, CB(W) 10, Munholland

119C History of Germany (3 cr)
VI MWF, CB(W) 215, Kieft

119D Central Europe: 18th Century to 1867 (3 cr; prereq 3)
12:45-2:00 TTh, CB(W) 135, Wright

119E History of Early Russia (3 cr)
IV MWF, CB(W) 215, Noonan

119F Modern Russia (3 cr)
III MWF, CB(W) 410, Stavrou

119J History of Scandinavian Countries (3 cr)
II MWF, CB(W) 120, Oakley

122A Economic History of Europe (3 cr)
8:15-9:30 TTh, CB(W) 135, Rudolph

122C Intellectual, Cultural History of Modern Europe (3 cr)
II MWF, CB(W) 250, Thayer

134C Early Natl Period in U S (3 cr)
I MWF, CB(W) 135, Jordan

134E American History: 1850-1900 (3 cr)
II MWF, CB(W) 155, Loehr

140C Intellectual History of U S (3 cr)
11:15-12:30 TTh, MNH Aud, Noble

140F American Constitutional History (3 cr)
IV MWF, CB(W) 120, Murphy

140J Race, Nationality in American History: 1865-1920 (3 cr)
III MWF, CB(W) 135, Spear

143A American Economic History: American Revolution to 1860 (3 cr)
III MWF, CB(W) 225, Loehr

143C History of American Labor (3 cr)
9:45-11:00 TTh, CB(W) 10, Berman

146A Latin-American History (3 cr)
IV MWF, CB(W) 415

148A History of India (3 cr)
IV TTh, CB(W) 255, Zelliot

148E Chinese History to 1800 (3 cr)
V MWF, CB(W) 415, Dietrich

148F History of Japan to 1700 (3 cr)
VI MWF, BA(W) 933, Marshall

161A Proseminar: Ancient History (3 cr, †160A-161A-162A; prereq 160A) Muhly

161B Proseminar: Ancient History (3 cr, †160B-161B-162B; prereq 160B)
IX Th, SocSci(W) 628, Leichty

164A Proseminar: Medieval History (3 cr, †163A-164A-165A; prereq 163A)
VI-VII T, SocSci(W) 628, Hoyt, Sawyer

170C Proseminar: Europe in 18th Century (3 cr, †169C-170C-171C; prereq 169C)
2:15-4:15 T, SocSci(W) 1383, Wright

170E Proseminar: Recent European History (3 cr, †169E-170E-171E; prereq 169E)
VI-VII M, CB(W) 440, Munholland

173A Proseminar: 17th Century Europe (3 cr, †172A-173A-174A; prereq 172A)
VIII-IX W, SocSci(W) 1383, Christianson

173E Proseminar: Modern European Intellectual History (3 cr, †172E-173E; prereq 172E)
VII-VIII T, CB(W) 440, Thayer

173F Proseminar: Russian History (3 cr, †172F-173F-174F; prereq 172F)
VII-VIII W, SocSci(W) 628, Stavrou

173G Proseminar: Scandinavian History (3 cr, †172G-173G-174G)
2:15-4:00 M, BA(W) 933, Oakley

179A Proseminar: English History—Tudor, Stuart Periods (3 cr, †178A-179A-180A; prereq 178A)
3:30-5:20 F, CB(W) 115, Moir

179C Proseminar: Modern England—1783 to Present (3 cr, †178C-179C-180C; prereq 178C)
VIII-IX Th, SocSci(W) 633, Altholz

182A Proseminar: 17th, 18th Century American History (3 cr, †181A-182A-183A; prereq 181A)
4:15-6:15 W, SocSci(W) 633, Rutman

182B Proseminar: Era of the American Revolution (3 cr, †181B-182B-183B)
VII-VIII F, SocSci(W) 633, Howe

182D Proseminar: 19th Century American History (3 cr, †181D-182D-183D; prereq 181D)
V-VI W, SocSci(W) 628, Jordan

182J Proseminar: 20th Century American History (3 cr, †181J-182J-183J; prereq 181J)
VIII-IX W, CB(W) 255, Chambers

184E Proseminar: The Negro in American History (3 cr, †184E-185E)
1:15-3:00 W, SocSci(W) 860, Spear

185A Proseminar: The West in American History (3 cr, †184A-185A-186A; prereq 184A)
VI-VII M, SocSci(W) 628, Berkhofer

188A Proseminar: American Political, Constitutional History (3 cr, †187A-188A-189A; prereq 139F, 140F, 141F or ‡)
3:30-5:30 T, SocSci(W) 633, Murphy

188B Proseminar: History of American Foreign Policy (3 cr, †187B-188B-189B)
VIII-IX W, BA(W) 837, Brauer

188D Proseminar: Intellectual History of U S in 19th, 20th Centuries (3 cr, †187D-188D-189D; prereq 187D)
8:00 pm W, Noble

188E Proseminar: American Religious History (3 cr; prereq 187E) Smith

188F Proseminar: American Labor History (3 cr, †187F-188F-189F; prereq 187F)
2:15-4:00 T, BA(W) 933, Berman

188G Proseminar: American Economic History (3 cr, †187G-188G-189G; prereq 187G)
VI-VII M, SocSci(W) 633, Loehr

188J Proseminar: American Business History (3 cr, †188J-189J)
VIII-IX F, SocSci(W) 628, Green

191A Proseminar: Latin-American History (3 cr, †190A-191A-192A; prereq 190A)
VI-VII Th, SocSci(W) 633, T Jones

194A Proseminar: History of Japan (3 cr, †193A-194A; prereq 193A) Marshall

194B Proseminar: India (3 cr, †193B-194B-195B; prereq 193B)
II-III Th, SocSci(W) 628, Zelliot

211A Ancient History (3 cr, †210A-211A-212A; prereq 210A)
8:00-10:00 pm Th, SocSci(W) 715, T Jones

214A Medieval History (3 cr, †213A-214A-215A; prereq 213A)
VI-VII T, SocSci(W) 628, Hoyt

232A 17th Century American History (3 cr, †231A-232A-233A; prereq 231A) Rutman

232D 19th Century American History (3 cr, †231D-232D-233D; prereq 231D) Jordan

238E American Social, Educational History (3 cr, †237E-238E-239E, §HEd 297; prereq 237E) Smith

244C Seminar: History of Japan (3 cr, †243C-244C-245C; prereq 243C) Marshall

249A Ming, Ch'ing History (3 cr; prereq 248A) Dietrich

HUMANITIES (Hum)

1 Modern World I (5 cr, §1A or 51)
—1, I MTWThF, Ph 170, Sutton
—2, II MTWThF, FraH B1, Todd
—3, III MTWThF, JohH 122, Ramsland
—4, V MTWThF, FraH 101, Hallberg
—5, VI MTWThF, Arch 15, Brill
—6, VI MTWThF, Pt 102, Alsen
—7, VI MTWThF, JohH 114, Kheim
—8, VII MTWThF, MMA 125, Toth
—9, VII MTWThF, JohH 114, Griffin
—10, VIII MTWThF, JohH 114, Tracy
—11, VIII MTWThF, JohH 122, White

1H Honors Course: Modern World I (5 cr, §1 or 1A; prereq ♯ or △)
VIII MTWThF, SciB 527, Kliger

2 Modern World II (5 cr, §2A or 52; prereq 1, 1A)
—1, II MTWThF, JohH 114, Ramsland
—2, VI MTWThF, JohH 122, Milgrom
—3, VII MTWThF, Arch 40, Zimmerman

2A Modern World II (3 cr, §2 or 52; prereq 1 or 1A)
—1, II MWF, JohH 113, Scott
—2, VI MWF, AH 9, Waldauer

2H Honors Course: Modern World II (5 cr, §2 or 2A; prereq ♯ or △)
II-III TTh, AH 9, 1 hr ar, Zimmerman

3 Modern World III (5 cr, §3A or 53; prereq 2, 2A or 52)
VI-VII TTh, Z 313, 1 hr ar, Ramras

4 Modern World IV (5 cr, §54; prereq 1 or 1A, 2 or 2A, 3 or 3A)
VI MTWThF, Lib 4A, Atkin

12 Roman, Medieval Heritage (5 cr, §62)
VI MTWThF, ME 110, Kliger

22 American Life II (3 cr, 9 cr max in 21, 22, 23, 71, 72, 73)
—1, II MWF, VH 6
—2, III MWF, VH 6
—3, IV MWF, VH 6, Jones
—4, VI MWF, VH 6

51 Modern World (5 cr, §1 or 1A)
VI MTWThF, Ph 210, Hult

52 Modern World (5 cr, §2 or 2A)
—1, II MTWThF, FolH 209, Wood
—2, VI-VII TTh, ForH 55, 1 hr ar, Louden

54 Modern World (5 cr, §4)
—1, II MTWThF, A 12, Penn
—2, VI MTWThF, AE 225, Tembeck
—3, VII MTWThF, JohH 122, Hallberg

61 European Heritage (5 cr, §11)
VII-VIII TTh, Arch 60, 1 hr ar, Taraba

62 European Heritage (5 cr, §12)
—1, III-IV TTh, JohH 113, 1 hr ar, Louden
—2, VI-VII TTh, Arch 45, 1 hr ar, Weber
—3, I MTWThF, VH 207, Powell

72 Humanities in U S (3 cr, 9 cr max in 21, 22, 23, 71, 72, 73)
VII MWF, VH 6, Hage

99 Science and the Humanities (5 cr; prereq jr, sr or ♯)
IV MTWThF, FraH 120, Penn

132 Proseminar (3 cr; prereq sr)
—1, VI-VII M, ForH 346, Bryan
—2, VI-VII T, ForH 346, Ames
—3, VIII-IX Th, ForH 349, Kwiat

132H Honors Course: Proseminar (3 cr; prereq sr, △)
VI-VII Th, ForH 346, Ames

JOURNALISM AND MASS COMMUNICATION

Journalism (Jour)

1 Intro to Mass Communications (3 cr; prereq 2nd qtr fr with B Engl avg, 3rd qtr C avg or soph)
Lect I MW, MurH 308, Barden, Charnley
—1, Lab I-II F, MurH 212
—2, Lab VI-VII T, MurH 210
—3, Lab VI-VII Th, MurH 210

3 Communication in Modern World: Mass Media (3 cr, §Spch 3)
9:45-11:00 TTh, MurH 308, Gillmor

5 Visual Communication (3 cr; prereq 3rd qtr fr)
Lect VII MW, Bu 120, Schuneman, Wilson, CCTV
—1, Rec VII-VIII F, MurH 212, Krummert
—2, Rec VII-VIII F, MurH 20
—3, Rec VII-VIII Th, MurH 320, Krummert
—4, Rec VII-VIII F, MurH 320, Artz

11 Reporting for Nonmajors (3 cr; prereq soph, C avg, compl fresh Engl or exempt or Rhet 3)
VI MWF, MurH 302

14 Reporting (3 cr; prereq 1 or 13, soph, C avg or ¶Comp 27, type 35 words per min)
—1, I-II MW, MurH 212, 1 hr ar, Lindsay
—2, VI-VIII TTh, MurH 212, Charnley

16 Mass Communications Law (2 cr; prereq 1, ¶14)
III TTh, MurH 311, Gerald

18 **Prin of Advertising** (3 cr; prereq soph, 1, C avg, ¶Comp 27 or 28, up div students ¶)
—1, VI MWF, MurH 311, Barden
—2, IV MWF, MurH 308, Peterman

41 **Publications Editing** (3 cr; prereq soph, 1 or 11)
Lect IV T, MurH 311, McReynolds
—1, I-II TTh, MurH 207, Larson
—2, VI-VII TTh, MurH 206, McReynolds

50 **Interpretive Reporting** (3 cr; prereq soph B avg in 1, 14 or jr, C avg, Comp 27 or 28 or ‡)
I-II TTh, 1 hr ar, MurH 212

53 **Picture Editing** (3 cr; prereq 14 or 18 or ‡)
Lect III M, MurH 20, Schuneman
Lab III-IV WF, MurH 20, Artz, Schuneman

55 **Newspaper Editing** (2 cr; prereq 51, ¶56 or ‡)
Lect II T, MurH 311, Hvistendahl
—1, Lab III-IV T, MurH 206, Hudson
—2, Lab III-IV Th, MurH 206, Larson
—3, Lab VII-VIII F, MurH 206, Hudson

56 **Design, Typography: Editorial** (2 cr; prereq 51, ¶55 or ‡)
Lect II Th, MurH 311, Wilson
—1, Lab III-IV Th, MurH 315, Hudson
—2, Lab III-IV T, MurH 315, Larson
—3, Lab VII-VIII W, MurH 315, Wilson

59 **Adv Advertising Typography, Layout** (3 cr; prereq 57)
VI-VII TTh, MurH 315-320, Wilson

65 **Adv Photojournalism I** (3 cr, §7; prereq 6)
VI-VIII TTh, MurH 20, Schuneman

71 **Business, Industrial Journalism** (3 cr; prereq 41 or 51)
VI MWF, MurH 420, Schuneman

73 **Magazine Writing** (3 cr; prereq 41 or 50, ‡)
VI MWF, MurH 308, Hage

74 **Magazine Editing** (3 cr; prereq 73, 56 or ¶, ‡)
VII MWF, MurH 311, Charnley

79 **Advertising Copy Writing** (5 cr; prereq 18, 57, 60)
Lect II MWF, MurH 302, Harris
Lab III-IV TTh, MurH 212, Harris, Leinfelder

85 **Television News, Public Affairs** (3 cr; prereq 84)
VI MWF, MurH 212, Lindsay

101 Reporting of Public Affairs (3 cr; prereq sr, 51)
III MWF, MurH 302, Hage

110 **Topics: History of Journalism** (3 cr; prereq 109)
II MWF, MurH 311, Emery

114 Mass Communication Theory (3 cr; prereq 112)
III MWF, MurH 308, Nixon

118 Adv Projects (1-3 cr; prereq sr, jour maj, B avg, ‡)

121 **Mass Media in a Dynamic Society** (3 cr; prereq 18 or 50 for jour maj or ‡ for others)
IV MWF, MurH 311, Gillmor

125 Communication Systems of Western World (3 cr; prereq 15 cr soc sci...up div course intl rel rec)
VII MWF, MurH 308, Nixon

131 Public Opinion, Persuasion (3 cr; prereq 112)
VI MWF, MurH 210, Tichenor

141 Interpretation of Contemporary Affairs (3 cr; prereq sr, 51, 15 cr soc sci)
VI TTh, VII T, MurH 207, Gerald

149 Public Relations Prins (3 cr; prereq sr, 78, 112 or 15 cr soc sci, ‡)
2:15-3:30 TTh, MurH 311, Lindsay

161 Advertising: Print Media (3 cr; prereq 18, 57, 79, ¶162 or ‡)
2:15-3:30 TTh, MurH 420, Barden

162 Advertising: Radio, Television Media (3 cr; prereq 18, 79, ¶161 or ‡)
II MWF, MurH 308, Peterman

164 Current Advertising Developments, Probs (3 cr; prereq sr, 163 or ‡)
2:15-3:30 TTh, MurH 308, Alarik

201 **Scope, Methods of Communication Research** (3 cr; prereq cons adv)
VIII-IX W, MurH 311, Jones

209 Seminar: History of Communications (3 cr; prereq 110 or ‡) Emery

215 Seminar: Communications Analysis (3 cr; prereq 115, 200, 201, stat or ‡)
10:15-12:15 TTh, MurH 207, Tichenor

221 Seminar: Communication Agencies as Social Institutions (3 cr; prereq ‡) Gillmor

224 Seminar: Intl News Communication, Comparative Journalism (3 cr; prereq 124, 125 or 126, rdg foreign lang) Nixon

278 Seminar: Govt, Mass Communications (3 cr; prereq 177, 277 or ‡)
IV TTh, MurH 308, Gerald

291 Probs: Mass Communications (3 cr; prereq 290)

LIBRARY SCHOOL (Lib)

74 Library Materials in Classroom (3 cr)
6:30-9:00 pm T, Lib 4A

102 Reference I (3 cr)
9:30-10:45 TTh, Lib 4B, Van der Boom
103 Cataloguing, Classification (3 cr)
4:00-5:15 TTh, Lib 4A, Samanisky
171 Reading Guidance for Children (3 cr; prereq 104)
6:30-9:00 pm M, Lib 4A, Olson
241 Mechanization (3 cr; prereq 101, 103 or ‡)
6:30-9:00 pm Th, Lib 4A, Brekhus
242 Intro to Information Retrieval (3 cr; prereq 103 or ‡)
9:45-11:00 TTh, Lib 4A, Simonton
253 History of Books, Printing (3 cr; prereq ‡)
II MWF, Lib 4A, Shove
254 The Public Library (3 cr; prereq 101)
8:15-9:30 TTh, Lib 4A, Smith
255 The College, University Library (3 cr; prereq 101)
8:00-9:15 TTh, Lib 4B, Johnson
256 Special Libraries (3 cr; prereq 101)
3:30-5:30 M, Lib 4A, Aspnes
257 School Library Probs (3 cr; prereq 101)
II MWF, Lib 4B, Olson
261 Literature of Humanities (3 cr; prereq 102)
III MWF, Lib 4A, Van der Boom
265 Adv Bibliography (3 cr; prereq 102)
IV MWF, Lib 4A, Shove
277 History of Children's Literature (3 cr; prereq ‡)
IV MWF, Lib 4B, Kromer
295 Research (3 cr; prereq 101, 102, 103, 104, 105, grad program)
296 Research (3 cr; prereq 101, 102, 103, 104, 105, grad program)
297 Research (3 cr; prereq 101, 102, 103, 104, 105, grad program)

MIDDLE EASTERN LANGUAGES

Arabic (Arab)

2 Intro to Arabic Grammar, Reading (5 cr; prereq 1)
II MTWThF, FolH 303½, Saada
52 Interm Arabic (4 cr; prereq 51)
III MTThF, ForH 346
55 Dialectic Analysis (3 cr; prereq 54)
I MWF, FolH 303½
62 Arabic Composition (3 cr; prereq 61)
IV MWF, TSF 103
72 Adv Literary Arabic (3 cr; prereq 71)
III MWF, SciB 527, Chejne
75 History of the Arabs (3 cr, §Hist 75; prereq 74)
VII MWF, Arch 135, Chejne
105 Structure of Arabic (3 cr; prereq 2 yrs Arabic or ‡)
VI MWF, FolH 305½
152 Directed Readings (1-3 cr; prereq 151)
162 Hispano-Arabic Culture: Philosophy of Spain (3 cr, §Span 162; prereq ‡)
II MWF, VH 125, Chejne
192H Honors Course: Research (1-3 cr; prereq 153 or ‡)

Hebrew (Hebr)

2 **Bgn Hebrew** (5 cr; prereq 1)
—1, II MTWThF, Arch 20, Paradise
—2, VII MTWThF, Arch 20, Toledano
52 Interm Hebrew (4 cr; prereq 51)
III MTThF, Arch 20, Paradise
74 Ancient Israel (3 cr, §Hist 74A)
V MWF, JohH 113, Paradise

MUSIC (Mus)

1 Introduction (5 cr)
VI MTWThF, WuH 320, Goode
1T **Theory** (3 cr)
—1, II MTWThF, NMA 5, McSpadden
—2, V MTWThF, ScH 3
2T **Theory** (3 cr; prereq 1T)
—1, I MTWThF, ScH 3, Goode
—2, III MTWThF, ScH 3, Oberg
—3, IV MTWThF, ScH 3
—4, V MTWThF, MusEd 200, Bachelder
—5, VI MTWThF, ScH 3, McSpadden
—6, VII MTWThF, ScH 3, Goode
—7, VIII MTWThF, ScH 3, McSpadden
—8, IX MTWThF, ScH 103, Johnson
4 **Fundamentals** (2 cr; prereq non maj)
—1, I MW, NMA 5, I TTh, MusEd 103, Snesrud
—2, I MW, MusEd 103, I TTh, WuH 320, Dickinson
—3, II MW, MusEd 103, II TTh, NMA 4, Lauritzen
—4, III MW, NMA 5, III TTh, MusEd 103, Spino
—5, IV MW, MusEd 103, IV TTh, NMA 5, Dickinson
—6, V MW, WuH 320, V TTh, MusEd 103, Lauritzen
—7, VII MW, MusEd 103, VII TTh, ScH 104, Lauritzen
—8, VIII MW, ScH 103, VIII TTh, MusEd 103
4T **Theory** (4 cr; prereq 3T)
V MTWThF, ScH 103, McSpadden

5T Theory (4 cr; prereq 4T)
—1, I MTWThF, ScH 103, Malcolm
—2, II MTWThF, ScH 103, Malcolm
—3, VI MTWThF, ScH 103, Malcolm

11 Piano (2-4 cr; prereq entr exam or placement test)
MuHr IV T, ScH 108, Lesson ar, ScH 107, Freed, Ivory, McNab, Weiser

11B Piano: Class Lessons (2 cr; prereq 11A)
Mu Hr IV T, ScH 108
—1, III MWF, MusEd 103, McIntyre
—2, V MWF, MusEd 103, McIntyre
—3, VI MWF, MusEd 103, McIntyre
—4, VIII MWF, MusEd 103, McIntyre

12 Voice (2 or 4 cr; prereq entr exam or placement test)
MuHr IV T, ScH 108, Lesson ar, ScH 107, Knowles, Oja, Schuessler

12B Voice: Class Lessons (2 cr; prereq 12A)
Mu Hr IV T, ScH 108
—1, IV MWF, WuH 7, Robinson
—2, V MWF, WuH 7, Robinson
—3, VI MWF, WuH 7, Robinson
—4, I MWF, WuH 7, King, Schuessler (theatre undergrads only)
—5, III MWF, ShH 115, Corrigan, Schuessler (theatre undergrads only)

13 Violin (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, McSpadden, Sambuco

14 Viola (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, McSpadden, Sieber

15 Cello (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Jamieson

16 Double Bass (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fitch

17 Flute (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Nicosi, Opava

18 Oboe (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Angelucci

19 Clarinet or Saxophone (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fitch, Williams

20 Bassoon (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Beckerman

21 Trumpet (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Chenette, Tetzlaff

22 French Horn (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Binstock

23 Trombone (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Weinman, Zellmer

24 Tuba (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Walton

25 Percussion (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Dahlgren, Fine

26 Harp (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Miller

27 Organ (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fleischer

28 Harpsichord (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107

29 Guitar (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Van

30 Accordion (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Hane, Malmberg

32 Music Literature (2 cr)
II MWF, WuH 320, McIntyre

35 History of Music (3 cr; prereq 3T)
III MTWThF, WuH 320, Laudon

39 Women's Glee Club (1 cr; prereq ♯)
V TTh, NMA 5, Schwartz

41 Orchestra (1 cr; prereq ♯)
VIII-IX MWF, WuH 320, 7:00 pm T, NMA Stage, Sieber

43 Chorus (1 cr; prereq ♯)
—1, IV MWF, NMA 4, 5, 7:00 pm T, SciB 325, Schwartz
—2, VI MWF, 7:00 pm T, NMA 4, 5, Schwartz

44S St Paul Campus Chorus (1 cr; prereq ♯)
IX-X TTh, CofH 225 (StP Campus) Kleinsasser

47 Concert Band (1 cr; prereq ♯)
—1, VIII-IX MTWTh, NMA 4, 5, Bencriscutto
—2, VIII-IX MWF, NMA 4, 5, Bencriscutto
—3, VIII-IX TWTh, NMA 4, 5, Bencriscutto

49 Men's Glee Club (1 cr; prereq ♯)
V MWF, NMA 5, Kleinsasser

50 Introduction (5 cr, §1, open to jr, sr non-mus students)
II MTWThF, ScH 108, Laudon

52 History of Musical Styles II (4 cr; prereq non-mus maj, 1 or 50)
IV MWThF, WuH 320, Godt

55 Instrumental Ensemble (2 cr)
II MWF, WuH 7, Oberg

58 Chamber Singers (2 cr; prereq ♯)
VII MWF, NMA 5, Schwartz

61 Piano (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Freed, Ivory, McNab, Weiser

62 Voice (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Knowles, Oja, Schuessler

63 Violin (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, McSpadden, Sambuco

64 Viola (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, McSpadden, Sieber

65 Cello (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Jamieson

66 Double Bass (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fitch

67 Flute (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Niosi, Opava

68 Oboe (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Angeluoci

69 Clarinet or Saxophone (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fitch, Williams

70 Bassoon (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Beckerman

71 Trumpet (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Chenette, Tetzlaff

72 French Horn (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Binstock

73 Trombone (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Weinman, Zellmer

74 Tuba (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Walton

75 Percussion (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Dahlgren, Fine

76 Harp (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Miller

77 Organ (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fleischer

78 Harpsichord (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107

79 Guitar (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Van

80 Accordion—Classical (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Hane, Malmberg

84 Form, Analysis (3 cr; prereq 6T)
I MWF, ScH 104, Argento

91 Adv Instrumental Ensemble (2 cr; prereq sr, 56)
II MWF, WuH 7, Oberg

96H Honors Course: Independent Study (2-6 cr; prereq GPA 3.0)

98 Counterpoint (2 cr; prereq 97)
VI TTh, NMA 4, Fetler

100 Adv Applied Music (2 or 4 cr; prereq entr exam)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107

101B Voice Production for Theatre (2 cr; prereq th arts grad, ‡)
—1, II MWF, ShH 115, Corrigan, Schuessler
—2, III MWF, WuH 7, King, Schuessler

105 American Music (3 cr; prereq 104)
IV MWF, ScH 104, Riedel

113 History of Vocal Art (2 cr; prereq 18 cr in 12, 62 or ‡)
VI TTh, ScH 104, Schuessler

119 Piano Literature (2 cr; prereq 12 cr in 11 or ‡)
VIII TTh, ScH 103, Weiser

122 Adv Harmony (2 cr; prereq 121)
II TTh, ScH 3, Argento

125 History of Opera (3 cr; prereq 124)
VII MWF, ScH 104, Argento

128 Composition (2 cr; prereq 127)
VI-VII MW, ScH 203, Fetler

131 Symphonies of Beethoven (3 cr; prereq 6 cr mus hist or art hist or pol hist or Engl or Ger lit since 1750 or ‡)
II TTh, WuH 320, Oberg

131A Late Romantic Music (3 cr; prereq 36 or ‡)
VIII MWF, WuH 230, Riedel

140 Interpretation of Choral Masterpieces (3 cr; prereq sr or grad, 6T or ‡)
II MWF, ScH 3, Schwartz

142 Orchestration (2 cr; prereq 141)
I TTh, ScH 104, Argento

148 Opera Workshop (2 cr)
6:30-8:00 pm M, WuH 7, Knowles

161 Band Arranging (3 cr; prereq 6T, 143 or MuEd 65 or ‡)
IV T, IV-V Th, NMA 4, Bencriscutto

165 Baroque Era (3 cr; prereq 164)
VII MWF, WuH 7, Laudon

171 Piano Pedagogy I (2 cr; prereq 170 or ‡)
II TTh, MusEd 103, McIntyre

181 Piano Pedagogy II (2 cr; prereq 180 or ‡)
IV TTh, MusEd 103, McIntyre

186 Collegium Musicum (1 cr; prereq ‡) Godt

198 Adv Counterpoint (2 cr; prereq 197)
VII TTh, ScH 103, Fetler

204 Graduate Applied Music (4 cr; prereq entr exam)
Lesson ar, ScH 107

206 Notation of Polyphonic Music (3 cr; prereq 205)
IX MWF, ScH 3, Godt

212 Problems (3-9 cr; prereq 110)

227 Seminar: Composition, Orchestration (3 cr)
IV MWF, ScH 203, Fetler

228 Seminar: Composition, Orchestration (3 cr; prereq 227)
IV MWF, ScH 203, Fetler

229 Seminar: Composition, Orchestration (3 cr; prereq 228)
IV MWF, ScH 203, Fetler

NATURAL SCIENCE (NSci)

2 Orientation (5 cr, †1-2; prereq 1)
Lect VII MTWThF, Ph 150, Graubard
—1, Lab I M, Ph 246
—2, Lab I T, Ph 246
—3, Lab I W, Ph 246
—4, Lab I Th, Ph 246
—5, Lab I F, Ph 246
—6, Lab II M, Ph 246
—7, Lab II T, Ph 246
—8, Lab II W, Ph 246
—9, Lab II Th, Ph 246
—10, Lab II F, Ph 246
—11, Lab III M, Ph 246
—12, Lab III T, Ph 246
—13, Lab III W, Ph 246
—14, Lab III Th, Ph 246
—15, Lab III F, Ph 246
—16, Lab IV M, Ph 246
—17, Lab IV T, Ph 246
—18, Lab IV W, Ph 246
—19, Lab IV Th, Ph 246
—20, Lab IV F, Ph 246
—21, Lab V M, Ph 246
—22, Lab V, T, Ph 246
—23, Lab V W, Ph 246
—24, Lab V Th, Ph 246
—25, Lab V F, Ph 246
—26, Lab VI M, Ph 246
—27, Lab VI T, Ph 246
—28, Lab VI W, Ph 256
—29, Lab VI Th, Ph 246
—30, Lab VI F, Ph 246
—31, Lab VIII M, Ph 246
—32, Lab VIII T, Ph 246
—33, Lab VIII W, Ph 246

4 Physical World (4 cr, †4-5, §1 or elem physical sci; prereq 1 yr HS alg)
I MWF, Ph 150, Hobbie
Lab sec assigned first 2 days of class

5 Physical World (4 cr, †4-5; prereq 4)
—1, I MWF, SciB 375, Spees
—2, VIII MWF, SciB 375, Spees
Lab sec assigned first 2 days of class

173 Development of Sciences (3 cr; prereq 1 yr HS or coll biological, physical sci or ‡)
IV MWF, Arch 140, Graubard

PHILOSOPHY (Phil)

1 Problems (5 cr; prereq 3rd qtr fr)
Lect II MWF, FraH 102, Lewis
—1, I TTh, ForH 30
—2, II TTh, ForH 285
—3, III TTh, ForH 285
—4, IV TTh, ForH 285
—5, V TTh, ForH 30
—6, VI TTh, ForH 285
Lect VII MWF, ForH 155, McLaughlin
—7, VI TTh, ForH 40
—8, VII TTh, ForH 130
—9, II TTh, ForH 40
—10, III TTh, ForH 40

2 Logic (5 cr)
Lect III MWF, Owre 15, Terrell
—1, I TTh, ForH 40
—2, II TTh, ForH 175
—3, III TTh, ForH 175
—4, IV TTh, ForH 40
—5, V TTh, ForH 40
—6, VI TTh, ForH 349
—7, VII TTh, ForH 40
—8, II TTh, ForH 349
—9, IV TTh, ForH 349
—10, V TTh, ForH 130
—11, VI TTh, ForH 130
—12, VII TTh, MinMet 116
Lect VI MWF, ChE 240
—13, II TTh, ForH 130
—14, III TTh, ForH 349
—15, IV TTh, ForH 130
—16, V TTh, ForH 349
—17, VI TTh, J 306
—18, III TTh, ForH 130

3 Ethics (5 cr; prereq 3rd qtr fr)
Lect VII MWF, NH 45, Cohen
—1, I TTh, ForH 175
—2, II TTh, VH 205
—3, III TTh, VH 205
—4, V TTh, ForH 170
—5, VI TTh, VH 303
—6, VII TTh, ForH 175

51 History of Western Philosophy (4 cr)
Lect II MWF, Owre 15, Matthews
—1, I T, ME 102
—2, II T, VH 307
—3, III T, VH 303
—4, I Th, ME 102
—5, II Th, ForH 170

51H Honors Course: History of Western Philosophy (4 cr)
Lect II MWF, Owre 15, Matthews
Lab III Th, VH 303

70 Logic of Scientific Reasoning (3 cr; prereq 2)
III MWF, ForH 115, Hanson

91H Honors Course: Seminar (3 cr; prereq honors cand, 6 cr up div courses, △) Raab

106 American Philosophy from William James (3 cr; prereq 1 or 1 qtr hist of phil or ♯)
II MWF, ForH 160, Potter

110 History of Ethics: Kant (3 cr; prereq 3 or 1 qtr hist of phil or ♯)
II MWF, ForH 170, Murphy

116 Plato, Aristotle (3 cr; prereq 50 or ♯)
VI MWF, ForH 130, Cohen, Matthews

136 Brentano (3 cr; prereq 52 or ♯)
VII MWF, ForH 175, Terrell

142 Studies: Contemporary Philosophy (3 cr; prereq 52 or ♯)
2:15-3:30 TTh, ForH 285, Mason

151 Aesthetics (3 cr; prereq 3 cr phil or ♯)
VI MWF, ForH 150, Murphy

155 Interm Symbolic Logic (3 cr; prereq 154)
III MWF, ForH 175, Brodbeck

164 Logic of Social Sciences I (3 cr; prereq 15 cr educ or hist or phil or psy or soc sci or ♯)
VI MWF, ForH 115, Brodbeck

171 Philosophies of India I (3 cr; prereq 5 cr phil or 3 cr India courses or ♯)
VII MWF, ForH 170, Potter

211 Seminar: Moral Philosophy (3 cr; prereq 150) Mason

224 Seminar: Epistemology (3 cr; prereq 158 or ♯) Lewis

244 Seminar: Philosophy of Psychology (3 cr; prereq writ ♯) Feigl

261 Seminar: Metaphysics (3 cr; prereq 157 or ♯) Raab

POLITICAL SCIENCE (Pol)

A State in Modern World (3 cr)
VI MWF, Bo B6, Schwarz

B State in Modern World (3 cr; prereq A)
—1, II MWF, MNH Aud, Fogelman
—2, VII MWF, Z 313, Benjamin

1 American Govt, Politics (3 cr, †1-2)
—1, IV MWF, MNH Aud, Eidenberg
—2, VI MWF, SciB 325, Backstrom

2 American Govt, Politics (3 cr, †1-2; prereq 1)
—1, 9:45-11:00 TTh, MNH Aud, Gieske
—2, VI MWF, ScH 108, RePass
—3, III MWF, Bo B6, Shaw
—4, VIII MWF, Arch 130, Penikis

25 World Politics (3 cr)
VII MWF, SciB 325, Blue

26 American Foreign Policy (3 cr)
VI MWF, NH 211, Penikis

30 **American Public Policy** (3 cr)
2:15-3:30 TTh, Arch 5, Chase

40 **Contemporary Political Ideologies** (3 cr)
III MWF, Arch 25, Cooperman

61 Legal Systems (3 cr; prereq jr or ‡)
VII MWF, Arch 145, Gerstein

91H Honors Course: Senior Honors Seminar (3 cr; prereq 90H)
1:15-3:15 TTh, SocSci(W) 1408, Holt

95 Major Paper (no cr; prereq pol sci maj, cons maj adv)

99B Adv Tutorial: Intl Relations (3 cr; prereq jr or sr, 9 cr up div courses, ‡)
11:15-1:00 T, SocSci(W) 1383, Klein

102 **American Constitution II** (3 cr; prereq 101)
9:45-11:00 TTh, CB(W) 150, Chase

108 **Legislative Organization, Procedure** (3 cr; prereq 2 or ‡)
VI MWF, CB(W) 250, Eidenberg

117 **Community Power Structures** (3 cr; prereq 2 or ‡)
IV MWF, CB(W) 135, Scott

130 **Administrative Process I** (3 cr; prereq 2 or ‡)
III MWF, CB(W) 120, Jernberg

137 **American Political Parties** (3 cr; prereq 2 or ‡)
VII MWF, CB(W) 410, Backstrom

142 **European Govt, Politics** (3 cr, †141-142; prereq 141)
III MWF, CB(W) 155, Schwarz

150 **Govt, Politics of South Asia** (3 cr; prereq 149)
II MWF, CB(W) 430, Blue

154 Chinese Govt, Politics (3 cr)
11:15-12:30 TTh, CB(W) 150, Benjamin

156 **Latin-American Govt, Politics II** (3 cr; prereq 155 or ‡)
II MWF, CB(W) 135, Klein

159A Comparative Govt Systems: Principles, Problems (3 cr; prereq 6 cr up div course or ‡)
VI MWF, CB(W) 105, Holt

160 **American Political Thought** (3 cr; prereq B or 9 cr soc sci or ‡)
IV MWF, CB(W) 10, Cooperman

161 **Probs of Democracy** (3 cr; prereq B or 9 cr soc sci or ‡)
V MWF, CB(W) 5, Shaw

165 **Medieval Political Thought** (3 cr; prereq B or 9 cr soc sci or ‡)
II MWF, CB(W) 410, Sibley

168 **Political Behavior** (3 cr; prereq 167)
2:15-3:30 TTh, CB(W) 140, Flanigan

176 U S Foreign Affairs Admin (3 cr)
12:45-2:00 TTh, CB(W) 5, Penikis

181 Intl Law: Peace (3 cr, †180-181; prereq 180)
9:45-11:00 TTh, CB(W) 155, Gerstein

185 **Intl Politics II** (3 cr; prereq 184)
VII MWF, CB(W) 215, Pirro

188 **Intl Organization II** (3 cr)
III MWF, CB(W) 415, Riggs

201 Scope, Methods II (3 cr; prereq ‡)
7:00-9:00 **pm** Th, SocSci(W) 1450, Flanigan

205B Topics: Development of Political Thought (3 cr; prereq 165 or ‡)
3:15-5:15 M, SocSci(W) 1450, Sibley

212B Contemporary Political Theory (3 cr; prereq 212A)
7:00-9:00 **pm** W, SocSci(W) 1450, Fogelman

220A Govt, Politics in Western Europe (3 cr; prereq 142)
3:15-5:15 T, SocSci(W) 1450, Schwarz

223 Government, Politics of China (3 cr; prereq 154)
3:15-5:15 M, SocSci(W) 633, Turner

228 Democratic Systems (3 cr; prereq 142)
10:15-12:15 Th, SocSci(W) 1450, Blue

230 Politics of Developing Systems (3 cr; prereq 157 or ‡)
10:15-12:15 W, SocSci(W) 1450, Holt

235A Seminar: Intl Politics (3 cr; prereq 184 or 185 or ‡)
1:15-3:15 Th, SocSci(W) 1450, Pirro

238B Seminar: Intl Organizations (3 cr; prereq 238A)
3:15-5:15 W, SocSci(W) 1450, Riggs

246 Seminar: Foreign Policy (3 cr; prereq 177 or ‡)
3:15-5:15 Th, SocSci(W) 1450, Sapin

251 Seminar: Political Parties (3 cr; prereq ‡)
1:15-3:15 T, SocSci(W) 1450, Sorauf

258A Research Seminar: Politics, Behavior (3 cr; prereq ‡)
3:15-5:15 M, SocSci(W) 628, RePass

260 Seminar: Legislative Process (3 cr; prereq ‡)
1:15-3:15 Th, SocSci(W) 860, Backstrom

266 Seminar: Public Policy (3 cr; prereq ‡)
1:15-3:15 T, SocSci(W) 633, Eidenberg

290B Seminar: Constitutional Law (3 cr; prereq 101, 102, 103 or ‡)
3:15-5:15 T, SocSci(W) 1408, Chase

PSYCHOLOGY

Personal Orientation (PO)

1 **How to Study** (2 cr but cr does not count toward BA degree)
—1, I MWF, JohH 106

—2, II MWF, JohH 105
—3, V MWF, JohH 106
—4, VII MWF, JohH 106

Psychology (Psy)

1 Gen Psychology (3 cr, †1-2; prereq soph or 3rd qtr fr with B avg)
—1, IV MWF, NH 45, CCTV
—2, VI MWF, NH 45, CCTV
—3, VIII MWF, NH 45, CCTV
—4, VI MWF, AgEng 108, GorC 12, (StP Campus) CCTV
—5, VIII MWF, AgEng 105, GorC 15, (StP Campus) CCTV

2 Gen Psychology (3 cr, †1-2; prereq 1)
I MWF, NMA, CCTV

2R Gen Psychology (3 cr, †1-2; prereq 1)
I MWF, GorC 12, 15, AgEng 108, (StP Campus) CCTV

4 Lab Psychology (2 cr, †4-5; prereq soph, 2 or ¶1-2)
Lect VI T, NH 45, Fox, others
—1, Lab I-II M, WeH 101, Fox, others
—2, Lab V-VI M, WeH 101
—3, Lab III-IV T, WeH 101
—4, Lab VII-VIII T, WeH 101
—5, Lab IX-X T, WeH 101
—6, Lab I-II W, WeH 101
—7, Lab IX-X W, WeH 101
—8, Lab I-II F, WeH 101
—9, Lab IX-X F, WeH 101
—10, Lab I-II S, WeH 101

5 Lab Psychology (2 cr, †4-5; prereq 4)
—1, Lect IV T, NH 45, Fox, others
—2, Lect V T, NH 45, Fox, others
—1, Lab III-IV M, WeH 101, Fox, others
—2, Lab VII-VIII M, WeH 101
—3, Lab IX-X M, WeH 101
—4, Lab I-II T, WeH 101
—5, Lab V-VI T, WeH 101
—6, Lab III-IV W, WeH 101
—7, Lab V-VI W, WeH 101
—8, Lab VII-VIII W, WeH 101
—9, Lab I-II Th, WeH 101
—10, Lab III-IV Th, WeH 101
—11, Lab V-VI Th, WeH 101
—12, Lab VII-VIII Th, WeH 101
—13, Lab IX-X Th, WeH 101
—14, Lab III-IV F, WeH, 101
—15, Lab III-IV S, WeH 101

70H Honors Course: Prin of Psychological Measurement (3 cr, §QA 5; prereq 2 or 5, ♯)
VI MWF, ForH 160, Campbell

104 Human Learning A (3 cr; prereq 75, students in sequence A, grad exempt)
IV MWF, Arch 5, Fox

117 Analysis of Behavior (3 cr; prereq 75, students in sequence A, grad exempt)
9:45-11:00 TTh, Arch 50, 3:45-5:00 W, Arch 35, MacCorquodale

120 Personality (3 cr, †120-121; prereq 9 cr psy)
11:15-12:30 TTh, Bo B6, Tellegen

126 Differential Psychology (3 cr, †125-126; prereq 5 or 70, 5 cr stat)
9:45-11:00 TTh, 3:45-5:00 W (for grad students, honors cand), Arch 50, Dunnette

128 Psychology of Learning (3 cr; prereq 75, students in sequence A, grad exempt)
III MWF, WuH 230, Trapold

130 Vocational, Occupational Psychology (3 cr; prereq 2, 5 or 5 cr stat)
Lect III TTh, WuH 230, Lofquist, others
—1, Lab V-VI F, WeH 101, Lofquist, others
—2, Lab VII-VIII F, WeH 101

132 Motivation (3 cr, †132-133; prereq 9 cr)
VI MWF, WuH 230, Russell (V F, for grad students only)

136 Counseling Psychology II: Tests, Measurements (3 cr; prereq 135, 125-126 or ¶ or ♯)
VII MWF, VH 1, Warnken

140 Social Psychology (3 cr; prereq 2, 5, 9 cr soc sci)
9:45-11:00 TTh, Bo B6, Miller

144 Abnormal Psychology (3 cr, †144-145; prereq 6 or 9 cr, Biol 2 or 12 cr soc sci)
VIII MWF, C 100, Phillips

156 Psychology of Advertising (3 cr; prereq 2, prin of econ)
VII MWF, Mayo 100, Longstaff

160 Personnel Work (3 cr; prereq 2, 5, or 3 cr in stat, prin of econ or ♯)
VI MWF, Z 313, Longstaff

163 Behavior of Organizations (3 cr; prereq 162)
IV MWF, ForH 285, Weick

168 Quantitative Methods (3 cr; prereq ♯)
VIII MWF, JohH 106, Yellott

172 Clinical Psychology (3 cr, †171-172; prereq 171)
VI MWF, ForH 155, Schofield

190 Project (ar cr; prereq sr, ♯)

206 Seminar: Psychopharmacology (1 cr; prereq 205, ♯) Heistad, Thompson, others

207 Adv Social Psychology (2 cr; prereq ♯) 2:15-5:00 T, FolH 202, Miller, Weick

208 Adv Social Psychology (2 cr; prereq 207) Miller, Weick

211 Research Probs (ar cr)

213 **Seminar: Philosophical Psychology** (3 cr; prereq course in logic or phil, psy PhD cand, ♯)
VIII-IX Th, WuH 130, Meehl

216 Seminar: Areas of Psychology, Related Sciences (ar cr)

219 Practicum in Rehabilitation Counseling Psychology (3 cr; prereq 218) Lofquist, Matthews, Warnken

222 Seminar: Personality Research (ar cr; prereq ♯) Lykken

225 Seminar: Adv Clinical Child Psychology (1 cr; prereq ♯) Hafner, Quast

228 Seminar: Vocational Rehabilitation Counseling (1 cr; prereq 227)
IX-X alt F, Psy 109, Warnken

231 Field Work: Psychometric, Applied Psychology (ar cr; prereq written cons)

236 Counseling Psychology Practicum (1-3 cr; prereq 235) Berdie, others

241 Seminar: Student Personnel Work (1 cr; prereq ♯) Williamson

248 Seminar: Mathematical Behavior Theory (3 cr; prereq ♯)
2:15-3:30 TTh, Psy 109, LaBerge, Yellott

251 Adv Seminar: Vocational Rehabilitation Counseling (1 cr; prereq 250)
VIII-IX alt F, Psy 109, Lofquist

255 Experimental Psychopathology (3 cr, †255-256; prereq CD 210-211-212 or ♯) Garmezy

261 Seminar: Industrial, Organizational Psychology (2 cr, †260-261-262; prereq 260) Dunnette

266 Seminar: Adv Clinical Psychology (1 cr; prereq 265) Hathaway

270 Adv Psychological Measurement (3 cr)
VI MWF, ForH 261, J Campbell

276 Seminar: Research in Counseling Psychology (1 cr; prereq 275) D Campbell

279 Marriage Counseling (3 cr; prereq 278) Neubeck

282 The Social Psychology of Marriage (ar cr, §Soc 282; prereq ♯) Neubeck

285 Seminar: Psychology of Language (3 cr; prereq 284) Jenkins

292B Professional Methods in Clinical Psychology I (4 cr; prereq clin psy program or ♯, ¶171-172)
Lect 2:15-3:30 TTh, FolH 308, Butcher
—1, 3:45-5:00 Th, JohH 106, Butcher, others
—2, 3:45-5:00 Th, Bu 105
—3, 2:30-5:30 M, Ph 210

293B Professional Methods in Clinical Psychology II: Theories of Intervention (4 cr; prereq PhD cand in clinical psy, 292A-B-C)
3:45-5:00 TTh, Psy 109, Meehl, others

294B Professional Methods in Clinical Psychology III: Techniques of Intervention (4 cr; prereq PhD cand in clinical psy, 293A-B-C)
3:45-5:00 TTh, JohH 113, Meehl, others

296 Internship in Clinical Psychology (2-4 cr; prereq PhD cand clinical psy, cons of director)

299 Tabulating Equipment Lab (1 cr; prereq PubH 111) Swanson

PUBLIC ADMINISTRATION (PA)

224 Social Welfare Admin (3 cr)
VIII-IX W, CB(W) 415, Rosenthal

226B Social Gerontology (3 cr; prereq 226A)
3:45-5:45 T, BA 632, Anderson

270A Public Admin Seminar: Organization Theory, Admin Behavior (3 cr; prereq △)
3:45-5:45 M, CB(W) 415, Warp

270B Public Admin Seminar: Finance (3 cr; prereq △)
—1, III-IV F, SocSci(W) 860
—2, III-IV S, CB(W) 425, Jernberg
—3, III-IV F, SocSci(W) 1383, Warp, others
—4, 3:45-5:45 Th, SocSci(W) 860, Steen

270C Public Admin Seminar: Personnel (3 cr; prereq △)
3:45-5:45 T, CB(W) 450, Rosenthal

275 Seminar: Comparative Public Admin (3 cr; prereq ♯)
VIII-IX F, SocSci(W) 1450, Warp, others

278 Administrative Law (3 cr; prereq ♯)
I-II S, CB(W) 425, Warp

280B Seminar: Local Admin (3 cr; prereq ♯)
VIII-IX M, CB(W) 435, Peterson

282B Admin Internship (ar cr; prereq △)
—1, VI T, SocSci(W) 1383, Jernberg
—2, VII Th, SocSci(W) 1383, Rosenthal

283B Research Seminar: Public Admin (3 cr; prereq ♯) Warp

284B Individual Reading, Research in Public Admin (3 cr; prereq 284A) Warp, others

ROMANCE LANGUAGES

French (Fren)

1 Bgn French (5 cr)
—1, I MTWThF, FolH 105
—2, I MTWThF, FolH 109
—3, I MTWThF, ForH 359
—4, II MTWThF, FolH 105
—5, III MTWThF, ChE 154
—6, IV MTWThF, Z 313
—7, IV MTWThF, FolH 107
—8, V MTWThF, ChE 240
—9, V MTWThF, Ph 170
—10, VI MTWThF, FolH 308
—11, VII MTWThF, FolH 105
—12, VII MTWThF, FolH 104
—13, VIII MTWThF, FolH 104

2 Bgn French (5 cr; prereq 1 or 1 yr HS Fren)
—1, I MWF, MurH 311
III TTh, AE 211, CCTV
—2, I MWF, FolH 202
VII TTh, AE 211, CCTV
—3, II MWF, ForH 155
III TTh, AE 215, CCTV
—4, II MWF, Owre 12
VII TTh, AE 215, CCTV
—5, III MWF, AE 321
III TTh, AE 319, CCTV
—6, III MWF, FolH 202
VII TTh, AE 313, CCTV
—7, IV MWF, ForH 130
III TTh, AE 321, CCTV
—8, IV MWF, ME 110
VII TTh, AE 319, CCTV
—9, V MWF, MurH 302
III TTh, Bu 123, CCTV
—10, VI MWF, FolH 303
VII TTh, AE 327, CCTV
—11, VI MWF, AE 321
III TTh, Arch 15, CCTV
—12, VI MWF, AE 317
VII TTh, Arch 15, CCTV
—13, VII MWF, FolH 201
III TTh, Arch 30, CCTV
—14, VII MWF, FolH 202
VII TTh, Arch 30, CCTV
—15, VIII MWF, FolH 202
III TTh, Arch 60, CCTV

2H Honors Course: Bgn French (5 cr; prereq 1 or ♯)
V MTWThF, Owre 111

3 Bgn French (5 cr; prereq 2 or 2 yrs HS Fren)
—1, I MTWThF, FolH 201
—2, I MTWThF, MurH 420
—3, II MTWThF, FolH 109
—4, IV MTWThF, FolH 201
—5, V MTWThF, FolH 202

25 Interm French (5 cr, §old 4; prereq 3 or 3 yrs HS Fren)
—1, I MTWThF, FolH 104
—2, II MTWThF, CD 218
—3, II MTWThF, FolH 201
—4, III MTWThF, ChE 158
—5, IV MTWThF, FolH 104
—6, V MTWThF, FolH 201
—7, VI MTWThF, FolH 104

25H Honors Course: Interm French (5 cr; prereq 3H or ♯)
IV MTWThF, VH 125

30 Intro to Literary Texts (3 cr; prereq 25 or 4 yrs HS Fren or ♯)
—1, IV MWF, FolH 303
—2, V MWF, FolH 303
—3, VI MWF, FolH 201
—4, VI MWF, FolH 105

51 Reading French: Bgn Course for Juniors, Seniors (3 cr, §2; prereq 50)
V MWF, FolH 105, Fadell

54 Composition (3 cr; prereq 25)
—1, III MWF, ME 110, Fadell
—2, V MWF, FolH 104, Todd

55 Conversation, Pronunciation (3 cr; prereq 25)
—1, II MTThF, FolH 108
—2, II MTThF, FolH 203
—3, III MTThF, FolH 108
—4, III MTThF, FolH 203
—5, IV MTThF, FolH 203
—6, V MTThF, FolH 303½

56 Phonetics (3 cr; prereq 25 or ♯)

58 Adv Conversation (3 cr; prereq 55 or ♯)
—1, I MWF, FolH 103, Robinson
—2, II MWF, FolH 207, Rydell
—3, III MWF, FolH 207, Rickert

61 Civilization, Culture (4 cr; prereq 25)
II MTWThF, FolH 308, Francis

66 Survey of Literature: The Age of Enlightenment (3 cr; prereq 30, maj ¶85)
III MWF, FolH 201, Waldauer

66H Honors Course: Survey of Literature—The Age of Enlightenment (3 cr; prereq 25H or 30 with A grade or 65H, ♯, maj ¶86)
IV MWF, FolH 406, Hughes

86 18th Century Literature (2 cr; prereq 30 or ♯, ¶66)
—1, III TTh, FolH 104, Rickert
—2, VI TTh, FolH 204, Hughes
—3, VI TTh, FolH 203, Rydell

108 Structure of Modern French (3 cr; prereq 107 or ♯)
III MWF, FolH 104, Mantini

110 Romanticism (3 cr; prereq sr with ♯)
VIII MWF, FolH 302, Lock

159 The Existential Novel (3 cr)
VI MWF, FolH 107, Lock

165 20th Century Poetry: Apollinaire, Valery, Eluard (2 cr)
VII MWF, FolH 203, Francis

191 Directed Readings for Undergrads (1-3 cr; prereq cons dept chairman)

202 French Literature in the Middle Ages (3 cr; prereq 201)
VIII MWF, FolH 203, Mouzat

208 Old Provencal (2 cr; prereq 207)
IX TTh, FolH 203, Mouzat

211 Seminar: Sensiblite in 18th Century Thru Revolution (3 cr; prereq 210)
VII TTh, FolH 203, Waldauer

251 Seminar (ar cr; prereq 250) Francis, Lock

260 Directed Readings in Romance Languages (ar cr)

Italian (Ital)

1 **Bgn Italian** (5 cr, §50)
—1, IV MTWThF, Arch 20
—2, VI MTWThF, A 205

2 **Bgn Italian** (5 cr; prereq 1)
—1, III MTWThF, FolH 110
—2, V MTWThF, Pt 214
—3, V MTWThF, Arch 20
—4, VI MTWThF, A 202

50 Reading Knowledge of Italian (5 cr, §1; prereq rdg knowledge Lat or Romance lang or ♯)
V MTWThF, A 201

66 Survey of Literature: The Renaissance (3 cr, §185; prereq 3, for bgn up div students 2 or 50 with ♯)
I MWF, Arch 20

150 Modern Poetry (3 cr; prereq 3, for bgn up div students 2 or 50 with ♯)
II MWF, Bu 105

160 Dante (3 cr; prereq 159 or ♯)
IV MWF, J 203

191 Directed Readings for Undergraduates (1-3 cr; prereq cons dept chairman)

260 Directed Readings in Romance Languages (ar cr)

Portuguese (Port)

2 **Bgn Portuguese** (5 cr; prereq 1)
—1, II MTWThF, FolH 205, Bretoi
—2, II MTWThF, FolH 204A

66 Intro to Literature of Portugal, Brazil (3 cr; prereq 30 or ♯)
VI MWF, FolH 203, Hamilton

191 Directed Readings for Undergrads (1-3 cr; prereq cons dept chairman) Hamilton

260 Directed Readings in Romance Languages (ar cr) Hamilton

Spanish (Span)

1 **Bgn Spanish** (5 cr, §1A)
—1, I MTWThF, FolH 203
—2, I MTWThF, Arch 10
—3, II MTWThF, FolH 104
—4, III MTWThF, JohH 106
—5, IV MTWThF, Arch 135
—6, V MTWThF, Ph 131
—7, V MTWThF, Pt 215
—8, V MTWThF, ChE 40
—9, VI MTWThF, AE 313
—10, VII MTWThF, Arch 140
—11, VII MTWThF, FolH 209
—12, VIII MTWThF, FolH 306

2 **Bgn Spanish** (5 cr, §2A; prereq 1 or 1 yr HS Span)
—1, I MWF, MurH 302, IV TTh, CCTV, AE 211
—2, I MWF, ForH 115, VIII TTh, CCTV, AE 211
—3, I MWF, Bu 105, IV TTh, CCTV, AE 215
—4, II MWF, ForH 115, VIII TTh, CCTV, AE 215
—5, II MWF, Pt 110, IV TTh, CCTV, AE 321
—6, III MWF, AE 319, VIII TTh, CCTV, AE 313
—7, III MWF, MurH 311, IV TTh, CCTV, AE 319
—8, IV MWF, ForH 115, VIII TTh, CCTV, AE 319
—9, IV MWF, Arch 10, IV TTh, CCTV, Arch 45
—10, V MWF, Ph 145, VIII TTh, CCTV, AE 327
—11, V MWF, Ph 236A, IV TTh, CCTV, Arch 15
—12, V MWF, VH 307, VIII TTh, CCTV, Arch 15
—13, VI MWF, ME 106, IV TTh, CCTV, Arch 30
—14, VI MWF, A 12, VIII TTh, CCTV, VH 309
—15, VI MWF, A 116, IV TTh, CCTV, Arch 60
—16, VII MWF, NH 201, VIII TTh, CCTV, Bu 123
—17, VII MWF, NH 122, IV TTh, CCTV, VH 303
—18, VIII MWF, FolH 303, VIII TTh, CCTV, Arch 45

2H Honors Course: Bgn, Interm Spanish (5 cr; prereq 1, ♯)
VI MTWThF, FolH 207

2A Bgn Spanish: Conversational (5 cr, §2; prereq 1A)
Dem II MTWThF, FolH 202, Cuneo
—1, Rec I MTWThF, Arch 140
—2, Rec I MTWThF, FolH 303

3 Bgn Spanish (5 cr, §3A; **prereq 2 or 2** yrs HS Span)
—1, I MTWThF, Pt 102
—2, II MTWThF, FolH 204
—3, IV MTWThF, Pt 111
—4, V MTWThF, Pt 111
—5, VI MTWThF, ForH 359

25 Interm Spanish (5 cr; **prereq 3 or 3A** or 3 yrs HS Span)
—1, I MTWThF, AE 21
—2, IV MTWThF, MH 213
—3, IV MTWThF, Pt 110
—4, VI MTWThF, AE 211
—5, VII MTWThF, Ph 133

25H Honors Course: Bgn, Interm (5 cr)
V MTWThF, Pt 110

30 Intro to Spanish, Spanish-American Literary Texts (3 cr; prereq 25 or 4 yrs HS Span or ♯)
—1, I MWF, WuH 230
—2, IV MWF, FolH 204
—3, V MWF, Pt 102
—4, V MWF, A 205

54 Composition (3 cr; prereq 25)
—1, I MWF, Bu 125
—2, II MWF, Pt 102
—3, III MWF, ForH 359

55 Conversation (3 cr; prereq 25)
—1, V MWThF, ForH 346
—2, V MWThF, FolH 203
—3, VI MWThF, Arch 140
—4, VI MWThF, AE 319

58 Adv Conversation (3 cr; prereq 55)
III MWF, Arch 140, Narváez

61 Civilization, Culture (3 cr; prereq 30)
III MWF, Arch 30, Pattison

63 Latin-American Civilization, Culture (4 cr; prereq 60 or ♯)
III TWThF, FolH 204, Cuneo

66 Survey of Spanish Literature: The Golden Age (3 cr; prereq 30, maj ¶86A)
VI MWF, Bu 125, Sullivan

66H Honors Course: Survey of Spanish Literature—The Golden Age (3 cr; prereq 25H or 30 with grade A or 65H or ♯)
IV MWF, JohH 113, Rundorff

75 Literature of Spanish America (3 cr; prereq 30, maj ¶86B)
IV MWF, FolH 202, Floripe

81 Spanish-American Novel, Social Probs (2 cr; prereq jr or ♯, 6 qtrs)
IV TTh, FolH 302, Cuneo

86A Literature of Golden Age (2 cr; prereq 30 or ♯, ¶66)
—1, IV TTh, FolH 204
—2, VI TTh, NH 209A

86B Romanticism to Modernismo (2 cr; prereq 30 or ♯, ¶75)
—1, IV TTh, FolH 207
—2, V TTh, FolH 205

108 Structure of Modern Spanish (3 cr; prereq 107)
IV MWF, Bu 105, Narváez

111 19th Century Literature (3 cr; prereq 110)
VII MWF, FolH 205, Pattison

120 The Ballad (3 cr; prereq 65, 66, 67)
VI TTh, VII T, FolH 201, Serrano-Plaja

144 Colonial, 19th Century Latin-American Literature (3 cr; prereq 65, 66, 67 or 76)
VI MWF, FolH 202, Floripe

156 16th Century Literature: The Drama (3 cr; prereq 65, 66, 67)
VIII MWF, FolH 205, Serrano-Plaja

191 Directed Readings (1-3 cr; prereq △)

251 Seminar: Mysticism (2 cr; prereq 250)
IX TTh, FolH 205, Serrano-Plaja

254 Seminar: Spanish-American Literature (2 cr; prereq 253)
IX-X W, FolH 203, Floripe

260 Directed Readings in Romance Languages (ar cr)

SCANDINAVIAN

Danish (Dan)

2 Bgn Danish (5 cr; prereq 1)
V MTWThF, J 202, Bomash

50 Adv Composition (3 cr; prereq 4)
VI MWF, J 202, Bomash

Finnish (Fin)

2 Bgn Finnish (5 cr; prereq 1)
VIII MTWThF, FolH 105, Saresvuo

Norwegian (Nor)

2 Bgn Norwegian (5 cr; prereq 1)
—1, I MTWThF, FolH 207, Jensen
—2, II MTWThF, SciB 527, Wilson
—3, V MTWThF, ForH 359, Skelton

50 Adv Composition (3 cr; prereq 4)
III MWF, WuH 130, Simpson, others

51 Reading Prose (3 cr; prereq 4)
IV MWF, FolH 207, Simpson, others

Scandinavian (Scan)

122 Old Norse: Language, Literature (3 cr; prereq 121)
VII-VIII T, FolH 303½, Hasselmo
125 History of Scandinavian Languages (3 cr; prereq 1 Ger lang other than Engl)
VII-VIII Th, FolH 303½, Hasselmo
161 19th Century Scandinavian Novel (3 cr; prereq 8 cr lit, rdg knowledge of Scand lang req for maj only)
II MWF, FolH 103, Simpson
171 Ibsen, Bgn of Modern Drama (3 cr; prereq 8 cr lit, rdg knowledge of Scand lang req for maj only)
IV MWF, FolH 208
192 Readings (3 cr; prereq 191)
210 Research: Scandinavian Linguistics (2-3 cr; prereq 209) Hasselmo
213 Research: Scandinavian Literature (2-3 cr; prereq 212)
225 Interpretative Probs in Ibsen (3 cr; prereq 224)
VIII-IX W, FolH 108, Simpson

Swedish (Swed)

2 **Bgn Swedish** (5 cr; prereq 1)
—1, I MTWThF, FolH 205, Ronnmark
—2, VI MTWThF, FolH 205, Lundquist
—3, V MTWThF, Bu 105, Saether
50 Adv Composition (3 cr; prereq 4)
III MWF, FolH 103, Saether
51 Reading Prose (3 cr; prereq 4)
IV MWF, Pt 214, Saether

SLAVIC AND EAST EUROPEAN LANGUAGES

Polish (Plsh)

2 Bgn Polish (5 cr; prereq 1)
II MTWThF, TSF 103, Zamojska
5 Interm Polish (3 cr; prereq 4)
III MWF, TSF 103, Zamojska

Russian (Russ)

2 **Bgn Russian** (5 cr; prereq 1)
—1, I MTWThF, FolH 107
—2, II MTWThF, FolH 107
—3, V MTWThF, FolH 107
—4, VII MTWThF, FolH 107

2H **Honors Course: Bgn Russian** (5 cr; prereq △)
III MTWThF, FolH 107, Sjoberg
5 **Interm Russian** (3 cr; prereq 4)
—1, II MWF, ME 110
—2, VII MWF, FolH 305
57 Conversation (3 cr; prereq 56)
V MWF, FolH 204, Prokopov
62 Composition (2 cr; prereq 61)
I TTh, FolH 108, Alexeev
72 Readings in Literature (3 cr; prereq 71)
VIII MWF, FolH 204, Prokopov
76 Civilization, Culture (3 cr; prereq 75)
III MWF, FolH 109, Donchenko
104 Syntax, Composition (2 cr; prereq 103)
III TTh, TSF 103, Alexeev
108 Structure of Modern Russian (3 cr; prereq 107)
V MWF, FolH 205, Donchenko
111 Literature in Translation (3 cr; prereq 110)
VI MWF, FolH 204, Prokopov
114 Soviet Russian Literature (3 cr; prereq 113)
VII MWF, FolH 204, Alexeev
142 Dostoevsky (3 cr; prereq 141) Hudgins
152 Directed Readings (1-3 cr; prereq 73 or ♯) Alexeev

Serbo-Croatian (Serb)

2 Bgn Serbo-Croatian (5 cr; prereq 1)
V MTWThF, TSF 103, Sjoberg

SOCIAL SCIENCE (SSci)

1 **Personality** (3 cr, ♯ for upper div students)
—1, I MWF, CB(W) 130, Utlaut
—2, II MWF, CB(W) 130, Utlaut
—3, III MWF, CB(W) 130, Salovesh
—4, IV MWF, CB(W) 130, Sykes
—5, VI MWF, CB(W) 155, Appleby
—6, VII MWF, CB(W) 130, Appleby
—7, 12:45-2:00 TTh, CB(W) 150, Dolan
—8, 2:15-3:30 TTh, CB(W) 150, Dolan
2 **Work** (3 cr; prereq 1, ♯ for upper div students)
—1, I MWF, CB(W) 150, Sorem
—2, II MWF, CB(W) 425, Roshwald
—3, III MWF, CB(W) 235, Roshwald
—4, IV MWF, CB(W) 235, Riggi
—5, V MWF, CB(W) 235, Dahl
—6, VI MWF, CB(W) 415, Riggi
3 **Community** (3 cr; prereq 1 or 2, ♯ for upper div students)
—1, II MWF, CB(W) 215, Horsnell

—2, V MWF, CB(W) 130, Chan
—3, VII MWF, CB(W) 155, Chan

52 **Work** (4 cr, §2)
Lect 11:15-12:30 TTh, CB(W) 235, Berman
—1, V M, CB(W) 205
—2, VII W, CB(W) 205

62 **Structure, Dynamics of Poverty** (3 cr; prereq 9 cr related soc sci)
IV MWF, CB(W) 155, Dahl

72 **Selected Topics in the Classics of Social Sciences** (3 cr; prereq 15 up div cr soc sci, C+ avg)
3:00-5:30 T, SocSci(W) 628, Spear

SOCIAL WORK (SW)

202 Special Topics (ar cr) Oren

207 Readings (ar cr; prereq ‡) Oren

211 Field Instruction (ar cr; prereq 210) Cohn, Compton, others

216 Field Instruction (ar cr; prereq 215) Cohn, Compton, Konopka, others

226 Social Policy, Programs II (2 cr; prereq 225)
I TTh, CB(W) 150, Newhouse

227 Social Policy, Programs III (2 cr; prereq 226)
—1, VI-VII T, CB(W) 120, Rapoport
—2, VIII-IX W, SocSci(W) 860, Newhouse
—3, VIII-IX F, SocSci(W) 860, Rapoport

249A Concepts of Human Behavior II (3 cr; prereq ¶211 or ‡)
II-III T, CB(W) 250, Saloshin

249B Concepts of Human Behavior II (2 cr; prereq 249A)
VI-VII Th, CB(W) 120, Goodman

252 Concepts of Human Behavior V (2 cr; prereq 251)
4:00-6:00 pm Th, VetAdmin HospA 848, Simon

263 Admin: Social Group Work (2 cr; prereq 260, 278)
II-III S, SocSci(W) 633, Cohn

266 Social Casework II (2 cr; prereq 265, ¶211-212)
—1, VI-VII W, CB(W) 440, Whitmore
—2, VI-VIII F, CB(W) 440, Whitmore

269 Social Casework V (2 cr; prereq 267, ¶215-216)
—1, II-III T, SocSci(W) 860, Scott
—2, II-III T, SocSci(W) 628, Gannon

274 Seminar: Community Organization (ar cr; prereq 271)
II-III S, SocSci(W) 860, Kidneigh

276 Social Group Work II (3 cr; prereq 275, ¶211)
IV T, IV-V Th, SocSci(W) 860, Cohn, Kamps

279 Social Group Work V (2 cr; prereq 278)
II-III Th, SocSci(W) 633, Konopka

285 Special Studies (ar cr)
II-III Th, CB(W) 250, Hess

287 Special Studies (ar cr; prereq 286)
V TThS, CB(W) 250, Hess, others

290 Seminar: Recent Research (ar cr)
VI-VII M, SocSci(W) 860, Scott

299 Seminar: Social Work (ar cr; prereq 298)
VIII-IX M, SocSci(W) 860, Saloshin

SOCIOLOGY (Soc)

1 **Man in Modern Society** (3 cr)
—1, I MWF, C 100, Franz
—2, III MWF, MNH Aud, Bennett
—3, V MWF, ScH 108, McNall
—4, VII MWF, C 100, Hawkinson

1A **Man in Modern Society** (3 cr; prereq regis AFHE)
IV MWF, McNH 227 (StP Campus) Nelson

2 **American Community** (3 cr; prereq 1 or 1A or 1H or ‡)
—1, I MWF, Bo B6, Martindale
—2, VII MWF, ME 4, Menanteau

2H **Honors Course: American Community** (3 cr; prereq ‡)
V MWF, BA(W) 933, Zwerman

3 **Social Probs** (3 cr)
—1, I MWF, MNH Aud, Zwerman
—2, II MWF, C 100, Hawkinson
—3, V MWF, MNH Aud, Hawkinson
—4, VI MWF, C 100, Fulton

10 **Laboratory** (2 cr; prereq 1 or ¶1)
VII-VIII T, CB(W) 110, Straus, others

14A **Rural Sociology** (3 cr; prereq regis AFHE)
V MWF, DI 15 (StP Campus), Menanteau

45 **Social Statistics** (5 cr, §QA 5, Psy 70)
—1, Lect II MWF, CB(W) 150, CCTV
—2, Lect VII MWF, CB(W) 150, CCTV
—1, Lab I-II TTh, CB(W) 210, Franz, others
—2, Lab III-IV TTh, CB(W) 210, Franz, others
—3, Lab V-VI TTh, CB(W) 210, Franz, others
—4, Lab VII-VIII TTh, CB(W) 210, Franz, others
—5, Lab I-II MW, CB(W) 210, Franz, others
—6, Lab III-IV MW, CB(W) 210, Franz, others

—7, Lab V-VI MW, CB(W) 210, Franz, others
—8, Lab VII-VIII MW, CB(W) 210, Franz, others
—9, Lab IX-X MW, CB(W) 210, Franz, others

53 Criminology (3 cr; prereq 1 or 1A or 1H or ‡)
—1, II MWF, CB(W) 5, Ward
—2, VII MWF, CB(W) 5, Knudson

90 American Social Welfare (5 cr; prereq 3)
—1, VI MTWThF, CB(W) 220, Walz
—2, VII MTWThF, CB(W) 220, Weibler

91 Social Work Process (3 cr; prereq 90 or cons maj adv)
—1, 9:45-11:00 TTh, CB(W) 425, Milstone
—2, 11:15-12:30 TTh, CB(W) 215, Milstone

98 Tutorial, Honors Work in Selected Fields (3 cr; prereq 97)

100 Contemporary Penology (3 cr; prereq 1, 53 or ‡)
IV MWF, CB(W) 410, Ward

102 Adult Parole, Probation (3 cr; prereq 1, 53 or ‡)
III MWF, CB(W) 250, Finestone

105 Institutional Treatment of Juvenile Delinquents (3 cr; prereq regis in sequence C or B or ‡)
2:15-3:30 TTh, CB(W) 155, Konopka

106 Planning (3 cr, §Arch 132 or Pol 123; prereq sr)
I-II TTh, Arch 130, Iskander, Stone

119 Modern Agencies for Control of Juvenile Delinquency (3 cr; prereq 53, 118)
I MWF, CB(W) 235, Knudson

120 Social Psychology (3 cr; prereq 1 or ‡)
—1, 11:15-12:30 TTh, CB(W) 5, Stone
—2, VII MWF, CB(W) 250, Bennett

126 Family Development (4 cr; prereq 1, CPsy 80 or ‡)
VI-VII TTh, CB(W) 125, Hill

140 Social Organization (3 cr; prereq 1 or ‡)
VI MWF, CB(W) 5, Gerson

141 The Family (3 cr; prereq 1 or ‡)
V MWF, CB(W) 410, Johnson

143 The Newspaper as a Social Institution (3 cr; prereq 1 or ‡)
III MWF, CB(W) 115, Gerson

144 Social Stratification, Mobility (3 cr; prereq 1 or ‡)
II MWF, CB(W) 235, Fulton

146 Industrial, Occupational Sociology (3 cr; prereq 1, 15 cr soc or psy or pol or econ)
2:15-3:30 TTh, CB(W) 5, Gross

148 Comparative Rural Societies: Latin America (3 cr; prereq 20 cr soc, econ or pol sci or ‡)
III MWF, CB(W) 150, Ellenbogen

162 Rural Social Institutions (3 cr; prereq 1 or ‡)
VI MWF, CB(W) 410, Donohue

171 Social Life, Cultural Change (3 cr; prereq 1 or ‡)
IV MWF, CB(W) 5, Martindale

180 Methods of Social Research (3 cr; prereq 45)
VII MWF, CB(W) 235, Ramsey

182 Statistical Methods (3 cr; prereq 45)
VII MWF, CB(W) 140, Tallman

184 Field Work, Lab Training in Social Research (3 cr, †184-185; prereq 45, 180)
III-IV TTh, BA(W) 837, Straus

187 Quantitative Research Design (3 cr, §Geog 187; prereq Geog 87, Soc 45, ‡)
11:15-12:30 TTh, CB(W) 225

202 Seminar: Research Probs in Crime, Social Conflict (3 cr, †201-202; prereq 201)
VII-VIII M, SocSci(W) 1383, Ward

203 Seminar: Research Probs in Juvenile Delinquency (3 cr)
9:45-11:00 TTh, BA(W) 735

227 Seminar: Contemporary Research on Marriage, Family (3 cr)
IX-X T, SocSci(W) 1383, Hill

233 Seminar: Methods for Evaluation of Social Action Program (3 cr)
VIII-IX W, CB(W) 435, Finestone

239 Seminar: Principles (3 cr, †238-239; prereq 238)
VI-VII T, SocSci(W) 860, Stone

247 Seminar: Research in Large Scale Organization (3 cr)
9:45-11:00 TTh, SocSci(W) 1383, Gross

271 Seminar: Social Theory (3 cr)
VI-VII M, SocSci(W) 1450, Martindale

281 Seminar: Recent Developments in Sociological Research Techniques (3 cr)
VIII-IX Th, SocSci(W) 1383, Straus

285 Seminar: Statistical Theory in Relation to Social Theory, Practice (3 cr)
1:15-3:15 Th, SocSci(W) 628, Monachesi

291 Seminar: Sociology of Religion (3 cr; prereq 142 or ‡)
VIII-IX T, SocSci(W) 860, McNall

298 Seminar (ar cr)

SPEECH, COMMUNICATION, AND THEATRE ARTS

Speech (Spch)

3 Communication in Modern World—Mass Media (3 cr, §Jour 3)
•9:45-11:00 TTh, FolH 207, Gilmore

5 **Fundamentals** (5 cr)
—1, 7:15-8:00 am MTWThF, FolH 306, Shapiro, others
—2, 7:15-8:00 am MTWThF, FolH 307, Shapiro, others
—3, 7:15-8:00 am MTWThF, FolH 406, Shapiro, others
—4, I MTWThF, A 202, Shapiro, others
—5, I MTWThF, FolH 307, Shapiro, others
—6, I MTWThF, FolH 406, Shapiro, others
—7, I MTWThF, FolH 305, Shapiro, others
—8, I MTWThF, A 205, Shapiro, others
—9, II MTWThF, Bu 120, Shapiro, others
—10, II MTWThF, ForH 261, Shapiro, others
—11, III MTWThF, A 105, Shapiro, others
—12, III MTWThF, A 201, Shapiro, others
—13, III MTWThF, A 202, Shapiro, others
—14, IV MTWThF, A 105, Shapiro, others
—15, IV MTWThF, Owre 113, Shapiro, others
—16, IV MTWThF, Owre 111, Shapiro, others
—17, V MTWThF, Owre 15, Shapiro, others
—18, V MTWThF, FolH 307, Shapiro, others
—19, V MTWThF, FolH 306, Shapiro, others
—20, V MTWThF, A 105, Shapiro, others
—21, VI MTWThF, A 201, Shapiro, others
—22, VI MTWThF, FolH 306, Shapiro, others
—23, VII MTWThF, A 201, Shapiro, others
—24, VII MTWThF, FolH 307, Shapiro, others
—25, VII MTWThF, MinMet 124, Shapiro, others

5H **Honors Course: Fundamentals** (5 cr; prereq 3rd qtr fr with B avg)
III MTWThF, J 202, D H Smith

6 **Fundamentals** (3 cr; prereq 5, soph, fr with △)
VI MWF, FolH 406, Watson

9 **Freshman Discussion, Debate** (1 cr; prereq fr with C avg)
2:15-4:00 TTh, FolH 406, Brock, others

50 **Public Speaking** (3 cr, §5; prereq upper div)
—1, I MWF, FolH 306, Ekroth
—2, I MWF, CB(W) 430, Horswill

51 **Adv Public Speaking** (3 cr; prereq 5)
—1, II MWF, FolH 307, Brock
—2, IV MWF, FolH 307, Scott
—3, VI MWF, FolH 307, Brock

56 **Speech Writing, Platform Speaking** (3 cr; prereq 51 or ♯)
II MWF, FolH 306, Fisher, Piche

65 **Radio, Television Speech** (3 cr; prereq 5)
—1, 12:15-2:00 TTh, MurH 302, AE 309, Bart
—2, 2:15-4:00 TTh, MurH 302, AE 309, Browne

66 **Lab Section: Radio, Television Speech** (1 cr; prereq 65 or ¶) (meet 1st day with either section of 65) Bart, North

67 Phonetics (3 cr; prereq 5)
III MWF, FolH 406, Wendahl

68 **Radio Production** (3 cr; prereq 65)
9:45-11:00 TTh, FolH 103, Browne

69 **Radio, Television Production** (3 cr; prereq 65)
1:15-3:00 MW, AE 309, Bart

81 **Interpretative Reading** (3 cr; prereq 5)
—1, II MWF, FolH 305, Congdon
—2, III MWF, FolH 305, Fredricks
—3, IV MWF, FolH 306, Hancock
—4, V MWF, FolH 305, Lippke

82 **Interpretative Reading** (3 cr; prereq 81)
—1, IV MWF, FolH 305, Fredricks
—2, 9:45-11:00 TTh, FolH 306, Lippke

83 **Interpretative Reading** (3 cr; prereq 81)
VI MWF, FolH 305, Hancock

95H Honors Course: Tutorial Seminar (3 cr; prereq honors cand, △)

97 **Intercollegiate Oratory, Debate** (2 cr; prereq soph with C avg, jr)
2:15-4:00 TTh, FolH 406, Brock, others

102 **Argumentation, Persuasion** (3 cr; prereq 5, Psy 2, 10 cr soc sci)
—1, III MWF, FolH 306, Brock
—2, 12:45-2:00 TTh, FolH 108

105 **Theory of Reading, Acting** (3 cr; prereq 83, Psy 2)
2:00-3:15 TTh, FolH 305, Fredricks

106 **Discussion** (3 cr; prereq 5)
—1, VII MWF, FolH 306
—2, 8:15-9:30 TTh, FolH 306, D H Smith

106A **Public Speaking, Conference Leadership** (3 cr; prereq hosp admin only)
III MWF, MH 128, Shapiro

108 **Classical Voices of Poetry** (3 cr, §Clas 108; prereq 82 or 83 or Th 61 or 3 cr Lat or Grk 60 or above or up div Engl lit or foreign lit or ‡)
III MWF, FolH 307, Sonkowsky

122 **Research** (3 cr; prereq sr, 5, Psy 2)
VII MWF, FolH 406, Scott, D H Smith

169A Speech, Language in Human Behavior (3 cr; prereq psy nurs students only) Shapiro

173 **Educational Television Production** (3 cr; prereq 172 or ‡)
II MWF, Pt 111, Goldstein

181 Readings (ar cr; prereq 9 cr theatre, ‡)

182 Readings (ar cr; prereq 9 cr theatre, ‡)

183 Readings (ar cr; prereq 9 cr theatre, ‡)

201 Gen Seminar (1 cr; prereq ‡) Shapiro

207 Seminar: Persuasion (3 cr; prereq 5, 101, 102, 103, Psy 2, 140, 10 cr soc sci)

222 Seminar: Oral Interpretation of Literature (3 cr; prereq 83, 105)
VIII-IX T, FolH 307, Thompson

275 Seminar: Rhetoric (3 cr; prereq 109 or ‡)
VIII-IX M, FolH 406, Sonkowsky

291 Research (ar cr)

292 Research (ar cr)

293 Research (ar cr)

Speech Science, Pathology and Audiology (SSPA)

101 Readings (ar cr; prereq ‡)

102 Readings (ar cr; prereq ‡)

103 Readings (ar cr; prereq ‡)

121 Acoustic Phonetics (3 cr; prereq 119, 120 or ¶)
II MWF, FolH 406, Wendahl

140 **Diagnosis, Evaluation of Speech Disorders** (4 cr; prereq 99, 121 or ¶, ‡)
V-VIII Th, VIII T, MinMet 104, Gimmestad, Martin

141 Stuttering (3 cr; prereq 99 or ‡)
III TTh, IV Th, FolH 303, Henrikson

143 Articulation Disorders (3 cr; prereq 99, 121 or ‡)
III MWF, FolH 302, McDermott

144 Neuromuscular Disorders (2 cr; prereq 120, 143 or ‡)
IX-X W, FolH 109, Greenberg

150 Speech Retardation (3 cr; prereq 99)
VII MWF, FolH 302, Siegel

164 Clinical Methods, Practice in Speech Pathology (3 cr, §EdCI 174; prereq 141, 142)

165 Clinical Methods, Practice in Speech Pathology (3 cr, §EdCI 175; prereq 141, 142)

166A Clinical Methods, Practice in Speech Pathology: Cleft Palate (1-3 cr; prereq 141, 142 or ‡) Starr

166B Clinical Methods, Practice in Speech Pathology: Voice (1-3 cr; prereq 141, 142 or ‡) Starr

166C Clinical Methods, Practice in Speech Pathology: Articulation (1-3 cr; prereq 141, 142 or ‡) McDermott

166D Clinical Methods, Practice in Speech Pathology: Stuttering (1-3 cr; prereq 141, 142 or ‡) Martin

166E Clinical Methods, Practice in Speech Pathology: Neuromuscular Disorders (1-3 cr; prereq 141, 142 or ‡)

166F Clinical Methods, Practice in Speech Pathology: Aphasia (1-3 cr; prereq 141, 142 or ‡) Greenberg

166G Clinical Methods, Practice in Speech Pathology: Laryngectomy (1-3 cr; prereq 141, 142 or ‡) Henrikson

166H Clinical Methods, Practice in Speech Pathology: Hearing Impaired (1-3 cr; prereq 141, 142 or ‡)

171 Audiometry I (4 cr; prereq 99, 119)
III-IV TTh, FolH 303½, Chaiklin

173 Audiometry II (3 cr; prereq 171)
VI MWF, Mayo A675, Chaiklin, Lassman

174 Speech Audiometry (3 cr; prereq 122, 171 or ‡)
III MWF, Mayo A675, Chaiklin

175 Galvanic Skin Response Audiometry (3 cr; prereq 173) Chaiklin

176 Hearing Science (3 cr; prereq 170 or Psy 55)
I MWF, Mayo A675, Ward

181 Speech for Hearing Impaired (3 cr; prereq 170 or ‡)
IX-X W, FolH 406

190 Clinical Methods, Practice in Audiology (3 cr; prereq 173 or 174 or ‡) Lassman

191 Clinical Methods, Practice in Audiology (3 cr; prereq 173 or 174 or ‡) Lassman

192 Clinical Methods, Practice in Audiology (3 cr; prereq 173 or 174 or ‡) Lassman

201 Seminar: Adv Probs (3 cr; prereq ‡)

204 Research (ar cr; prereq ‡) Chaiklin

205 Research (ar cr; prereq ‡) Chaiklin

206 Research (ar cr; prereq ‡) Chaiklin

224 Seminar: Experimental Phonetics (3 cr; prereq 122) Wendahl

225 Seminar: Experimental Phonetics (3 cr; prereq 122) Wendahl

226 Seminar: Experimental Phonetics (3 cr; prereq 122) Wendahl

241 Seminar: Stuttering (3 cr; prereq 141 or ♯) Henrikson, Martin
242 Seminar: Voice (3 cr; prereq 142 or ♯) Starr
246 Seminar: Cleft Palate (3 cr; prereq 146 or ♯) Starr
271 Selection, Use of Hearing Aids (3 cr; prereq 123, 270 or ♯) Lassman
272 Pediatric Audiology (3 cr; prereq 173, 174, ♯) Lassman
281 Seminar: Hearing (3 cr; prereq ♯)
283 Seminar: Current Issues on Audiology (3 cr; prereq ♯)
290 Adv Clinical Methods, Practice in Audiology (3 cr; prereq 190, 191, 192, ♯) Chaiklin
291 Adv Clinical Methods, Practice in Audiology (3 cr; prereq 190, 191, 192, ♯) Chaiklin
292 Adv Clinical Methods, Practice in Audiology (3 cr; prereq 190, 191, 192, ♯) Chaiklin

Theatre (Th)

11 **Theatre Arts** (3 cr)
III MWF, ScH 108, Nolte
12 **Theatre Arts Lab** (1 cr; prereq 11 or ¶) Adey (meets in ScH 108, 10:40 am, January 3 only)
13H **Honors Course: Intro to Theatre** (1 cr; prereq 11, ♯)
VII W, ScH 115, Malcolm, Nolte
21 **Bgn Acting: Creative Approach** (3 cr; prereq fr with △, soph, 12 or ¶)
—1, I-II MF, ScH 19, Howard
—2, I-II TTh, ScH 19, Reynolds
—3, III-IV TTh, NH 304, Herstand
—4, VI-VII TTh, WeH 302, Reynolds
—5, III-IV TTh, ScH 19, McCoy
22 **Bgn Acting: Creating a Role** (3 cr; prereq 21)
—1, III MWF, WeH 302, Klein
—2, VI MWF, NH 304, Klein
23 **Bgn Acting: Technique** (3 cr; prereq 21 or ♯)
—1, II MWF, WeH 302, Moulton
—2, IV MWF, WeH 302, Moulton
24 **Stage Make-up** (1 cr; prereq 12)
VIII-IX W, ScH 23
34 **Stagecraft: Construction, Painting** (3 cr; prereq soph, 12)
—1, II TS, III TTh, WeH 306, Adey
—2, III-IV TS, WeH 306, Adey
52A Our Theatre Today (½ cr; prereq undergrad maj, req for jr maj or ♯)
VIII Th, ScH 108, Klein
52B Our Theatre Today (½ cr; prereq 53A)
VIII Th, ScH 108, Klein
55 **Stage-fencing, Combat: History, Execution** (1 cr; prereq 12 or ¶, ♯)
—1, VIII-IX T, WeH 302, Dusek
—2, III-IV S, WeH 302, Dusek
61 **Adv Acting** (3 cr; prereq 22 or 23)
IV MWF, NH 304, Herstand
63 **Adv Acting: Radio, Television Drama** (3 cr; prereq 61)
I-II TTh, MurH 302, AE 317, McCoy
75 **Play Production in Secondary School** (3 cr; prereq 32, 74)
V TTh, I T, ScH 19, Adey
90 **Costuming** (3 cr; prereq 12, 34)
III-IV MF, III W, NH 315, Schulze
91 **Scene Design** (3 cr; prereq 12, 34)
III-IV MF, III W, WeH 306, Josal
92 **Stage Lighting** (3 cr; prereq 12, 34)
III TTh, ScH 108, Baruch
95H Honors Course: Tutorial Seminar (3 cr; prereq honors cand, ♯, △)
101 Theatre Practicum (2-6 cr; prereq △, ♯)
102 Theatre Practicum (2-6 cr; prereq △, ♯)
103 Theatre Practicum (2-6 cr; prereq △, ♯)
111 **Stage Direction** (3 cr; prereq sr, 21, 6 cr of 90, 91 or 92, ♯)
VII MWF, NH 304, Whiting
112 **Stage Direction** (3 cr; prereq 111)
II MWF, NH 304, Whiting
113 **Stage Direction** (3 cr; prereq 112)
IV MWF, ShH 105, Whiting
114 **Theatre Mgt, Promotion** (3 cr; prereq 12 or ♯)
VI MWF, ScH 19, Loppnow
116 **Playwriting** (3 cr; prereq 115)
VI MWF, VH 307, Nolte
122 **Probs: Acting** (3 cr; prereq 121)
VI-VIII MWF, WeH 302, Herstand
128 **Production for Lyric Stage** (3 cr; prereq mus maj, ¶Mus 147, 148, 149 or ♯)
VI-VII TTh, WuH 7, Balk
172 **History of Theatre** (3 cr; prereq sr, 12, 100, Spch 5 or ♯)
II MWF, WeH 306, Klein
174 **History, Technique of Stage Movement** (3 cr; prereq 171, 172, 173, ♯)
IV MTWThF, WeH 302, Moulton
175 **History, Techniques of Stage Movement** (3 cr; prereq 174)
V MTWThF, WeH 306, Moulton
181 Readings (ar cr; prereq 9 cr theatre, ♯) Adey, others
182 Readings (ar cr; prereq 9 cr in theatre, ♯) Adey, others
183 Readings (ar cr; prereq 9 cr in theatre, ♯) Adey, others

190 Adv Probs: Costuming (3 cr; prereq 111, 112 or ‡)
VII-IX W, NH 315, Schulze

191 Adv Probs: Scene Design (3 cr; prereq 111, 112 or ‡)
VII-IX F, WeH 306, Josal

212 Seminar: Stage Direction (3 cr; prereq 111, 112, 113)
VIII-IX T, ShH 115, Nolte

252 Seminar (1 cr; prereq grad)
VIII Th, ShH 115, Moulton

273 Seminar: Dramatic Theory (3 cr; prereq 171, 172, 173, 9 cr dram lit)
VIII-IX M, FolH 307, Thompson

281 Research (ar cr; prereq ‡)

282 Research (ar cr; prereq ‡)

283 Research (ar cr; prereq ‡)

292 Seminar: Stage Lighting (3 cr; prereq 92, 192, ‡)
VIII-IX W, WeH 306, Josal

STATISTICS (Stat)

90 Probability, Statistics (3 cr, §121, 131; prereq differential, integ calc)
I MWF, ForH 30

90E Intro to Probability, Statistics (3 cr; prereq 3rd yr EE)
—1, I MWF, ForH 40
—2, V MWF, ForH 40
—3, V MWF, ForH 30

101 Decision Theory (3 cr, §132; prereq Econ 101A or Math 13, 40 or 42 or ‡)
II MWF, ForH 175

122 Theory (3 cr; prereq 122, Math 43)
I MWF, Ph 210

132 Theory (3 cr; prereq 131, ¶Math 107-108)
—1, III MWF, ForH 30
—2, III MWF, ForH 40
—3, VII MWF, ForH 40
—4, VII MWF, ForH 30

181B Topics: Ranking, Selection (3 cr; prereq 123 or 133, ‡) Sobel

192 Analysis, Design of Experiments (3 cr; prereq 191)
VI MWF, ForH 175

202 Theory of Statistical Inference (3 cr; prereq 201)
2:15-3:30 TTh, JohH 106, Buehler

222 Adv Statistical Theory (3 cr; prereq 221) Mandrekar

241B Nonparametric Inference (3 cr; prereq ‡) Sobel

UNATTACHED DEPARTMENTS

College Honors Seminar (CHS)

91H Seminar: Developments of Patterns of Symmetry in Living Organisms (2-4 cr; prereq consent of Honors Div)
2:30-4:30 W, Z 323, Spratt

92H Seminar: Muse on Dromedary: The Metaphysical Moment (2-4 cr; prereq consent of Honors Div)
3:15-5:00 T, VH 125, McNaron

93H Seminar: The Role of Government in Economic Life: In Principle, History (2-4 cr; prereq consent of Honors Div)
3:00-5:00 Th, BA(W) 933, Kareken

94H Seminar: Ideas to Live By: Why Not Commit Suicide or Become a Hermit? (2-4 cr; prereq consent of Honors Div)
3:30-5:00 T, ForH 261, Hathaway

Linguistics (Ling)

2 Intro to Study of Language (3 cr, †1-2-3; prereq 1)
III MWF, FolH 308, Lehn

152 Readings Course (1-3 cr; prereq maj)

205 Seminar: Methods of Analysis, Theories of Grammar (3 cr, †204-205-206; prereq 204)
VII-VIII Th, TSF 103, Lehn

COLLEGE OF MEDICAL SCIENCES

ANATOMY (Anat)

101 Gross Human Anatomy (8 cr, †100-101; prereq med or grad with ‡)
Lect VI MTThF, JacH 74, Lazarow, Smithberg, Wells
Lab VII-VIII MTThF, JacH 392, 393, 396, 397, 398
Review IX MTThF, JacH 74

107 Human Embryology (4 cr; prereq regis med or grad with ‡)

Lect I TF, VI W, JacH 74, Heggestad
—1, Lab II-III WF, JacH 297, 298
—2, Lab II-III TTh, JacH 297, 298

108 Gross Anatomy (6 cr; prereq regis Dent with ‡)
Lect I MWF, Mayo 100, Felts, Murrell
Lab II-IV MWF, JacH 388, 390

154 Adv Anatomy (ar cr; prereq ‡)

166 Hematology (4 cr; prereq 165, ‡)
Lect VII TTh, JacH 178, Sundberg
Lab VIII-IX TTh, JacH 297

202 Research (ar cr; prereq ‡)

206 Seminar (1 cr; prereq ‡)

211 Neurocytology (3 cr; prereq 111 or ‡)
IV MWF, JacH 275, Lindall

ANESTHESIOLOGY (Anes)

169 Research (ar cr; prereq regis med) Van Bergen, others

181 Externship (ar cr; prereq regis med) Van Bergen, others

182 Externship: Anesthesiology, Respiratory Probs (ar cr; prereq regis med) Van Bergen, others

265 Gen Anesthesia (12 cr)
4:30-6:00 M, Mayo 125, Van Bergen, others

266 Regional Anesthesia (4 cr)
4:30-6:00 M, Mayo 125, Van Bergen, others

267 Preanesthetic, Postanesthetic Evaluation (2 cr)
3:30-4:30 MTWThF, Mayo 125, Van Bergen, others

268 Seminar (2 cr)
4:30-6:00 W, Mayo A675, Van Bergen, others

269 Research (ar cr) Van Bergen

BIOCHEMISTRY (MdBc)

101 Biochemistry (8 cr; prereq 100)
Lect IV MTWThFS, Owre 15
—1, Lab I-III MW, MH 201
—2, Lab I-III ThS, MH 201

102 Physiological Chemistry for Veterinary Medicine Students (6 cr; prereq org chem)
Lect IV MW, VI TTh, VetS 257 (StP Campus) Short
Lab VI-VIII M, I-III W, TEH 103 (StP Campus)

105 Biochemistry for Dental Students (7 cr)
Lect VI MTWThF, Owre 12, Singer
Lab VII-IX MW, MH 201

142 Gen Biochemistry (3 cr; prereq 141)
I MWF, C 325, Kirkwood, Wold

153 Problems (ar cr; prereq 101)

200 Seminar (1 cr)
V T, MH 213

205 Research (ar cr)

217 Protein Chemistry (3 cr; prereq 101 or 144, PCh 103 or ‡)
VIII MWF, MH 213, Wetlaufer

LABORATORY MEDICINE

Laboratory Medicine (LMed)

101 Clinical Lab Medicine (3 cr; prereq regis med, MdBc 101, Path 101)
Lect VI M, VIII Th, Owre 15, Benson, others
Lab I-IV F

180 Probs: Fluid, Electrolyte Metabolism (ar cr; prereq regis med) Benson

181 Probs: Clinical Lab Medicine (ar cr; prereq regis med) Benson

182 Topics: Hematology (ar cr; prereq Anat 166) Benson

183 Topics: Immunology (ar cr; prereq regis med) Benson

186 Clinical Chemistry Seminar (1 cr; prereq ‡)
I T, Hosp EustisAmph, Benson

192 Seminar: Immunology (1 cr; prereq ‡)
VI Th, Mayo C295, Bridges, Yunis

235 Adv Clinical Lab Medicine (ar cr; prereq Anat 166) Benson

236 Research: Clinical Lab Probs (ar cr) Benson

252 Research: Human Genetics (ar cr) Yunis

Medical Technology (MedT)

11 Orientation (1 cr; prereq 10)
IV Th, Owre 12, Hovde

31 Case Presentations (1 cr; prereq 30)
V T, Hosp EustisAmph, Hovde

63 Intro to Urinalysis (1 cr)
Lect V W, Owre 113, Damron
—1, Lab VII-VIII W, Mayo B209
—2, Lab VII-VIII F, Mayo B209

70 Clinical Chemistry (10 cr) Bisset

73 Electrocardiography, Basal Metabolism Testing (2 cr) Halsted

75 Clinical Hematology (6 cr) Bordewich

80A Clinical Microbiology (6 cr) Blazevic

80B Special Clinical Microbiology (3 cr) Blazevic

83 Blood Bank Techniques (4 cr) Benson

85 Histologic Techniques (3 cr) Samuelson

93 Adv Clinical Practice (12 cr)

93H Honors Course: Adv Clinical Practice (12 cr; prereq ‡)

96 Intro to Medicine, Pathology (2 cr, †95-96-97; prereq 95)
VI TTh, MH 213, Lundgren
110 Adv Clinical Lab Techniques (5 cr)
111 Adv Clinical Lab Techniques (5 cr)
130 Elements of Admin (2 cr) Ederer
131 Elements of Admin (2 cr) Ederer
140 Educational Admin (3 cr) Hovde
141 Educational Admin (3 cr) Hovde
150 Topics: Bacteriology (ar cr) Blazevic
151 Topics: Chemistry (ar cr) Freier
152 Topics: Hematology (ar cr) Gonyea
153 Topics: Immunology (ar cr) Benson
186 Clinical Chemistry Seminar (1 cr; prereq ♯)
II F, Hosp ToddAmph

MEDICINE (Med)

101 Physical Diagnosis (2 cr; prereq regis med, Anat 101, Phsl 107)
VIII F, Mayo 100, Tobian, others
104 Intro to Internal Medicine (2 cr; prereq 101, LMed 102)
1:00-2:00 alt W, Hosp ToddAmph, Ebert, others
112 Clerkship: Internal Medicine (16 cr; prereq regis med)
8:00-5:00 MTWThFS, Murray, others
123 Dermatology, Syphilology (2 cr; prereq 101)
4:00-5:00 alt W, Hosp EustisAmph, Lynch, others
124 Senior Clerkship: Dermatology (2 cr; prereq regis med)
8:00-9:00 MTThF, 1:00-5:00 MTTh, 1:00-4:00 W, 9:00-11:00 Th, 1:30-2:30 F, 4:00-5:00 F, 9:00-11:00 S, Hosp EustisAmph, Lynch
201 Clinical Medicine (ar cr) Ebert, others
202 Diseases of Cardiovascular Apparatus (ar cr) Frantz, others
203 Research (ar cr) Ebert, others
205 Diseases of Chest (ar cr) Hall, Lillehei
206 Clinical Conference (1 cr)
11:00-12:00 S, Hosp EustisAmph, Ebert, others
207 Clinical Pathological Conference (1 cr)
9:00-10:00 T, Hosp ToddAmph, Dawson, others
208 Clinical Radiological Conference (1 cr)
10:00-11:00 T, Hosp ToddAmph, Peterson, others
210 Seminar: Infectious Disease (1 cr) Spink
211 Electrocardiographic Conference (1 cr) Tuna, others
212 Pigment Metabolism (1 cr) Schwartz, others
213 Seminar: Psychosomatic Medicine (1 cr) Magraw
214 Seminar: Cardiovascular (1 cr) Wang, others
225 Clinical Dermatology (ar cr) Lynch, others
226 Dermatology (ar cr) Lynch, others
227 Histopathology of the Skin (ar cr) Orkin, others
228 Research: Dermatology (ar cr) Lynch, others
230 Functional Biology of the Skin (ar cr) Fusaro, others

MICROBIOLOGY (MicB)

1 Elem Microbiology (4 cr, open to DH, PT students without addtl fee winter qtr with △, offered thru Ext Div to Henn County Hosp nurses, Mort Sci students)
Lect II MWF, MMA 100, Prince
Lab III M, III-IV F, Mayo A205
53 Gen Microbiology (5 cr; prereq soph with C avg in prereq courses or jr, 10 cr chem, 4 cr biol sci or ♯)
Lect VI MWF, MMA 125, Schmidt
Lab VII-IX MF, Mayo A205
106 Prin of Infectious Disease (5 cr; prereq 105)
Lect IX MWF, MMA 100, I, IV S, MMA 125, Brand
Lab I-IV TTh, Mayo A205
116 Immunology (3 cr; prereq 53 or 153)
VI MTTh, MMA 100, Muschel
116A Immunology Lab (2 cr; prereq ¶116)
VII-VIII TTh, Mayo A205
121 Physiology of Bacteria (3 cr; prereq 53 or 153, 8 cr org chem or biochem)
II TThS, MMA 100, Rogers
152 Problems (ar cr; prereq ♯)
201 Research (ar cr)
202 Diagnostic Microbiology (ar cr; prereq grad, ♯)
203 Seminar (1 cr)
V W, Mayo 1050, Dworkin

NURSING

Nursing (Nurs)

30 Nursing in Perspective (3 cr; prereq Baccalaureate Program, Psy 5 or ¶)
—1, IV MWF, Owre 117, Akan
—2, IV MWF, PoH 2317, Stivers
—3, VII MWF, Owre 117, Akan
—4, VII MWF, PoH 2317, Stivers

55 Pathophysiology of Illness (2 cr; prereq 54)
VI TTh, Owre 113, Peterson

62 Nursing Diagnosis (6 cr; prereq 57, ¶55, Psy 144)
—1, Lect VI-VII MW, PoH 1326, Caffrey
—2, Lect VI-VII MW, PoH 2309, Dempater
—3, Lect VI-VII MW, PoH 1413, Moe
—4, Lect VI-VII MW, MH 214, Parnell
—5, Lect VI-VII MW, HS W30, Peterson
—1, Lab II-IV MT, PoH 1405
—2, Lab II-IV WTh, PoH 1405

75 Scientific Approaches to Nursing Care (6 cr; prereq 65, ¶55)
Lect II-IV MF, PoH 2309, Cook, Town
Lab II-IV W, PoH 2309

92A Nursing Synthesis (6 cr; prereq 82B or 85)
—1, Lect II MWF, PoH 2317, Brennan
—2, Lect II MWF, PoH 1326, Helland
—3, Lect II MWF, Owre 112, Moncure
—1, Lab I-IV, VI T, PoH 2309, III-IV, VI-VIII Th, PoH 2309
—2, Lab III-IV, VI-VIII T, Owre 112, I-IV, VI Th, Owre 112

92B Nursing Synthesis in Community (6 cr; prereq 82B or 85)
Lect VI MWF, PoH 2317, Cano, Spear
Lab I-III, V-VII TTh

102 Nursing Synthesis (7 cr; prereq 92A or 92B)
—1, Lect III MWF, PoH 2317, Sime
—2, Lect III MWF, PoH 1326, Titt
—3, Lect III MWF, Owre 112, Whitney
—1, Lab I-IV, VI T, III-IV, VI-VIII Th, PoH 2317
—2, Lab III-IV T, PoH 1413, VI-VIII T, PoH 1405, I-IV Th, PoH 1413, VI Th, PoH 1405

181A Research (2 cr; prereq PubH 140 or ♯)
VI-VII T, MH 214, Harris

185A Medical-Surgical Nursing I (4 cr; prereq mental health, adv physiology course)
III-IV MW, PoH 1413, Sarosi, Zatochill

192A Seminar: Psychiatric Field Practice with Individual Patients (8 cr; prereq 191)
III-IV TTh, MH 118, Cowlishaw, Hubbard, Lewis

193 Seminar: Psychopathology (3 cr; prereq ¶192A)
IX-X TTh, MH 214, Lewis

195 Problems (1-9 cr; prereq regis grad prog, △) Lewis

Nursing Education (NuEd)

175 Educational Admin in Nursing (3 cr; prereq ♯)
IV MWF, MH 118, Fritz

197E Adv Teaching (3 cr; prereq regis MEd prog, Nurs 190 or ♯)
VI-VII WF, MH 118, Backlund, Dunning

Practical Nursing (PNur)

15A Nursing Needs (4 cr; prereq 1)
Lect VI-VII MW, PoH Amph, Hudak, Taylor
Lab VI-VII TTh, PoH 2402, Hudak, Taylor

16 Nursing (8 cr; prereq 1, ¶15A-B-C)
Lect I-II M, MH 118, VI-VII F, PoH 1326, Simmons
—1, VI-VII T, PoH 1326
—2, VI-VII Th, PoH 1326
Lab I-IV TWThF

17 Nursing (8 cr; prereq 1, ¶15A-B-C)
Lect I-II M, VI-VII F, PoH 1413, Weisensee
—1, VI-VII T, PoH 1413
—2, VI-VII Th, PoH 1413
Lab I-IV TWThF

18 Nursing (8 cr; prereq 1, ¶15A-B-C)
Lect I-II M, VI-VII F, PoH Amph, Hudak
—1, VI-VII T, PoH Amph
—2, VI-VII Th, PoH Amph
Lab I-IV TWThF

OBSTETRICS AND GYNECOLOGY (Obst)

120 Obstetrics Lectures (4 cr; prereq regis med)
2:00-3:00 W, Hosp ToddAmph, McKelvey, others

124 Introduction (1 cr; prereq regis soph med)
4:30-5:30 Th, Hosp EustisAmph

135 Clinical Clerkship (12 cr; prereq regis med)

201 Adv Obstetrics, Gynecology I (ar cr)

202 Adv Obstetrics, Gynecology I (ar cr; prereq 201)

203 Adv Obstetrics, Gynecology I (ar cr; prereq 202)

204 Adv Obstetrics, Gynecology I (ar cr; prereq 203)

205 Adv Obstetrics, Gynecology II (ar cr; prereq 204)

206 Adv Obstetrics, Gynecology II (ar cr; prereq 205)
207 Adv Obstetrics, Gynecology II (ar cr; prereq 206)
208 Adv Obstetrics, Gynecology II (ar cr; prereq 207)
209 Adv Obstetrics, Gynecology III (ar cr; prereq 208)
210 Adv Obstetrics, Gynecology III (ar cr; prereq 209)
211 Adv Obstetrics, Gynecology III (ar cr; prereq 210)
212 Adv Obstetrics, Gynecology III (ar cr; prereq 211)

OPHTHALMOLOGY (Opth)

200 Clinical Ophthalmology (6 cr)
12:00-5:00 MTWThF, Clinic, Harris, others
201 Practical Ocular Surgery (3 cr)
8:00-12:00 TWTh, Harris, others
202 Ocular Pathology Conference (1 cr)
3:00-4:00 Th, Mayo A675, Monahan
203 Basic, Applied Ophthalmology (2 cr)
8:00-12:00 S, Owre 117, Harris, others
208 Didactic Ocular Surgery (1 cr)
4:00-5:00 F, Sterner
209 Pathology of Eye (1 cr)
4:00-5:00 Th, Monahan, others
215 Research (ar cr) Harris, others

OTOLARYNGOLOGY (Otol)

191 Externship (ar cr; prereq regis med) Duvall
230 Clinical Otology (3 cr)
1:00-4:00 MWThF, Mayo D307, Boies, others
231 Clinical Rhinology, Laryngology (3 cr)
1:00-4:00 MWThF, Mayo D307, Boies, others
232 Surgery of Ear, Nose, Throat (3 cr)
9:00-12:00 MTWThF, Hosp OR, Boies, others
237 Endoscopy (2 cr) Priest
238 Pathology of Ear, Nose, Throat (1 cr)
11:00-12:00 alt S, Mayo A675, Lober
241 Seminar: Current Literature (1 cr)
8:30-12:00 S, Mayo A675, Boies, others
248 Research (1 cr) Boies, others

PATHOLOGY (Path)

53 Pathology for Mortuary Science (3 cr; prereq regis mort)
VIII MWF, JacH 74
60 Pathology for Physical Therapists (3 cr; prereq regis PT)
VI T, VI-VII Th, ChRC 208
102 Special Pathology (8 cr; prereq 101, regis med soph)
Lect VII MWThF, II S, JacH 74, Dawson, others
—1, Lab III-IV M, I-IV W, I-II F, JacH 188, 192, 196
—2, Lab I-II M, VI-IX T, III-IV F, JacH 188, 192, 196
Dem I MWF, III MF, VI T, JacH 178
104 Autopsies (ar cr; prereq 102) Dawson
106 Diseases of Heart (1 cr; prereq 102)
V W, Edwards
110 Seminar (1 cr; prereq 102)
V-VI M, JacH 178, Dawson
111 Conference on Autopsies (1 cr; prereq 102)
V-VI T, JacH 178, Dawson
113 Surgical Pathology (ar cr; prereq 102) Hebbel
122 Basic Science of Cancer (ar cr)
IX-XI MTTh, JacH 178, Wattenberg
140 Seminar: Experimental Pathology (1 cr) Halberg
141 Probs: Experimental Pathology (ar cr) Halberg
150 Problems (ar cr; prereq regis med) Dawson
201 Research (ar cr) Dawson

PEDIATRICS (Ped)

120 Clinical Lecture (2 cr; prereq regis med)
1:00-2:00 W, Hosp ToddAmph, Anderson
135 Clinical Clerkship (12 cr; prereq regis med) Anderson
181 Externship (ar cr) Anderson
182 Clinical Probs (ar cr) Anderson
183 Research (ar cr) Anderson
200 Seminar (1½ cr) Anderson
202 Clinic (ar cr; prereq ‡) Anderson
204 Residency (ar cr; prereq ‡) Anderson
206 Pediatric Special Interest (ar cr; prereq ‡) Anderson
208 Research (ar cr; prereq ‡) Anderson

PHARMACOLOGY (Phcl)

1 Dental Therapeutics (1 cr)
VI Th, JacH 178, Holte

103 Gen Pharmacology (5 cr, †103-104; prereq Phsl 106, 107, MdBc 100, 101)
VIII MW, VI ThF, III S, Owre 15, Shideman, others

108 Dental Therapeutics (1 cr; prereq 101, 102)
8:00-9:00 am F, MMA 125, Holte, others

109 Problems (ar cr; prereq ‡) Shideman

162 Biological Assay of Drugs (3 cr; prereq 101, 102 or ‡)
Lect IV M and ar, White
Lab I-III TTh, AH 215, White

203 Research (ar cr; prereq 103, 104 or ‡)

204 Seminar: Selected Topics (1 cr, 3 cr compl 3 qtrs; prereq 101, 102 or 103, 104 or ‡) Cafruny, others

205 Seminar: Survey Current Pharmacological Literature (1 cr, 3 cr compl 3 qtrs; prereq 101, 102 or 103, 104 or ‡) Marrazzi, others

206 Seminar: Psychopharmacology (1 cr, 3 cr compl 3 qtrs; prereq ‡) Thompson, others

PHYSICAL MEDICINE AND REHABILITATION (PMed)

4 Orientation to Occupational Therapy (1 cr; prereq regis PT)
III W, ChRC 208, Dahlstrom

60A Thermo-, Photo-, Hydrotherapy (6 cr)
Lect III MF, ChRC 208, Cole, others
Lab I-III TThS, ChRC 220, Clayson, Nickolisen

60B Electrotherapy (3 cr)
Lect III M, ChRC 204, Dawson
Lab III-IV WF, ChRC 220, Allison, Wessman

64 Senior Clinic (1 cr)
III Th, ChRC 204, Cole, Knapp

66 Intro to Scientific Literature (2 cr; prereq OT students)
II MW, ChRC 262, Skowlund

68 Applied Anatomy (3 cr)
VII MWF, ChRC 204, Gullickson

72 Theory of Occupational Therapy (3 cr)
I MW, I-II F, ChRC 262, Dahlstrom, Cowan

75 Techniques of Occupational Therapy (3 cr; prereq 74)
V-VII TTh, ChRC 262, Eliason, Lepley, Cowan

80C Theory of Therapeutic Exercise (6 cr)
Lect VI MW, ChRC 204, Halpem, others
Lab V-VI TTh, ChRC 220, Hannan, Mundale, Nickolisen

83 Theory, Technique of Muscle Function (5 cr)
Lect VII MW, ChRC 208, Lepley, Pohtilla
—1, I-II MWF, ChRC 220, Allison, Pohtilla
—2, V-VI MWF, ChRC 220, Cowan, Dahlstrom, Lepley

92 Preliminary Hospital Practice in Occupational Therapy (3 cr)
VII F and ar, ChRC 208, Eliason

95 Clinical Training in Occupational Therapy (18 cr; prereq 94) Eliason

96 Clinical Training in Occupational Therapy (18 cr; prereq 95) Eliason

97 Scientific Research (2 cr; prereq PT maj)
V TTh, ChRC 208, Skowlund

98 Probs: Physical Therapy (ar cr; prereq 97)
I-II MWF, ChRC 204, Skowlund

103 Clinic (ar cr) Kottke

122 Physical Medicine, Rehabilitation (1 cr) Kottke

161 Clinical Medicine in Rehabilitation (5 cr) Kottke

180 Problems (ar cr; prereq physical therapist) Kottke

181 Externship (ar cr; prereq regis med) Kottke

190 Problems (ar cr; prereq regis med) Kottke

197 Intro to Scientific Literature, Research (2 cr; prereq ‡) Skowlund

198 Research Probs (ar cr; prereq 97 or 197 or ‡) Skowlund

200 Service (ar cr) Gullickson, Kottke

204 Clinic: Peripheral Vascular Disease (ar cr) Gullickson

205 Readings (1 cr)
II M, Mayo 825, Kottke

206 Conference (1 cr)

210 Research (ar cr) Gullickson, Kottke, Kubicek

211 Electronics (2 cr) Kubicek

212 Electromyography (ar cr; prereq ‡) Kottke, Kubicek

213 Lab Procedures (1 cr; prereq ‡) Kubicek

220 Seminar (ar cr)
I Th, Hosp EustisAmph, Kottke, Kubicek

PHYSIOLOGY (Phsl)

2 Human Physiology (4 cr; prereq 1 qtr chem, 1 qtr zool or biol)
Lect I MWF, Owre 111
—1, Dem VII-IX W, MH 307
—2, Dem VII-IX Th, MH 307

51 Human Physiology for Nursing, Physical Therapy Students (5 cr; prereq 1 yr chem, zool)
Lect II MWThF, JacH 74
—1, Dem III-IV T, MH 307
—2, Dem VI-VII T, MH 307

53 Principles (3 cr; prereq 52)
III MWF, JacH 74, Johnson

56 Principles (5 cr; prereq 55)
III MWF, JacH 74

60 Human Physiology for Med Tech Students (6 cr; prereq physiol chem, human or mammalian anat)
Lect I MTWThF, Owre 15
Dem II-III Th, MH 307

70 Human Physiology for Pharm Students (7 cr; prereq physiol chem, human or mammalian anat)
Lect I MTWThF, Owre 15, II F, JacH 178
Dem II-III W, MH 307

101 Human Physiology for Dental Students (8 cr; prereq physiol chem, human or mammalian anat)
Lect I MTWThF, Owre 15
Conf VI Th, Owre 111
Lab VI-VIII MF, MH 307

111 Physics for Biologists (3 cr; prereq 110, △)
II MWF, ForH 346, Beck

112 Hemodynamic Measurements (3 cr; prereq regis med) Evans

113 Problems (ar cr; prereq 107)

201 Literature Seminar (1 or 2 cr; prereq 107)
V W, MH 213

202 Readings (ar cr)

203 Research (ar cr)

235 Bioenergetics of Cardiac Contraction (3 cr; prereq 107) Cavert, Lorber

PSYCHIATRY AND NEUROLOGY (NPsy)

101 Clinical Neurology (4 cr; prereq regis med or grad clin psy)
8:00 S, Hosp EustisAmph, Baker

103 Clinical Clerkship (12 cr; prereq regis med)

145 Readings: Psychiatry (ar cr; prereq regis med)

145X Readings: Neurology (ar cr; prereq regis med)

151 Survey of Neuropathology (ar cr, §212 or Path 119; prereq regis med)

181 Externship: Neurology (ar cr; prereq regis med)

182 Probs: Basic, Clinical Neurology (ar cr; prereq regis med)

191 Externship: Adult Psychiatry (ar cr; prereq regis med)

192 Externship: Child Psychiatry (ar cr; prereq regis med)

193 Probs: Psychiatry (ar cr; prereq regis med)

201 Clinical Seminar for Psychologists (1 cr; prereq ‡) Sines

202 Special Research Topics (ar cr; prereq ‡)

203 Psychometric Clerkship (ar cr; prereq ‡)

204 Internship: Clinical Psychology (2 or 4 cr; prereq PhD cand clin psy, ‡ or div clin psy)

205 Seminar: Adv (1 cr; prereq ‡) Hathaway

208 Clinical Neurology (ar cr)

209 Research (ar cr)

210 Adv Neuropathology (2 cr, §150, Path 115)

212 Survey of Neuropathology (1 cr, §151, Path 119)

220 Adv Clinical Neurology (1 cr)

226 Neurological-Neurosurgical Conference (1 cr, §Rad 163 or Surg 318)
2:00-5:00 F, Hosp ToddAmph

231 Applied Electroencephalography, Myography (1 cr)

233 Applied Neuropathology (1 cr)

241 Neuroradiology (1 cr, §Rad 163)

247 Neurological Speech Disorders (1 cr)

251 Clinical Inpatient Psychiatry (ar cr; prereq MD degree)

252 Clinical Outpatient Psychiatry (ar cr; prereq MD degree)

253 Clinical Child Psychiatry (ar cr; prereq MD degree)

254 Adv Clinical Inpatient Psychiatry (ar cr; prereq 251, 252, 253, MD degree)

255 Adv Clinical Outpatient Psychiatry (ar cr; prereq 251, 252, 253, MD degree)

256 Adv Clinical Child Psychiatry (ar cr; prereq 251, 252, 253, MD degree)

257 Special Assignments (1 cr; prereq 251, 252, 253, MD degree)

258 Research (ar cr; prereq MD degree or ‡)

265 Personality Development, Psychodynamics (1 cr; prereq MD degree or ‡) Anderson

266 Therapeutic Dynamics in Hospital Psychiatry (1 cr; prereq MD degree or ‡) Koutsky

271 Readings: Psychoanalysis I (1 cr; prereq MD degree or ‡) Hambidge

274 Seminar: Basic Prins of Clinical Psychology (2 cr) Hathaway

278 Intro to Family Therapy (1 cr; prereq MD degree or ‡)

279 Development of Psychiatric Thought (1 cr; prereq MD degree or ‡) Sukov

281 Readings: Psychoanalysis II (1 cr; prereq MD degree or ‡) Hambidge

283 Seminar: Special Topics (1 cr; prereq MD degree or ‡) Schiele

284 Readings: Child Psychiatry (1 cr) Jensen

285 Seminar: Current Literature in Child Psychiatry (1 cr) Jensen

286 Diagnostic, Therapeutic Methods in Child Psychiatry (1 cr) Jensen

291 Seminar: Current Literature (1 cr; prereq MD degree or ‡) Simon

292 Special Supervision in Psychotherapy (1 cr; prereq MD degree or ‡)

293 Probs: Teaching Psychiatry (ar cr; prereq MD degree or ‡)

295 Group Therapy (1 cr; prereq MD degree or ‡)

PUBLIC HEALTH (PubH)

3 **Personal Health** (2 cr, §2 or 50)
VI TTh, C 100, Thomson

5 Individual, Public Health (3 cr, §2, 3, 4, 50, 51)
I MWF, ScH 108, Thomson

50 **Personal, Community Health** (3 cr, §2, 3, 4, 5, 51, 52)
III MWF, C 100, Thomson

51 Community Hygiene (3 cr, §4, 5, 50, 100; prereq 3)
IV MWF, MMA 100

52 **Home Nursing, Family Care** (1 cr; prereq HE students, 50 or ‡)
—1, VIII-IX T, HS 2nd floor (StP Campus) Simons
—2, VIII-IX Th, HS 2nd floor (StP Campus) Simons

53 Introduction (5 cr; prereq regis nurs or nurs student, 3 or 50, micb)
VII-VIII MWF, Owre 113, G Anderson

92 Physiological Hygiene (4 cr, †91-92; prereq 91)
V MTWTh, NGW, Taylor

95 Human Nutrition (3 cr; prereq chem, biol or ‡)
II MWF, HS W30, Stief

100B Elements of Public Health II (2 cr; prereq 100A)
IV-V T, MMA 100, G Anderson

103 Bacteriology (ar cr; prereq MicB 102, 116, ‡)
I-II MWF, SBH Lab, Bauer

104 **Epidemiology I** (3 cr; prereq 100A, 140, 180 or 110A-111A)
Lect I MWF, Z 313, Gullen, Schuman
—1, II-III T, Mayo 1220, Gullen, Schuman
—2, II-III Th, Mayo 1220, Gullen, Schuman
—3, II-III S, Mayo 1220, Gullen, Schuman

106 Administration (3 cr; prereq 100A)
I TThS, MMA 100, G Anderson

108 Intro to Statistical Decision Making in Mgmt (2 cr)
VI-VII TTh, Mayo 1220, Weckwerth

110B Biometry II (3 cr; prereq 110A, ¶111B)
III MWF, MH 213, Bartsch

111B **Biometry Lab II** (2 cr; prereq ¶110B)
Lect III TTh, MH 213, Bartsch
—1, II MWF, ForH 80, Bartsch
—2, IV MWF, ForH 80, Bartsch
—3, VI MWF, ForH 80, Bartsch
—4, VI-VIII T, ForH 80, Bartsch

112A Public Health Engineering-Plan Examinations: Water Supplies (1 cr, §114; prereq engr degree, 102, ‡) Bond, Singer

112B Public Health Engineering-Plan Examinations: Waste Disposal Systems (1 cr, §114; prereq engr degree, 102, ‡) Bond, Singer

115 Food Sanitation (3 cr; prereq 100A, ‡)
VI-VIII F, Mayo 1138, Olson

117B Sanitary Biology (3 cr; prereq 117A)
Lect VI-IX M, Mayo 1250, Olson
Lab VI-IX W, Mayo 1138

120B Biomedical Computing (3 cr; prereq 120A)
VII MWF, Mayo 1205, Johnson

121B Quantitative Mammalian Biology (3 cr; prereq 121A)
IV MWF, Mayo 1205, Evans

123 Topics (ar cr; prereq ‡)

124 Medical Statistics II (3 cr; prereq DDS or MD or ‡)
VI MWF, Mayo 1210, Bearman

135 Conservation of Hearing (1 cr; prereq ‡)
II F, Owre 117, Lassman, others

136 Handicapped Children (ar cr; prereq 107, ‡) Bridge, others

137 Dental Health (1 cr; prereq ‡)
II M, Owre 117, Jordan

144 History of Biostatistics (2 cr; prereq 3 cr stat)
IV TTh, Mayo 1205, Thornton
146 Radiological Health II (3 cr; prereq ‡)
147 Environmental Radioactivity (3 cr; prereq ‡)
VI MWF, Mayo 1205
150A Vital Statistics II (3 cr; prereq 140 with grade B)
IV MWF, Mayo 1220, Bearman, Thornton
151 Health Aspects of Air Control in Hospitals (2 cr; prereq ‡) Michaelsen
152 Industrial Hygiene Engineering (3 cr; prereq ‡)
IV MW, IV-V F, Mayo 1220, Michaelsen
155 Air Pollution Probs (3 cr; prereq ‡)
III MWF, Mayo 1205, Paulus
157 Radiation Protection Criteria for Hospital Design, Operation (2 cr; prereq ‡) Michaelsen, Wollan
158 Hospital Safety (3 cr; prereq ‡) Michaelsen, Scheffler
163 Prin of Organization, Mgt of Hospitals (6 cr; prereq 162)
I-II MWF, II-III TThS, Mayo 1250, Bieter, Damberg, Laur, Sweetland
166 Hospital Clerkship (5 cr)
IV MW, VI-VII MWF, Bieter, Kelley
169 Administrative Residency (ar cr)
170 Admin of Public Health Nursing (2 cr, §170A; prereq health officers or ‡)
VI-VII Th, Mayo 1250
170A Admin of Public Health Nursing (1 cr, §170; prereq ‡)
IV Th, Mayo 1220
173 Culture, Public Health I (3 cr; prereq ‡)
175 Foundations of Public Health Nursing II (4 cr; prereq 174) Von Bergen
179A Long-Term Patient Care, Rehabilitation (ar cr; prereq 171, 174) E Anderson, others
181B Principles, Methods in Public Health Education (4 cr; prereq ‡)
VI-VII MW, Mayo 1210, Craig, Grout
186 Probs of Air Pollution Control (ar cr; prereq 155, ‡) Paulus
192 Psysiology of Exercise (ar cr; prereq Phsl 107, ‡) Taylor
195 Aspects of Cardiovascular Disease (3 cr; prereq ‡)
VII-VIII MW, StadG 27, Keys, others
197B Elements of Mathematical Biology (5 cr; prereq 197A) Evans
200 Research (ar cr)
201 Topics: Biometry (ar cr; prereq 110A, ‡)
203B Research Design: Biometry (3 cr; prereq 203A)
II MWF, Mayo 1210, McHugh
204B Theory of Research Design: Biometry (2 cr; prereq 204A)
II TTh, Mayo 1210, McHugh
210 Seminar (ar cr)
VIII-IX Th, MMA 100
211 Seminar: Biometry (ar cr)
VI-VII T, Mayo 1210, Boen, others
212 Seminar: Public Health Engineering, Sanitation (ar cr; prereq ‡)
VI-VII Th, HS W30, Olson
213 Seminar: Epidemiology (ar cr; prereq ‡)
VI-VIII F, Mayo 1325, Gullen, Schuman
214 Health of School Age Child (2 cr; prereq 107 or ‡) Bridge
215 Maternal, Child Health Probs (3 cr; prereq 107, ‡)
III-IV MF, Mayo 1210, Bridge
216B Biomedical Measurement Probs (3 cr; prereq 216A)
III MWF, Mayo 1220, Brown
217B Theory for Biomedical Measurement Probs (2 cr; prereq 217A)
III TTh, Mayo 1220, Brown
220 Readings: Probs of Physiological Hygiene (ar cr; prereq ‡) Keys
221 Seminar: Long-Term Patient Care, Rehabilitation (ar cr; prereq 179 or ‡)
225 Practicum in Teaching Public Health Nursing (ar cr; prereq ‡) McIntyre
227 Probs: Public Health Education (ar cr; prereq ‡) Grout
262 Alternative Patterns for Meeting Health Care Needs (3 cr; prereq 261)
269 Political Aspects of Health Services (3 cr; prereq ‡) Litman
290 Research: Physiological Hygiene, Related Areas (ar cr) Keys, others

RADIOLOGY (Rad)

102 X-Ray Conference (1 cr; prereq ‡)
5:00-6:00 T, X-Ray Conf Rm, Peterson, others
103 Fundamentals of Radiation Physics, Radiobiology, Nuclear Medicine (1 cr)
4:00-5:00 T, PoHAmph, Jacobson, Moore
104 Fundamentals of Nuclear Medicine (1 cr; prereq 1st yr residents)
4:00-5:00 M, PoHAmph, Loken
111 Medical Roentgenologic Conference (1 cr)
9:00-10:00 M, Hosp ToddAmph, Gedgaudas, Peterson

124 Pediatric-Roentgenologic Conference for Graduate Students (1 cr)
9:00-10:00 T, Hosp EustisAmph, Feinberg, Wolfson

135 Surgical Roentgenologic Conference (1 cr)
9:30-10:30 S, Hosp ToddAmph, Amplatz, Gedgaudas

163 Neurosurgical-Roentgenologic Conference (1 cr)
1:00-2:30 F, Hosp ToddAmph, Peterson

180 Externship (ar cr; prereq regis med) Davidson, Wolfson

181 Externship: Diagnostic Radiology (ar cr; prereq regis med) Davidson, Wolfson

182 Externship: Radiation Therapy (ar cr; prereq regis med) D'Angio

183 Probs: Radiation Biology, Radioactive Isotope Methods (ar cr; prereq regis med) D'Angio, Loken

184 Probs: Diagnostic Radiology (ar cr; prereq regis med) Gedgaudas, Wolfson

200 Research: Roentgenology (ar cr) Peterson, others

202 Cardiovascular Roentgenologic Conference (1 cr)
2:30-4:30 M, Hosp ToddAmph, Amplatz, Gedgaudas

204 Tumor Clinic Conference (ar cr)
11:00-12:00 M, Hosp ToddAmph, D'Angio

205 Research: Radiation Therapy, Nuclear Medicine, Radiobiology (ar cr; prereq #) D'Angio, Loken

206 Roentgenoscopy (3 cr) Peterson, others

209 Roentgen Diagnosis (3 cr) Peterson, others

210 Roentgen Technique (2 cr) Peterson, others

211 Dosimetry of Internal, External Radiation Emitters (1 cr)
7:00-8:00 am W, Mayo B142, Moore

212 Seminar: Radiation Biophysics (1 cr; prereq #)
5:00-6:00 W, X-Ray Conf Rm, Jacobson

217 Roentgenologic Conference on Chest Diseases (1 cr)
3:30-4:30 F, Hosp EustisAmph, Gedgaudas, Tobin

220 Urologic-Roentgenologic Conference (1 cr)
5:00-6:00 M, X-Ray Conf Rm, Baggenstoss, Creevy, Peterson

236 Seminar: Radioisotope (1 cr)
12:00-1:00 W, Mayo C239, Loken

238 Roentgen-Surgical Pathology Conference (1 cr)
4:00-6:00 Th, Hosp ToddAmph, Lober, Peterson, others

240 Radiation Therapy Conference (1 cr)
5:00-6:00 M, PoHAmph, D'Angio

SURGERY (Surg)

122 Prin of Diagnosis, Treatment, Prognosis of Fractures, Dislocations (1 cr; prereq regis med) Moe, others

127 Clinical Lectures: Neurosurgery (1 cr; prereq regis med) French, others

129 Clinical Lectures: Gen Surgery (1 cr; prereq regis med) Wangensteen, others

135 Clinical Clerkship (16 cr; prereq regis med) Wangensteen, others

140 Clinical Lectures in Orthopedic Surgery (1 cr; prereq regis med) Moe, others

173 Urology Lecture (1 cr; prereq regis med) Creevy, others

180 Externship: Urology (ar cr; prereq regis med) Creevy, others

181 Cardiovascular Surgery (ar cr; prereq regis med) Lillehei

182 Probs: Clinical Investigation and/or Experimental Surgery (ar cr; prereq regis med) Wangensteen

183 Externship: Affiliated Hospital (ar cr; prereq regis med) Wangensteen

185 Externship: Orthopedic Surgery, Fractures (ar cr; prereq regis med) Moe

186 Research Probs (ar cr; prereq regis med) Moe

188 Externship: Neurosurgery (ar cr; prereq regis med) French, others

189 Externship: Neurosurgery (ar cr; prereq regis med) French, others

190 Neurosurgical Investigation (ar cr; prereq regis med) French, others

200 Outpatient Clinic (1 cr) Wangensteen

202 Applied Surgical Anatomy on Cadaver (1 cr) Wangensteen

203 Proctoscopy, Sigmoidoscopy (1 cr) Bernstein, Wangensteen

204 Tumor Clinic (1 cr)
I-IV Th, Clinic, Hosp ToddAmph, Wangensteen, others

205 Surgical Diagnosis (1 cr) Wangensteen, others

208 Surgical Probs, Mgt (1 cr) Wangensteen, others

211 Operative Surgery (1 cr) Wangensteen, others

214 Surgical Ward Conference (1 cr) Wangensteen, others

215 Surgical-Roentgenological Conference (1 cr)
II-IV S, Hosp ToddAmph, Wangensteen, others
216 Research (ar cr) Wangensteen, others
217 Seminar (1 cr) Wangensteen, others
218 Surgery-Medical Pathological Conference (1 cr)
IV W, Hosp ToddAmph, Wangensteen, others
219 Surgical Literature Conference (1 cr)
I T, SurgLib, Wangensteen, others
220 Peripheral Vascular Surgery (1 cr)
II-IV T, Clinic, Wangensteen, others
221 Seminar: Surgery-Physiology (1 cr)
VIII T, SurgLib, Wangensteen, others
250 Urological Surgery (4 cr) Creevy, others
251 Cytoscopy, Urological Diagnosis (4 cr) Creevy, others
252 Urological Conference (4 cr) Creevy, others
253 Research: Urology (4 cr) Creevy, others
254 Seminar: Urology (3 cr) Creevy, others
255 Urological Radiological Conference (3 cr) Creevy, others
256 Urological Pathological Conference (3 cr) Creevy, others
257 Use of the Artificial Kidney (3 cr) Creevy, others
286 Biomedical Engr Seminar (1-3 cr; prereq 285)
VIII Th, Arch 30, Wangensteen, others
308 Study of Neurosurgical Probs, Mgt (4 cr) French, others
311 Operative Neurosurgery (4 cr) French, others
316 Neurosurgical Research (3 cr) French, others
318 Neurosurgical Conference (1 cr)
VI-VIII F, Hosp ToddAmph, French, others
401 Orthopedic Conference (3 cr) Moe, others
403 Fractures (5 cr) Moe, others
405 Orthopedic Diagnosis (3 cr) Moe, others
407 Pediatric Orthopedics (5 cr) Moe, others
408 Orthopedic Probs, Mgt (5 cr) Moe, others
410 Orthopedic Pathology (2 cr) Moe, others
411 Orthopedic Operative Surgery (5 cr) Moe, others

COMPREHENSIVE CLINIC (CoCl)

150 Comprehensive Clinic (ar cr; prereq regis med) Magraw

COLLEGE OF PHARMACY

Pharmaceutical Chemistry (PhmC)

2 Inorganic Pharmaceutical Products (4 cr; prereq 1)
I MWF, IV T, AH 150, Soine
54 Quantitative Pharmaceutical Chemistry (5 cr; prereq soph, GeCh 6, OrCh 62)
Lect III MWF, AH 150, DiGangi
—1, Lab VI-VIII MW, AH 325, DiGangi
—2, Lab VI-VIII TTh, AH 325, DiGangi
162 Organic Medicinal Agents (3 cr; prereq 161)
IV MWF, AH 150, Gisvold
164 Analytical Methods (3 cr; prereq sr, 55, OrCh 63)
Lect V M, Portoghese
Lab I-III TTh, AH 325, Portoghese
173 Problems (ar cr; prereq 3rd or 4th yr pharm, ♯)
202 Medicinal, Natural Chemistry Seminar (1 cr; prereq 201)
VIII T, AH 350
213 Lab Techniques (ar cr; prereq OrCh 63 or ♯)
214 Research (ar cr; prereq OrCh 63 or ♯)

Pharmaceutical Technology (PhmT)

1B Orientation: Laws, Organizations (1 cr)
IV Th, AH 150, Weaver
53 Fundamental Prins, Processes (4 cr; prereq 3, Phys 1, OrCh 61)
II MTWF, AH 150, Rippie
56 Pharmaceutical Preparations (4 cr; prereq 55)
Lect III TTh, AH 150, McRae
—1, Lab VI-VIII MW, AH 125, McRae
—2, Lab VI-VIII TTh, AH 125, McRae

59 Prescription Compounding (ar cr; prereq 58)
Lect II MWF, AH 9, Miller
Conf V T, AH 150, Miller
Lab VI-VIII TTh, AH 104, Miller

64 Pharmaceutical Jurisprudence (3 cr; prereq sr)
I MWF, AH 9, Kabat
Conf V T, AH 150, Kabat

166 Pharmaceutical Manufacturing (3 cr; prereq sr, 56)
Lect IV M, AH 101, Miller
Lab I-III TTh, AH 28, Miller

171 Hospital Pharmacy Admin II (3 cr; prereq 170, ‡) Kabat

173 Problems (ar cr; prereq jr or sr, ‡)

201 Seminar (1 cr)
IX W, AH 101

213 Research Probs (ar cr; prereq PhmC 163 or ‡)

Pharmacognosy (Phcg)

2 Introduction (3 cr; prereq soph, 1)
Lect I T, II Th, AH 150, Schramm
Conf V F, AH 150, Schramm
—1, Lab VI-VIII T, AH 225, Schramm
—2, Lab VI-VIII W, AH 225, Schramm

151 Pesticides, Plant Growth Regulators (3 cr; prereq 3, Phcl 57 or ‡)
Lect IV WF, AH 101, Schramm
Lab II-IV T, AH 225, Schramm

152 Metabolism (3 cr; prereq 3 or ‡)
Lect VI MW, Schramm
Lab VI-VIII M, AH 225, Schramm

154 Microscopy, Microchemical Methods (3 cr; prereq 3 or ‡) Schramm

160 Interm Pharmacognosy (3 cr; prereq 3 or ‡)
III MWF, AH 9, Jonas

165 Application of Radionuclides (3 cr; prereq jr, MicB 53, ‡)
Lect V WF, AH 101, Jonas
Lab VI-VIII W, AH 206, Jonas

173 Problems (ar cr; prereq ‡)

204 Research (ar cr; prereq ‡)

INSTITUTE OF TECHNOLOGY

AERONAUTICS AND ENGINEERING MECHANICS

Aeronautics (Aero)

5 Aerospace Survey, Lab (1 cr)
VIII M, AE 209

101A Incompressible Boundary Layer Theory (4 cr; prereq 100A)
—1, III MWF, AE 225, VI-VII T, AE 21
—2, III MWF, AE 227, VI-VII Th, AE 21

108 Stability, Control of Aerospace Vehicles (3 cr; prereq 100A)
VI MWF, AE 227

116 Aerospace Structures II (3 cr; prereq 115)
III MWF, AE 21

130 Design Methods for Aerospace Systems (3 cr; prereq 4th yr, ‡)
V MWF, AE 21

146 Aeromechanics Lab III (2 cr; prereq 145, ¶Engl 85)
Lect I Th, Arch 25
—1, Lab II-IV T, AE 30
—2, Lab VI-VIII T, AE 30
—3, Lab II-IV Th, AE 30
—4, Lab VI-VIII Th, AE 30

184 Intro to Hypersonic Flows (3 cr; prereq 102, 102A)
I MWF, AE 227

194 Probs: Fluid Mechanics (0-3 cr; prereq ‡)

202 Finite Waves in Compressible Fluids (3 cr; prereq 201 or ‡)
11:15-12:30 TTh, AE 21

206 Boundary Layer Theory (3 cr; prereq Math 149, ¶201 or ‡)
VII MWF, AE 227

211 Selected Topics: Fluid Mechanics (0-3 cr; prereq ‡)
9:45-11:00 TTh, AE 21

298 Seminar: Fluid Mechanics (0-1 cr)
2:15-5:15 Th, AE 225

Mechanics and Materials (MM)

35 Statics (4 cr; prereq Math 31 or ¶, Phys 21)
Lect VI MWF, ME 18
—1, III-IV T, AE 313
—2, VIII-IX T, AE 317

—3, III-IV Th, AE 327
—4, VI-VII Th, AE 321

37 **Deformable Body Mechanics** (4 cr; prereq 35, Math 31 or ¶)
—1, II MWF, I-II T, AE 313
—2, II MWF, III-IV T, AE 317
—3, II MWF, AE 319, VI-VII T, AE 317
—4, II MWF, VIII-IX T, AE 321
—5, II MWF, AE 327, III-IV Th, AE 317
—6, II MWF, AE 215, VIII-IX Th, AE 317
—7, IV MWF, I-II Th, AE 313
—8, IV MWF, VI-VII Th, AE 317
—9, IV MWF, AE 319, I-II T, AE 327
—10, IV MWF, VI-VII T, AE 321
—11, IV MWF, I-II Th, AE 327

92 **Statics for Architects** (4 cr; prereq Math 22)
I MTWTh, AE 209

165 **Problems** (0-3 cr; prereq ♯)
2:15-3:30 TTh, AE 227

181 **Applied Elasticity II** (3 cr; prereq 180)
IV MWF, AE 21

201 Adv Dynamics (3 cr; prereq 138)
VI MWF, AE 21

211 Theory of Vibrations II (3 cr; prereq 193 or 210)
VII MWF, AE 21

241 Theory of Viscoelasticity (3 cr; prereq 180 or 294)
11:15-12:30 TTh, AE 227

265 Topics (0-3 cr; prereq ♯)

285 Continuum Mechanics (3 cr; prereq 294 or AE 201 or ♯)
9:45-11:00 TTh, AE 227

295 Theory of Elasticity II (3 cr; prereq 180 or 294)
12:45-2:00 TTh, AE 227

298 Seminar (0-1 cr)
2:15-5:15 F, AE 309

AGRICULTURAL ENGINEERING (AgEn)

91 **Design, Mgmt of Agricultural Machinery** (3 cr; prereq ME 24)
Lect VI WF, AgEng 306, Smith
Lab VII-IX F, AgEng 306, Smith

94 **Erosion Control Engineering** (3 cr; prereq 90, Hydr 101 or ¶)
I MWF, AgEng 16, Larson

100 **Employment Evaluation** (1 cr) Boyd

141 **Design of Agricultural Machinery** (3 cr; prereq 91)
Lect VII M, AgEng 105, Strait
Lab VIII-X M, VII-IX W, AgEng 306, Strait

144 **Adv Drainage, Irrigation** (3 cr; prereq 124)
II MWF, AgEng 16, Allred

147 **Agricultural Structures, Animal Environment** (3 cr; prereq 97, 127, ME 160A)
Lect VI TTh, AgEng 317
Lab VII-IX Th, AgEng 317

181 **Probs: Power, Machinery** (2-4 cr; prereq sr, ♯) Boyd, Smith, Strait

184 **Probs: Soil, Water** (2-4 cr; prereq sr, ♯) Allred, Larson, Machmeier, Manson

187 **Probs: Structures, Processing** (2-4 cr; prereq sr, ♯) Hustrulid, Pomroy

200 Seminar (1 cr; prereq ♯) Boyd

211 Adv Probs, Research (2-6 cr; prereq 181 or 184 or 187 or △)

212 Adv Probs, Research (2-6 cr; prereq 181 or 184 or 187 or △)

213 Adv Probs, Research (2-6 cr; prereq 181 or 184 or 187 or △)

230 Agricultural Engineering Similitude (3 cr; prereq Math 148 or 150)
Lect II TTh, AgEng 105, Boyd
Lab VII-IX Th, AgEng 48, Boyd

254 Adv Hydrology: Small Watersheds (3 cr; prereq CE 161)
4:15-5:30 TTh, AgEng 105, Larson

ARCHITECTURE (Arch)

41 **Adv Art for Architectural Students** (2 cr; prereq Art 25A)
XI-XII W, Arch 120, Hauser

42 **Adv Art for Architectural Students** (2 cr; prereq 41)
XI-XII W, Arch 120, Hauser

43 **Adv Art for Architectural Students** (2 cr; prereq 42)
XI-XIII W, Arch 20, Hauser

52 **History of Architecture** (3 cr; prereq 51)
II MWF, Arch 25, Winterowd

55 **History of Architecture** (3 cr; prereq 54)
IV MWF, Arch 130, Winterowd

72 **Building Technology** (4 cr; prereq 71)
III-IV TTh, Arch 130, Graffunder

75 **Building Technology** (4 cr; prereq 74)
III-IV TTh, Arch 55, Diedrich

82 **Architectural Design** (6 cr, †81-82-83; prereq 81)
Lect VI-VII W, Arch 130, Myers
Lab VIII-IX W, VI-IX MThF, Arch 210, Myers

83 **Architectural Design** (6 cr, †81-82-83; prereq 82)
Lect VI-VII W, Arch 130, Myers
Lab VIII-IX W, VI-IX MThF, Arch 210, Myers

91 **Architectural Design** (6 cr, †91-92-93; prereq 83)
Lect VI-VII M, Arch 130, Stageberg
Lab VIII-IX M, VI-IX WThF, Arch 220, Stageberg

92 **Architectural Design** (6 cr, †91-92-93; prereq 91)
Lect VI-VII M, Arch 130, Stageberg
Lab VIII-IX M, VI-IX WThF, Arch 220, Stageberg

93 **Architectural Design** (6 cr, †91-92-93; prereq 92)
Lect VI-VII M, Arch 130, Stageberg
Lab VIII-IX M, VI-IX WThF, Arch 220, Stageberg

102 **Tutorial Work in History of Architecture** (2 cr; prereq 101) Winterowd

111 **Architectural Design** (7 cr, †111-112-113; prereq 93, MM 93)
Lect VI-VII Th, Arch 130, Parker
Lab VIII-IX Th, VI-IX MWF, Arch 230, 6 hrs ar, Parker

112 **Architectural Design** (7 cr, †111-112-113; prereq 111)
Lect VI-VII Th, Arch 130, Parker
Lab VIII-IX Th, VI-IX MWF, Arch 230, 6 hrs ar, Parker

113 **Architectural Design** (7 cr, †111-112-113; prereq 112)
Lect VI-VII Th, Arch 130, Parker
Lab VIII-IX Th, VI-IX MWF, Arch 230, 6 hrs ar, Parker

116 **Structure, Form** (3 cr; prereq 115)
Lect VI-VII T, Arch 130, Michelson
Lab VII-IX T, Arch 230, 1 hr ar, Michelson

121 **Architectural Design** (9 cr, †121-122; prereq 113, CE 41)
Lect VI-VII F, Arch 130
Lab VIII-IX F, VI-IX MTWTh, Arch 240, 5 hrs ar

122 **Architectural Design** (9 cr, †121-122; prereq 121)
Lect VI-VII F, Arch 130
Lab VI-IX MTWTh, VIII-IX F, Arch 240, 5 hrs ar

123 **Thesis** (12 cr; prereq 122)
36 hrs ar, Arch 240, Cerny

132 **Planning** (3 cr)
I-II TTh, Arch 130, Vivrett

134 **Planning** (3 cr; prereq 133 or ♯) Vivrett

152 **Theory** (2 cr; prereq 151) Rapson

CHEMICAL ENGINEERING (ChEn)

102 **Principles** (5 cr; prereq 101)
Lect II TThS, ChE 240, Scriven
—1, Rec I MWF, ChE 158
—2, Rec II MWF, ChE 154
—3, Rec V MWF, ChE 154
—4, Rec VI MWF, ChE 154

112 **Laboratory** (2 cr; prereq 111)
Conf V T, MinMet 116, Fredrickson
—1, Lab VI-IX M, ChE 3rd floor
—2, Lab VI-IX T, ChE 3rd floor
—3, Lab VI-IX Th, ChE 3rd floor
—4, Lab VI-IX F, ChE 3rd floor

116 **Process Evaluation, Design** (3 cr; prereq 103)
I-II TTh, ChE 50, Madden

119 **Thermodynamics** (3 cr; prereq 100, PCh 101A)
Lect I TTh, ChE 240, Davis
—1, Rec II MW, ChE 50
—2, Rec V MW, ChE 158
—3, Rec V MW, ChE 162
—4, Rec VI MW, ChE 150

123 **Biochemical Engineering** (3 cr; prereq 122)
III MWF, ChE 150, Fredrickson

153 **Problems** (ar cr)

154 **Problems** (ar cr)

162 **Nuclear Reactor Design** (3 cr; prereq 161)
I MWF, ChE 154, Isbin

172 **Process Control** (3 cr; prereq 171)
Lect IV TTh, ChE 50, Ceaglske
—1, Lab VI-IX T, ChE 158, 257
—2, Lab VI-IX W, ChE 158, 257
—3, Lab VI-IX Th, ChE 158

202 Seminar (1 cr)
VI TTh, ChE 240, Davis, Ranz

209 Physical Rate Processes, Transfer Operations (3 cr; prereq 208)
VII MWF, ChE 50, Fredrickson

212 Molecular Theory of Transport Processes (3 cr; prereq 211)
VI MWF, ChE 162, Dahler

215 Adv Mathematics for Chemical Engineers, Chemists (3 cr; prereq 214)
I-II TTh, ChE 54, Amundson

219 Adv Thermodynamics (3 cr; prereq 120 or ♯)
VI MWF, ChE 50, Davis

222 Chemical Rate Processes, Reactor Design Prin (3 cr; prereq 221)
V MWF, ChE 150, Carr

225 Fluid Mechanics, Related Topics (3 cr; prereq ♯)
VII-VIII TTh, ChE 50, Aris

264 Survey (1 cr; prereq ♯)

301 Research (ar cr)
302 Research (ar cr; prereq 301)

CHEMISTRY

Analytical Chemistry (AnCh)

46 Intro to Analytical Chemistry I (3 cr; prereq GeCh 5 or 25 or ¶)
Lect II MThF, SciB 375, Meehan

46H Honors Course: Intro to Analytical Chemistry I (3 cr; prereq GeCh 5 or ¶)
Lect II MWF, C 315, Swofford

97 Senior Thesis (ar cr; prereq 4th yr)

104 Polarizing Microscope (3 cr; prereq 47, Phys 3, 6 or 9 or ♯)
Lect VI F, C 315, Sandell, lab ar

107 Gen Technical Analysis (2 or 3 cr; prereq 47) Sandell

112 Physicochemical Methods of Analysis (2 or 3 cr; prereq 102, 111 or 47, 111)
—1, Lab I-III TThS, C 310, Lingane
—2, Lab IV-VI TTh, C 310
—3, Lab VII-IX TTh, C 310
—4, Lab VII-IX MWF, C 310
—5, Lab 6:00-9:00 pm MWF, C 310

113 Physicochemical Methods of Analysis (3 cr; prereq 111, ♯)
—1, Lab I-III TThF, C 310, Lingane
—2, Lab IV-VI TThF, C 310
—3, Lab VII-IX TThF, C 310

117 Electrochemical Methods of Analysis (4 cr; prereq 111 or 211)
Lect II TThS, C 315, Bruckenstein

123 Analysis of Complex Materials (3 cr; prereq 212) Sandell

140 Water Analysis (2 cr; prereq 47) Sandell

142 Seminar: Modern Probs (1 cr; prereq 111)
IV T, C 325, Swofford

202 Topics (ar cr; prereq 212)

212 Physicochemical Methods of Analysis (3 cr; prereq 211)
—1, Lab I-III MWF, C 310, Bruckenstein
—2, Lab IV-VI MWF, C 310

236 Seminar: Research (ar cr)
VIII-IX Th, C 325, Bruckenstein

302 Research (ar cr)

General Chemistry (GeCh)

4 Gen Prins of Chemistry (5 cr, †4-5; prereq predicted Math GPA 1.9 on ACT; Math Y or Z or col course in alg)
—1, Lect III MWThF, SciB 375, Hugus
—1, Rec V M, C 111, Lab VII-IX M
—2, Rec V M, NH 216, Lab VII-IX M
—3, Rec V M, Owre 113, Lab VII-IX M
—4, Rec V W, JacH 74, Lab VII-IX W
—5, Rec V W, C 225, Lab VII-IX W
—6, Rec V W, C 111, Lab VII-IX W
—7, Rec V F, FraH B1, Lab VII-IX F
—8, Rec V F, C 111, Lab VII-IX F
—9, Rec VI Th, C 315, Lab VII-IX Th
—10, Rec VI Th, C 111, Lab VII-IX Th
—2, Lect V MTWF, SciB 325, Henneike
—11, Rec VI M, ME 214, Lab VII-IX M
—12, Rec VI M, Arch 50, Lab VII-IX M
—13, Rec VI M, ME 302, Lab VII-IX M
—14, Rec VI W, ME 214, Lab VII-IX W
—15, Rec VI W, Arch 50, Lab VII-IX W
—16, Rec VI W, ME 302, Lab VII-IX W
—17, Rec VI Th, E 227, Lab VII-IX Th
—18, Rec VI F, ME 214, Lab VII-IX F
—19, Rec VI F, Arch 50, Lab VII-IX F
—20, Rec VI F, ME 302, Lab VII-IX F
—3, Lect VIII MWThF, GorC 10 (StP Campus) O'Connor
—21, Rec V T, C 111, Lab VII-IX T
—22, Rec V T, ME 321, Lab VII-IX T
—23, Rec V T, Ph 145, Lab VII-IX T
—24, Rec V T, MinMet 104, Lab VII-IX T
—25, Rec VI T, SciB 375, Lab VII-IX T
—26, Rec VI T, ChE 40, Lab VII-IX T
—27, Rec VI T, C 111, Lab VII-IX T
—28, Rec VI T, MurH 420, Lab VII-IX T

5 Gen Prins of Chemistry (5 cr, †4-5; prereq 4)
—1, Lect IV MTWF, SciB 375, Johnson
—1, Rec IV Th, ChE 54, Lab VII-IX Th
—2, Rec IV Th, ChE 154, Lab VII-IX Th
—3, Rec V M, C 115, Lab VII-IX M
—4, Rec V T, C 115, Lab VII-IX T
—5, Rec V W, C 115, Lab VII-IX W
—6, Rec V F, C 115, Lab VII-IX F
—7, Rec VI M, C 115, Lab VII-IX M
—8, Rec VI W, C 115, Lab VII-IX W
—9, Rec VI F, C 115, Lab VII-IX F
—2, Lect V MTWF, SciB 375, Bent
—10, Rec VI M, C 315, Lab VII-IX M
—11, Rec VI M, C 111, Lab VII-IX M
—12, Rec VI T, C 115, Lab VII-IX T
—13, Rec VI T, C 315, Lab VII-IX T
—14, Rec VI W, C 315, Lab VII-IX W

—15, Rec VI W, C 111, Lab VII-IX W
—16, Rec VI F, ForH 50, Lab VII-IX F
—17, Rec VI F, FraH 101, Lab VII-IX F
—18, Rec VI F, C 111, Lab VII-IX F
—3, Lect VII MTWF, SciB 375, Reynolds
—19, Rec V Th, C 111, Lab VII-IX Th
—20, Rec V Th, C 315, Lab VII-IX Th
—21, Rec V Th, C 115, Lab VII-IX Th
—22, Rec V Th, AH 101, Lab VII-IX Th
—23, Rec VI Th, ChE 40, Lab VII-IX Th
—24, Rec VI Th, Ph 143, Lab VII-IX Th
—25, Rec VI Th, MurH 420, Lab VII-IX Th
—26, Rec VI Th, C 115, Lab VII-IX Th
—4, Lect I MWThF, GorC 10 (StP Campus) Brasted
—27, Rec V M, C 315, Lab VII-IX M
—28, Rec V T, C 315, Lab VII-IX T
—29, Rec V W, C 315, Lab VII-IX W
—30, Rec V F, C 315, Lab VII-IX F
—31, Rec VI M, Bu 105, Lab VII-IX M
—32, Rec VI T, E 227, Lab VII-IX T
—33, Rec VI W, MMA 100, Lab VII-IX W
—34, Rec VI F, FraH 20, Lab VII-IX F
—35, Rec VI F, FraH 120, Lab VII-IX F

15 Gen Prins of Chemistry (4 cr, †14-15; prereq 14)
—1, Lect I MWThF, SciB 325, Conroy
—1, Rec I T, Arch 25, Lab II-IV T
—2, Rec I T, Arch 145, Lab II-IV T
—3, Rec I T, NH 209A, Lab II-IV T
—4, Rec I T, C 115, Lab II-IV Th
—5, Rec I T, C 315, Lab II-IV Th
—6, Rec I T, C 325, Lab II-IV Th
—7, Rec I T, Ph 236A, Lab VII-IX F
—8, Rec I T, MH 214, Lab VII-IX W
—2, Lect IV MWThF, SciB 325, Schwabacher
—9, Rec IV T, C 225, Lab VI-VIII T
—10, Rec IV T, ChE 154, Lab VI-VIII W
—11, Rec IV T, ChE 54, Lab VI-VIII W
—12, Rec IV T, AE 327, Lab VI-VIII Th
—13, Rec IV T, Bu 125, Lab VI-VIII Th
—14, Rec IV T, P 110, Lab VI-VIII Th
—15, Rec IV T, C 115, Lab VI-VIII F
—16, Rec IV T, ChE 40, Lab VI-VIII F

25 Gen Prins of Chemistry (3 cr, †24-25; prereq 24)
Lect II W, I Th, SciB 375, O'Connor
Lab I-III T

25H Honors Course: Gen Prins of Chemistry (3 cr; prereq 24H or 24, ♯)
Lect II W, I Th, C 115, Tobias
Lab I-III T

Inorganic Chemistry (InCh)

97 Senior Thesis (ar cr; prereq 4th yr)

103 Inorganic Chemistry I (3 cr; prereq PCh 102A)
III MWF, C 225, Tobias

135 Seminar: Modern Probs (1 cr; prereq PCh 103 or 103A, ♯)
IV Th, C 225, Hugus

204 Adv Inorganic Chemistry II: Thermodynamics, Kinetics of Inorganic Chemical Reactions (3 cr; prereq 203 or ♯)
III MWF, C 315, 1 hr ar, Bent

221 Adv Lab Methods (ar cr; prereq ♯)
IV T, C 315, Brasted, Reynolds

260 General Survey (1 cr)

302 Research (ar cr)

Organic Chemistry (OrCh)

61 Elem Organic Chemistry (5 cr; prereq GeCh 5 or 25)
Lect IV MTWF, ChE 240, Borch
Lab Conf IV Th, ChE 240
—1, Lab VI-IX M, C 390
—2, Lab VI-IX T, C 390
—3, Lab VI-IX W, C 390
—4, Lab VI-IX Th, C 390
—5, Lab VI-IX F, C 390
Lect II MTWF, SciB 325, Koelsch
Lab Conf II Th, SciB 325
—6, Lab VI-IX M, C 390
—7, Lab VI-IX T, C 390
—8, Lab VI-IX W, C 390
—9, Lab VI-IX Th, C 390
—10, Lab VI-IX F, C 390

62 Elem Organic Chemistry (5 cr; prereq 61 or 41)
Lect I TWThF, SciB 125, Kreevoy
Lab Conf I M, SciB 125
—1, Lab VI-IX M, C 390
—2, Lab II-V T, C 390
—3, Lab VI-IX T, C 390
—4, Lab VI-IX W, C 390
—5, Lab II-V Th, C 390
—6, Lab VI-IX F, C 390
Lect III MTWF, SciB 325, Dodson

Lab Conf III Th, SciB 325
—7, Lab VI-IX M, C 390
—8, Lab VI-IX T, C 390
—9, Lab VI-IX W, C 390
—10, Lab VI-IX Th, C 390
—11, Lab VI-IX F, C 390

97 Senior Thesis (ar cr; prereq 4th yr, ‡)

139 Adv Organic Chemistry Lab (2-5 cr; prereq 64 or 65)
Lab Conf VIII M, C 315, Noland, lab ar

144 Heterocyclic Compounds (3 cr; prereq 63)
III TThS, C 325, Leete

202 Seminar (1 cr)
7:30-8:30 **pm** W, C 225

231 Adv Organic Chemistry (4 cr; prereq 230 or ‡)
II MWF, C 325, Parham

238 Intro to Research (4 cr; prereq 63, 65)
II TThS, C 325, Fenton, Garbisch

261 General Survey (1 cr)

302 Research (ar cr; prereq 238, 239, △)

Physical Chemistry (PCh)

92 Special Topics (2 cr; prereq 91)
IX MF, C 315, Moscowitz

97 Senior Thesis (ar cr; prereq 4th yr)

102A Physical Chemistry (4 cr; prereq 1 yr col chem, Phys 9 or 6 with △, Math 32 or 44)
IV MWFS, JacH 74, Moscowitz

103A Physical Chemistry (4 cr; prereq 101A)
IV MWFS, C 225, Lumry

105A Laboratory (1-3 cr; prereq 101 or 102 or 101A or 108)
Lect V M, C 225, Bolton
—1, Lab VI-VIII MW, C 190, Bolton
—2, Lab VI-VIII TTh, C 190, Livingston
—3, Lab II-IV TTh, C 190, Livingston

105B Laboratory (1-3 cr; prereq 101 or 102 or 101A or 102A or 108)
Lect V M, C 225, Bolton
—1, Lab VI-VIII MW, C 190, Bolton
—2, Lab VI-VIII TTh, C 190, Livingston
—3, Lab II-IV TTh, C 190, Livingston

106A Laboratory (1-3 cr; prereq 105A)
Lect V M, C 225, Bolton
—1, Lab VI-VIII MW, C 190, Bolton
—2, Lab VI-VIII TTh, C 190, Livingston
—3, Lab II-IV TTh, C 190, Livingston

106B Laboratory (1-3 cr; prereq 105A)
Lect V M, C 225, Bolton
—1, Lab VI-VIII MW, C 190, Bolton
—2, Lab VI-VIII TTh, C 190, Livingston
—3, Lab II-IV TTh, C 190, Livingston

108 Elem Physical Chemistry (3 cr; prereq 107)
IV MWF, C 325, Leonhardt

112 Atomic, Molecular Structure (3 cr; prereq 103 or 103H or 103A)
III TThS, C 111, Wertz

115 Physical Chemistry (4 cr; prereq 103 or 103H or 104A)
IV MWFS, C 115, Overend

128 Colloid, Surface Chemistry (3 cr; prereq 103 or 103H or 103A)
II TThS, C 115, Lumry

205 Quantum Mechanics (4 cr; prereq 204)
III TThS, C 115, Mead

215 Physical Chemistry of Proteins (3 cr, §MdBc 217; prereq 103 or 103A)
VIII MWF, C 225, Wetlaufer

251 Seminar: Physical Chemistry (1 cr)
5:15 **pm** M, C 225

253 Seminar: Molecular Spectroscopy (ar cr)
II TTh, JohH 113, Overend

263 General Survey (1 cr)

265 Seminar: Magnetochemistry (ar cr)
VI Th, VH 125, Bolton, Wertz

302 Research (ar cr)

CIVIL ENGINEERING

Civil Engineering (CE)

51 Highways, Pavements (3 cr; prereq 53, 61)
—1, Lect V MTh, Ex 193
—2, Lect V TTh, Ex 193
—1, Lab VII-IX M, Ex 177
—2, Lab VII-IX T, Ex 177
—3, Lab VII-IX W, Ex 177
—4, Lab VII-IX Th, Ex 177
—5, Lab VII-IX F, Ex 177
—6, Lab I-III S, Ex 177

62 Mapping (2 cr; prereq 2nd yr or ‡)
Lect I TTh, Ex 193
—1, Lab II-III M, Ex 265
—2, Lab II-III W, Ex 265
—3, Lab V-VI W, Ex 265
—4, Lab II-III F, Ex 265
—5, Lab V-VI F, Ex 265

63 Land Survey Systems (2 cr; prereq 2nd yr or ‡)
III TTh, Ex 193

79 Elem Structural Design: Steel, Timber (3 cr; prereq 78)
III MWF, Arch 55

82 Interm Structural Analysis (4 cr; prereq 81)
Lect IV MTWF, Ex 193
Lab IV Th, Ex 193

101 Contracts, Specifications (3 cr; prereq 4th yr or grad or ♯)
III MWF, ChE 50

102 Building, Construction Contracts (3 cr; prereq 101)
IV MWF, Ex 265

113 Land Planning, Subdivision Design (3 cr; prereq 63 or ♯)
III MWF, Ex 25

125 Computer Applications (3 cr; prereq 64, 83, 160A or ♯)
IV TTh, Ex 25, lab ar

137 Structural Lab (3 cr; prereq 83)
Lect III TTh, Ex 20
—1, Lab VI-VIII T, Ex 20
—2, Lab VII-IX W, Ex 20
—3, Lab VI-VIII Th, Ex 20

142A Adv Structural Design (3 cr; prereq 141A)
Lect VI MWF, Ex 193
—1, Lab VIII-IX M, Ex 193
—2, Lab VIII-IX T, Ex 193
—3, Lab VIII-IX Th, Ex 193

145 Structural Design by Ultimate Load Theory (3 cr; prereq 141A)
II MWF, Ex 193

154 Design of Highway, Airport Pavements (3 cr; prereq 53)
I MWF, Ex 265

159 Bearing Capacity (3 cr; prereq 53)
IV MWF, Ex 25

160A Applied Hydraulics (4 cr; prereq Hydr 101 or 103 or 104)
Lect I MWF, Ex 25
—1, Lab VII-IX T, Ex 25
—2, Lab VII-IX Th, Ex 25

161 Hydrology (3 cr; prereq Hydr 101 or 103)
Lect II TTh, Ex 193
—1, Lab VII-IX M, Ex 25
—2, Lab VII-IX W, Ex 25

170 Water Supply (3 cr; prereq 160A or ♯)
Lect I MWF, Ex 193
—1, Lab VII-IX M, Ex 265
—2, Lab VII-IX Th, Ex 265

174 Sanitary Engineering Probs: Waste Water (3 cr; prereq 171 or grad)
II MWF, Ex 250

177 Seminar: Sanitary Engineering (1 cr; prereq 171 or grad)
III T, Ex 250

194 Adv Probs (1-3 cr; prereq ♯ faculty sponsor)
III MWF, Ex 250, Maier

195 Adv Probs (1-3 cr; prereq ♯ faculty sponsor)
Lect 3:15-5:00 T, MinMet 120
Lab 3:15-5:00 Th, MinMet 120

227 Approximate Methods of Structural Analysis II (3 cr; prereq 126)
III MWF, Ex 193

235 Adv Theory of Structures (3 cr; prereq 234)
V MWF, Ex 25

244 Structural Dynamics II (3 cr; prereq 139 or ♯)
9:45-11:00 TTh, Ex 25

246 Foundation, Harbor Engr (3 cr)
8:15-9:30 TTh, Ex 25

251 Adv Soil Mechanics Lab (3 cr; prereq 159 or ¶)
VI-IX MF, Ex 180

252 Adv Soil Mechanics Lab (3 cr; prereq 251)
VI-IX MF, Ex 180

261 Water Plant Design (3-5 cr; prereq 173)
III-IV MWF, Ex 250

277 Adv Sanitary Engineering: Waste Water, Industrial (3-5 cr; prereq 174)

280 Research (3-5 cr; prereq ♯)

281 Research (3-5 cr; prereq 280)

282 Research (3-5 cr; prereq 281)

Hydromechanics (Hydr)

101 Fluid Mechanics (3 cr; prereq MM 35, Math 31)
I MWF, ME 110

104 Fluid Mechanics Lab (1 cr; prereq 101 or 103 or ChEn 101 or ¶)
—1, VII-VIII M, Ex 138
—2, II-III T, Ex 138
—3, VII-VIII T, Ex 138
—4, IV-V W, Ex 138
—5, II-III Th, Ex 138
—6, VII-VIII Th, Ex 138

162 Natural, Artificial Waterways (3 cr; prereq 161 or ♯)
12:15-1:30 TTh, Ex 25

168 Hydraulic Pumps, Turbines (3 cr; prereq 101 or ♯)
2:15-3:30 WF, Ex 265

185 Adv Hydraulic Probs (2 cr; prereq 184)

188 Incompressible Potential Flow (3 cr, §Aero 104; prereq 187)
1:45-3:00 TTh, Ex 193

194 Adv Hydraulics Lab (2 cr; prereq 101 or 103, 104)

195 Adv Hydraulics Lab (2 cr; prereq 194)

196 Adv Hydraulics Lab (2 cr; prereq 195)

294 Hydrodynamics of the Boundary Layer (3 cr; prereq 293)
7:50-9:00 TTh, Ex 265

EARTH SCIENCES

Geology and Geophysics (Geo)

1 Physical Geology (5 cr, HS phys, chem rec)
—1, Lect V MWF, AE 211, CCTV, Matsch, Rapp
—2, Lect V MWF, AE 215, CCTV, Matsch, Rapp
—3, Lect V MWF, AE 313, CCTV, Matsch, Rapp
—4, Lect V MWF, AE 317, CCTV, Matsch, Rapp
—5, Lect V MWF, AE 319, CCTV, Matsch, Rapp
—6, Lect V MWF, AE 321, CCTV, Matsch, Rapp
—7, Lect V MWF, Bu 120, CCTV, Matsch, Rapp
—8, Lect V MWF, Bu 123, CCTV, Matsch, Rapp
—9, Lect VI MWF, CB(W) 130, CCTV, Matsch, Rapp
—10, Lect VI MWF, CB(W) 150, CCTV, Matsch, Rapp
—11, Lect VI MWF, GorC 15 (StP Campus) CCTV, Matsch, Rapp
—1, Rec VII M, P110
—2, Rec V T, P 110
—3, Rec VI T, P 110
—4, Rec VII W, P 110
—5, Rec IV Th, P 110
—6, Rec VI Th, P 110
—7, Rec VII Th, P 110
—1, Lab I-II M, ForH 180
—2, Lab III-IV M, ForH 180
—3, Lab VI-VII M, ForH 180
—4, Lab I-II T, ForH 180
—5, Lab III-IV T, ForH 180
—6, Lab VI-VII T, ForH 180
—7, Lab I-II W, ForH 180
—8, Lab III-IV W, ForH 180
—9, Lab VI-VII W, ForH 180
—10, Lab I-II Th, ForH 180
—11, Lab III-IV Th, ForH 180
—12, Lab V-VI Th, ForH 180
—13, Lab VII-VIII Th, ForH 180
—14, Lab I-II M, ForH 185
—15, Lab VI-VII M, ForH 185
—16, Lab I-II T, ForH 185
—17, Lab III-IV T, ForH 185

2 Historical Geology (4 cr; prereq 1 or 11)
—1, Lect V MWF, AE 327, CCTV, Sloan
—2, Lect V MWF, Arch 15, CCTV, Sloan
—3, Lect V MWF, Arch 45, CCTV, Sloan
—4, Lect V MWF, Arch 60, CCTV, Sloan
—5, Lect V MWF, ForH 115, CCTV, Sloan
—6, Lect V MWF, CB(W) 150, CCTV, Sloan
—7, Lect V MWF, GorC 15 (StP Campus) CCTV, Sloan
—1, Lab III-IV M, ForH 85
—2, Lab VI-VII M, ForH 85
—3, Lab VIII-IX M, ForH 85
—4, Lab I-II T, ForH 85
—5, Lab V-VI T, ForH 85
—6, Lab III-IV W, ForH 85
—7, Lab VI-VII W, ForH 85
—8, Lab VIII-IX W, ForH 85
—9, Lab I-II Th, ForH 85
—10, Lab VI-VII Th, ForH 85

22 Intro Historical Geology (5 cr; prereq 11 or ♯)
Lect V MWF, Arch 135, Swain
—1, Rec VII T, P 110
—2, Rec V Th, P 110
—1, Lab III-IV MW, ForH 185
—2, Lab VIII-IX TTh, ForH 185

99 Senior Research (3 cr; prereq sr geo, ♯)

103 Problems (1-6 cr; prereq ♯)

108 Vertebrate Paleontology II (5 cr; prereq 107 or Zool 53)
Lect III MWF, P 105, Sloan, lab ar

110 Sedimentology, Stratigraphy (4 cr; prereq 62)
Lect II MWF, P 110, Graf, Swain
Lab VI-VII Th, P 105

117 Pleistocene Geology (3 cr; prereq 116)

125 Sedimentary Geochemistry (4 cr; prereq PCh 103A or ♯)
Lect I TThF, P 105, Graf, lab ar

131 Ground-Water Geology (3 cr; prereq 1 or 11, Math 23, 1 qtr phys, chem or ♯)
Papadopulos

141 Mineral Systems II (4 cr; prereq 140)
Lect I MWF, P 110, Grant, Phinney, Rapp
—1, Lab V-VI MW, P 200
—2, Lab V-VI TTh, P 200

141A Mineral Systems IIA (3 cr; prereq 140)
Lect I MW, P 110, Grant, Phinney
—1, Lab V-VI MW, P 200
—2, Lab V-VI TTh, P 200

146 Igneous Petrology (3 cr; prereq 145)
III MWF, P 207C, Grant, Phinney

151 Nuclear Geology (3 cr; prereq 142, 150 or ♯)
Lect III MWF, P 125, Murthy
Rec II-III Th, P 125

155 Mineral Deposits (3 cr; prereq 120, 142 or ♯)
II MWF, P 125, Hall

160 X-ray Mineralogy (3 cr; prereq 140 or ♯)
Lect II TTh, P 110, Weiblen, Zoltai, lab ar

171 Intro to Earthquake Seismology (3 cr; prereq 120 or ♯)
III MWF, P 110

176 Prin of Seismic Exploration (3 cr; prereq 2 or 22, Phys 9 or 14 or 23, Math 23)
III TTh, P 110, Mooney

230 Methods for Analysis of Natural Waters (3 cr; prereq 128, AnCh 46 or 47, ♯)
Shapiro

ELECTRICAL ENGINEERING (EE)

30 Circuit Analysis (3 cr, §61-62; prereq Phys 14 or 23 or ¶, Math 26A or 26B or 31 or ¶)
—1, III MWF, Arch 5
—2, V MWF, Arch 50
—3, VII MWF, MinMet 116

30A Laboratory (1 cr; prereq ¶30, 31)
Lab sec assigned 2nd day of class in EE 121

31 Circuit Analysis (3 cr, §61-62; prereq 30)
—1, II MWF, Arch 50
—2, IV MWF, Arch 55

31A Laboratory (1 cr; prereq 30A)
Lab sec assigned 2nd day of class in EE 118

65 Electronics II (4 cr, §104-105; prereq 64)
Lect 8:15-9:30 TTh, Arch 50
—1, Rec VIII-IX T, ME 106
—2, Rec VIII-IX W, ME 106
—3, Rec VII-VIII Th, Ph 145
Lect IV MWF, Arch 50
—4, Rec VIII-IX M, ME 106
—5, Rec I-II T, ME 208
—6, Rec III-IV T, ME 302
—7, Rec VIII-IX W, Arch 140

74 Electromagnetic Fields (4 cr; prereq Phys 14 or 23, Math 33 or ¶, ♯)
Lect I MWF, Arch 50
—1, Rec VIII-IX M, Arch 140
—2, Rec VIII-IX T, ME 221

75 Electromagnetic Fields (4 cr; prereq 74)
Lect 9:45-11:00 TTh, Arch 35
—1, Rec V-VI Th, ME 106
—2, Rec VII-VIII Th, Ph 143
—3, Rec VIII-IX F, ME 106
Lect III MWF, Arch 50
—4, Rec VIII-IX M, ME 214
—5, Rec I-II Th, ME 208
—6, Rec III-IV Th, ME 302
—7, Rec VIII-IX F, ME 214

85 Jr Electrical Engineering Lab (2 cr; prereq 84)
Lect V T, ME 4
—1, Lab VII-IX M, ME 205
—2, Lab VII-IX M, EE 216
—3, Lab VII-IX T, EE 205
—4, Lab VII-IX T, EE 216
—5, Lab VII-IX W, EE 205
—6, Lab VII-IX W, EE 216
—7, Lab I-III Th, EE 205
—8, Lab VI-VIII Th, EE 205
—9, Lab VI-VIII Th, EE 216
—10, Lab VII-IX F, EE 205

99B Special Investigations (ar cr; prereq 99A)

118 Electronic Circuits (3 cr; prereq 117)
—1, VII MWF, Arch 50
—2, 8:15-9:30 TTh, Arch 35

127A Network Synthesis (4 cr; prereq 108 or ♯)
Lect VII MWF, AE 209, lab ar

128A Communications (4 cr; prereq 108, Stat 90)
Lect II MWF, Arch 135, lab ar

129A Control Systems (4 cr; prereq Math 60A, 108 or ♯)
Lect IV MWF, Arch 40, lab ar

130A Applications of Electromagnetic Theory (4 cr; prereq 76)
Lect III MWF, Arch 135, lab ar

131A Applied Electronics I (4 cr; prereq 117)
Lect I MWF, Arch 55, lab ar

134A Direct Energy Conversion (4 cr; prereq 64, 76, ME 30)
Lect 9:45-11:00 TTh, Arch 140, lab ar

135A Prin of Computer Engineering (4 cr; prereq 108)
Lect 9:45-11:00 TTh, Arch 40, lab ar

138A Electric Power Systems (4 cr; prereq 108, 110)
Lect V MWF, ME 214, lab ar

141A Physical Electronics (4 cr; prereq 64 or 104, Phys 51 or ♯)
Lect V MWF, Arch 140, lab ar

147A Applied Electromechanics (4 cr; prereq 108, 110 or ♯)
Lect 8:15-9:30 TTh, ME 214, lab ar

151 Thermodynamic Methods (3 cr; prereq 150 or ♯)
3:45-5:00 MW, Arch 40

168 Electromagnetic Theory, Applications (3 cr; prereq 167)
Lect IV TTh, AE 225, lab ar

171 Linear Network Theory (3 cr; prereq 170)
12:45-2:00 TTh, AE 209

173B Semiconductor Properties, Devices (3 cr; prereq 173A)
2:15-3:30 MW, ME 102

179 Nonlinear Circuit Analysis (3 cr; prereq 178)
2:15-3:30 TTh, ME 102

186B Communications Theory (3 cr; prereq 186A)
II MWF, ME 106

190B Digital Computer Systems (3 cr; prereq 190A)
9:45-11:00 TTh, ME 106

195 Control Theory (3 cr; prereq 194)
3:45-5:00 MW, Arch 50

200A Solid State Physics (3 cr, §Phys 231A; prereq Phys 181A or ♯)
VI MWF, Ph 145

221 Seminar: Electric Power (ar cr; prereq ♯)

243 Plasma Physics (3 cr; prereq 242)
4:45-6:00 M, 4:15-5:30 TF, E 106

250B Quantum Electronics (3 cr; prereq 250A)
11:00-12:30 TTh, EE 115

251B Properties of Semiconductors (3 cr; prereq 251A)
3:30-4:45 MW, Arch 55

261B Probs: Electromagnetism (3 cr; prereq 261A)

263B Seminar: Control Theory (ar cr; prereq 263A)
3:15-5:15 W, Arch 20

265B Seminar: System Theory (ar cr; prereq 265A)
12:00-2:00 Th, EE 209

268 Statistical Theory of Communication (3 cr; prereq 267)
12:15-1:15 F, EE 209

297B Nonlinear Systems (3 cr; prereq 297A)
IV-V T, IV Th, ME 106

MATHEMATICS (Math)

Z Preparatory Mathematics (no cr)
—1, I MTWThF, E 302
—2, I MTWThF, E 4
—3, II MTWThF, E 302
—4, II MTWThF, E 330
—5, III MTWThF, E 302
—6, III MTWThF, E 229
—7, IV MTWThF, E 302
—8, IV MTWThF, E 330
—9, V MTWThF, E 330
—10, VI MTWThF, E 215
—11, VI MTWThF, E 302
—12, VII MTWThF, E 227
—13, VII MTWThF, E 203
—14, VIII MTWThF, E 215
—15, VIII MTWThF, E 330
—16, IV MTWThF, PP 103 (StP Campus)

T Trigonometry (3 cr; prereq plane geom, HS higher alg, math placement score, ¶10)
—1, I MWF, ForH 160
—2, I MWF, ForH 175
—3, I MWF, CB(W) 240
—4, II MWF, ForH 302
—5, II MWF, ForH 150
—6, III MWF, E 104
—7, III MWF, ForH 160
—8, IV MWF, AE 309
—9, IV MWF, ForH 30
—10, V MWF, VH 205
—11, V MWF, AE 309
—12, V MWF, CB(W) 105
—13, V MWF, AH 9
—14, VI MWF, ME 102
—15, VII MWF, ForH 285
—16, VII MWF, E 315
—17, VIII MWF, E 227
—18, VIII MWF, ForH 30
—19, III MWF, PP 103 (StP Campus)
—20, IV MWF, McNH 48 (StP Campus)

5A Foundations of Arithmetic (3 cr, 0 cr for CLA students; prereq elem educ, 1 yr elem alg, 1 yr HS geom or △)
—1, II MWF, Arch 55
—2, V MWF, Arch 55
—3, VII MWF, Arch 5
—4, IV MWF, ForH 55

5B Foundations of Arithmetic (3 cr, cr towards degree for elem ed students only; prereq 5A)
—1, II MWF, E 104
—2, IV MWF, ForH 170
—3, VI MWF, ForH 170
—4, VII MWF, VH 113

10 College Algebra, Analytic Geometry (5 cr, §10A, 15; prereq HS higher alg, math placement score)
—1, I MTWThF, Arch 5
—2, I MTWThF, SciB 527
—3, IV MTWThF, CB(W) 430
—4, V MTWThF, ForH 55
—5, VI MTWThF, E 330
—6, II MTWThF, McNH 201 (StP Campus)
—7, II MTWThF, GH 202 (StP Campus)
—8, III MTWThF, McNH 201 (StP Campus)
—9, III MTWThF, GH 202 (StP Campus)
—10, IV MTWThF, GH 202 (StP Campus)
—11, IV MTWThF, McNH 201 (StP Campus
—12, V MTWThF, GH 211 (StP Campus)

—13, V MTWThF, McNH 201 (StP Campus)
—14, VI MTWThF, GH 211 (StP Campus)

10A Algebra, Analytic Geometry, Elem Functions (5 cr, §10, 15, 21A; prereq HS higher alg, T or trig, placement score)
—1, I MTWThF, ForH 285
—2, I MTWThF, ChE 40
—3, II MTWThF, ChE 150
—4, III MTWThF, ForH 55
—5, IV MTWThF, ForH 175
—6, V MTWThF, Ph 133
—7, VI MTWThF, C 225
—8, VII MTWThF, E 215
—9, VII MTWThF, E 302
—10, VIII MTWThF, E 302

15 College Algebra (5 cr, §10, 10A, 21A; prereq HS higher alg, T or HS trig, math placement score)
—1, I MTWThF, ForH 170
—2, II MTWThF, ForH 55
—3, II MTWThF, E 4
—4, III MTWThF, ForH 261
—5, IV MTWThF, E 4
—6, V MTWThF, MurH 308
—7, V MTWThF, MurH 420
—8, VII MTWThF, ForH 349
—9, VIII MTWThF, E 217
—10, VIII MTWThF, ForH 40

20 Investment (5 cr; prereq 10 or 15)
IV MTWThF, JacH 178

21A Analysis I: Algebra, Trigonometry, Analytic Geometry (5 cr; prereq 12 or 4 yrs HS math including trig, primarily for IT students)
—1, I MTWThF, ForH 349
—2, II MTWThF, Ph 236A
—3, IV MTWThF, MurH 420
—4, IV MTWThF, ME 214
—5, V MTWThF, E 217
—6, VI MTWThF, E 4
—7, VII MTWThF, ME 106

22A Analysis II: Analytic Geometry, Calculus (5 cr; prereq 21A, primarily for IT students)
Lect I MWF, Arch 35
—1, I MTWThF, VH 205
—2, I TTh, E 229
Lect I MWF, Arch 35
—3, I TTh, ME 110
Lect I MWF, Arch 35
—4, I TTh, Arch 55
Lect I MWF, Arch 35
—5, I TTh, E 215
—6, I MTWThF, E 104
Lect II MWF, Arch 35
—7, II TTh, E 104
Lect II MWF, Arch 35
—8, II TTh, E 106
Lect II MWF, Arch 35
—9, II TTh, E 203
Lect II MWF, Arch 35
—10, II TTh, E 229
Lect III MWF, Arch 35
—11, III TTh, C 315
Lect III MWF, Arch 35
—12, III TTh, ChE 50
Lect III MWF, Arch 35
—13, III TTh, E 217
Lect III MWF, Arch 35
—14, III TTh, MinMet 120
—15, IV MTWThF, E 226
Lect V MWF, Arch 35
—16, V TTh, E 229
Lect V MWF, Arch 35
—17, V TTh, ChE 158
Lect V MWF, Arch 35
—18, V TTh, E 340
Lect V MWF, Arch 35
—19, V TTh, Arch 55
—20, V MTWThF, E 106
—21, VI MTWThF, Arch 35
—22, VI MTWThF, E 203
Lect VII MWF, Arch 35
—23, VII TTh, E 4
Lect VII MWF, Arch 35
—24, VII TTh, E 330
Lect VII MWF, Arch 35
—25, VII TTh, E 226
Lect VII MWF, Arch 35
—26, VII TTh, E 229
—27, VIII MTWThF, AE 21
—28, VIII MTWThF, ForH 50
—29, VIII MTWThF, ForH 70

22H Honors Course: Calculus II—Calculus, Analytic Geometry (5 cr; prereq 21H and/or ♯)
III MTWThF, E 4

23 Calculus III: Calculus, Analytic Geometry (5 cr; prereq 22)
—1, I MTWThF, E 315
—2, V MTWThF, E 227
—3, V MTWThF, E 104
—4, VII MTWThF, E 104

30 Fortran Survey, Orientation (1 cr; prereq 15 or 21)
IX Th, Ph 133

31 Calculus IV : Calculus, Analytic Geometry (5 cr; prereq 23)
—1, I MTWThF, E 217
—2, I MTWThF, E 320
—3, II MTWThF, E 226
—4, III MTWThF, E 106
—5, IV MTWThF, Arch 35
—6, V MTWThF, E 215
—7, V MTWThF, MinMet 120

—8, VI MTWThF, E 320
—9, VII MTWThF, ChE 162
—10, VIII MTWThF, E 229

32 Calculus V: Calculus, Linear Algebra, Differential Equations (5 cr; prereq 31)
Lect I MWF, Arch 25
—1, I TTh, E 227
Lect I MWF, Arch 25
—2, I TTh, E 203
Lect I MWF, Arch 25
—3, I TTh, MinMet 120
Lect I MWF, Arch 25
—4, I TTh, E 340
—5, II MTWThF, E 227
Lect III MWF, AE 209
—6, III TTh, E 104
Lect III MWF, AE 209
—7, III TTh, E 203
Lect III MWF, AE 209
—8, III TTh, E 320
Lect III MWF, AE 209
—9, III TTh, E 303
Lect V MWF, ForH 155
—10, V TTh, E 303
Lect V MWF, ForH 155
—11, V TTh, ForH 285
Lect V MWF, ForH 155
—12, V TTh, ME 110
Lect V MWF, ForH 155
—13, V TTh, AE 313
Lect VII MWF, Arch 25
—14, VII TTh, E 340
Lect VII MWF, Arch 25
—15, VII TTh, E 320
Lect VII MWF, Arch 25
—16, VII TTh, AE 209
Lect VII MWF, Arch 25
—17, VII TTh, E 303
—18, VII MTWThF, SciB 527

32H Honors Course: Calculus V (5 cr; prereq 31H)
IV MTWThF, E 217

33 Calculus VI: Vector Calculus, Differential Equations (5 cr; prereq 32)
—1, I MTWThF, E 226
—2, III MTWThF, E 226
—3, VI MTWThF, E 106

40 Calculus (5 cr, §42; prereq 15 or 10, T or HS trig)
—1, II MTWThF, E 217
—2, III MTWThF, ForH 150
—3, V MTWThF, E 4
—4, VI MTWThF, AE 215

40A Intro to Calculus of One, Several Variables (5 cr, §40 or 42; prereq 10A)
—1, I MTWThF, ChE 162
—2, I MTWThF, ME 18
—3, II MTWThF, ME 4
—4, III MTWThF, ME 18
—5, IV MTWThF, E 104
—6, IV MTWThF, E 106
—7, V MTWThF, E 226
—8, V MTWThF, C 100
—9, VI MTWThF, E 104
—10, VII MTWThF, C 325
—11, VIII MTWThF, E 104

42 Analytic Geometry, Calculus I (5 cr, §40; prereq 10A, 15 or 10, T or HS trig)
—1, I MTWThF, C 225
—2, I MTWThF, Ph 143
—3, II MTWThF, ME 18
—4, III MTWThF, E 215
—5, III MTWThF, ChE 40
—6, IV MTWThF, ME 18
—7, V MTWThF, ME 18
—8, VII MTWThF, ChE 240
—9, VII MTWThF, ME 18
—10, VII MTWThF, ChE 40
—11, VIII MTWThF, ChE 40
—12, VIII MTWThF, ChE 54
—13, III MTWThF, GH 211 (StP Campus)

42H Honors Course: Analytic Geometry, Calculus I (2 cr; prereq 15H, 42 or 15H, ¶42)
II TTh, E 215

43 Analytic Geometry, Calculus II (5 cr; prereq 42 or 40 with grade A or B)
—1, I MTWThF, E 330
—2, I MTWThF, E 303
—3, V MTWThF, ForH 175
—4, III MTWThF, ChE 54
—5, VI MTWThF, E 226
—6, VI MTWThF, E 229
—7, VIII MTWThF, E 4
—8, V MTWThF, E 302

44 Analytic Geometry, Calculus III (5 cr; prereq 43)
—1, I MTWThF, E 106
—2, III MTWThF, E 330
—3, III MTWThF, E 227
—4, IV MTWThF, E 303
—5, V MTWThF, E 320
—6, VII MTWThF, ChE 54

55 Interm Calculus (3 cr; prereq 44)
—1, I MWF, ChE 54
—2, III MWF, ForH 170
—3, VI MWF, E 303
—4, VII MWF, ForH 60
—5, VII MWF, ForH 150

60 Synthetic Metric Geometry (3 cr; prereq 42)
II MWF, E 106

60A Operational Methods for Linear Systems (3 cr; prereq 32)
—1, I MWF, E 227
—2, VI MWF, ForH 40

63 Linear Algebra (3 cr, §149; prereq 43)
—1, V MWF, ForH 170
—2, VI MWF, ForH 70
—3, VII MWF, ChE 154

65 Programming Modern Digital Computers (4 cr, §165A or 166; prereq 32 or ¶ or ♯)
—1, VI MWF, E 227
—2, VII MWF, AE 225

66A The Groups of Plane Geometry (3 cr, §60, 80C; prereq 45 or 23A)
III MWF, ME 302, Guggenheimer

80B Foundations of Algebra (3 cr; prereq 44)
VII MWF, Ph 131

106 Differential Equations (3 cr, §26A or 27 or 32; prereq 55)
V MWF, ForH 50

107 Adv Calculus (3 cr; prereq 32 or 55)
—1, II MWF, ForH 349
—2, V MWF, E 229
—3, VII MWF, ChE 150

108 Adv Calculus (3 cr; prereq 107)
—1, II MWF, E 215
—2, V MWF, SciB 527

112B Mathematical Logic (3 cr; prereq 112A)
IV MWF, ForH 40, Rosenstein

117B Geometry (3 cr; prereq 32 or 44)
VI MWF, ME 208

125A Critical Reasoning in Mathematical Analysis (3 cr; prereq 25A or 26B or 32 or 44)
III MWF, ForH 130, Locker

130B Intro to Analysis (3 cr; prereq 130A)
—1, II MWF, ME 208, Thompson
—2, III MWF, E 217, Brooks
—3, VII MWF, ForH 130, Joichi
—4, II MWF, E 340

131A Linear Algebra, Group Theory (3 cr, §142, 143, 149, 180; prereq 31 or 44)
VII MWF, Ph 236A

131B Linear Algebra, Group Theory (3 cr, §142, 143, 149, 180; prereq 131A)
—1, IV MWF, ForH 160, Pruitt
—2, VI MWF, Ph 236A, Fuhrken
—3, VI MWF, Arch 20, Gil de Lamadrid
—4, VII MWF, E 330, Gaal

133B Probability with Technological Applications (3 cr; prereq Stat 131, ♯)
VI MWF, ForH 349, Kallianpur

143 Linear Algebra (3 cr, §131A-B-C, 149; prereq 142)
IV MWF, ForH 349

145 Fourier Series, Orthogonal Functions (3 cr; prereq 144)
VII MWF, Ph 145, Riviere

147 Vector Analysis (3 cr; prereq 32 or 55)
—1, I MWF, E 203
—2, V MWF, ChE 54

148 Differential Equations (3 cr, §150; prereq 32 or 106)
—1, I MWF, ForH 150
—2, II MWF, E 203
—3, II MWF, ForH 40
—4, III MWF, E 340
—5, IV MWF, E 203
—6, VII MWF, Ph 143
—7, VII MWF, E 217

149 Determinants, Matrices (3 cr, §63 or 131A; prereq 32 or 55)
V MWF, VH 207

150 Ordinary Differential Equations (3 cr, §148; prereq 32 or 106)
IV MWF, ChE 154

151 Adv Calculus I (3 cr; prereq 32 or 55)
—1, I MWF, ME 102
—2, III MWF, C 111
—3, IV MWF, ChE 40
—4, V MWF, MinMet 116

158 Methods of Applied Mathematics (3 cr; prereq 157)
—1, III MWF, ChE 162, Striebel
—2, VII MWF, ME 214, Indritz

165 Theory, Programming of Modern Digital Computers (3 cr, §65 or §165A; prereq 164)
VI MWF, ME 4, Stein

168A Theory of Complex Variables (3 cr; prereq 108 or 147, 148, 149 or 151, 153 or ♯)
—1, IV MWF, E 215
—2, IV MWF, E 315
—3, VH MWF, E 4

174 Elem Partial Differential Equations (3 cr, §167, 168A; prereq 173)
—1, II MWF, E 315, Sibuya
—2, II MWF, E 303
—3, III MWF, E 315, Green
—4, VII MWF, ForH 160, Meyers
—5, VIII MWF, ForH 349, Kahane

178B Probability (3 cr; prereq 178A)
III-IV TTh, ChE 150, McCarthy

185 Numerical Analysis in Engineering (3 cr; prereq 184 or ♯)
III MWF, C 325, Munro

190B Gen, Algebraic Topology (3 cr; prereq 190A)
—1, I MWF, E 229, Aeppli
—2, I MWF, E 215, Reich

199B Prob Course (3 cr; prereq ♯)
VIII MWF, E 226, Konhauser

202B Adv Logic (3 cr; prereq 202A)
VII MWF, E 226, Pour-El

203B Topics: Logic (3 cr; prereq 203A)
V MWF, ForH 261, Engeler

204A Formal Languages, Automata (3 cr; prereq 112A, ¶112B-C)
VI MWF, ForH 30, Engeler

205B Gen Algebra (3 cr; prereq 205A)
—1, VI MWF, E 340
—2, VII MWF, E 229

209B Group Theory (3 cr; prereq 209A)
I MWF, E 340, Keller

221B Complex Analysis (3 cr; prereq 221A)
—1, II MWF, ChE 54, Sine
—2, III MWF, E 320, Kelingos
—3, IV MWF, ChE 54, Miracle

222B Real Analysis (3 cr; prereq 222A)
—1, II MWF, ChE 40, Argabright
—2, II MWF, ChE 158, Cameron
—3, VI MWF, E 315, Gaal

223 Theory of Differentiation (3 cr; prereq 222C)
III MWF, E 203, Serrin

228B Topics: Theory of Analytic Functions (3 cr; prereq 228A)
IV MWF, ForH 150, Storvick

229B Theory of Quasiconformal Mapping (3 cr; prereq 229A)
III MWF, E 303, Reich

230B Topics: Several Complex Variables (3 cr; prereq 230A)
VII MWF, E 303, Aeppli

234B Ergodic Theory (3 cr; prereq 234A)
VII MWF, E 320, Chacon

235B Functional Analysis (3 cr; prereq 235A)
IV MWF, ChE 150, Rejto

236B Linear Spaces, Operator Theory (3 cr; prereq 236A)
VIII MWF, E 315, Kalisch

238B Banach Algebras, Harmonic Analysis (3 cr; prereq 238A)
II MWF, E 320, Richards

246B Topics: Point Set Topology (3 cr; prereq 246A)
V MWF, ForH 160, Slye

248B Homotopy Theory (3 cr; prereq 248A)
VIII MWF, E 203, Puppe

250B Riemannian Geometry (3 cr; prereq 250A)
VI MWF, ChE 54, Pohl

252B Lie Groups, Algebras (3 cr; prereq 252A)
VII-VIII MW, E 106, Guggenheimer

260B Theory of Probability (3 cr; prereq 260A)
VI MWF, ChE 40, Fristedt

261B Stochastic Processes (3 cr; prereq 261A)
VIII MWF, E 320, Jamison

266B Theory of Ordinary Differential Equations (3 cr; prereq 266A)
IV MWF, E 320, Harris

268B Topics: Differential, Difference, Equations (3 cr; prereq 268A)
V MWF, E 315, Okubo

271B Partial Differential, Integral Equations of Applied Mathematics (3 cr; prereq 271A)
II MWF, E 229, Cannon

272B Theory of Partial Differential Equations (3 cr; prereq 272A)
VII MWF, E 340, Littman

282 Adv Numerical Analysis of Linear Systems (3 cr; prereq 131B, 186 or ♯)
VIII MWF, ChE 162, Leavitt

284B System Programming (3 cr; prereq 284A)
VIII MWF, E 340, Frankowski

286B Adv Methods of Applied Mathematics (3 cr; prereq 286A)
II-III TTh, E 340, Loud

296B Probs: Theoretical Physics (3 cr; prereq 296A)
V MWF, E 340, Miller

299B Reading, Research (1-3 cr; prereq 299A)

MECHANICAL ENGINEERING

Engineering Graphics (EG)

1 Slide Rule (1 cr, 0 cr for IT students; prereq higher alg, trig or ♯)
—1, 7:15-8:00 W, Arch 10
—2, IV T, ME 221

25 Engineering Graphics (4 cr; prereq ¶Math 21 or ♯)
—1, III MTWTh, Arch 10
Lab open hrs, ME 308
—2, III MTWF, Arch 10
Lab open hrs, ME 308
—3, V MTWTh, Arch 10
Lab open hrs, ME 308
—4, V MTWF, Arch 10
Lab open hrs, ME 308
—5, VII MTWTh, Arch 10
Lab open hrs, ME 308
—6, VII MTWF, Arch 10
Lab open hrs, ME 308

25A Engineering Graphics (2 cr, †25A-B, §25; prereq ¶Math 21 or ♯)
Lect IV TTh, Arch 10
Lab open hrs, ME 308

26 Graphical Computation (2 cr; prereq Math 22)
Lect VI TTh, Arch 10
Lab open hrs, ME 308

27 Graphical Communication, Analysis (2 cr; prereq 25)
Lect II TTh, Arch 10
Lab open hrs, ME 308

101 Illustration for Design (3 cr; prereq 27 or ‡)
VI TTh, ME 308

130 Nomography (3 cr; prereq 26, Math 22 or ‡)

Industrial Engineering (IE)

100 Industrial Engineering Analysis (3 cr; prereq ME 99 or ‡)
—1, I MWF, Arch 145
—2, III MWF, ME 106

110 Intro to Work Analysis (4 cr; prereq 100, ME 99)
Lect III MWF, ME 321
Lab VII-IX T, ME 180

130 Intro to Operations Research (4 cr; prereq ME 99)
II TWThF, ME 102

133A Mathematical Methods in Operations Analysis (3 cr; prereq ME 99 or Stat 90 or 131 or ‡)
II MWF, ME 302

170 Production Planning, Control (3 cr; prereq 100)
I MWF, ME 208

172 Manufacturing Cost Analysis (3 cr; prereq 100)
IV MWF, ME 208

173 Engineering Economic Analysis (3 cr; prereq 100)
V MWF, ME 302

177 Industrial Sampling Techniques (3 cr; prereq 171)
III MWF, AE 317

180 Mgt for Engineers (3 cr; prereq 100)
V MWF, ME 106

195 Applied Industrial Engineering (3 cr; prereq 15 cr)

196 Applied Industrial Engineering (3 cr; prereq 195)

198 Design, Analysis of Experiments I (3 cr; prereq ME 99 or ‡)
8:15-9:30 TTh, ME 106

252 Adv Industrial Engineering (3 cr; prereq ‡)
3:45-5:00 TTh, ME 321

262 Production Engineering (3-5 cr; prereq ‡)

272 Research (3-5 cr; prereq ‡)

Mechanical Engineering (ME)

21A Analysis of Mechanical Engineering Systems (4 cr; prereq MM 36)
Lect I MWF, ME 106
—1, Lab VII-VIII M, ME 208
—2, Lab VII-VIII T, ME 208

22A Analysis, Synthesis of Mechanism Systems (4 cr; prereq 21A)
Lect V MWF, ME 110
—1, Lab V-VI T, ME 208
—2, Lab V-VI Th, ME 208
—3, Lab VII-VIII M, ME 321
—4, Lab VII-VIII Th, ME 208

24 Optimum Design of Mechanical Elements (3 cr; prereq MM 37)
Lect V TTh, ME 214
Lab VII-IX Th, ME 214

30A Thermodynamics (4 cr; prereq Phys 23, Math 32)
I MWThF, Arch 135

31A Thermodynamics (4 cr; prereq 30A)
—1, II MWThF, Arch 145
—2, III MWThF, Arch 145
—3, VI MWThF, Arch 145

33 Measurements Lab I (2 cr; prereq ¶30A)
Lect III T, ME 208
Lab VII-IX F, ME 352

34 Measurements Lab II (2 cr; prereq 33)
Lect IV T, ME 110
—1, Lab VII-IX M, ME 370
—2, Lab VII-IX T, ME 370
—3, Lab VII-IX W, ME 370
—4, Lab VII-IX Th, ME 370
—5, Lab VII-IX F, ME 370
—6, Lab VII-IX W, ME 370
—7, Lab VII-IX F, ME 370

35 Measurements Lab III (2 cr; prereq 34)
Lect IV Th, ME 110
—1, Lab VII-IX T, ME 370
—2, Lab VII-IX M, ME 370

90 Industrial Assignment (2 cr, †90-91-92-93; prereq regis co-op work-study prog)

91 Industrial Assignment (2 cr, †90-91-92-93; prereq 90)

92 Industrial Assignment (2 cr, †90-91-92-93; prereq 91)

93 Industrial Assignment (2 cr, †90-91-92-93; prereq 92)

99 Intro to Engineering Analysis (3 cr; prereq Math 23 or ‡)
VII MWF, ME 110

110 Control of Metal Working Processes (3 cr; prereq 170)
Lect V TTh, ME 50, lab ar

124 Experimental Stress Analysis (3 cr; prereq MM 37)
Lect III TTh, ME 351
Lab VII-IX T, ME 351

125 Machine Design Lab (2 cr; prereq 24)
—1, Lect VI M, ME 321
Lab VII-IX M, ME 357
—2, Lect VI F, ME 321
Lab VII-IX F, ME 357

133 Heat Transmission (3 cr; prereq 30A, Hydr 101, Aero 100A or ♯)
—1, I MWF, ME 214
—2, V MWF, Arch 30

134 Thermodynamics of Fluid Flow (3 cr; prereq 31A, Hydr 101)
IV MWF, ME 106

141 Thermodynamics of Modern Power Devices (3 cr; prereq 140)
I MWF, ME 351

143 Turbomachinery (3 cr; prereq 31A)
I MWF, ME 321

146A Intro to Combustion, Propulsion (4 cr; prereq 133 or ¶)
II TWThF, ME 321

148 Chemistry of Combustion (3 cr; prereq 146A or ¶ or ♯)
V MWF, ME 321

150 Internal Combustion Engines (3 cr; prereq 31A or ¶)
IV MWF, ME 321

152 Gas Turbines, Compound Engines (3 cr; prereq 31A)
III MWF, ME 102

159 Power, Propulsion Lab (2 cr; prereq 31A, 34)
—1, VI-IX M, ME 480
—2, VI-IX F, ME 480

160A Thermal Environmental Engineering (4 cr; prereq 133)
III MTWF, ME 214

164 Refrigeration, Cryogenics (3 cr; prereq 133)
II MWF, ME 214

166 Industrial Ventilation, Exhaust System (3 cr; prereq 160A)
III MWF, ME 208

169 Psychrometrics, Air Conditioning Lab (2 cr; prereq 34, 160A)
—1, VI-IX M, ME 362
—2, VI-IX F, ME 362

170 Manufacturing Processes (4 cr; prereq MetE 56)
Lect V MWF, ME 102
—1, Lab VII-IX T
—2, Lab VII-IX Th

184 Prin of Particle Technology (3 cr; prereq 183)
I-II TTh, ME 221

191 Design (2 cr; prereq 4th yr engr status or ♯)
Lect VI W, ME 321
Lab VII-IX W, ME 321

192 Design (2 cr; prereq 4th yr engr status or ♯)
Lect VIII W, ME 4
—1, Lab VI-IX W, ME 321
—2, Lab VI-IX W, ME 308
—3, Lab VI-IX W, ME 314
—4, Lab VI-IX W, ME 325

194 Adv Engr Prob (2-4 cr; prereq 4th yr ME maj, 2.5 GPA, △)

197 System Analysis, Control (3 cr; prereq 21A)
I MWF, ME 221

198 Industrial Instrumentation, Automatic Control (3 cr; prereq EE 31)
Lect VI TTh, ME 321
Lab VII-IX T, ME 359

225 Adv Applied Dynamics (3 cr; prereq 224)

229 Adv Vibration Engineering (3 cr; prereq 129)

231 Statistical, Non-equilibrium Thermodynamics (3 cr; prereq 230)
I MWF, ME 302

234 Convection (3 cr; prereq 233)
II MWF, Arch 140

236 Adv Theory of Heat Transfer (3 cr; prereq 133)
V MWF, ME 221

242 Adv Power Plants (3 cr; prereq 142)

247 Mass Transfer in Chemically Reacting Gases (3 cr; prereq 146A)
III MWF, AE 215

253 Adv Gas Turbines, Jet Propulsion (3 cr; prereq 152)
V-VI TTh, ME 102

266 Adv Psychrometric Processing (3 cr; prereq 265)
IV MWF, ME 302

271 Magnetohydrodynamics (3 cr; prereq 270)

280 Theoretical Refrigeration (3 cr; prereq 164)

290 Research (ar cr; prereq △)

291 Research (ar cr; prereq 290)

292 Research (ar cr; prereq 291)

297 Feedback Control Systems (3 cr; prereq 296)

MINERAL AND METALLURGICAL ENGINEERING

Metallurgical Engineering (MetE)

56 **Physical Metallurgy** (3 cr; prereq 3rd yr)
IV MWF, MinMet 124, Jerabek

90 **Industrial Employment** (2 cr; prereq ‡)

91 **Industrial Employment** (2 cr; prereq ‡)

92 **Industrial Employment** (2 cr; prereq ‡)

102 **Science of Materials** (3 cr; prereq 101)
I MWF, MinMet 120, Toth

102A **Science of Materials Lab** (1 cr; prereq ¶102)
Lect VI T, MinMet 104, Nicholson
—1, Lab VII-IX T, MinMet 410
—2, Lab VII-IX Th, MinMet 410

107 **Process Metallurgy** (3-4 cr; prereq 106)
II MWF, MinMet 124, Bitsianes

107A **Process Metallurgy Lab** (1 cr; prereq 106 or ‡)
VI-IX W, MinMet B25

111 **Mineral Dressing** (3 cr; prereq 110)
I TTh, MinMet 124, Cooke

113 **Metallurgical Plant Engineering** (3 cr; prereq 110, ¶111)
V MWF, MinMet 104

122 **Hydrometallurgy** (3 cr; prereq 112)
III MWF, MinMet 120, Cooke

127 **Electric, Magnetic Separation of Minerals** (2 cr; prereq 112) Lawver

129 **Techniques of Mineral Processing Research II** (3 cr; prereq PCh 101 or ¶, Phys 50 or ‡) Cooke

135 **Unit Processes** (3 cr; prereq 11)
IV MWF, MinMet 120, Bitsianes

142 **Special Probs** (ar cr; prereq 141) Bitsianes

154 **Physical Metallurgy** (3 cr; prereq 153 or ‡)
I MWF, MinMet 124, Nicholson

154A **Physical Metallurgy Lab** (1 cr; prereq ¶154)
Lect VI Th, MinMet 124, Jerabek
—1, Lab VII-IX T, MinMet 410
—2, Lab VII-IX Th, MinMet 410

168 **Metal Fabrication** (3 cr; prereq 155)
Lect IV TTh, MinMet 124, Nicholson
Lab VII-IX W, MinMet 410

174 **Modern Theory of Metals, Alloys** (3 cr; prereq 173 or ‡)
9:45-11:00 TTh, MinMet 124, Sivertsen

181 **Thermodynamics, Kinetics of Solid State** (3 cr; prereq 180)
2:30-3:45 MF, MinMet 120, Gupta

202 Research (ar cr)

211 Seminar (ar cr)
IV T, MinMet 120

263 Adv X-ray Diffraction of Metals (3 cr; prereq 155 or ‡) Sivertsen

Mineral Engineering (MinE)

13 **Mine Surveying** (3 cr; prereq CE 61 or ‡)
II MWF, MinMet 104, Yardley

90 **Industrial Employment** (1-3 cr; prereq ‡)

91 **Industrial Employment** (1-3 cr; prereq ‡)

92 **Industrial Employment** (1-3 cr; prereq ‡)

112 **Development, Exploitation** (3 cr; prereq 111)
III MWF, MinMet 104, Lacabanne, Yardley

127 **Operations Analysis in Mineral Engineering II** (3 cr; prereq 126)
III MWF, MinMet 124, Dorenfeld

131 **Rock Mechanics I** (3 cr; prereq MM 37 or ‡)
9:45-11:00 TTh, MinMet 104, Starfield

141 **Mineral Economcis I** (3 cr; prereq 113 or ‡)
IV MWF, MinMet 104, Pfleider

144 **Mine Systems Analysis** (2 cr; prereq 142 or ‡)
VI-VIII MW, MinMet 223, Pfleider

152 **Special Probs** (ar cr; prereq 112)

156 **Gravity Flow of Fragmented Materials** (2 cr; prereq 3rd yr or ‡)

161 **Geological Engineering Analysis** (1 cr; prereq sr or ‡)
IV T, MinMet 223, Fairhurst, Yardley

172 **Fluid Flow Through Porous Media II** (3 cr; prereq 171 or ‡)
VI MWF, MinMet 124, Lacabanne

202 Seminar (ar cr)
VII F, MinMet 210, Pfleider

251 Adv Rock Mechanics I (3 cr; prereq MM 180)
VI MWF, MinMet 104, Fairhurst

PHYSICS AND ASTRONOMY

Astronomy (Ast)

11 **Descriptive Astronomy** (5 cr, §51)
—1, V MTWTh, Ph 166, 1 hr ar, Kaufmanis
—2, VII MTWTh, Ph 166, 1 hr ar, Kaufmanis

51 Astronomy (3 cr, §11; prereq Math T or 10)
IV MWF, Ph 166, Luyten

Physics (Phys)

1 **Physical Science** (3 cr; prereq HS alg, plane geometry)
II MWF, DI 15 **(StP Campus)**

1A **Physical Science Lab** (1 cr; prereq 1 or ¶)
Lab sec assigned first 2 days of class

2 **Physical Science** (3 cr; prereq 1 or ‡)
—1, III MWF, Ph 166, Roll
—2, V MWF, Ph 150, Wall
—3, I MWF, DI 15 **(StP Campus)** Mantis

2A Physical Science Lab (1 cr; prereq 2 or ¶)
Lab sec assigned first 2 days of class

5 **Gen Physics** (5 cr; prereq 4)
Lab sec assigned first 2 days of class
IV MTWThF, Ph 150, Johnson

8 **Gen Physics** (5 cr; prereq 7, Math 23 or 44 or ¶)
Lab sec assigned first 2 days of class
II MTWThF, Ph 150, Freier

21 **Gen Physics** (4 cr; prereq ¶21A, Math 21 or 22A or 42 or ¶)
—1, I MTWThF, Ph 133, Lilley
—2, III MTWThF, Ph 150, Werntz
—3, IV MTWThF, Ph 133, Ruddick
—4, VI MTWThF, Ph 150, Moldover

21A Laboratory (1 cr; prereq ¶21)
Lab sec assigned first 2 days of class

23 **Gen Physics** (4 cr; prereq 22, ¶23A, Math 23 or 44 or ¶)
I MTWThF, Ph 131, Nier

23A Laboratory (1 cr; prereq ¶23)
Lab sec assigned first 2 days of class

50 **Interm Physics** (4 cr; prereq 6 or 9 or 14 or 23, Math 31 or 55 or ¶)
—1, I MTWThF, Ph 166, Ney
—2, VI MTWThF, Ph 166, Goldman

50A Laboratory (1 cr; prereq ¶50)
Lab sec assigned first 2 days of class

50H Honors Course: Interm Physics (4 cr; prereq 6 or 9 or 14H or 23, Math 31 or 55 or ¶, △)
II MTWThF, Ph 131, Hintz

51 **Interm Physics** (4 cr; prereq 50, Math 32 or 106 or ¶)
II MTWThF, Ph 166, Waddington

51A Laboratory (1 cr; prereq ¶51)
Lab sec assigned first 2 days of class

52H Honors Course: Physics Lab (1 cr; prereq ¶50H)
Lab sec assigned first 2 days of class

61 Interm Physics (3 cr; prereq 60)
II MWF, ForH 346, Beck

101A Analytic Mechanics (3 cr, §100 or MM 138; prereq 100A)
I-II TTh, Ph 210, Poppe

102 Mechanics, Electricity, Magnetism (4 cr; prereq 100 or MM 138)
I MTWF, Ph 145, Weil.

104A Electric, Magnetic Fields (3 cr; prereq 103A)
III MWF, Ph 210, Tang

109 Atomic, Nuclear Physics (3 cr, §50 or 51; prereq 107 or ‡)
VI MWF, Ph 143, Brown

110 Modern Physics (3 cr; prereq 108)
VI MWF, Ph 131, Greenless

121 **Experimental Atomic, Nuclear Physics** (3 cr; prereq 51 or ¶107 or ¶108, ‡)
—1, VI-IX TTh, Ph 250, Pepin
—2, VII-X MF, Ph 250, Dehnhard

124 Statistical Mechanics (3 cr; prereq 123 or ‡)
IV MWF, Ph 210, Weyhmann

133 Physical Optics (3 cr; prereq 3rd yr, 15 cr, Math 23 or 23A or 44)
III-IV TTh, Ph 210, Giese

146 **Vacuum Tubes, Associated Circuits** (4 cr; prereq 144 or ‡)
Lect II MWF, Ph 170, Blair
—1, VII-IX M, Ph 225
—2, I-III T, Ph 225
—3, VI-VIII T, Ph 225
—4, VI-VIII W, Ph 225
—5, VI-VIII Th, Ph 225
—6, VII-IX F, Ph 225
—7, II-IV S, Ph 225

166 Meteorology I (3 cr; prereq 165 or ‡)
III-IV TTh, Ph 143, Mantis

171B Classical Physics (4 cr; prereq 171A, 104 or 102A, 105A, Math 153 or 108)
Lect II MWF, Ph 210, Cheston
Rec II T, Ph 145, Cheston

181B Quantum Mechanics (4 cr; prereq 181A, 110, Math 153 or 108)
III MTWF, Ph 145, Gasiorowicz

205 Transport Theory (3 cr; prereq 181C or ‡)
III-IV TTh, Ph 236A, VanVliet

209A General Relativity (3 cr; prereq 171C or ‡)
II MWF, Ph 143, Kellogg

210B Seminar: Theoretical Physics (ar cr; prereq 210A)
VIII-IX F, Ph 435

212 Relativistic Quantum Mechanics (3 cr; prereq 211 or ‡)
III MWF, Ph 143, Bolsterli

220B Seminar: Nuclear Physics (ar cr; prereq 220A)
VII-VIII W, Ph 210

225 Nuclear Structure (3 cr; prereq 181C or ‡)
IV MWF, Ph 236A, Bayman

230B Seminar: Solid-State, Low-Temperature Physics (ar cr; prereq 230A)
VII-VIII F, Ph 210

231A Solid-State Physics (3 cr, §EE 200A-B; prereq ¶181B-C, 125 or ‡)
VI MWF, Ph 145, Zimmermann

235 Liquid, Solid Helium (3 cr; prereq ‡)
IV MWF, Ph 143, Byckling

240B Seminar: Elem Particle Physics (ar cr; prereq 240A)
VIII-IX T, Ph 145

241B Elem Particle Physics (3 cr; prereq 241A)
VI-VII TTh, Ph 236A, Suura

250B Seminar: Cosmic-Ray, Space Physics (ar cr; prereq 250A)
V Th, Ph 145

251A Cosmic-Ray, Space Physics (3 cr; prereq 112, 171C, 196 or ‡)
III MWF, Ph 236A, Webber

252B Solar, Magnetospheric Physics (3 cr; prereq 252A)
IV MWF, Ph 145, Winckler

260B Seminar: Mass Spectroscopy (ar cr; prereq 260A)
VIII-IX F, Ph 145

270B Seminar: Atmospheric Physics (ar cr; prereq 270A)

301A Research (ar cr)

COLLEGE OF VETERINARY MEDICINE

VETERINARY ANATOMY (VAna)

102 Veterinary Anatomy (8 cr; prereq 101 or ‡)
Lect I ThF, VI T, VetS 257, Anderson, Fletcher
Lab I-III M, II-IV ThF, VII-IX TTh, VetS 141

106 Surgical Anatomy (1 cr; prereq 103, VMC 101, ‡)
VIII-IX M, VetS 257, Arnold, Fletcher

152 Microscopic Anatomy of Domestic Animals (4 cr; prereq 151)
Lect VI WF, VetS 257, Field, Weber
Lab VII-IX WF, VetS 247

190 Seminar (1 cr; prereq 101, 151, ‡) Weber

191 Special Studies (1-5 cr; prereq 151, ‡) Fletcher, Weber

203 Experimental Comparative Neurology (3 cr; prereq 202, ‡) Fletcher

VETERINARY BACTERIOLOGY AND PUBLIC HEALTH (VBac)

103 **Virology** (4 cr; prereq 102, ‡)
Lect II MWF, VetS 229, Lindorfer
Lab III-IV MW, III F, VetS 325, Loken, Marquardt

126 Public Health (3 cr; prereq 125)
VI MWF, VetC 125, Anderson, Diesch, Orthoefer

128 Probs: Bacteriology, Public Health (ar cr; prereq 103, ‡) Anderson, Lindorfer, Loken, Pomeroy

130 Poultry Hygiene (3 cr; prereq Biol 2, Poul 1, MicB 53)
VI MWF, VetS 325, Pomeroy

201 Adv Poultry Diseases (ar cr; prereq 131, ‡) Bergeland, Higbee, Nelson, Pomeroy

205 Adv Bacteriology (ar cr; prereq ‡) Anderson, Lindorfer, Loken, Pomeroy

VETERINARY MEDICINE AND CLINICS (VMC)

103 Large Animal Medicine (4 cr; prereq 102)
I MTWTh, VetA 103, Johnson, Sorensen, Olson

107 Small Animal Medicine (4 cr; prereq 106)
VI MTWTh, VetA 103, Low, Mather, Finco

111 Clinics (5 cr; prereq 110)
II-IV MTWThF, I-III S, VetC 70, 125, Low, others

115 Clinical Conference (1 cr; prereq 114)
IX W, VetC 125, Osborne

123 Clinics (5 cr; prereq 122)
II-IV MTWThF, I-III S, VetC 70, 125, Low, others

127 Clinical Conference (1 cr; prereq 126)
IX W, VetC 125, Osborne

130 Jurisprudence, Business Methods (3 cr; prereq 4th yr VMed)
VI TTh, VIII Th, VetC 125, Romine

132 Preventive Veterinary Medicine (5 cr; prereq 4th yr VMed)
I MTWThF, VetC 125, Johnson, Sorensen

201 Adv Medicine (ar cr; prereq 104, 131, ‡) Low, Mather, Sorensen

202 Adv Diagnosis, Therapeutics of Animal Diseases (ar cr; prereq 104, 131, ‡) Low, Mather, Sorensen

203 Seminar (ar cr; prereq ‡) Low, Mather, Sorensen

204 Medical Conference (ar cr; prereq 104, 131, ‡) Low, Mather, Sorensen

VETERINARY OBSTETRICS (VObs)

102 Animal Reproduction (4 cr; prereq VMC 101, 113, ‡)
VII MTWF, VetC 125, Schultz, Zemjanis

201 Adv Diagnostic Methods (3 cr; prereq 102)
II-IV MTWThFS, VetC 33, Fahning, Schultz

211 Adv Endocrinology of Reproduction (1 cr; prereq MdBc 101, VPP 109) Graham, Zemjanis, others

VETERINARY PATHOLOGY AND PARASITOLOGY (VPaP)

101 Parasitology (5 cr; prereq 151, ‡)
Lect I MWF, VI Th, VetS 229, Griffiths
—1, Lab VII-IX T, VetS 225, Bemrick, Griffiths
—2, Lab VII-IX Th, VetS 225, Griffiths, Schlotthauer

152 Special Pathology (5 cr; prereq 151, ‡)
Lect VI MWF, VetS 229, Johnson, others
Lab VII-IX MW, VetS 225-229, Johnson, others

155 Clinical Pathology (1-3 cr; prereq 154 or △) Perman

156 Diseases of Fur-Bearing Animals (2 cr; prereq 153, VMC 122, ‡)
VII Th, VIII W, VetC 125, Higbee

158 Surgical Pathology (3 cr; prereq 157, △) Bergeland, others

160 Diagnostic Pathology (5 cr; prereq 157, ‡, △) Bergeland, others

202 Seminar (1-2 cr; prereq 153, ‡) Barnes

240 Adv Parasitology (ar cr; prereq 102, ‡) Bemrick, Griffiths

241 Probs: Parasitology (ar cr; prereq 102, ‡) Griffiths

VETERINARY PHYSIOLOGY AND PHARMACOLOGY (VPP)

41 Systemic Mammalian Physiology I (4 cr; prereq Biol 2, GeCh 5, OrCh 42, BioC 3 or ¶)
VI-VII TTh, TEH 207, Dziuk, Jankus, Sullivan

107 Animal Physiology (3 cr; prereq 105)
I TTh, VII F, VetS 229, Dziuk, Good

108 Animal Physiology Lab (2 cr; prereq 106, ¶107)
II-IV TTh, VetS 135, VI T, VetS 229, Dziuk, Good, Jankus, McGinnis

130 Probs: Physiology (ar cr; prereq 109 or Phsl 106-107, ‡) Dziuk, Good

153 Veterinary Pharmacology, Toxicology (3 cr; prereq 152, ‡)
Lect VIII W, VI F, VetA 103, Hammond, Stowe
Lab VII-IX F, VetS 135, Hammond, Stowe

161 Seminar: Pharmacology (ar cr; prereq 152, ‡) Hammond, Stowe

171 Probs: Pharmacology (ar cr; prereq 152, ‡) Hammond, Stowe

VETERINARY SURGERY AND RADIOLOGY (VSR)

102 Special Surgery (5 cr; prereq 101, ‡)
Lect VII MW, I F, VetA 103, Arnold, Gourley, Usenik
Lab VII-IX TTh, VetA 102, 103

210 Adv Radiology (2 cr; prereq 121, ‡) Hanlon, Spurrell

219 Fundamentals of Nuclear Medicine (3 cr; prereq ‡) Spurrell

220 Anesthesia (ar cr; prereq 103, ‡) Arnold, Gourley, Usenik

225 Adv Small Animal Surgery (ar cr; prereq 103, ‡) Gourley

230 Adv Large Animal Surgery (ar cr; prereq 103, ‡) Arnold, Usenik

UNATTACHED UNIVERSITY DEPARTMENTS

AEROSPACE STUDIES (Air)

132 Aerospace Organization, Concepts (3 cr)
—1, I MWF, A 11A, Johnson, Suttie
—2, III MWF, A 11A
—3, V MWF, A 11A

142 Leadership, Human Relations (3 cr)
—1, II MWF, A 11A, Denice, Gill
—2, IV MWF, A 11A
—3, VI MWF, A 11A

144 Flight Instruction Program (3 cr; prereq △)
VII MWF, A 11A, Gill

MILITARY SCIENCE (Mil)

41 Employment of Firepower (1 cr)
—1, II-III T, A 116, Iaconis
—2, VI-VII T, A 116, Iaconis

42 School of the Soldier (0 cr; prereq 41, △)
—1, II Th, A 116, Iaconis
—2, V Th, A 116, Iaconis
—3, VI Th, A 116, Iaconis

45 American Military History (3 cr, §Hist 45)
—1, III MWF, A 116, Beard
—2, IV MWF, A 116, Beard
—3, VII MWF, A 116, Beard

152 Adv Tactics, Training (3 cr; prereq 151, △)
—1, II MWF, A 105, Harrison
—2, VI MWF, A 105, Harrison

155 World Probs in Anthropological Perspective (1 cr; prereq concurrent academic course)
—1, II T, A 116A, Chase
—2, VII T, A 116A, Chase

MORTUARY SCIENCE (Mort)

3 Anatomical Drawing, Modeling (1 cr; prereq 2)
—1, II-III T, JacH 188A, Burger
—2, VI-VII T, JacH 188A, Burger

4 Anatomical Drawing, Modeling (1 cr; prereq 3 or ♯)
—1, II-III Th, JacH 188A, Burger
—2, VI-VII Th, JacH 188A, Burger

8 Orientation (2 cr)
IV TTh, VH 306, Koschig

14 Mortuary Law (3 cr)
8:15-9:30 TTh, VH 6, Carney

57 Embalming (3 cr; prereq 56)
I MWF, Lib 4A, Stroud

59 Public Health, Minnesota Law, Regulations (2 cr; prereq PubH 3, 50 or GC 10B)
VIII TTh, VH 113, Larson

61 Funeral Mgt (3 cr; prereq 60)
VII MWF, Lib 4A, Slater

71 Embalming Chemistry (3 cr; prereq 70)
VI MWF, Owre 113

76 Embalming Lab (2 cr; prereq 56 or ♯)
—1, I-III T, JacH 88, Koschig, Stroud
—2, III-V W, JacH 88, Koschig, Stroud
—3, I-III Th, JacH 88, Koschig, Stroud

77 Clinical Embalming Training (2 cr; prereq 56 or ♯)
V M and ar, MH 213, Stroud

101 Seminar: Dynamics of Grief (2 cr; prereq ♯)
VIII-IX Th, VH 210, Oman

104 Seminar: Funeral Service, Psychiatric Implications (ar cr; prereq △) Lamers

NAVAL SCIENCE (Nav)

12 Sea Power (3 cr)
—1, Lect II MWF, A 205, Totten
—2, Lect IV MWF, A 205, Totten
—1, Lab II T, A 205, Totten
—2, Lab IV T, A 205, Totten
—3, Lab V T, A 205, Totten

22 Naval Weapons (3 cr)
—1, II MTWF, A 202, Royalty
—2, IV MTWF, A 202, Royalty

52 Naval Operations: Intro to Navigation (3 cr)
—1, II MTWF, A 12A, Taylor
—2, IV MTWF, A 12A, Taylor

55 Evolution of Art of War II (3 cr)
—1, II MTWF, A 201, Shubert
—2, IV MTWF, A 201, Shubert

58 Supply Management II (3 cr; prereq 57 or ♯)
V MTWF, A 202, Pierce

62 Naval Engineering: Leadership (3 cr; prereq trig, alg or ♯)
—1, I MTWF, A 12A, Closson
—2, V MTWF, A 12A, Closson

BUILDING ABBREVIATIONS

A, Armory
Aero, Aeronautical Engineering
AgBot(StP), Agricultural Botany
AgEng(StP), Agricultural Engineering
AgLib(StP), Agriculture Library
Agr(StP), Agronomy
AgrSH(StP), Agronomy Seed House
AgrSS(StP), Agronomy Seed Stocks
AH, Appleby Hall, Pharmacy
Arch, Architecture
ArtB(W), Art Building
2020 Washington Ave S

BaH(StP), Bailey Hall
BA(W), Business Administration Building, West Bank
BB(StP), Bull Barn
BCB(StP), Beef Cattle Barn
BeH(StP), Berry House (1304 Cleveland Ave N)
BFH(StP), Botany Field House
Bo, Botany
BoG, Botany Greenhouse
BoHH(StP), Botany Headhouse
BrH(StP), Brewster Hall
Bu, Burton Hall

C, Chemistry
CB(W), Classroom Building, West Bank
CCS, Center for Continuation Study (Changed to NCCE)
CD, Child Development
CenH, Centennial Hall
CH, Cooke Hall
ChE, Chemical Engineering
ChRC, Childrens Rehabilitation Center
ChStor, Chemical Storehouse (2812 SE Fairmount)
CI(StP), Crop Improvement
ClayS(W), Clay School Building, West Bank
CMU, Coffman Memorial Union
CofH(StP), Coffey Hall (Administration)
ComH, Comstock Hall
ComoY, Como Yard (3003 Como Ave SE)
ComT(StP), Commonwealth Terrace, Office 1295 Gibbs Ave
CropS(StP), Crop Service (formerly Plant Sci Field Bldg)
CS(StP), Carpenter Shop
CVL, Cardio-Vascular Lab

DCB(StP), Dairy Cattle Barn
DeH(StP), Dexter Hall
DFA, Delta Field Athletic Bldg
DI(StP), Dairy Industries
DiehlH, Diehl Hall
DinC(StP), Dining Center

E, Main Engineering
EconRes, Economics Research
EdH, Eddy Hall
EE, Electrical Engineering
Ex, Experimental Engineering

FCFH(StP), Farm Crops Field House
FieldHse, University Field House
FolH, Folwell Hall
ForH, Ford Hall
FP(StP), Forest Products
FraH, Fraser Hall (Law)
FronH, Frontier Hall
FStor, Food Stores (Food Storage)

GCH(StP), Golf Clubhouse
GCSS(StP), Golf Course Shops & Storage
GorC(StP), Gortner
GH(StP), Green Hall
Gy(StP), Gymnasium

HB(StP), Horse Barn
HH(StP), Haecker Hall
HL, Hydraulic Laboratory (Hennepin Island)
HolB, Holman Bldg (2035 Univ Ave SE)
Hosp, University Hospitals
HP, Heating Plant
HP(StP), Heating Plant
Hr(StP), Horticulture
HS, Health Service
HS(StP), Health Service

InvSW, Inventory Surplus Warehouse

J, Jones Hall
JacH, Jackson Hall (Anatomy)
JOAd, Jackson-Owre Addition
JohH, Johnston Hall

Lib, Walter Library
LinA, Linear Accelerator
LinL, Linac Laboratory
LSFor(StP), Lake States Forest Experiment Station
LsPav(StP), Livestock Pavilion
LyonL, Lyon Laboratories

MasonH, Masonic Memorial Hospital
Mayo, Mayo Memorial
McNH(StP), McNeal Hall (Home Economics)
ME, Mechanical Engineering
MeH(StP), Meredith Hall
MEx, Mines Experiment Station
MH, Millard Hall
MinMet, Mines and Metallurgy
MMA, Mayo Memorial Auditorium
MNH, Museum of Natural History
MS(StP), Machinery Shop
MSh(StP), Meat Shop
MorH, Morrill Hall (Administration)
MurH, Murphy Hall
MusEd, Music Education

NCCE, Nolte Center for Continuing Education (formerly CCS)
NGW, Norris Gymnasium for Women

Buildings located on the St Paul Campus are followed by StP in parentheses.
Buildings located on the West Bank are followed by W in parentheses.

NH, Nicholson Hall
NMA, Northrop Memorial Auditorium
NorH(StP), North Hall
NorHD(StP), North Hall Dormitory
NWGH(StP), Northwest Greenhouses

Owre, Owre Hall (Medical Sciences)

P, Pillsbury Hall
PB, Poucher Bldg (2007 Univ Ave SE)
PeikG, Peik Hall Gymnasium
PeikH, Peik Hall (University High School)
PetH(StP), Peters Hall
PG(StP), Poultry Group
Ph, Tate Laboratory of Physics
PH(StP), Power House
PiH, Pioneer Hall
PkR, Parking Ramp
PlantS(StP), Plant Sciences (formerly Crops Research)
PM(StP), Post-Mortem
PoH, Powell Hall
PolDB, Police Department Building (2030 Univ Ave SE)
PP(StP), Plant Pathology
PPFL(StP), Plant Pathology Field Laboratory
Psy, Psychology
Pt, Pattee Hall

SaH, Sanford Hall
SB(StP), Swine Barn
SBH, State Board of Health
ScH, Scott Hall (Music)
SciCB, Science Classroom Building (at East Bridgehead)
ShAn, Shops Annex
ShB(StP), Sheep Barn
ShH, Shevlin Hall
SnH(StP), Snyder Hall
SocSci(W), Social Sciences Building, West Bank
So(StP), Soils
SS, Storehouse and Shops
SSN(StP), Seed Storage North
SSS(StP), Seed Storage South
Stad, Stadium
StCen(StP), Student Center

TandAc, Tandem Accelerator Building
TEH(StP), Temporary, East of Haecker
TerH, Territorial Hall
TH(StP), Thatcher Hall
TNCE, Temporary, North Court of Engineering
TNCD, Temporary, North of Child Development
TNM, Temporary, North of Mines
TSC(StP), Temporary, South of Coffey Hall
TSCE, Temporary, South Court of Engineering
TSF, Temporary, South of Folwell

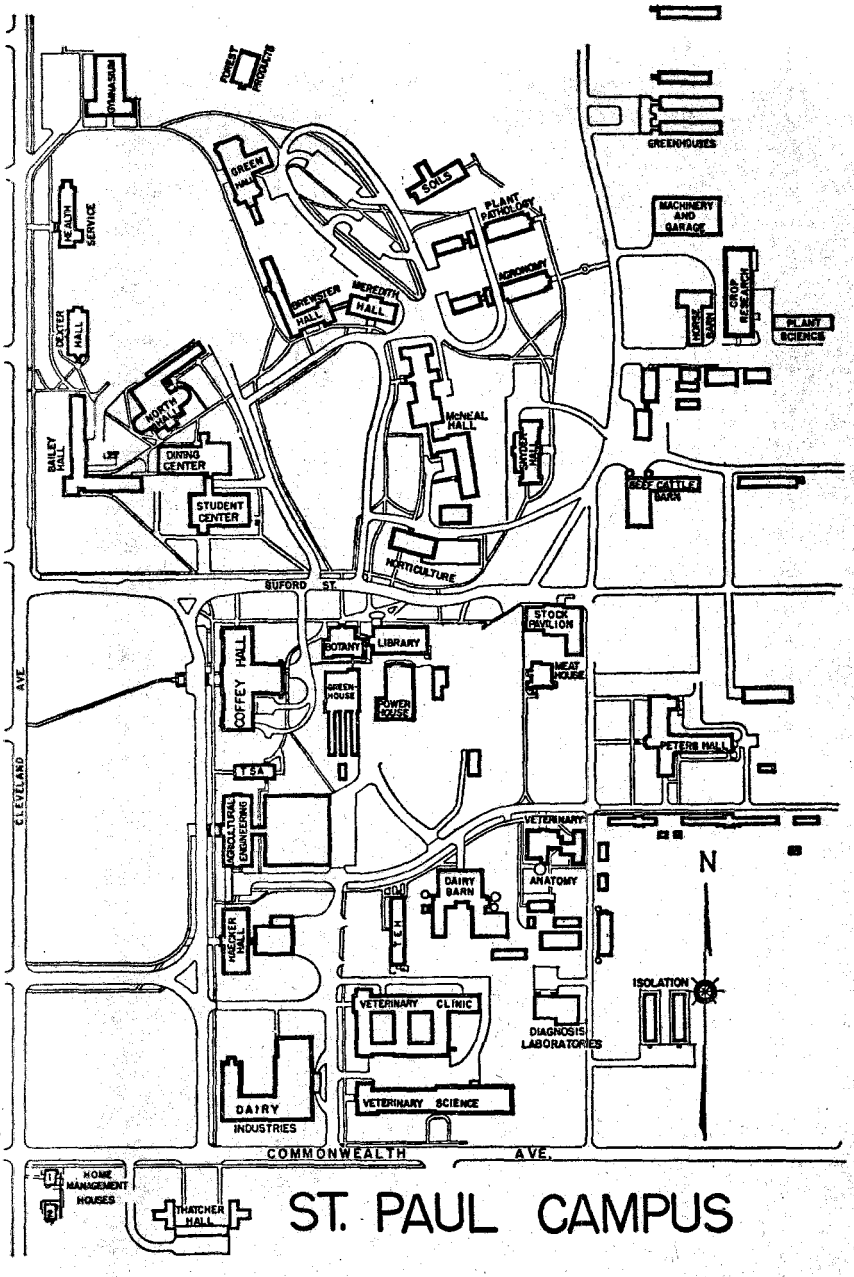
UPress, University Press Building (2037 Univ Ave SE)

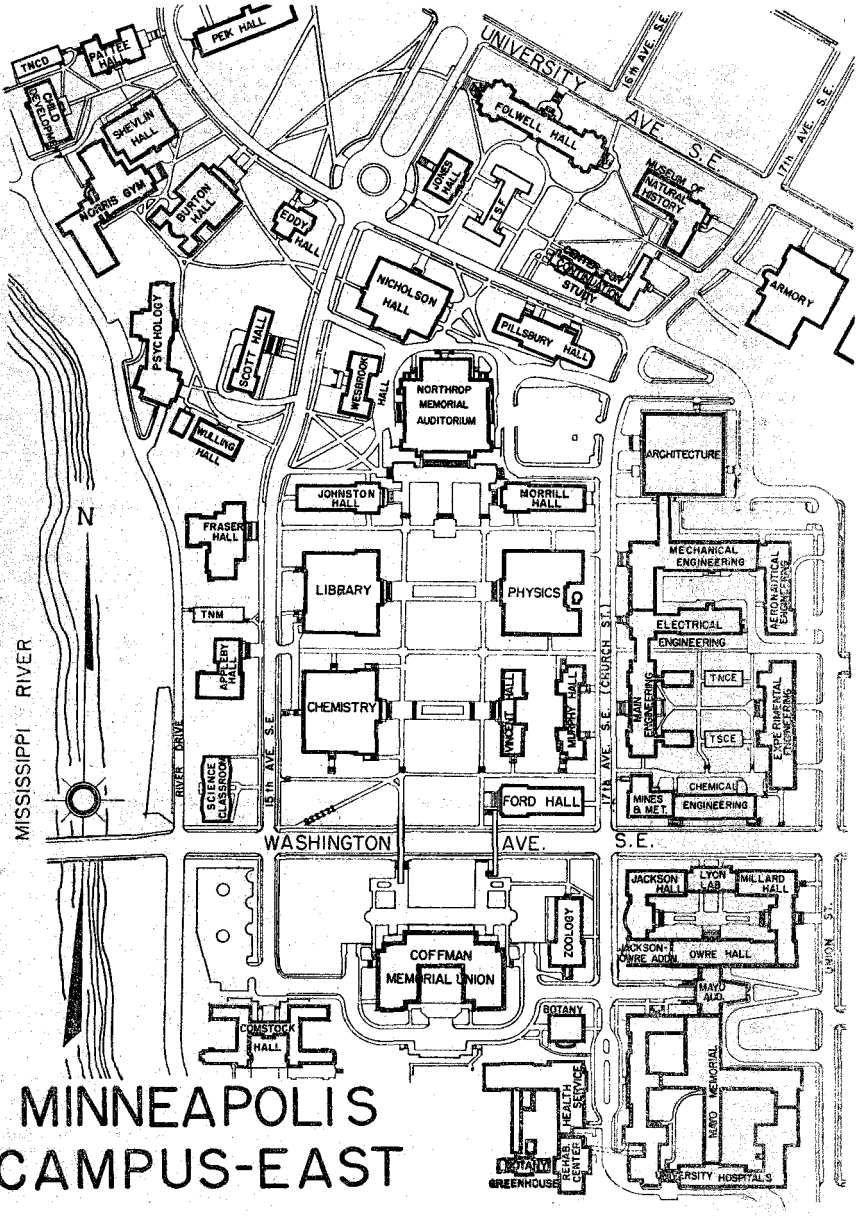
VB(StP), Veterinary Barn
VCHH, Variety Club Heart Hospital
VetA(StP), Veterinary Anatomy
VetC(StP), Veterinary Clinic
VetDL(StP), Veterinary Diagnostic Laboratories
VetIB(StP), Veterinary Isolation Bldgs
VetS(StP), Veterinary Science
VFWCRC, VFW Cancer Research Center
VH, Vincent Hall

WeH, Wesbrook Hall
WeiH(StP), Weigley House (1316 Cleveland Ave N)
WmsA, Williams Arena
WuH, Wulling Hall

Z, Zoology

Buildings located on the St Paul Campus are followed by StP in parentheses.
Buildings located on the West Bank are followed by W in parentheses.


GYMNASIUM
FOREST PRODUCTS
GREENHOUSES
GREEN HALL
SOILS
PLANT PATHOLOGY
HEALTH SERVICE
MACHINERY AND GARAGE
AGRONOMY
DEXTER HALL
BREWSTER HALL
MEREDITH HALL
HORSE BARN
CROP RESEARCH
PLANT SCIENCE
NORTH HALL
McNEAL HALL
BAILEY HALL
DINING CENTER
STUDENT CENTER
BEEF CATTLE BARN
HORTICULTURE
SUFORD ST.
STOCK PAVILION
COFFEY HALL
BOTANY
LIBRARY
GREEN-HOUSE
POWER HOUSE
HEAT HOUSE
PETERS HALL
CLEVELAND AVE
VETERINARY
N
DAIRY BARN
ANATOMY
ISOLATION
VETERINARY CLINIC
DIAGNOSIS LABORATORIES
DAIRY INDUSTRIES
VETERINARY SCIENCE
COMMONWEALTH AVE.
HOME MANAGEMENT HOUSES
THATCHER HALL
ST. PAUL CAMPUS



MINNEAPOLIS CAMPUS-EAST

FINAL EXAMINATIONS

Hours and Days—The time of your examination is based on the hours and days the class is regularly scheduled, and the college under which the course is listed in the *Class Schedule*. This final examination schedule does not apply to courses offered primarily to students registered in the School of Dentistry, Law School, Medical School, College of Pharmacy, and College of Veterinary Medicine . . . or to courses numbered over 200 which have no regularly scheduled classrooms.

In determining your proper final examination time from this schedule:

- Go by the lecture hours rather than the laboratory or recitation hours.
- Follow the MWF sequence if your class meets four or more days a week.
- Use the first full class hour if your class meets for more than one continuous hour. (For example, a class meeting VI-VII MWF would follow the VI MWF examination time schedule)
- Split-hour classes are to use the following arrangement: 8:15-9:30 TTh use I TThS; 9:45-11:00 TTh use II TThS; 11:15-12:30 TTh use IV TThS; 12:45-2:00 TTh use V TTh; 2:15-3:30 TTh use VII TTh. Any other unusual combinations should be cleared with the Room Scheduling Office prior to final examination week.
- Use the common examination hour if your course is listed on the following page. Classes meeting I-II Hour Saturday only will be examined 8:00-10:00 am S, March 11. Classes meeting III-IV Hour Saturday only will be examined 10:30-12:30 S, March 11.

Special Note: Classes meeting at 7:15 am will be examined at a time arranged by the instructor with the Room Scheduling Office.

Courses Listed Under College of Biological Sciences, Business Administration, General College, and Institute of Technology

Class Hours				
I	MWF	10:30-12:30	Th	March 16*
I	TThS	8:00-10:00	M	March 13
II	MWF	4:00- 6:00	F	March 17*
II	TThS	8:00-10:00	T	March 14
III	MWF	4:00- 6:00	M	March 13*
III	TThS	10:30-12:30	M	March 13
IV	MWF	1:30- 3:30	T	March 14*
IV	TThS	4:00- 6:00	T	March 14
V	MWF	1:30- 3:30	W	March 15*
V	TTh	4:00- 6:00	W	March 15

Class Hours				
VI	MWF	10:30-12:30	W	March 15*
VI	TTh	10:30-12:30	T	March 14
VII	MWF	1:30- 3:30	Th	March 16*
VII	TTh	4:00- 6:00	Th	March 16
VIII	MWF	8:00-10:00	F	March 17*
VIII	TTh	10:30-12:30	F	March 17
IX, X		Instructor will arrange examination time and room with Room Scheduling Office.		

Courses Listed Under College of Liberal Arts, Education, Medical Sciences‡, Dentistry‡, and Unattached Departments**

Class Hours				
I	MWF	8:00-10:00	Th	March 16*
I	TThS	8:00-10:00	M	March 13
II	MWF	1:30- 3:30	F	March 17*
II	TThS	8:00-10:00	T	March 14
III	MWF	1:30- 3:30	M	March 13*
III	TThS	10:30-12:30	M	March 13
IV	MWF	1:30- 3:30	T	March 14
IV	TThS	4:00- 6:00	T	March 14
V	MWF	1:30- 3:30	W	March 15*
V	TTh	4:00- 6:00	W	March 15

Class Hours				
VI	MWF	8:00-10:00	W	March 15*
VI	TTh	10:30-12:30	T	March 14
VII	MWF	1:30- 3:30	Th	March 16*
VII	TTh	4:00- 6:00	Th	March 16
VIII	MWF	8:00-10:00	F	March 17*
VIII	TTh	10:30-12:30	F	March 17
IX, X		Instructor will arrange examination time and room with Room Scheduling Office.		

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* Classes meeting four or more days a week may give three-hour examinations provided the instructor notifies the Room Scheduling Office of his intention to do so. Three-hour examinations will be scheduled on the respective morning or afternoon the examination would otherwise be given: March 13 (10:30-1:30 or 2:00-5:00); March 14 (1:30-4:30); March 15 (8:30-11:30 or 1:30-4:30); March 16 (8:30-11:30 or 1:30-4:30); March 17 (8:30-11:30 or 1:30-4:30).

‡ Courses offered primarily to students other than medical or dental students.

** Courses listed under Aerospace Studies, Military Science, Mortuary Science, Naval Science.

Courses Listed Under Agriculture, Forestry, and Home Economics

Class Hours				
I	MWF	10:30-12:30	Th	March 16*
I	TThS	8:00-10:00	M	March 13
II	MWF	4:00- 6:00	F	March 17*
II	TThS	8:00-10:00	T	March 14
III	MWF	4:00- 6:00	M	March 13*
III	TThS	10:30-12:30	M	March 13
IV	MWF	1:30- 3:30	T	March 14*
IV	TThS	4:00- 6:00	T	March 14
V	MWF	1:30- 3:30	W	March 15*
V	TTh	4:00- 6:00	W	March 15

Class Hours				
VI	MWF	10:30-12:30	W	March 15*
VI	TTh	10:30-12:30	T	March 14
VII	MWF	1:30- 3:30	Th	March 16*
VII	TTh	4:00- 6:00	Th	March 16
VIII	MWF	8:00-10:00	F	March 17*
VIII	TTh	10:30-12:30	F	March 17
IX, X	Instructor will arrange examination time and room with Room Scheduling Office.			

Common Examinations—All sections of the following courses are examined together at time indicated.

Acct 24, 25, 26—6:30-8:30 pm T ..... March 14
Biol 1, 1A, 2, 2A, 2H—6:30-8:30 pm W ..... March 15
Comm 1, 2, 3—8:00-10:00 am S ..... March 11
Comp X, 1, 2—8:00-10:00 am S ..... March 11
Econ 1, 1T, 2, 2T—6:30-8:30 pm M ..... March 13
EG 25—6:30-8:30 pm W ..... March 15
Engl A, B§
Fren 1, 2—6:30-9:30 pm Th ..... March 16
GC 10A, 10B—6:30-8:30 pm T ..... March 14
GC 32A—6:30-8:30 pm M ..... March 13
Ger 1A, 2A, 2B, 3A, 4—6:30-9:30 pm T ..... March 14
Ger 5, 51—6:30-8:30 pm Th ..... March 16
Math T, 55—12:00-2:00 S ..... March 11
Math Z, 31, 31H, 32, 32H, 33, 42, 43, 44—12:00-3:00 S ..... March 11
Math 10, 10A, 15, 21A, 22A, 22H, 23, 40, 40A—3:30-6:30 S ..... March 11
ME 31A—6:30-8:30 pm Th ..... March 16
Psy 1—7:00-9:00 S ..... March 11
Psy 5—4:00-6:00 W ..... March 15
QA 5, 51—7:00-9:00 S ..... March 11
Span 1, 2, 3, 25—6:30-9:30 pm Th ..... March 16

Rooms—Examinations are given in the regularly scheduled classroom unless your instructor arranges for and announces a different room. Instructors note: Requests for special final examination rooms are submitted to the Office of Room Assignments and Scheduling by your department office on Form A123 on or before February 8.

Conflicts and Three Examinations in One Day—Report conflicts with examinations in other courses and situations involving three examinations in one day to your college office.

Schedule Committee Regulations Regarding Examinations

1. There shall be no variations from the University final examination schedule except by concurrence of the dean of the college and the chairman of the University Scheduling Committee. This prohibition precludes also moving a final examination from a scheduled time to the last or earlier meetings of the class, except laboratory final examinations which cannot be held in accordance with the regular final examination schedule.
   All requests for adjustment of final examination hours by departments should be made by March 1 to permit publication and orderly consideration of hardships. Additional common examinations may be requested on Form A163, which is available in department offices. The same form is used to request exceptions to official examination hours.
2. Instructors requesting any variation from the official examination schedule must agree to give a special make-up examination to any student having examination conflicts or three examinations in one calendar day because of the change in hours being requested.
3. Arranged examinations and authorized variations in published hours shall conform with the hour-periods shown in the Examination Schedule.
4. No variations from the University final examination schedule will be considered official until published in the Official Daily Bulletin.
5. Each college shall assume responsibility for making arrangements to spread out examinations for students who have more than two examinations scheduled in one day.
6. **Recommended**—In order to give students an opportunity for thorough review prior to final examinations, instructors are requested not to schedule quizzes or term papers to be due during the last week of class.
7. Since providing adequate seating for final examinations is a continuing and growing problem:
   a. Departments are encouraged to limit final examinations to 2 hours.
   b. Alternate seating should be requested only when it is deemed necessary for proper administration. Some rooms are better than others for adjacent seating. Some departments are giving alternate forms of examinations to students seated in every seat and other departments are encouraged to follow this procedure.

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* Classes meeting four or more days a week may give three-hour examinations provided the instructor notifies the Room Scheduling Office of his intention to do so. Three-hour examinations will be scheduled on the respective morning or afternoon the examination would otherwise be given: March 13 (10:30-1:30 or 2:00-5:00); March 14 (1:30-4:30); March 15 (8:30-11:30 or 1:30-4:30); March 16 (8:30-11:30 or 1:30-4:30); March 17 (8:30-11:30 or 1:30-4:30).

§ Follow regular examination schedule using sectional rather than lecture hours.

GRADING SYSTEM

1. There shall be four permanent grades, A (highest), B, C, and D (lowest), which shall be acceptable for the completion of a single course.
2. There shall be a permanent grade of F (failure) given when a student does not complete successfully the work of a course.
3. There shall be a temporary grade of I (incomplete) which may be assigned when there is not sufficient information immediately available to permit the assignment of a permanent grade. This would be the case if the student has not done all the work of the course or the instructor does not know why a student, officially registered for his course, has not appeared or has left. If the instructor is able to ascertain that the student has no adequate excuse or if the student attended beyond the sixth week and was failing, F is the appropriate grade.

   An I which is not turned into a permanent grade or into a W (official cancellation with approval of the student's college) by the end of the sixth week of the next regular quarter of attendance shall become an F. (This does not apply to students in the Graduate School or to students in a Master's degree program in undergraduate colleges; their I grades remain until changed by the instructors to some other grade.) Permission to complete the work must be obtained from the instructor. He may set a makeup deadline of less than 6 weeks.

   An extension of time may be permitted for removal of I grades upon recommendation of the instructor concerned and with approval of the Scholastic Committee of the college in which the student is registered. If the petition is presented after the end of the sixth week of the next quarter of residence, a restoration of the mark of I and the completion of the required work would be considered in the nature of a special examination for which the special examination fee would be required.
4. There shall be a symbol W to indicate official cancellation from a course without grade. This shall be assigned in all cases of official cancellation during the first 6 weeks of classes irrespective of the student's standing. Whether cancellation is permitted is within the authority of the student's college to determine. After 6 weeks, W shall be posted only if the student is not failing at the time of official cancellation. W is a registration symbol, not a grade, and shall be posted by the Recorder on the basis of the student's registration activity as approved by the student's college.
5. A student who cancels officially or otherwise leaves a class after the sixth week of classes and is failing at the time shall receive an F.
6. There shall be a symbol X which may be reported in continuation courses in which a student is permitted to continue but in which a grade cannot usually be determined until the sequence is completed. The instructor shall submit a grade for each X when the student has completed the entire sequence.
7. In courses numbered 200 and higher, the permanent grade S (satisfactory) may be used to indicate satisfactory work for graduate students. In calculating grade point averages, it counts as a B.
8. In the doctor of medicine program, the permanent grade S (satisfactory) may be used to indicate satisfactory academic work for M.D. candidates. The grade S, when recorded for a course in the standard medical (M.D.) curriculum, carries no implication of a more exact grade level. A medical student's academic standing will be calculated on the basis of a more detailed evaluation available in the college office. A graduate student registered for courses in the standard medical (M.D.) curriculum should be graded in those courses on the standard (A, B, C, or D) system.
9. There shall be a registration symbol V (visitor) to indicate registration as an auditor or visitor.
10. There shall be a symbol T (transferred) indicating credits transferred from another institution, or from one college to another within the University when a revaluation is required. It shall be posted as a preceding supplement to the original grade.
11. For purposes of determining scholarship averages, grade points shall be assigned as follows:

Each credit of A	4 grade points
Each credit of B	3 grade points
Each credit of C	2 grade points
Each credit of D	1 grade point
Each credit of F	0 grade points

   A student's scholastic average—or grade point average—shall be the sum of grade points divided by the sum of credits passed and failed. In general, all credits must enter into the grade point average. If a course is repeated, usually both grades should enter into the computation of the grade point average. However, the faculty of a school or college may determine which credits and grade points are to be included in the average.
12. Any college or school may set special scholastic standards or other standards as a condition for registration in particular courses of study, for placing students on probation, for admission to the college or school, for promotion, for honors, for continued residence in the college or school, or for degree, etc.
13. The official grade point average shall be calculated in accordance with paragraph 11 above regardless of when grades were earned.

GRADES

Academic Staff—Grades are due in the Office of Admissions and Records within 72 hours after the examination. Winter quarter grades are due beginning March 14 with last day examination grades due by 5 p.m., Monday, March 20. Messenger service is provided. Please call 373-2153 when grades are ready. Do not put reports in campus mail.

Students—Your Winter Quarter grade reports will be available Monday, March 27 as follows:

Agriculture, Forestry, Home Economics, Biological Sciences—at 225 Coffey Hall.
Business Administration; Education; General College; Graduate School; Institute of Technology; Medical School; College of Liberal Arts; University College—at Arch Court on March 27. (At Admissions and Records Office after March 27.)
Other Colleges—at the college offices.

REMOVAL OF INCOMPLETES

Grades of I (incomplete) must be made up by the end of the sixth week of your next regular quarter in attendance. Dates for removal of incompletes are November 4, February 10, and May 5. Permission to complete the work must be obtained from the instructor who may, and generally will, set the makeup deadline in advance of the above dates. See GRADING SYSTEM for further explanation.

SPECIAL FEES

Supplement to *General Information Bulletin.*

English for Foreign Students

$15.00 per qtr—required of foreign students needing special instruction in English

Late Change of Registration

$2.00 Arts and IT after 1st week of classes

Late Payment Fee

$3.00 through the first week of classes, $5.00 during the second week, and $10.00 thereafter

Music Practice Room

$1.00 per qtr for one, $2.00 for two, 50 cents for each addtl hr per week—all instruments except organ
.25 per hr—small organ
.50 per hr—large organ

Placement Service Fee—Required of degree candidates from:

Duluth	$10.00
Institute of Technology (first certificate or degree)	5.00
College of Education (except Nursing Education Majors)	10.00
Morris (optional)	10.00

Record Service Fee

$1.00 required of all new students. This fee provides three certified copies of student records. When more than three copies of records are requested, a charge of $1.00 will be made for each additional copy

Speech and Hearing Clinic—Students

$5.00 per qtr—spec clinical treatment

Speech and Hearing Clinic—Nonstudents

$ 2.00 per session, Speech Therapy—Days
2.50 per session, Speech Therapy—Evenings
125.00 Summer Session intensive therapy
5.00 Consultation (outpatient)
20.00 Evaluation (outpatient)

DEPOSIT CARDS

Deposit cards may be purchased from the bursar (or from the cashier, Coffey Hall, for Agricultural Biochemistry). Chemistry cards are $10.00; Agricultural Biochemistry, Art, Pharmacy, and Medical Biochemistry cards are $5.00.

Laboratory material and breakage will be charged against your deposit card. Any unused balance will be refunded at the end of the course.

You must present your deposit card to be assigned a laboratory desk. Veterans (P.L. 815 and 894) will receive information from their instructor concerning deposit cards and laboratory assignments.

FACILITY FEES

Physical education facility fees—Students registered in the following physical education courses must pay the amount indicated to the appropriate facility operator for the use of the facility and/or equipment:

PEM 1B	Bowling, Beginning	$ 8.10	PEW B	Bowling, Beginning	$ 8.10
	Bowling, Intermediate	12.00		Bowling, Intermediate	8.10
	Curling	24.00		Curling	24.00
	SCUBA diving	18.00		Riflemarksmanship, Bgn	7.00
	Skiing	35.00		Skiing	35.00

COURSE FEES

All fees are per quarter unless otherwise indicated.

Students taking the following courses will pay course fees in addition to tuition as follows:

Civil Engineering (Summer)

$35.00 per term—23

Composition (Arts)

*$21.00—X Preparatory Composition

English (Duluth and Morris)

*21.00—X Preparatory English

Health Service (Field Trips and Foreign Study)

$14.26 per quarter, $7.13 per Summer Term—Required of students on University Field Trips such as Anthropology, Civil Engineering, Geology, Mines, etc.

Students in University sponsored foreign travel groups are required to enroll in the Blue Cross-Blue Shield program or take out other adequate insurance.

Itasca Biological Station (Summer)

$10.00—Laboratory fee

*$35.00—Research Table fee

Mathematics (IT and Morris)

*$21.00—8 Solid Geometry

Mathematics (Arts)

*$35.00—Z Preparatory Mathematics

Mathematics (Duluth and Morris)

*$35.00—X Preparatory Mathematics

Modern Language Institute (Summer)

$40.00 per term—French (22, 56, 106); or German (22, 67, 106); or Spanish (22, 58, 109)

Music

$35.00 for 1 half-hour individual lesson per week—11V through 30V and 61V through 80V (no cr) ¶¶

$35.00 (2 cr) for 1 half-hour individual lesson per week; $70.00 (4 cr) for 2 half-hour lessons or 1 hour lesson per week—11 through 30, 61 through 80, 100 ¶¶. Fee is for individual lessons for all Lower Division students and non-music majors.

No fee for 11A, 11B, 11C, 12A, 12B, 12C (Class Lessons)

$50.00—for 2 half-hour individual lessons per week or 1 hour lesson per week—13B (Summer)

$25.00—60B, 61B, 62B (Summer)

$70.00—for 1 hour lesson per week—204 ¶¶

$15.00—Piano for Children, ages 6-16

Music Education

225E—Same as Music 11-27, 100 ¶¶

Music (Duluth)

$15.00 (1 cr) for 10 half-hour lessons; $30.00 (2 cr) for 10 hour lessons—11, 13, 15, 17, 19, 39, 40

$15.00 (2 cr) for 10 half-hour lessons—50, 51, 52, 53, 54

$30.00 (2 cr) for 10 hour lessons—204

Music (Morris)

$30.00 for 10 half-hour lessons; $60.00 for 10 hour lessons—11, 12, 13, 14, 17, 18, 19, 40

Physical Education

Cooke Hall
Locker-Towel rental—$3.00 plus $1.00 deposit per quarter
Gym clothing rental—$3.00 per quarter

Norris Gymnasium
Locker-Towel rental—$3.00 plus $1.00 deposit per quarter

St. Paul Gymnasium
Locker-Towel rental—$3.00 per quarter

Physical Education (Duluth)

$1.25—1 through 49 (except 45), W66, W67

$5.00—9 (Bowling)

Physical Education (Morris)

$2.00—All courses and intramural activities

Public Health

$100.00—138, 169, 190

$251.00—231, 232

*$200.00—230 (September field course)

Rhetoric (AFHE)

*$7.00 per credit for more than 9 credits in Rhet (Communications)

Speech

$25.00—175

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* In lieu of tuition.

¶¶ Number of lessons is doubled per Summer Session term for courses listed in these sections.

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Minneapolis Campus	MorH 105
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Aeronautics and Engineering Mechanics	AE 107
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Ophthalmology	Mayo A684
Otolaryngology	Mayo A605
Pathology	JacH 198
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Pharmacology	MH 105
Pharmacy	AH 115
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Physical Education for Women	NGW 101
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Physics	Ph 148
Physiology	MH424
Plant Pathology and Physiology	PP 304
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Poultry Science	PetH 205
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Psychology	Psy 112
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Radiology	Mayo B238
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Veterinary Obstetrics	VetC 116
Veterinary Pathology and Parasitology	VetS 205
Veterinary Physiology and Pharmacology	TEH 201
Veterinary Surgery and Radiology	VetC 116
Zoology	Z 108

UNIVERSITY CALENDAR

Academic Year, 1966-1967

WINTER QUARTER

December	26	Monday	(Sunday, December 25, Christmas Day), holiday
December	27	Tuesday	Final payment of winter quarter fees due for students in residence fall quarter.
December	27-30		Orientation program; registration and final payment of fees for new students in all undergraduate colleges (including Adult Special students).
January	2	Monday	(Sunday, January 1, New Year's Day), holiday.
January	3	Tuesday	Winter quarter classes begin.
January	6	Friday	Last day for registration and final payment of fees for the Graduate School and for teachers in service.
February	2	Thursday	Senate meeting.
February	22	Wednesday	Washington's Birthday, holiday.
February	19-25		University of Minnesota Week.
February	23	Thursday	Charter Day Convocation, IV hour classes excused (except Duluth and Morris).
February	24*	Friday	Graduate School application deadline for spring quarter.
March	1*		Last day to file application for spring admission to the undergraduate colleges or for change of college within the University.
March	9	Thursday	Senate meeting; last class day.
March	10	Friday	Review begins.
March	11-17		Final examination period.
March	16	Thursday	Final payment of spring quarter fees due for students in residence winter quarter in undergraduate colleges.
March	18	Saturday	Winter quarter closes. Commencement (Minneapolis-St. Paul), 8:30 p.m.

SPRING QUARTER

March	20-23		Orientation program; registration and final payment of fees for new students in all undergraduate colleges (including Adult Special students).
March	24	Friday	Good Friday, holiday.
March	27	Monday	Spring quarter classes begin.
March	31	Friday	Last day for registration and final payment of fees for the Graduate School and for teachers in service.
April	27	Thursday	Senate meeting.
May	10	Wednesday	Cap and Gown Day Convocation (Minneapolis-St. Paul), IV hour classes excused.
May	15*	Monday	Graduate School application deadline for first term Summer Session.
May	24	Wednesday	Cap and Gown Day Convocation (Duluth), VII hour classes excused.
May	30	Tuesday	Memorial Day, holiday.
May	31	Wednesday	Cap and Gown Day Convocation (Morris), VII hour classes excused.

* Other application dates are specified for General College, Medicine, Veterinary Medicine, Dentistry, and Dental Hygiene in the admissions section of this bulletin.

June	1	Thursday	Senate meeting; last class day.
June	2	Friday	Review begins.
June	3-9		Final examination period.
June	4	Sunday	Baccalaureate Service (Duluth), 8 p.m.
June	9	Friday	Baccalaureate Service (Minneapolis-St. Paul), 4 p.m. Commencement (Duluth), 8 p.m.
June	10	Saturday	Spring quarter closes. Commencement (Minneapolis-St. Paul), 7:30 p.m.
June	12	Monday	Commencement (Morris), 8 p.m.

General Extension Division, 1966-1967

SPRING SEMESTER

January	30	Monday	Spring semester registration begins.
February	8	Wednesday	Spring semester registration closes.
February	13	Monday	Spring semester classes begin.
February	22	Wednesday	Washington's Birthday, holiday.
March	24	Friday	Good Friday, holiday.
May	30	Tuesday	Memorial Day, holiday.
June	10	Saturday	Spring semester classes close.

Extension classes offered on the quarter basis are on the same schedule as day school with registration beginning 2 weeks preceding the opening of classes for the winter and spring quarters.

Correspondence study courses may be started at any time.

Summer Session

FIRST TERM

1966			1967	
June	13	Orientation and registration for first term.	June	12
June	14	First term classes begin.	June	13
June	20	Graduate School application deadline for second term Summer Session.	June	19
July	4	Independence Day.	July	4
July	15	Classes end at close of VI hour. Commencement, 4 p.m.	July	14
July	16	First term closes.	July	15

SECOND TERM

July	18	Registration for second term.	July	17
July	19	Second term classes begin; fees due.	July	18
August	19	Classes end at close of VI hour. Commencement, 4 p.m.	August	18
August	20	Second term closes.	August	19

Extension Division and Summer Session final examinations are given at the last class meeting each semester or term.

COURSES RESERVED IN COLLEGE OFFICES

Accounting
24, 25, 26—CofH 225 for AFHE, and JohH 205 for other students
75A, 75B, 105A, 105B—BA(W) 225

Aeronautics
All courses under 200—E 136

Aerospace Studies
All courses—A 108

Agricultural Economics
1, 2, 25—CofH 225

Agricultural Engineering
All courses under 200—E 136

Agronomy and Plant Genetics
1, 21, 121, 252—CofH 225

American Studies
201—JohH 205

Analytical Chemistry
All courses under 236 *except* 142, 202—E 136

Animal Husbandry
21, 37A—CofH 225

Anthropology
2A (lect and lab), 90, 100, 101, 164, 165—JohH 205

Architecture
All courses under 200—E 136

Art Education
All courses under 295 *except* 54, 86, 87, 87A, 88—Bu 206

Art History
All courses under 196—CofH 225 for AFHE, and JohH 205 for other students

Astronomy
11—E 136 for IT, and JohH 205 for other students

Biochemistry (BioC)
51, 146, 151—CofH 225 for AFHE, Z108 or SnH 123 for other students

Biology
1, 1A, 2, 2A, 2H (lect and lab)—CofH 225 for AFHE, AH 115 for Pharm, Owre 125 for Nurs, E 136 for IT, VH 114 for Mort Sci, Bu 206 for Ed, and JohH 205 for other students
51, 71—Z 108 or SnH 123 for AFHE, and JohH 205 for other students
110, 111—Z 108 or SnH 123

Botany
53, 121, 131, 165—Bo 8

Business Finance
56—BA(W) 225

Business Law
58, 78—BA(W) 225

Chemical Engineering
All courses under 200—E 136

Child Psychology
80, 81—JohH 205
224—Bu 206

Chinese
2—JohH 205

Civil Engineering
All courses under 194 (lect and lab for 52) *and* 251, 252—E 136

Classics
48, 68, 108—JohH 205

Communication
All courses—JohH 205

Curriculum and Instruction
60, 61, 62, 63, 64, 65, 109, 149B, 294—Bu 206

Dairy Husbandry
49—CofH 225

Economics
B, 1, IH—JohH 205
1T, 2T—E 136
2, 2H—AH 115 for Pharm, and JohH 205 for other students
All other courses under 114B *except* 65T, 90H, 101B—BA(W) 225 for BA and JohH 205 for other students

Education
All courses—Bu 206

Educational Psychology
110, 116A, 126, 150, 200, 209, 211, 216A, 217, 217A, 243, 257, 280, 281, 282A, 282B—Bu 206

Electrical Engineering
All courses under 200—E 136

Engineering Graphics
All courses—E 136

English
A, B—E 136 for IT, and JohH 205 for other students
85B—E 136
All other courses under 204 *except* 90H, 91H, 92H, 102, 159—JohH 205

English Composition
X, 1, 2—E 136 for IT, and JohH 205 for other students
27, 28, 102—JohH 205

Entomology, Fisheries and Wildlife
56, 77, 126—CofH 225

Family Studies
All courses—JohH 205

Forestry
109, 111, 199—CofH 225

French
All courses under 108 *except* 56, 66H—JohH 205

General Chemistry
4, 5—CofH 225 for AFHE, and JohH 205 for other students
15—E 136

25, 25H—E 136 for IT, and JohH 205 for other students

General College
7A, 10A, 10B, 26A—CofH 225 for AFHE, and NH 20 for other students
15 (lect and rec)—NH 20
All other courses—NH 20

Genetics
66, 67, 171, 176—CofH 225 for AFHE, SnH 123 and Z 108 or JohH 205 for other students

Geography
1 (lect and lab)—CofH 225 for AFHE, E 136 for IT, and JohH 205 for other students
4, 4H, 41, 63, 71, 81, 101, 102, 187—JohH 205

Geology and Geophysics
1, 2 (lect, rec, and lab)—CofH 225 for AFHE, E 136 for IT, and JohH 205 for other students
22, 141, 141A—E 136

German
1A, 2 (lect and rec), 51—E 136 for IT, and JohH 205 for other students
All other courses under 104 *except* 89H—JohH 205

Greek
2—JohH 205

Hebrew
2—JohH 205

History
1, 1H, 2, 2H, 5, 12, 12H, 15, 15A, 18, 23, 23H, 24, 24H, 45, 51, 54, 57, 60, 80, 88A, 91, 94, 98, 116D, 119F, 122C, 140C, 140J—JohH 205

History and Philosophy of Education
90—Bu 206

Home Economics
3, 40—CofH 225 for AFHE, and JohH 205 for other students
All other courses under 209 *except* 1—CofH 225

Humanities
All courses—JohH 205

Hydromechanics
All courses under 200—E 136

Industrial Education
1, 2—Bu 206
3, 8, 15, 20, 26, 50, 55—TNCD 103

Industrial Engineering
All courses under 200—E 136

Industrial Relations
52, 72, 82, 172—BA(W) 225

Insurance
83—BA(W) 225

Italian
1, 2—JohH 205

Japanese
2—JohH 205

Journalism
1, 5, 14, 18, 41, 50, 53, 55, 56, 59, 65, 71, 73, 74, 79, 85, 201—JohH 205

Latin
2—JohH 205

Management
60, 70—BA(W) 225

Marketing
57—BA(W) 225

Mathematics
T, Z, 10, 10A, 15, 42, 43—CofH 225 for AFHE, and JohH 205 for other students
5A, 44, 55, 60, 63, 80B, 106, 107, 112B, 158, 178B—JohH 205
117B—E 136 for IT, and JohH 205 for other students
All other courses—E 136

Mechanical Engineering
All courses under 200—E 136

Mechanics and Materials
1, 3, 4, 7, 45, 45A—CofH 225

Mechanized Agriculture
All courses *except* 55, 114, 115—CofH 225

Metallurgical Engineering
All courses under 200—E 136

Methods and Student Teaching
67, 67B, 68, 68B, 69, 70, 75, 75B—Bu 206

Microbiology
53—CofH 225 for AFHE, Mayo C205 for Med Tech, Owre 125 for Nurs, and JohH 205 for other students
1, 116A—JohH 205

Military Science
All courses—A 108

Mineral Engineering
All courses under 200—E 136

Mortuary Science
All courses—VH 114

Music
1T, 2T, 4, 4T, 5T, 11B, 12B, 35, 43, 101B—JohH 205

Music Education
4, 5, 6, 7, 8A, 8B, 10A, 10B, 51, 52—Bu 206

Natural Science
2, 4—CofH 225 for AFHE, and JohH 205 for other students
5, 173—JohH 205

Naval Science
12 (lect and lab)—A 203
All other courses—A 203

Norwegian
2—JohH 205

Office Management
33—BA(W) 225

Organic Chemistry
61—JohH 205
62 (sec 1)—AH 115 for Pharm, E 136 for other students
All other courses under 200—E 136

Orientation
1—CofH 225

Personal Orientation
1—JohH 205

Philosophy
1, 2—E 136 for IT, and JohH 205 for other students
3, 51, 51H, 70, 110, 116, 155—JohH 205

Physical Chemistry
All courses under 200—E 136

Physical Education for Men
1B (open to Men only) sec 11, 26, 36; (open to Men and Women) secs 46, 47, 48, 49, 62—CofH 225 for AFHE, and JohH 205 for other sections
2B—JohH 205
4A, 5B, 6B, 6C, 7B, 9A, 69—Bu 206

Physical Education for Women
B (open to Women only) sec 11; (open to Men and Women) secs 37, 38, 39, 40, 41—CofH 225 for AFHE, and JohH 205 for other sections
20A, 41A, 45, 46, 70, 91A—Bu 206

Physics
1—E 136 for IT, CofH 225 for AFHE, and JohH 205 for other students
1A, 2, 5, 8, 21, 23, 50, 51, 121, 146—E 136

Political Science
A, 1, 25—E 136 for IT, and JohH 205 for other students
B, 2, 26, 30, 40, 102, 108, 117, 130, 137, 142, 150, 156, 160, 161, 165, 168, 185, 188—JohH 205

Portuguese
2—JohH 205

Production
150B—BA(W) 225

Psychology
1 (secs 4, 5)—CofH 225 for AFHE, and JohH 205 for other sections
4, 5 (lect and lab), 104, 117, 120, 126, 128, 130, 132, 136, 144, 156, 160, 163, 172, 213, 292B—JohH 206
2R—CofH 225

Public Administration
270B, 282B—JohH 205

Public Health
3, 50—CofH 225 for AFHE, and JohH 205 for other students
52—CofH 225
104, 111B—JohH 205

Quantitative Analysis
5—JohH 205
51, 53, 61, 150, 191A, 251—BA(W) 225

Recreation
52, 58—Bu 206

Rhetoric
All courses—CofH 225

Russian
2, 2H, 5—JohH 205

School Health Education
25, 70, 83—Bu 206

Social Science
1, 2, 3—E 136 for IT, and JohH 205 for other students
52, 62, 72—JohH 205

Sociology
1A, 14A—CofH 225
45 (lect and lab)—JohH 205
All other courses under 298 *except* 98—JohH 205

Soil Science
19, 54, 119—CofH 225

Spanish
All courses under 108 *except* 66H, 75, 81—JohH 205

Speech
50—E 136 for IT, BA(W) 225 for BA, and JohH 205 for other students
All other courses under 181 *except* 3, 67, 95H, 169A—JohH 205

Speech Science, Pathology and Audiology
140—JohH 205

Statistics
90, 90E, 122, 132—JohH 205

Studio Art
20—CofH 225 for AFHE, and JohH 205 for other students
24A, 61A—E 136
All other courses under 210A—JohH 205

Swedish
2—JohH 205

Theatre Arts
All courses under 181 *except* 52A, 52B, 95H, 101, 102, 103—JohH 205

Transportation
54—BA(W) 225

Veterinary Bacteriology and Public Health
103—CofH 225

Zoology
53, 75, 77, 110, 117, 145, 166—Z 108 or SnH 123
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STUDENT PROGRAM WORK SHEET

EXAMPLE:

Course Section	AgEc 1 Sec 2
Room Bldg. Instructor	109 HH Lowe

	Monday	Tuesday	Wednesday	Thursday	Friday
I					
II					
III					
IV					
V					
VI					
VII					
VIII					

REGISTRATION DATES

Students in attendance fall quarter must register during the period set for their college and pay fees by December 27.

Orientation and registration for new students will be on December 27-30 with fees due December 30. (December 1 last day for new undergraduate students to file application for admission winter quarter).

Students returning to the University who were not in attendance fall quarter may register during the period set for their college or during the period for new students.

Students approved for change of college may register during either period. Such students should pick up their permit card from their previous college (Duluth and Morris students only if convenient) and present it with their Authorization for Change of College at the office of their new college to obtain registration material. Those planning to enroll in another college of the University who have not yet applied for transfer at the Admissions Office, should do so immediately or not later than December 1 to receive consideration.

Agriculture, Forestry, Home Economics (225 Coffey)
- Issue of material starts November 9
- Class Reservations November 15-December 8

Biological Sciences (225 Coffey)
- Issue of material starts November 9
- Class Reservations November 15-December 9

Business Administration (225 BA, West Bank)
- Issue of material starts November 14
- Class Reservations November 15-30

Dental Hygiene (106 Owre)
- November 15, 16, 17

*Dentistry (136 Owre)
- December 28-30

Education (206 Burton)
- Issue of material starts November 10
- Class Reservations November 14-December 8

General College (20 Nicholson)
- Class Reservations November 15-December 8
- Returning students December 12-21

Graduate School (316 Johnston)
- November 15-January 6 (Fees due January 6)

Law (125 Fraser)
- November 21, 22, 23

Liberal Arts
- Lower Division (216B Johnston)
- Upper Division:
  - Humanities (206 Folwell)
  - Science and Math (and Central) (223 Johnston)
  - Social Sciences (214 SocSci)
  - Honors (115 Johnston)
- Special Students:
  - With degree (225 Johnston)
  - Without degree (216B Johnston)
  - Issue of material starts November 9
  - Class Reservations begin November 15
  - Students should complete registrations by December 8 because advisers will not be available after that date.
  - Registration will generally not be permitted after December 30.

Medical Technology (C205 Mayo)
- November 15-30

*Medicine (1360 Mayo)
- December 28-30

Mortuary Science
- November 14-17

Nursing (125 Owre)
- November 15-30

Occupational Therapy (860 Mayo)
- November 15-30

Pharmacy (115 Appleby)
- November 15-30

Physical Therapy (860 Mayo)
- November 15-30

Public Health (1325 Mayo)
- November 15-December 8

Technology, Institute of
- Engineering and Architecture (133 Main Engineering)
- Chemistry (139 Chemistry)
- Mineral and Metallurigcal Engineering (112 Mines and Metallurgy)
- Physics (148 Physics)
- Co-op or Work-Study, November 14
- Other students, November 15-21

University College (106 Nicholson)
- Dates same as for Liberal Arts

*Veterinary Medicine (220 Coffey)
- December 28-30

Education and Graduate students taking Saturday classes only may also register on Saturday, January 7 at 206 Burton (8 a.m.-12 noon)

IT Enrolling Schedule

	8-9	9-10	10-11	11-12	1-2	2-3	3-4
Nov. 15	Wi-Z	Ve-Wh	Th-Va	Sp-Te	Se-So	Ru-Sc	Q-Ro
Nov. 16	Pe-Pu	O-Pa	Gb-Gw	F-Ga	Di-E	Ci-De	Bu-Ch
Nov. 17	Bi-Br	B-Be	A	Mu-Ny	Mc-Mo	Lo-Ma	Lar-Lj
Nov. 18	Ko-Lar	Jok-Kn	Hu-Joh	Hei-Hs	H-Heg		
Nov. 21	Completion of Tally						

* Students in these colleges have normally already registered for the year.

University of Minnesota

CLASS SCHEDULE

Spring Quarter

1967

TWIN CITIES CAMPUS

including

- Registration Instructions, page 4
- Final Examination Schedule, page 110
- Courses Reserved in College Offices, page 118
- Course Fees, page 115
- Calendar, page 117

Every Student is Held Accountable for Information Contained Herein and Should Save This Bulletin for Future Reference.

HOW TO USE THIS BULLETIN

Bold face titles—You must obtain a class reservation card to enroll in courses which appear with **bold face** titles. Instructions on where to get these class reservation cards appear on page 118.

Prerequisites—Before you can enroll in some courses, you must have completed or be concurrently enrolled in certain other courses or possess some particular qualification or class standing. These requirements are known as prerequisites. If no prerequisites are listed, there are none, except insofar as the course number indicates a class standing requirement.

Class standing requirements, unless otherwise noted, are indicated by the course number:

1-49 for freshmen and sophomores
50-99 for juniors, seniors, and fifth-year students
100-199 for juniors, seniors, fifth-year students, and graduate students
200 and over for graduate students only

A minimum of prerequisite information is shown. For example, when courses which must be taken in sequence are prerequisites, only the last course of the sequence is listed. A comma always means "and"; while a semi-colon indicates that there are alternative prerequisites.

Example: prereq 2 or 5, Psy 1 (you must have had Psychology 1 plus either courses 2 or 5)

Example: prereq C or 12H; 3A or 3B or Comm 3, 5 addtl cr; 5 cr in 21 or 22 or 23; exempt, 5 cr lit (you must have had either C or 12H; or 5 credits in the same department plus either 3A or 3B or Communication 3; or 5 credits from either course 21, course 22, or course 23; or 5 credits of literature with exemption from freshman English).

When no departmental designation precedes the course number listed as a prerequisite, that course is in the same department as the course being offered. Likewise, a prerequisite reading "6 cr" means 6 credits in courses offered by the same department.

Work equivalent to a prerequisite course (having the same content) is ordinarily accepted in lieu of that prerequisite. You will also note that the instructor may, in some instances, waive prerequisites at his discretion. See your college bulletin for further information.

Symbols—The following symbols are used throughout this bulletin:

† To receive credit, all courses listed after the dagger must be completed.
‡ Students may enter any quarter.
§ No credit if credit received for equivalent course after the symbol.
¶ Means "concurrent registration in."
♯ Means "consent of instructor."
△ Means "consent of department or school offering the course."
R Means "some sections of course reserved."

Hours and Days—Class hours are identified by Roman numerals, and continue for 45 minutes after the starting time shown below in all colleges on the Twin Cities Campus.

0	I	II	III	IV	V	VI	VII	VIII	IX	X
7:15	8:15	9:15	10:15	11:15	12:15	1:15	2:15	3:15	4:15	5:15

The University Senate approved the foregoing class-hour schedule with the understanding that classes may continue for 50 minutes after the starting times shown whenever this is feasible with respect to the students' schedules.

A class listed I-III TTh meets the first through the third hours Tuesdays and Thursdays, the hyphen always indicating "through." Days of the week are abbreviated M, T, W, Th, F, and S.

Televised courses—Those courses to be given on closed circuit television are designated with the abbreviation, **CCTV.**

Building name abbreviations—Refer to the index for page reference.

Choice of classes—When section numbers precede the hours and days listed, you may choose the section in which you wish to enroll. Many courses have a choice of laboratory or recitation periods, but only a single lecture period for all students taking the course. Occasionally there will be a choice of both lecture and laboratory or recitation periods. The choice of the laboratory or recitation section will determine the lecture section whenever the lecture sections are listed among the laboratory or recitation periods.

Examples:

—1, I TThS	Lect III MWF	Lect II T	—1, Lect I T
—2, II MWF	—1, Lab V-VI M	—1, Lab III-IV T	—2, Lect II Th
—3, IV TThS	—2, Lab V-VI W	—2, Lab III-IV Th	—1, Lab III-IV T
		Lect II Th	—2, Lab III-IV Th
		—3, Lab VI-VII T	—3, Lab VI-VII T
		—4, Lab VI-VII Th	—4, Lab VI-VII Th

Missing Information—When hours and days or the place of meeting are missing, consult the instructor or department offering the course.

Changes—Changes made subsequent to publication of the *Class Schedule* are published in the Official Daily Bulletin, which appears in the *Minnesota Daily*. Room changes are posted on classroom doors.

REGISTRATION INSTRUCTIONS

Accurate registration is your personal responsibility. You will receive credit in only those courses for which you are properly registered. Likewise, you will be held responsible for every course for which you register unless you officially cancel it on a regular cancellation form available at your college office. Registration is not complete or official until fees are paid; student status is withdrawn when fees are delinquent even though you have filed a study program.

Colleges of the University reserve the right to cancel courses in which enrollment is not sufficient to warrant giving the course, or to depart from this schedule.

Do not register from the *Class Schedule* alone. Your college bulletin contains full course descriptions, college rules and requirements, and other information necessary for sound program planning.

All new students, both undergraduate and graduate, must obtain a student identification card before a statement of fees will be issued. Undergraduate students will obtain their I.D. cards either during orientation or by presenting their registration permit or I.D. card authorization to the I.D. office in Room B-35 Johnston Hall. I.D. pictures for all students are taken in B-35 Johnston Hall.

Step 1—Have your program approved by your college office. Follow the instructions given you by your college. Registration dates for each college are listed on the back cover.

Step 2—Get class reservation cards for courses reserved in the college offices. Courses which are reserved in college offices are listed on page 118.

Step 3—New students who do not already have a Health Service Clearance Slip go to the University Health Service to make proper arrangements. Required of all undergraduate students taking 6 credits or more and of all graduate students except "teachers in service" taking less than 6 credits.

Step 4—Present "I.D." card and turn in registration permit, class reservation cards, and approved registration blank at your record window in the Office of Admissions and Records to obtain statement of fees. New students, in addition, must present Health Service Clearance slip (if required) and turn in University Relations mailing slips, Dean of Students information card, and (optional) religious census card.

Step 5—Pay your fees to the bursar.

Every fee statement must be receipted, even when no payment is required, before you are considered officially registered.

Fees for students in residence winter quarter in undergraduate colleges are due March 16.

Fees for new students in undergraduate colleges are due March 23.

Fees for students in the Graduate School are due March 31.

The fee for late payment is $3 through the first week of classes, $5 during the second week, and $10, thereafter. Spring quarter classes begin on March 27.

Change of registration—Obtain a "cancel-add" form and approval at your college office, get necessary class reservation cards for courses you are adding

as in step 2 above, and present to your college window in the Office of Admissions and Records. You will receive a supplementary fee statement or fee refund statement as necessary.

Withdrawal from the University—Notify your college and the Office of Admissions and Records of your intention to withdraw from the University. All University property such as library books, military, athletic or band equipment, laboratory material, locker keys or locks, athletic tickets, etc., must be turned in before you leave. P.L. 815 and 894 veterans must also notify 105 Morrill Hall.

Accounts Paid by Various Agencies

If you have authorization for the University to bill a donor for your tuition and fees you must have your fee statement approved at window 18 in Morrill Hall (or room 220 Coffey Hall, St. Paul Campus) and *receipted by the bursar or cashier.* Failure to have your fee statement receipted before the last date for payment will necessitate a "late fee."

Veterans and War Orphans

Ch. 34 (new GI Bill) Veterans and P. L. 634 (Ch. 35 trainees)—You must register and pay fees like every other student. Your business with the Veterans Administration is separate, and you are to attend to it on your own responsibility. The University assists you by certifying as required. You initiate this certification at window 18 on the first floor of Morrill Hall (or room 220 Coffey Hall, St. Paul Campus).

Do the following:

Make application to the Veterans Administration for benefits on or before your first day of class. You don't get paid unless you do apply; you obtain a certification of eligibility from the Veterans Administration. Present the certificate and your receipted fee statement *in person* at one of the above addresses.

If you are returning for another session, your previous training period under the law having been officially interrupted, you may have to make out a re-entrance form to notify the Veterans Administration that you wish to resume training status. Do this at one of the above addresses.

P. L. 815 and 894 Veterans—Have your fee statement approved at window 18, Morrill Hall (or room 220 Coffey Hall, St. Paul Campus), and then receipted by the bursar. Bring the receipted statement and your course list to room 105 Morrill Hall to obtain an order for books and supplies.

Additional information concerning University attendance under the above designated laws may be obtained at room 105 Morrill Hall, or in the Official Daily Bulletin.

Selective Service Certification

The University endeavors to be helpful to its students who ask deferment by their Selective Service boards for full-time study while making satisfactory progress toward a given degree objective. Authorization for reports on attendance, assistance in making out forms, counsel on solving problems with Selective Service, or information on how Selective Service may apply to you as a student can be arranged through the National Services Adviser, room 105 Morrill Hall, Minneapolis Campus (or room 220 Coffey Hall for students whose college is at St. Paul). See under *Registration Instructions*

and note that a student who has not paid fees by the time official class lists are prepared will be considered as not a student at the University of Minnesota.

Tuition Rates for Staff Members and Military Personnel

All academic appointees giving 25 per cent or more of full time service and all 75 per cent time or more civil service appointees, when enrolled in the Graduate School, will pay tuition at the Graduate School resident rate, regardless of source of fund, resident status, or curriculum pursued. Similar staff members when enrolled in the final year of a Master's degree curriculum in an undergraduate college will pay tuition at the respective college resident rate. If you are a nonresident, entitled to resident fee privileges under these regulations, tell the fee statement clerk that you are a staff member when you turn in your approved registration blank at your college window in the Office of Admissions and Records, Morrill Hall.

Any full-time faculty members with rank of instructor or above, University civil service personnel eligible for faculty group insurance, certain accredited foreign diplomatic officials, and their immediate families may pay resident fees in all colleges. Similar provision, 1 year after their arrival, is made for military personnel on duty in Minnesota for other than college attendance. Full-time faculty under contract in accredited Minnesota colleges (not their families) have the same privilege as provided for new University faculty. Persons for whom these provisions are meaningful should contact the Recorder's Office, 120 Morrill Hall, to make appropriate arrangements.

If You Are Graduating This Year

For the March Commencement, you must file a form called "Application for Degree" at the appropriate window in the Office of Admissions and Records (or room 220 Coffey Hall, St. Paul Campus), preferably with your fall quarter registration material. You should check with your college office regarding the last date for applications. A graduation fee of $10 is due February 13 for winter quarter graduation.

If you expect to graduate anytime within the year (through August 1967), file your formal Application for Degree now. Shortly thereafter you will receive a balance sheet which shows whatever requirements for the degree you still must complete.

Foreign Students

Your first action on arriving at the University should be to show your passport at the Foreign Student Adviser's Office, 717 East River Road. There you will be given full information about federal, state, and local regulations, and about housing, finance, health and personal problems. Following this, you register in the same manner as all other students.

COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS

Courses offered on the St. Paul Campus by Minneapolis Campus Departments:

Acct 26
MdBc 103
Clas 48, 68
Econ 66
Educ 55B
GeCh 5
Geol 2
Math T, 10, 43
MicB 53, 103
Mus 45S
PEM (non-professional)
PEW (non-professional)
Phys 3
Psy 2
PubH 52
Soc 1A
Spch 251

For additional information, see the course listing under the appropriate department.

AGRICULTURAL ECONOMICS (AgEc)

2 **Prin of Economics II** (3 cr; prereq 1)
—1, II MWF, DI 15, Peterson
—2, VI MWF, GorC 10, Peterson

3 **Prin of Economic Analysis** (3 cr; prereq 2)
11:15-12:30 TTh, GorC 10, Helmberger

12 **Farm Mgt** (3 cr; prereq 2)
III MWF, HH 210, Nodland

30 Agricultural Prices (3 cr; prereq soph, 2)
VII MWF, HH 100, Houck

82 Farm Planning (3 cr; prereq 2)
9:45-11:00 TTh, HH 210, Jensen

95 Junior-Senior Seminar (1 cr; prereq maj or min or Ag BA, completion 120 cr)
3:45-5:00 Th, DI 15

99 Special Probs (1-3 cr, total 6 cr; prereq AgEc or Ag BA maj or min, ♯)

108 Agricultural Policy (3 cr)
III MWF, HH 100, Waldo

131 Market Prices (3 cr; prereq 30, Econ 65)
I MWF, HH 210, Venkataramann

144 Co-operative Organization (3 cr; prereq 40)
IV MWF, HH 100, Koller

150 Adv Farm Finance (3 cr; prereq 50)
2:15-3:30 TTh, DI 118, R Dahl

172 Economics of World Agriculture (3 cr)
2:15-3:30 WF, HH 210, Venkataramann

179 Seminar: Social Sciences, World Food Supply Probs (2 cr) Ellenbogen, Martin

202 Seminar (ar cr)

208 Seminar: Agricultural Price, Income Policies (3 cr) Houck, Ruttan

211 Economics of Agricultural Production II (3 cr; prereq 110, Econ 165 or ♯)
3:45-5:00 MW, HH 210, Jensen

246 Seminar: Consumption (3 cr) Burk

AGRICULTURAL ENGINEERING

Mechanized Agriculture (MeAg)

3 **Technical Drawing** (3 cr)
II-IV TTh, AgEng 103, Pomroy

4 **Agricultural Shop-Metalwork** (4 cr; prereq GeCh 4 or ♯)
Lect I TTh, AgEng 35, Bear
Lab II-IV TTh, AgEng 20, Bear

12 **Agricultural Machinery** (3 cr; prereq 23)
Lect IV MWF, AgEng 109, Smith
—1, Dem III Th, AgEng 49, Smith
—2, Dem IV Th, AgEng 49, Smith

12A **Machinery Lab** (1 cr; prereq 12 or ¶)
VII-VIII Th, AgEng 49, Smith

14 Farm Buildings (3 cr; prereq 23)
II MWF, AgEng 105

42 **Surveying** (4 cr; prereq 3, Math T)
Lect VI TTh, AgEng 109, Manson
—1, Lab VII-IX TTh, AgEng 103, Manson
—2, Lab VII-IX MW, AgEng 103, Manson

45 **Engines, Tractors** (3 cr; prereq 23)
Lect VI MW, AgEng 109
—1, Dem VI F, AgEng 49
—2, Dem VII F, AgEng 49

45A **Engines, Tractors Lab** (1 cr; prereq 45 or ¶)
VIII-X M, AgEng 49

114 Probs: Farm Buildings (2-4 cr; prereq 3, 7, 14) Pomroy

125 Topics: Agricultural Physics (3 cr; prereq Phys 50 or inte calc, 25) Hustrulid

134 Soil, Water Engineering Design Procedures (3 cr; prereq 42 or ‡, 115)
Lect VI M, AgEng 16, Allred, Larson, Manson
Lab VII-IX M, VI-VIII W, AgEng 16, Allred, Larson, Manson

174 Probs: Soil, Water Mgt (2-4 cr; prereq 84, 115, 134) Allred, Manson

AGRONOMY AND PLANT GENETICS (Agro)

1 **Introduction** (4 cr)
Lect IV MWF, Agr 202, Smith
—1, Lab III-IV T, Agr 104, Smith
—2, Lab VI-VII T, Agr 104, Smith

22 Crop Grading, Identification (3 cr, §122; prereq 1)
VII-IX TTh, Agr 106, Elling

122 Crop Grading, Identification (3 cr, §22, prereq 1 or ‡)
VII-IX TTh, Agr 106, Elling

134 Adv Forage Crops (4 cr; prereq 27 or ‡)
Lect VI MWF, Agr 202, Schmid
Lab VII MWF, Agr 104, Schmid

201 Research: Farm Crops (ar cr; prereq 121, 127)

234 Prins of Plant Breeding II (3 cr; prereq 233 or ‡)
II MWF, Agr 202, Stuthman

241 Research: Plant Genetics (ar cr)

245 Topics: Plant Breeding (2 cr; prereq 234 or ‡) Rasmusson

253 Methods: Plant Genetics (2 cr; prereq Gen 140)
I TTh, Agr 407, Burnham

ANIMAL HUSBANDRY (AnHu)

1 Introduction (4 cr)
II MTWThF, PetH 110, Goodrich

40 Horse Production (3 cr; prereq 36 or ‡)
VI-VII TTh, LsPav 100, Jordan

54 Livestock Judging (3 cr; prereq 21, 52 or ‡)
VI-VII MWF, LsPav 100, Christians, Jordan

65 Beef Cattle Production (2 or 3 cr, §165; prereq 37, 52 or ‡)
VIII MWF, PetH 110, Meiske

66 Intro to Animal Nutrition (3 cr, §166; prereq 37, BioC 52 rec or ‡)
VII MWF, MSh 102, Smith

71 Feeds, Feeding (3 cr; prereq vet med student or ‡)
VI-VII M, VII-VIII W, LsPav 203, Hanson

160 Animal Breeding II (3 cr; prereq 52)
III MWF, PetH 108, Boylan, Rempel

165 Beef Cattle Production (3 cr; prereq 37, 52 or ‡)
VIII MWF, PetH 110, Meiske

166 Intro to Animal Nutrition (3 cr, §66; prereq 37, BioC 52 rec or ‡)
VII MWF, MSh 102, Smith

205 Quantitative Inheritance (3 cr; prereq Gen 262)
VI-VII TTh, PetH 108, Boylan

210 Seminar: Animal Husbandry (1 cr)
IX M, PetH 108, Hanson

213 Research: Animal Husbandry (3-9 cr)

223 Protein, Amino Acid Nutrition (3 cr; prereq BioC 52 or 152 or ‡...BioC 143 rec)
VI MWF, PetH 108, Melliere

226 Ruminant Nutrition (3 cr; prereq 52 or 152 or ‡...MicB 121, 223 rec)
VII MWF, PetH 108, Meiske

DAIRY HUSBANDRY (DyHu)

19 Elem Dairy Cattle Mgt (1 cr)
VI-VIII Th, HH 9, Otterby

30 Anatomical Evaluation of Dairy Cattle (2 cr)
VI-VII TTh, HH 100, Otterby

51 Adv Dairy Cattle Judging (1 cr; prereq 30)
VI-VIII F, HH 9, Miller

123 Dairy Farm Mgt (3 cr)
VI-VII TTh, HH 210, Williams

149 Reproduction, Artificial Insemination (3 cr, §49; prereq grad or ‡)
VI-VIII TTh, HH 9, Graham

199 Special Probs (1-3 cr; prereq ‡)

202 Research: Dairy Production (ar cr)

216 Seminar (1 cr) Cole

220 Lactation (3 cr; prereq 121 or ‡)
VI-VII TTh, HH 120, Hunter

223 Protein, Amino Acid Nutrition (3 cr; prereq BioC 52 or ‡...BioC 143)
VI MWF, PetH 108, Melliere

226 Ruminant Nutrition (3 cr; prereq BioC 52 or ‡...MicB 121, 223 rec)
VII MWF, PetH 108, Meiske

FOOD SCIENCE AND INDUSTRIES (FScI)

20 Intro Microbiology (4 cr; prereq 3rd qtr fr, ‡)
Lect VI MF, DI 15, Olson
Lab VI-VII W, DI 15, 211, Olson

101 Prin of Dairy Processing I (3 or 5 cr; prereq 50, 51, 52)
Lect IV MWF, DI 255, Morris, Thomas
Lab VI-VIII MW, DI 150, 155, Morris, Thomas

104 Food Packaging (3 cr; prereq Phys 2 or 5)
Lect VI-VII T, DI 255, Cage
Lab VIII-IX T, DI 150, Cage

106 Supervised Industry Practices (3 cr; prereq 15 cr FScI) Thomas

107 Quality Control Procedures (3 cr; prereq sr, 50, 51)
I-III TTh, DI 155, 218, Jezeski, Manning

170 Special Probs: Food Manufacturing (1-3 cr; prereq sr or ‡) Coulter, Morris, Thomas

180 Special Probs: Dairy, Food Microbiology (1-3 cr; prereq sr or ‡) Jezeski, Olson

181 Adv Dairy, Food Microbiology (3 cr; prereq sr, 50, 101 or 102)
II-III MWF, DI 218, Jezeski

205 General Seminar (1 cr)

ENTOMOLOGY, FISHERIES, AND WILDLIFE (Ent)

1 **Insect Life** (4 cr)
Lect IV MWF, CofH 307, Hodson
Lab VI-VIII T, CofH 302

50 Economic Entomology (5 cr; prereq 1 or Biol 2)
Lect VI MWF, CofH 302, Peterson
Lab VII-IX WF, CofH 302

67 Forest Wildlife Mgt (2 cr; prereq 64) Gullion, Tester

74 **Intro Entomology** (5 cr; prereq Biol 2)
Lect VII MWF, Z 313, Price
—1, Lab V-VI MWF, Z 201, Price
—2, Lab VIII-IX MWF, Z 201

105 Basic Entomology or Fishery Biology or Wildlife Biology (ar cr; prereq △)

127 Insect Metabolism, Coordination (5 cr, §Zool 127; prereq 126, ‡...MdBc 101 or BioC 106 rec)
Lect I-II T, I Th, CofH 11, Richards
Lab III-V T, II-IV Th

130 Prin of Systematic Entomology (2 cr; prereq 15 cr ent or zool, ‡)
V MW, CofH 307, Cook

131 Adv Insect Taxonomy I (3 cr; prereq 74)
Lect I Th, CofH 302, Price
Lab II-III Th, I-IV S, CofH 302

165 Techniques of Fishery Biology (3 cr; prereq 65, 119, 121 or ‡)
Lect VI-VII TTh, LsPav 203, Waters
Lab VIII TTh, CofH 20

166 Techniques of Wildlife Biology (3 cr; prereq 65, 77, Zool 76, Bot 50 or ‡)
Lect V TTh, CofH 307, Beer, lab ar

195 Adv Work in Entomology or Fishery Biology or Wildlife Biology (ar cr; prereq ‡)

200 Seminar (1 cr)

202 Insect Ecology (3 cr; prereq 118 or ‡)
Lect VI TTh, CofH 307, Chiang
Lab VII-VIII TTh, CofH 15

208 Integrated Control (3 cr; prereq 74, ‡)
IV MWF, CofH 301, Radcliffe

242 Research (ar cr)

251 Fishery Habitats, Development (3 cr; prereq 118, 165, Biom 100 or ‡)
Lect VI-VII MW, DinC 154, Waters
Lab VIII MW, CofH 20

266 Research: Fishery Biology (ar cr) Smith, Waters

279 Research: Wildlife Biology (ar cr) Beer, Marshall, Tester

FORESTRY (For)

10 **Farm Forestry** (3 cr; prereq not open to forestry resources dev, science maj)
Lect IV TTh, GH 202, Scholten
—1, Lab VI-VIII T, GH 202
—2, Lab VI-VIII Th, GH 202

60 Forest Engineering (1 cr) Miles (Given at Cloquet)

82 Wood Preservation (3 cr; prereq 74, organic chem)
Lect III TTh, FP 25, Kaufert, lab ar

86 Wood Fiber, Particle Products (3 cr; prereq 74, 85)
Lect VI TTh, FP 25, Gertjejansen, lab ar

87 Building Materials Merchandising (3 cr; prereq AgEc 3)
Lect VIII TTh, FP 26, Thompson, lab ar

105 Range Mgt (2 cr; prereq 53 or ‡ for nonforestry maj, Biol 2)
VII TTh, GH 211, Meyer

125 Silviculture I (2 cr; prereq 54) B Brown, P Smith (Given at Cloquet)

128 Silviculture II (4 cr; prereq ¶125) B Brown, P Smith (Given at Cloquet)

129 Regional Silviculture (3 cr; prereq 128 or ‡)
III MWF, GH 211, Hansen

133 Forest Mgmt, Utilization (4 cr; prereq 100, AgEc 3) B Brown, Haygreen, Irving, Neetzel (Given at Cloquet)
134 Forest Inventory, Photographic Interpretation (4 cr; prereq 111) John, Meyer (Given at Cloquet)
136 Adv Forest Economics (3 cr; prereq 123 or ♯)
VI T, VI-VII Th, GH 14, Skok
139 Timber Mgt (3 cr; prereq 111, 123, 125, 133 or ♯)
IV MWF, GH 211, Hughes
143 Mgt of Recreational Lands (3 cr)
I MWF, GH 211, Frissell, Merriam
146 Adv Forest Aerial Photogrammetry (3 cr; prereq sr, 109 or ♯) Meyer
147 Forest Admin (3 cr; prereq 123, 133 or ♯)
III Th, IV TTh, GH 211, Irving
176 Design of Wood Structures (4 cr; prereq 79 or ♯)
Lect VII TTh, FP 26, Haygreen
Lab VI-VIII MF, FP 25
177 Wood Chemistry (3 cr; prereq 74, organ chem)
III MWF, FP 25, Hossfeld
178 Woody Tissue Microtechnique (2 cr; prereq 74 or ♯)
II-IV TTh, FP 215, Hossfeld
182 Adv Wood Preservation (3 cr; prereq 82) Kaufert
184 Adv Wood Chemistry (2 cr; prereq 177, AnCh 57)
IV-IX W, FP 203, Hossfeld
186 Mechanical Behavior of Wood (3 cr; prereq 79 or ♯) Haygreen
198 Senior Topics (ar cr)
200 Research Probs: Silviculture (ar cr) Bakuzis, B Brown, Hansen
203 Research Probs: Forest Mgt (ar cr) Hughes, Irving, Meyer, Winsness
205 Research Probs: Forest Economics (ar cr) Hughes, Skok
207 Research Probs: Forest Products Engineering (ar cr) Erickson, Gertjejansen, Haygreen, Hossfeld, Kaufert
213 Research Probs: Forest Utilization (ar cr) Haygreen, Hossfeld, Kaufert, Thompson
215 Research Probs: Forest-Tree Physiology (ar cr) Sucoff
218 Research Probs: Forest Measurements, Photogrammetry (ar cr) John, Meyer
219 Research Probs: Forest Recreation (ar cr) Hansen, Hughes, Merriam, Skok
220 Probs: Forest-Tree Genetics (ar cr) Pauley
221 Probs: Forest Influences (ar cr) Sucoff
222 Probs: Forest Policy (ar cr) Hughes, Irving, Skok, Winsness
230 Forest Synecology (3 cr)
I MWF, GH 202, Bakuzis

HOME ECONOMICS (HE)

1 Clothing Selection (3 cr, §GC 3C, no seniors)
III MWF, McNH 227, Grindereng
3 Clothing Construction I (3 cr; prereq 1)
—1, II-IV TTh, McNH 327, Williams
—2, II-IV TTh, McNH 328
4 Clothing Construction II (3 cr; prereq soph, 3)
III-IV MWF, McNH 328, Mahannah
5 Contemporary Society (3 cr)
Lect II TTh, McNH 227, Gallagher
—1, III T, McNH 227
—2, IV T, McNH 227
—3, V T, McNH 227
—4, III Th, McNH 227
—5, IV Th, McNH 227
—6, V Th, McNH 227
19 Visual Presentation (3 cr)
—1, II-IV TTh, McNH 342, Bagley
—2, VI-VIII TTh, McNH 342, Shank
21 Color (3 cr)
—1, II-IV MWF, McNH 342, Nagle
—2, VI-VII MWF, McNH 359, Shank
—3, II-IV TTh, McNH 433, Franklin
—4, VI-VIII TTh, McNH 342, Bagley
23 Design I (3 cr; prereq 21)
II-III MWF, McNH 359, Shank
24A Home Planning, Furnishings I (3 cr; prereq soph)
III MWF, McNH 201, Stoeckeler
24B Home Planning, Furnishings Experiences I (3 cr; prereq 21, 24A or ♯)
—1, II-IV TTh, McNH 359, Goacher
—2, VI-VIII TTh, McNH 360, Franklin
25 Craft Design (3 cr...21, 23 rec)
II-III MWF, McNH 433, Abell
29 Art, Environment (3 cr; prereq soph)
Lect IV MW, McNH 201, Esteros
—1, Lab IV-V F, McNH 359, Esteros
—2, Lab IV-V F, McNH 350, Betsinger
31 Nutrition (3 cr, §30 or GC 3B, not open to HE srs)
II MWF, McNH 227, Doyle
40 Food Preparation (5 cr; prereq 3rd qtr fr, 2 qtrs chem)
—1, Lect II TTh, McNH 48, Asp
Lab III-V TTh, McNH 157, Asp
—2, Lect IV TTh, McNH 48, Lund
Lab III-IV MWF, McNH 157, Lund
—3, Lect VII TTh, McNH 48, Knuth
Lab VI-VII MWF, McNH 157, Knuth

41 Food Mgt, Marketing (5 cr; prereq soph, 31, 40)
—1, Lect III TW, McNH 150, Trammell
Lab III-IV M, III-V Th, McNH 150, 152, 156
—2, Lect VI WTh, McNH 150, Lund
Lab VI-VII M, VI-VIII T, McNH 150, 152, 156
Conf VII Th, McNH 150

49 Household Equipment (3 cr; prereq soph, Phys 1 or ♯)
Lect IV-V M, McNH 227, Humphries
—1, Lab IV-V W, McNH 128
—2, Lab IV-V F, McNH 128
—3, Lab V-VI Th, McNH 128

50 Textiles (4 cr; prereq 3rd qtr soph, GeCh 5 or NSci 2 or ♯)
—1, III-IV MWF, McNH 303, Franzen
—2, I-II MWF, McNH 303, Juffer

52 Home Furnishing Textiles (3 cr; prereq 50)
VI-VIII TTh, McNH 303

58A Field Experiences (3 cr; prereq completion one half prof sequence, ♯, Psy 2)
IX Th and ar, McNH 342

63 Quantity Food Purchasing, Production (5 cr; prereq 41, 3rd qtr soph)
I-V WF, DinC 152, 1 hr ar, Verstraete

69 Administrative Food Service Experience (5 cr; prereq 67) Verstraete

71 Demonstrations (1 cr; prereq 3rd qtr jr, 41)
VI-VIII F, McNH 150, Trammell

74 Community Nutrition (3 cr; prereq jr, 31, 6 cr psy, soc, anth or econ) Moore

76 Nutrition of the Family (3 cr, §170; prereq 31, 40, phsl or hum biol)
II MWF, McNH 48, Ross

85 Home Mgt Principles (3 cr; prereq 40, AgEc 2...41 rec)
VII MWF, McNH 201, Jeary

86 Home Mgt Lab (4 cr; prereq 85 or ¶... 41 rec)
—1, I MTWThFS, Home Mgt House, Jeary
—2, I MTWThFS, Home Mgt House, Jeary

86B Experimental House (4 cr; prereq jr, ♯, △)
I MWF, II-IV S, Home Mgt House, Betsinger

87 Family Relationships (3 cr; prereq Psy 2, Soc 1 or 1A)
2:15-3:30 pm TTh, McNH 201

88 Intro to Food Quality Evaluation (3 cr; prereq 40, 73, BioC 1A)
Lect IV T, II Th, McNH 44, Noble
Lab II-III T, McNH 56

99 Senior Seminar (3 cr; prereq sr, 15 or ♯)
Lect I Th, McNH 227
—1, III-IV Th
—2, VI-VII Th
—3, IX-X Th

116 Family Clothing Probs (3 cr; prereq 50, AgEc 2 or Econ 2, Soc 1 or 1A, Psy 2 or ♯)
VI MWF, McNH 201, Williams

120A Seminar: Related Art (1 cr; prereq sr rel art)
IX W, McNH 342, Esteros

122B Interior Design Probs (3 cr; prereq 122A, 121)
II-IV TTh, McNH 360, Ludwig

126A Probs: Related Art (3 cr; prereq cons div chrm) Esteros

127 Purchasing Home Furnishings (3 cr; prereq 24A, 50)
—1, I-II MWF, McNH 360, Myren
—2, IV-V MWF, McNH 360, Myren

128 History of Costume (3 cr; prereq 120)
VIII MWF, McNH 342, Ludwig

129 Design II (3 cr; prereq 21, 23 or ♯)
VI-VII MWF, McNH 433, Abell

131 Lab Probs: Household Equipment (3 cr; prereq 49, 8 cr foods, clothing, textiles or ♯)
III-IV TTh, McNH 124, Ehrenkranz

142 Experimental Cookery (3 cr; prereq 73, BioC 1A)
Lect VI TTh, McNH 48, Maruyama
Lab VII-VIII TTh, McNH 56

146 Special Food Prob (3 cr; prereq sr, 142)
Lect VI MW, McNH 48, Trammell
Lab VII-VIII MW, McNH 56

173 Diet Therapy (4 cr; prereq 170...35 rec)
11:15-12:30 TTh, DinC 154, Verstraete

174 Topics: Nutrition (1 cr; prereq 170)
V W, McNH 48, Doyle

176 Adv Nutrition (4 cr; prereq 35 or ¶, GeCh 6, AnCh 57)
VI-VII MW, McNH 227, Swan

178 Clinical Probs in Nutrition (2-4 cr; prereq 35 or ¶, 170)
—1, Lab VI-VIII T, U Hosp (**Mpls Campus**) 1 hr ar, Ross
—2, Lab VI-VIII Th, U Hosp (**Mpls Campus**) 1 hr ar, Ross

186 Family Economics (3 cr; prereq 85 or ♯)
4:15-5:30 pm TTh, McNH 44, Burk

187 Readings: Family Relationships (1-3 cr, 3 cr max; prereq ♯)

188 **Evaluation of Food Quality** (3 cr; prereq 142, BioC 1A, Biom 90 or 100, GeCh 6, AnCh 57)
Lect IV T, II Th, McNH 44, Noble
Lab II-III T, McNH 56

189C **Construction, Use Characteristics of Household Appliances** (3 cr; prereq 189A-B) Ehrenkranz

190 **Family Relationships Colloquium** (2 cr, 4 cr max; prereq 185 or 15 cr child dev, psy and/or soc)
7:30-9:30 pm W, McNH 222, Bender

201 Readings: Textiles, Clothing (1-3 cr; prereq 102, 115 or 116, ‡) Davison

208 Microanalysis of Textile Fibers (ar cr; prereq bot, zool, adv textiles, ‡)
I-III TTh, McNH 304, Davison

220 Readings: Related Art (1-3 cr; prereq ‡) Esteros

221 Probs: Textile Design (1-3 cr; prereq 121 or ‡)

227 Probs: Home Planning, Furnishing (1-3 cr; prereq 180 or ‡..122B rec)

272 Human Metabolic Studies in Health, Disease (4 cr; prereq 173, ‡) Given at Rochester

273 Adv Diet Therapy (4 cr; prereq 173 or ‡) Given at Rochester

279 Seminar: Nutrition (1 cr; prereq ‡)
IX W, McNH 201, Sirny

290 Seminar: Home Mgt, Family Relationships (1-2 cr; prereq 185, stat)
V T, McNH 222, Tallman

295 Problems (1-5 cr; prereq ‡) Brown, Burk, Davison, Doyle, Ehrenkranz, Ford, Morse, Noble, Sirny, Swan, Tallman

296 Problems (1-5 cr; prereq 295) Brown, Burk, Davison, Doyle, Ehrenkranz, Ford, Morse, Noble, Sirny, Swan, Tallman

HORTICULTURAL SCIENCE (Hort)

1 **Gen Horticulture** (4 cr)
Lect II MWF, Hr 102, Turnquist
—1, Lab VII-IX M, Hr 8
—2, Lab VII-IX T

10 **Ornamental Horticulture** (3 cr)
IV MWF, Hr 8, Phillips

16 Greenhouse Mgt (3 cr; prereq Biol 2)
Lect IV TTh, Hr 8, Widmer
Lab VI-VIII Th

22 Woody Plant Materials II (3 cr)
VII-IX TTh, Hr 106, Mullin

23 Herbaceous Plant Materials (3 cr, §51; prereq Biol 2 or 6 cr bot)
Lect I TTh, Hr 8, Pellett
Lab VII-IX F, Hr 8

32 Vegetable Production (3 cr; prereq Biol 2 or 6 cr bot)
I MWF, Hr 8, Davis

61 Prin of Planting Composition (3 cr; prereq 21, 22, 24, 60 or ‡)
VII-IX WF, Hr 302, Phillips

62 Special Probs: Landscape Design, Composition (2-4 cr; prereq sr, 60 or 61 or ‡) Phillips

76 Landscape Construction, Maintenance (3 cr)
III-V TTh, Hr 106, White

78 Retail Flower Shop Management (3 cr; prereq 77, ‡)
Lect III M, Hr 8
Lab VI-VIII W, Hr 8

105 Frozen Food Problems (2-4 cr; prereq 104 or ‡) Munson

114 Sr Design Thesis (5 cr; prereq 113) White

192 Special Probs (1-4 cr; prereq ‡) Snyder

251 Adv Probs in Horticultural Crop Breeding (3-9 cr; prereq ‡)

252 Adv Probs in Physiology of Horticultural Crops (3-9 cr; prereq ‡)

INFORMATION AND AGRICULTURAL JOURNALISM (AgJo)

53 Publicity (3 cr; prereq rhet comm req)
I MWF, AgBot 107, Swanson, others

134 Rural Communication Media, Behavior (3 cr; prereq 53, Psy 1-2, Soc 14 or ‡)
VIII-IX TTh, DinC 154, Swanson

PLANT PATHOLOGY AND PHYSIOLOGY (PlPa)

1 Intro Plant Pathology (5 cr, §51; prereq soph, 9 cr plant sci incl 6 cr bot or Biol 2)
Lect VIII MWF, PP 103, Moore
Lab IX-X MWF, PP 105, Moore

90 Research (ar cr; prereq 1, 51, 56 or ‡) French, Wilcoxson

91 Research Probs (ar cr; prereq 21 or ‡) Sudia

101 Nematodes in Relation to Plant Diseases (3 cr; prereq 1, 51 or 120, 6 cr zool or Biol 2 or ♯)
Lect I MWF, PP 103, MacDonald
Lab II-III MWF, MacDonald

107 Mycology (3 cr; prereq 1 or 51 or 105)
Lect VI TTh, PP 103, Anderson
Lab VII-VIII TTh, PP 105, Anderson

112 Plant Pathology (2 cr; prereq 105, 120)
II TTh, PP 103, Kommedahl

119 Plant Disease Control (3 cr; prereq 1 or 51 or 120)
Lect III TTh, PP 103, Wilcoxson
Lab IV-V TTh, PP 106, Wilcoxson

120 Intro Plant Pathology for Adv Students (3 cr, §1 or 51; prereq 14 cr plant sci or ♯)
Lect VIII MWF, PP 103, Moore
Lab IX-X MWF, PP 105, Moore

137 Animal Diseases, Poisonous Plants (3 cr, §VMC 137; prereq ♯)
VI MW, VetC 125, Kommedahl

167 Physiology of the Plant Cell (3 cr; prereq plant physiology, anat, inorganic, organic chem, or biochem)
VI MWF, AgBot 107, Stadelmann

170 Plant Sciences, World Food Supply Probs (2 cr; prereq sr or ♯)
VII-VIII Th, StPaul Lib Penthouse Sem Rm, Calpouzos, others

193 Scientific Research Method (3 cr; prereq 25 cr biological sci, Biology Institute students only) Olson

201 Research: Nematology (ar cr; prereq 101 or ♯) Kernkamp, others

203 Research (ar cr) Kernkamp, others

207 Probs: Mycology (ar cr; prereq 105, 106, 107) Anderson, Christensen

213 Seminar (1 cr)
IX-X T, PP 401, Kernkamp, others

217 Ecology of Plant Pathogens (3 cr; prereq 1 or 51 or 120, 105)
IV MWF, PP 103, Wilcoxson

251 Seminar: Plant Physiology (1 cr)
IX Th, AgBot 107, Sudia

254 Research Probs: Plant Physiology (ar cr) Linck, Stadelmann, Sudia

POULTRY SCIENCE (Poul)

1 Poultry Production (3 cr)
VI-VII TTh, PetH 110, Snetsinger

55 Problems (1-3 cr; prereq ♯)

61 Industry Feeding, Production Practices (2 cr; prereq Vet Med sr or △)

153 Poultry Nutrition (3 cr; prereq 1, BioC 51 or ♯)
IV MWF, PetH 108, Waibel

214 Research (ar cr; prereq ♯)

215 Research: Poultry Nutrition (ar cr; prereq 9 cr biochem) Snetsinger, Waibel

216 Research: Avian Genetics, Cytogenetics (ar cr; prereq 9 cr gen or ♯) Shoffner

217 Seminar (1 cr; prereq ♯)

218 Research: Poultry Products (ar cr; prereq ♯)

219 Research: Avian Physiology (ar cr; prereq ♯) Phillips

223 Protein, Amino Acid Nutrition (3 cr; prereq BioC 52 or 152 or ♯...BioC 143 rec)
VI MWF, PetH 108, Melliere

RHETORIC (Rhet)

1 Communication I (3 cr)
I MWF, McNH 44, White

2 Communication II (3 cr; prereq 1)
—1, I MWF, AgEng 307, Thurston, others
Lect I M, PetH 108
—2, I WF, PetH 108
—3, I TTh, PetH 108
—4, VI MWF, DI 118
—5, I MWF, McNH 48

3 Communication III (3 cr; prereq 1)
Lect I M, GorC 15
—1, I WF, GorC 15
—2, I TTh, GorC 15
Lect I M, McNH 201
—3, I WF, McNH 201
—4, I TTh, McNH 201
Lect I M, HH 100
—5, I WF, HH 100
—6, I TTh, HH 100
—7, I MWF, GorC 12
—8, I MWF, DI 255
Lect II M, DI 118
—9, II WF, DI 118
—10, II TTh, DI 118
Lect III M, DI 118
—11, III WF, DI 118
—12, III TTh, DI 118
Lect IV M, DI 118
—13, IV WF, DI 118
—14, IV TTh, DI 118
Lect V M, DI 118
—15, V WF, DI 118
—16, V TTh, DI 118
—17, VI MWF, McNH 350
—18, VII MWF, DI 255

4 Communication IV (3 cr; prereq 1)
—1, I MWF, AgEng 315, Forston
—2, II MWF, AgEng 315, King
—3, 8:15-9:30 TTh, AgEng 315, King
—4, 12:45-2:00 TTh, AgEng 315, Forston

22 Public Speaking (3 cr; prereq rhet comm req)
—1, II MWF, AgEng 307, Felien
—2, III MWF, AgEng 307, White
—3, III MWF, AgEng 108, Nelson
—4, IV MWF, AgEng 307, King
—5, IV MWF, AgEng 108, Garvin
—6, V MWF, AgEng 108, Garvin
—7, VI MWF, AgEng 307, Forston

25 Parliamentary Procedure (1 cr)
IV TTh, AgBot 107, Miller

26 Original Writing (3 cr; prereq rhet comm req)
9:45-11:00 TTh, AgEng 307, Thurston

31 Intro to Literature (3 cr; prereq rhet comm req)
III MWF, AgEng 105, Savage

32 Novel, Short Story (3 cr; prereq rhet comm req)
V MWF, AgEng 315, Horberg

33 American Literature (3 cr; prereq rhet comm req)
9:45-11:00 TTh, AgEng 108, McBride

34 Literature of the Theatre (3 cr; prereq rhet comm req)
3:45-5:00 TTh, AgEng 315, Savage

41 Humanities: Enlightenment (3 cr)
—1, II MWF, NorH 100, Marchand
—2, III MWF, AgEng 315, J Brown
—3, IV MWF, AgEng 315, Davenport

42 Humanities: The Industrial Revolution (3 cr; prereq 41)
—1, III MWF, NorH 100, Marchand
—2, 9:45-11:00 TTh, NorH 100, Marchand

43 Humanities: Age of Darwin (3 cr; prereq 41)
—1, I MWF, NorH 100, Drake
—2, IV MWF, NorH 100, Drake
—3, 8:15-9:30 TTh, NorH 100, Price

47 Efficient Reading (3 cr; prereq rhet comm req, Arts students see Arts bulletin)
—1, VI MWF, AgEng 315, J Brown
—2, VII MWF, AgEng 315, J Brown

51 Exposition (3 cr; prereq jr)
—1, IV MWF, AgEng 105, Wright
—2, V MWF, AgEng 307, Brock
—3, VI MWF, DI 255, Horberg
—4, VII MWF, AgEng 307, Savage
—5, 9:45-11:00 TTh, PetH 108, Lair

54 Adv Public Speaking (3 cr; prereq 22)
II MWF, DinC 154, Garvin

56 Discussion Methods (3 cr; prereq rhet comm req)
—1, V MWF, AgEng 105, McBride
—2, VII MWF, AgEng 105, Geier

60 Contemporary Literature (3 cr; prereq rhet comm req)
II MWF, HH 210, Savage

63 Humanities: Nationalism in American Thought, Experience (3 cr)
III MWF, AgEng 109, Price

91 American Speech for Foreign Students (no cr)
IX MWF, AgEng 307, White

141 Humanities Seminar: Individual, Society (3 cr; prereq Rhet 41, 42, 43 or ‡)
3:15-4:00 Th, AgEng 221, Drake

147 Adult Reading Programs (2 cr)
VIII F, AgEng 224, J Brown

151 Report, Thesis Writing (3 cr; prereq 51 or ‡)
—1, VIII M, VIII-IX W, AgEng 315, Thurston
—2, 3:45-5:00 TTh, FolH 204, Thurston

251 Seminar: Listening Comprehension (2 cr; prereq undergrad spch maj, ‡)
3:15-5:00 Th, AgEng 224, Nichols

SOIL SCIENCE (Soil)

53 Soil, Water Mgt, Conservation (3 cr; prereq 18 or 19)
9:45-11:00 TTh, So 115, MacGregor

55 Soil Geography (4 cr; prereq 18 or 19)
Lect 8:15-9:30 TTh, So 115, Farnham
Lab VI-VIII Th, So 132

103 Soil, Water Mgt, Conservation (2 cr; prereq 18 or 19 or 119)
9:45-11:00 TTh, So 115, MacGregor

105 Soil Geography (3 cr; prereq 18 or 19 or 119)
Lect 8:15-9:30 TTh, So 115, Farnham
Lab VI-VIII Th, So 132, Farnham

127 Soil Microbiology (4 cr, §MicB 103; prereq MicB 53, 8 cr organ chem, ‡)
Lect II MWF, So 115, Schmidt
Lab III-IV MF, So 120

130 Problems (1-5 cr; prereq 18 or 19 or 119)

133 Microclimatology (3 cr; prereq Math 10, MeAg 23)
VIII-IX T, VIII Th, So 115, Baker

UNATTACHED COURSES

Biometrics (Biom)

90 Statistics (3 cr; prereq coll alg or ‡)
II MWF, HH 100, Keenan

181 Experimental Design (3 cr; prereq 101)
9:45-11:00 TTh, GorC 15

Orientation (Orie)

1 College Orientation Lectures (1 cr)
I T, AgBot 107, Goodding

COLLEGE OF BIOLOGICAL SCIENCES

BIOCHEMISTRY (BioC)

1 Elementary Biochemistry I (5 cr, §OrCh 41 or 61; prereq GeCh 5)
II MTWThF, GorC 10, Liener

52 Intro to Biochemistry (4 cr; prereq 51)
Lect I MWF, McNH 227, Schultze
—1, Lab II-IV T, SnH 122, 128, Lovrien
—2, Lab VI-VIII F, SnH 122, 128, Lovrien

143 Metabolic Reactions (3 cr; prereq 142, ♯)
I MWF, SnH 23, Gander

147 Adv Biochemical Techniques (3 cr; prereq 146 or MdBc 146, ¶143, ♯)
—1, VI-VIII MT, SnH 122, 128, SnH 23, Chapman, Warner
—2, VI-VIII WTh, SnH 122, 128, SnH 23, Warner

152 Intro to Biochemistry (4 cr; prereq 151)
Lect I MWF, McNH 227, Schultze
—1, Lab II-IV T, SnH 122, 128, Lovrien
—2, Lab VI-VIII F, SnH 122, 128, Lovrien

223 Adv Enzyme Chemistry (2 cr; prereq 143 or MdBc 144)
III MW, SnH 23, Kirkwood, Liener

297 Special Topics: Metabolism of Nucleic Acids (3 cr; prereq 143)
I TThS, SnH 23, Warner

BIOLOGY (Biol)

1 Gen Biol (5 cr, †1-2)
—1, Lect I MWF, AE 211, **CCTV**, Pratt, Rosenberg
—2, Lect I MWF, AE 215, **CCTV**
—3, Lect I MWF, AE 313, **CCTV**
—4, Lect I MWF, AE 317, **CCTV**
—5, Lect I MWF, AE 319, **CCTV**
—6, Lect I MWF, AE 321, **CCTV**
—7, Lect I MWF, AE 327, **CCTV**
—8, Lect I MWF, VH 303, **CCTV**
—9, Lect I MWF, AgEng 108 **(StP Campus) CCTV**
—10, Lect I MWF, AgEng 109 **(StP Campus) CCTV**
—11, Lect III MWF, ForH 115, **CCTV**
—12, Lect III MWF, Owre 113, **CCTV**
—13, Lect III MWF, VH 303, **CCTV**
—14, Lect III MWF, VH 309, **CCTV**
—15, Lect IX MWF, AE 211, **CCTV**
—16, Lect IX MWF, AE 215, **CCTV**
—17, Lect IX MWF, AE 313, **CCTV**
—18, Lect IX MWF, AE 317, **CCTV**
—19, Lect IX MWF, AE 319, **CCTV**
—20, Lect IX MWF, AE 321, **CCTV**
—21, Lect IX MWF, AE 327, **CCTV**
—22, Lect IX MWF, VH 303, **CCTV**
—23, Lect IX MWF, AgEng 108 **(StP Campus) CCTV**
—24, Lect IX MWF, AgEng 109 **(StP Campus) CCTV**
—1, Lab I-II TTh, Z 107
—2, Lab III-IV TTh, Z 107
—3, Lab VI-VII TTh, Z 107
—4, Lab VIII-IX TTh, Z 107
—5, Lab I-II WF, Z 107
—6, Lab III-IV WF, Z 107
—7, Lab VI-VII WF, Z 107
—8, Lab VIII-IX WF, Z 107
—9, Lab I-II TTh, AgEng 303B **(StP Campus)**
—10, Lab III-IV TTh, AgEng 303B **(StP Campus)**
—11, Lab VI-VII TTh, AgEng 303B **(StP Campus)**
—12, Lab VII-IX TTh, AgEng 303B **(StP Campus)**
—13, Lab I-II WF, AgEng 303B **(StP Campus)**
—14, Lab III-IV WF, AgEng 303B **(StP Campus)**
—15, Lab VI-VII WF, AgEng 303B **(StP Campus)**

1A Gen Biol (3 cr, †1A-2A)
—1, Lect I MWF, VH 306, **CCTV**
—2, Lect I MWF, AgEng 108 **(StP Campus) CCTV**
—3, Lect III MWF, ForH 115, **CCTV**
—4, Lect IX MWF, VH 306, **CCTV**
—5, Lect IX MWF, AgEng 108 **(StP Campus) CCTV**
—1, Dem I-II M, Z 101A
—2, Dem III-IV M, Z 101A
—3, Dem V-VI M, Z 101A
—4, Dem VII-VIII M, Z 101A

2 Gen Biol (5 cr, †1-2; prereq 1)
—1, Lect II MWF, Arch 60, **CCTV**, Kerr, Olson
—2, Lect II MWF, Arch 15, **CCTV**
—3, Lect II MWF, VH 303, **CCTV**
—4, Lect II MWF, VH 307, **CCTV**
—5, Lect II MWF, VH 309, **CCTV**
—6, Lect II MWF, ForH 160, **CCTV**
—7, Lect II MWF, AgEng 108 **(StP Campus) CCTV**
—8, Lect II MWF, AgEng 109 **(StP Campus) CCTV**
—9, Lect VIII MWF, AE 313, **CCTV**
—10, Lect VIII MWF, AE 319, **CCTV**

—11, Lect VIII MWF, AE 321, CCTV
—12, Lect VIII MWF, AE 327, CCTV
—13, Lect VIII MWF, VH 303, CCTV
—14, Lect VIII MWF, VH 307, CCTV
—15, Lect VIII MWF, VH 309, CCTV
—16, Lect VIII MWF, ForH 150, CCTV
—17, Lect VIII MWF, AgEng 108 (StP Campus) CCTV
—18, Lect VIII MWF, AgEng 109 (StP Campus) CCTV
—1, Lab I-II TTh, Z 101B
—2, Lab III-IV TTh, Z 101B
—3, Lab VI-VII TTh, Z 101B
—4, Lab VIII-IX TTh, Z 101B
—5, Lab I-II WF, Z 101B
—6, Lab III-IV WF, Z 101B
—7, Lab VI-VII WF, Z 101B
—8, Lab VIII-IX WF, Z 101B
—9, Lab I-II TTh, AgEng 303E (StP Campus)
—10, Lab III-IV TTh, AgEng 303E (StP Campus)
—11, Lab VI-VII TTh, AgEng 303E (StP Campus)
—12, Lab VIII-IX TTh, AgEng 303E (StP Campus)
—13, Lab I-II WF, AgEng 303E (StP Campus)

2A Gen Biol (4 cr, †1A-2A; prereq 1A)
—1, Lect II MWF, VH 306, CCTV, Kerr, Olson
—2, Lect II MWF, AgEng 108 (StP Campus) CCTV
—3, Lect VIII MWF, VH 306, CCTV
—4, Lect VIII MWF, AgEng 108 (StP Campus) CCTV
—1, Dem I-II M, Z 101D
—2, Dem III-IV M, Z 101D
—3, Dem V-VI M, Z 101D
—4, Dem VII-VIII M, Z 101D

2H Honors Course: Gen Biology Lab (5 cr; prereq grade of B in 1)
—1, Lect II MWF, Arch 60, CCTV
—2, Lect II MWF, AgEng 108 (StP Campus) CCTV
Lab VIII-IX WF, Z 101C

49 Principles (3 cr, §1, 1A, 2, 2A, 2H; prereq GeCh 5 or 25)
II MWF, Z 211, Soulen

50 Animal Biology (5 cr; prereq 49 or 2, GeCh 6)
Lect III MWF, JacH 178
—1, Lab VI-IX T, Z 402
—2, Lab VI-IX Th, Z 402

60 Biochemistry (4 cr; prereq 2 or 49, OrCh 62)
VI MTWF, Z 211, Dagley

61 Lab: Biochemistry (1 cr; prereq 60 or ¶)
VI-VIII Th, SnH 216, Chapman

71 Genetics Laboratory (2 cr; prereq 70 or Gen 66 or ¶)
—1, VII-VIII T, Z 16
—2, VII-VIII W, Z 16
—3, VII-VIII Th, Z 16

80 Ecology (3 cr; prereq 50, 51 or 5 up div cr bot, zool)
VIII MWF, Bo B6

81 Lab: Ecology (1 cr; prereq 80 or ¶)
Tester

82 Field Biology (1 cr; prereq 50, 51 or 5 cr bot or zool)
I-IV S, GorC 12, Marshall

101 Basic Biology (1-3 cr; prereq △)

110 Gen Physiology (3 cr; prereq 15 cr biol sci, OrCh 62, Phys 6 or 9)
I MWF, Z 313, Benolken

111 Laboratory: Gen Physiology (2 cr; prereq 110 or ¶)
—1, I T, Z 323, VI-IX T, Z 18
—2, I Th, Z 323, VI-IX Th, Z 18

115 Biochemical Evolution (3 cr; prereq 60, 61)
VII MWF, AgEng 108 (StP Campus) Jenness, Kirkwood

120 Developmental Biology (3 cr; prereq Gen 66, Biol 110 or ♯)
III MWF, MMA 100

121 Laboratory: Developmental Biology (2 cr; prereq 120 or ¶)

231 Adv Topics: Cell Biology (3 cr; prereq ♯)
I-II TTh, Z 323

299 Research (2-5 cr; prereq ♯)

BOTANY (Bot)

10 Minnesota Plant Life (3 cr)
VI-VII TTh, VIII T, HS W30, 40, Baker

12 Plants Useful to Man (4 cr)
—1, III MWF, HS W30, Lawrence
—2, V MWF, HS W30, Lawrence

52 Taxonomy (3 cr; prereq Biol 2 or 51)
VI-VIII MW, HS W40, Baker

91 Survey of Plant Physiology (3 cr; prereq Biol 2 or 51, GeCh 5 or 25)
VI MWF, HS W30, Linck, Olson

91A Plant Physiology Lab (2 cr; prereq 91 or ¶)
VII-VIII MW, BoG, Linck, Olson

98 Undergraduate Proseminar (1 cr; prereq maj biol sci, ♯)

99 Research Probs (1-5 cr; prereq maj biol sci, ♯)

101 Basic Botany (ar cr; prereq Biol 2, ♯)

115 Flora of Minnesota (4 cr; prereq 52 or ♯)
I-III TTh, HS W40, Ownbey
118 **Gen Cytology** (5 cr; prereq 10 cr bot or biol or zool or elem genetics or ♯)
Lect IV MWF, HS W30, Dahl
—1, Lab II-III MWF, Bo 4
—2, Lab VI-VII MWF, Bo 4
128 Phyletic Paleobotany (3 cr; prereq ♯)
VI-VIII TTh, Bo 3, Hall
139 **Paleoecology** (3 cr; prereq 8 cr geol, Biol 80 or ♯)
I-III TTh, Bo 5, Cushing
141 Survey of Plant Physiology (3 cr; prereq Biol 2 or 51, org chem, phys)
11:00-12:15 TTh, HS W30, Frenkel
141A Plant Physiology Lab (2 cr; prereq 141 or ¶)
VI-IX T, BoG, Frenkel
184 Plant Physiology (3 cr; prereq Biol 2 or 51, OrCh 42 or 62, phys)
8:30-9:45 TTh, Agro 202, Brun
187 **Methods of Plant Analysis** (1-4 cr, §Hort 187; prereq AnCh 57A-B, 8 cr biochem, ♯) Weiser
188 Research Perspectives in Plant Physiology (1-4 cr; prereq ♯) Behrens
297 Special Topics (ar cr; prereq ♯)
298 Seminar (1 cr)
299 Research Probs (ar cr)

GENETICS (Gen)

66 Principles of Genetics (3 cr; prereq Biol 2)
9:45-11:00 TTh, Bo B6, Herman, Merrell
67 **Laboratory: Genetics** (2 cr, §Biol 71; prereq 66 or Biol 70 or ¶)
—1, VII-VIII T, Z 16, Hiatt
—2, VII-VIII W, Z 16, Hiatt
—3, VII-VIII Th, Z 16, Hiatt
68 Human Genetics, Social Affairs (3 cr, §Zool 68, Biol 2)
III MWF, Z 313, Anderson, Reed
101 **Basic Genetics** (ar cr)
140 Interm Genetics I (3 cr; prereq 66, Biol 60)
III MWF, GorC 10, Woodward
175 Human Genetics (3 cr, §Zool 175; prereq 66 or ♯)
VIII MWF, Z 313, Reed
230 Biochemical Genetics (3 cr; prereq 140, 141 or ♯...MicB 110 rec)
VI MWF, GorC 15, Snustad
246 Seminar (1 cr)
4:00-5:00 Th, Agr 408, Rempel
297 Current Topics (ar cr)
298 Seminars (1 cr)
299 Research (ar cr)

ZOOLOGY

Biophysics (BPhy)

138 Seminar: Gen Physiology, Biophysics (ar cr)
157 Biophysics (3 cr; prereq 28 cr between phys, biol, ♯...phys chem, physiol rec) Schmitt
172 Radiation (3 cr; prereq ♯) Loken
204 Research: Biophysics, Radiation Biology (ar cr) Loken
218 Seminar: Radiobiology (1 cr; prereq ♯) Jacobson
223 Research (ar cr; prereq 222)

Zoology (Zool)

65 **Histology** (5 cr; prereq Biol 2 or 50)
Lect 8:15-9:30 TTh, Z 313 (Mpls Campus) Olson
Lab II-IV TTh, Z 201 (Mpls Campus)
71 **Prins of Invertebrate Biology** (5 cr; prereq Biol 2 or 50)
Lect VI MWF, Z 313 (Mpls Campus) Williams
—1, Lab VII-IX WF, Z S3 (Mpls Campus)
—2, Lab VII-IX TTh, Z S3 (Mpls Campus)
—3, Lab II-IV WF, Z S3 (Mpls Campus)
74 **Intro Entomology** (5 cr; prereq Biol 2 or 50)
Lect VII MWF, Z 313 (Mpls Campus) Price
—1, Lab V-VI MWF, Z 201 (Mpls Campus)
—2, Lab VIII-IX MWF, Z 201, (Mpls Campus)
76 **Intro Ornithology** (3 cr; prereq 75)
Lect III TTh, MNH 307 **(Mpls Campus)** Warner
Lab I-II TTh, MNH 307 **(Mpls Campus)**
98 Senior Seminar (1 cr; prereq sr, biol sci maj, ♯)
99 Individual Work in Some Special Discipline (ar cr; prereq Biol 2 or 50, ♯)
101 **Basic Zoology** (ar cr; prereq maj consult adv, others △)
127 Insect Metabolism, Co-ordination (5 cr, §Ent 127; prereq 126, ♯...BioC 106 or MdBc 101 rec)
Lect I-II T, I Th, CofH 11
Lab III-V T, II-IV Th
138 Seminar: Gen Physiology, Biophysics (ar cr) Schmitt

146 Helminthology (3 cr, §Ent 146; prereq 15 cr incl Biol 2 or 50, ♯)
Lect VI TTh, Z 208 **(Mpls Campus)** Wallace
Lab VII-VIII TTh, Z 208 **(Mpls Campus)**

157 Biophysics (3 cr; prereq 28 cr betw phys, biol, ♯...phys chem, physiol rec) Schmitt

165 Adv Cytology (2 cr; prereq 160, ♯)
VI-VII Th, Z 211 **(Mpls Campus)** Luykx

167 Cytology Lab (2 cr; prereq 166)
II-III TTh, Z 201 **(Mpls Campus)** Luykx

202 Insect Ecology (3 cr, §Ent 202; prereq 118 or ♯)
Lect VI TTh, CofH 307, Chiang
Lab VII-VIII TTh, CofH 15

297 Seminar: Research Fields (ar cr)

298 Seminar (no cr)

299 Research (ar cr)

SCHOOL OF BUSINESS ADMINISTRATION

Accounting (Acct)

24 Accounting (3 cr, §55A; prereq 3rd qtr fr)
—1, 11:15-12:30 TTh, ForH 160, **CCTV,** Purdy
—2, 11:15-12:30 TTh, VH 307, **CCTV,** Purdy
—3, 11:15-12:30 TTh, ForH 150, **CCTV,** Purdy
—4, 12:45-2:00 TTh, VH 307, **CCTV,** Purdy
—5, 12:45-2:00 TTh, ForH 150, **CCTV,** Purdy
—6, 12:45-2:00 TTh, ForH 160, **CCTV,** Purdy

25 Accounting (3 cr, §55B; prereq 24)
—1, 11:15-12:30 TTh, VH 303, **CCTV,** Stanley
—2, 11:15-12:30 TTh, VH 306, **CCTV,** Stanley
—3, 12:45-2:00 TTh, VH 303, **CCTV,** Stanley
—4, 12:45-2:00 TTh, VH 306, **CCTV,** Stanley
—5, 12:45-2:00 TTh, VH 309, **CCTV,** Stanley

26 Principles (3 cr, §55A-B; prereq 24)
—1, 8:15-9:30 TTh, VH 303, **CCTV,** Gray
—2, 8:15-9:30 TTh, VH 306, **CCTV,** Gray
—3, 9:45-11:00 TTh, VH 303, **CCTV,** Gray
—4, 9:45-11:00 TTh, VH 306, **CCTV,** Gray
—5, 2:15-3:30 TTh, VH 303, **CCTV,** Gray
—6, 3:45-5:00 MW, ForH 160, **CCTV,** Gray
—7, 3:45-5:00 MW, ForH 115, **CCTV,** Gray
—8, 3:45-5:00 MW, Arch 15, **CCTV,** Gray
—9, 8:15-9:30 TTh, GorC 12 **(StP Campus) CCTV,** Gray

55D Analysis of Financial Statements (3 cr, §105C; prereq 26)
9:45-11:00 MW, CB(W) 255, Simmons

75B Accounting Lab II (1 cr; prereq 26, ¶115A)
—1, VI-VII F, CB(W) 240
—2, V-VI Th, CB(W) 240

105B Interm Accounting II (3 cr; prereq 105A, ¶75B)
—1, 8:15-9:30 TTh, CB(W) 240, Khemakhem
—2, 2:15-3:30 MW, CB(W) 240, Purdy

105C Interm Accounting III (3 cr, §55D; prereq 105A)
—1, IV MWF, CB(W) 255, Berryman
—2, 12:45-2:00 TTh, CB(W) 230, Khemakhem
—3, 9:45-11:00 TTh, CB(W) 240, Khemakhem

115A Cost Accounting (3 cr, §55C; prereq 25, 26, ¶75B)
—1, 12:45-2:00 MW, CB(W) 240, Zimmer
—2, 2:15-3:30 MW, CB(W) 230, Zimmer

125 Auditing Principles, Procedures (4 cr; prereq 105C or ¶105B-C)
IV MTWF, CB(W) 440, Smith

135 Income Tax Accounting (4 cr; prereq 55D or 105A or ♯)
—1, II MTWF, CB(W) 220, Heller
—2, III MTWF, CB(W) 220, Heller

145B Adv Topics (3 cr; prereq 12 cr upper div acct)
VIII-IX TTh, CB(W) 205

185A Adv Accounting (3 cr; prereq 105C or ¶)
VII-VIII MW, CB(W) 205, Berryman

265B Corporate Statements (3 cr, §55D or 105C; prereq 26)
12:45-2:00 TTh, CB(W) 205, Simmons

295A Readings (ar cr; prereq cons adv, instr) Gray

295B Research (ar cr) Gray

305B Seminar: Theory—Income Determination, Statement Presentation (3 cr)
VIII-IX MW, BA(W) 632, Smith

Business Finance (BFin)

56 **Finance Fundamentals** (3 cr, §156; prereq Acct 26)
Lect 2:15-3:30 TTh, CB(W) 10, Stevenson
—1, VI F, CB(W) 415, Cooper
—2, VII F, CB(W) 125, Cooper
—3, VIII F, CB(W) 125, Cooper

57 Financial Mgmt (3 cr, §276; prereq 56 or Acct 105B)
8:15-9:30 TTh, CB(W) 125, Hanson

66 Investment Fundamentals (3 cr; prereq 56)
IV MWF, CB(W) 125, Cooper

257 Financial Mgt (3 cr, §57, old 76; prereq 56 or 156)
11:15-12:30 TTh, CB(W) 125, Hanson

268 Investment Mgt (3 cr, §126; prereq 66 or 266)
8:15-9:30 TTh, CB(W) 105, Stevenson

Business Law (BLaw)

28 Business Law (3 cr, §58; prereq soph with 6 cr econ or sr without, regis AFHE or IT or Pharm with cons adv)
8:15-9:30 TTh, CB(W) 155, Eastlund

58 **Law, Contracts** (3 cr, §158; prereq Econ 2)
Lect III T, CB(W) 5, Wright
—1, I TTh, CB(W) 205, Wright
—2, II TTh, CB(W) 140, Wright

88 **Sales, Negotiable Instruments** (3 cr, §188; prereq 58)
Lect III Th, CB(W) 5, Wright
—1, I TTh, CB(W) 140, Neville
—2, II TTh, CB(W) 225, Neville
—3, III T, IV Th, CB(W) 225, Neville
—4, IV TTh, CB(W) 140, Eastlund

158 Contracts (3 cr, §58)
Lect III T, CB(W) 5, Wright
Rec II TTh, CB(W) 140, Wright

188 Sales, Negotiable Instruments (3 cr, §88; prereq 158)
Lect III Th, CB(W) 5, Wright
Rec IV TTh, CB(W) 140, Eastlund

Industrial Relations (IR)

52 **Systems; Labor Marketing** (3 cr, §152; prereq Econ 2)
Lect II TTh, CB(W) 5, Smythe
—1, III T, CB(W) 410, Woods
—2, IV T, CB(W) 115, Woods
—3, V T, CB(W) 115
—4, III Th, CB(W) 410, Vitalis
—5, IV Th, CB(W) 115, Vitalis
—6, V Th, CB(W) 115, Vitalis

62 Human Relations in Industry (3 cr)
VI MWF, CB(W) 205, Woods

72 Systems: Manpower Mgt (3 cr, §172; prereq Econ 2 or ♯)
V MWF, CB(W) 250, Smythe

142 Settlement of Industrial Relations Disputes (3 cr; prereq 52 or 152)
VIII MWF, CB(W) 150, Zaidi

152 Systems: Labor Marketing (3 cr, §52; prereq Econ 2)
III MWF, CB(W) 105, Zaidi

152C Fundamentals (3 cr, §52 or 152 or 72 or 172; prereq grad, Econ 2)
II MWF, CB(W) 105, Smythe

172 Systems: Manpower Mgt (3 cr, §72; prereq Econ 2 or ♯)
IV MWF, CB(W) 105

182A Interm Labor Marketing (3 cr; prereq 52 or 152)
IX MWF, BA(W) 837, Zaidi

210 Organization Theory (3 cr; prereq 72 or 172)
III-IV TTh, CB(W) 250, Weitzel

222 Compensation, Reward Theory (3 cr; prereq 152 or 172)
VI-VII TTh, CB(W) 140, Mahoney

292A Readings: Manpower Economics, Industrial Relations (ar cr; prereq cons adv, ♯)

292B Research: Manpower Economics, Industrial Relations (ar cr; prereq cons adv, ♯)

382 Seminar: Systems (3 cr; prereq 152, 172)
VIII-IX TTh, BA(W) 933, Heneman

Insurance (Ins)

53 **Risk Mgt, Insurance** (3 cr, §153; prereq Econ 2)
I MWF, CB(W) 5, Whitman

73 Life, Health Insurance (3 cr, §203; prereq 53)
III MWF, CB(W) 125, Whitman

103 Property, Liability Insurance II (3 cr, §243; prereq 53...93 rec)
VI MWF, CB(W) 125, Whitman

113 Actuarial Science Prins—Life, Health Insurance (3 cr; prereq 53 or 153 or ♯)
IV MWF, BA(W) 632, Williams

Management (Mgmt)

60 **Business Policy: Strategy Formulation, Implementation** (3 cr; prereq sr stdg, compl bus core or ¶ final core course)
—1, 8:15-9:30 TTh, CB(W) 415, Gaumnitz
—2, 8:15-9:30 TTh, CB(W) 425, Caldwell
—3, 9:45-11:00 TTh, CB(W) 415, Kozelka
—4, 11:15-12:30 TTh, CB(W) 415, Gaumnitz
—5, 2:15-3:30 MW, CB(W) 435, Gray

70 **Fundamentals** (3 cr)
—1, IV MWF, CB(W) 140, Juralewicz
—2, II MWF, CB(W) 140, Wickesberg
—3, VII MWF, CB(W) 140, Juralewicz

80 Admin Practices (3 cr)
2:15-5:15 T, CB(W) 135, Burke

90 Interpersonal Probs: Mgt (3 cr, §251; prereq 80)
9:00-12:00 W, BA(W) 837, Solem

109 Mgmt of Administrative Services (3 cr; prereq Econ 2)
2:15-3:30 TTh, CB(W) 105, Dickson

251 Superior-Subordinate Probs (3 cr; prereq 250)
2:15-5:15 W, CB(W) 225, Burke

260 **Strategy Formulation, Implementation** (3 cr, §60; prereq 250, 256 or ¶)
—1, 3:45-5:00 MF, CB(W) 435, Juralewicz
—2, 2:15-3:30 TTh, CB(W) 425, Mauriel

290A Readings: Theory, Admin (ar cr; prereq 2nd yr grad, cons adv, ‡)

290B Research: Theory, Admin (ar cr; prereq 2nd yr grad, cons adv, ‡)

340 Seminar: Interpersonal Relations (3 cr; prereq 251)
2:15-5:15 Th, CB(W) 135, Solem

360 Seminar: Mgt (3 cr; prereq 260)
2:15-4:30 W, BA(W) 735, Wickesberg

Marketing (Mktg)

57 **Prin of Marketing** (3 cr, §157; prereq Econ 2)
Lect VIII MW, CB(W) 5, Holloway
—1, I TTh, CB(W) 225
—2, V TTh, CB(W) 225
—3, V TTh, CB(W) 255
—4, VI TTh, CB(W) 225
—5, VI TTh, CB(W) 255

67 Practice Course (ar cr; prereq jr, sr, educ maj, cons adv)

97 Market Analysis, Research I (3 cr, §217; prereq 57, QA 51)
VII MWF, CB(W) 255, Rudelius

107 Retail Mgt I (3 cr, §227; prereq 57)
II MWF, CB(W) 415, Pennington

117C Marketing Topics (3 cr, §237C; prereq 57)
IV MWF, CB(W) 415, Rudelius

227 Retail Mgt (3 cr, §107; prereq 57)
II MWF, CB(W) 415, Pennington

237C Marketing Topics (3 cr, §117C; prereq 57)
IV MWF, CB(W) 415, Rudelius

247 Marketing Mgmt (3 cr; prereq 57 or 157)
9:45-11:00 TTh, CB(W) 425, Root

297B Research (ar cr; prereq cons adv, ‡)
2:15-3:30 TTh, CB(W) 145, Holloway

Office Management (OMgt)

34 **Typewriting Procedures** (2 cr; prereq soph, 33 or 2 yrs HS typing with 45 words a min)
II MWF, VH 208, Reha

39 **Shorthand** (3 cr, †37-38-39; prereq 38, 34 or ¶ or 2 yrs HS shorthand)
IV MWF, VH 209, Sloan

Production (Prod)

50 **Production Mgt** (3 cr, §150B; prereq Econ 2)
2:15-3:30 TTh, CB(W) 5, Hoffmann

100 Problems (3 cr; prereq 50)
3:45-5:00 TTh, CB(W) 425, Dickson

290A Readings (ar cr; prereq 2nd yr grad, cons adv, ‡)

290B Research (ar cr; prereq 2nd yr grad, cons adv, ‡)

Transportation (Tran)

54 **Fundamentals** (3 cr, §154; prereq Econ 2)
VI MWF, CB(W) 5, Harper

174 Traffic Mgt (3 cr; prereq 54 or 154)
II MWF, CB(W) 230, Harper

184 Carrier Mgt (3 cr; prereq 54 or 154)
IV MWF, CB(W) 425, Glaskowsky

194C Regulation, National Policy III (3 cr; prereq 54 or 154...194A rec)
III MWF, BA(W) 735, Nightingale

294A Readings: Transportation, Business Logistics (ar cr; prereq cons adv, instr)

294B Graduate Research: Transportation, Business Logistics (ar cr; prereq cons adv, instr)

304 Seminar (3 cr; prereq 54 or 154 or ‡)
2:15-4:45 M, BA(W) 735, Nightingale

Quantitative Analysis (QA)

5 Statistics (4 cr, §151, Soc 45, Psy 70; prereq Math 10)
—1, IV MTWF, AH 350
—2, VI MTWF, AH 350

51 Business Statistics (3 cr; prereq 5, soph with △)
—1, IV MWF, CB(W) 110
—2, VI MWF, CB(W) 110
—3, 9:45-11:00 TTh, CB(W) 110, Olson

54 Quantitative Methods for Admin III (3 cr; prereq 53 or ♯)
Lect IV MF, CB(W) 145, Andrew, Willis
Lab IV-V W, CB(W) 145

58 Quantitative Methods for Admin (3 cr, §52-53-54, 258; prereq 51, Econ 65, Math 40 or 42)
11:15-12:30 TTh, CB(W) 110, Olson

61 Intro to Electronic Computers (2 cr; prereq 5, Math 10)
Lect I TTh, CB(W) 145, Visness
—1, II-III T, CB(W) 93
—2, II-III T, CB(W) 450
—3, IV-V T, CB(W) 93
—4, IV-V T, CB(W) 435

171 Statistical Methods for Sample Surveys (3 cr; prereq 51 or 54 or 151)
VI MWF, CB(W) 440, Willis

175 Business Forecasting (3 cr; prereq 51 or 54 or 151)
III MWF, CB(W) 110, Kozelka

191B Statistical Methods: Business Admin (3 cr; prereq 191A)
—1, 11:15-12:30 TTh, CB(W) 145, Hastings
—2, 3:45-5:00 TTh, CB(W) 145, Neter

231 Mathematical Programming for Business Analysis (3 cr; prereq 258)
V-VI MF, CB(W) 145, Andrew

259 Quantitative Approaches to Admin Probs II (3 cr, §58; prereq 258)
2:15-3:30 MF, CB(W) 145, Andrew

291B Research (ar cr)
2:15-3:30 TTh, BA(W) 735, Neter

SCHOOL OF DENTISTRY

Dental Assisting (DA)

6 Prosthetic Lab Procedures (2 cr)
8:00-10:00 MW, MH 356, Anderson

10 Office Mgt (1 cr)
8:00-9:00 F, Owre 12, Thorson

11 Clinic III (5 cr)
10:00-12:30 TTh, 1:30-4:30 MTWThF, MH 310, Tuchner

14 Seminar (1 cr; prereq 12)
9:00-10:00 F, MH 356, Tuchner

Dental Hygiene (DH)

9 Dental Anatomy (2 cr; prereq 8)
Lect VI M, MH 356, Hall
Lab VII-IX M, MH 356, Hall

22 Dental Prophylaxis (2 cr; prereq 21)
Lect 1:00-2:00 T, MH 356, Jackson
—1, Lab II-IV T, Clinic, Aker, Sander
—2, Lab VII-IX T, Clinic, Jackson, Sander
—3, Lab II-IV Th, Clinic, Aker, Jackson, Sander
—4, Lab VII-IX Th, Clinic, Jackson, Sander

42 Dental Health Education (2 cr; prereq 41)
Lect VI W, MH 356, Schendel, lab ar

47 Assisting in Dentistry (2 cr; prereq 46)
Lect VI Th, MH 356, lab ar

55 Dental Prophylaxis (2 cr; prereq 54)
—1, VII-IX M, Clinic, Jackson, Sander
—2, II-IV W, Clinic, Sander, Schendel
—3, II-IV F, Clinic, Jackson, Sander
—4, VII-VIII W, Clinic, Sander, Schendel

59 Prosthetic Dentistry, Dental Lab (3 cr; prereq 58)
Lect I T, MH 356, Hall
Lab II-IV TTh, MH 356, Hall

62 Dental Roentgenology (1 cr)
8:15-9:00 Th, MH 356, Petersen

Dentistry (Dent)

52 Biomaterials Lecture (2 cr)
I M, Owre 12, VI Th, Owre 111, Hampel

52L Biomaterials Lab (2 cr)
II-IV M, VII-IX Th, Owre 1

61 Dental Prosthetics (2 cr; prereq 60)
Lect VI W, Owre 113, Hall
Lab VII-IX W, JOAd 54

72 Occlusion I (2 cr)
Lect III W, Owre 111, Morstad
Lab 8:00-10:00 W

77 Crown, Bridge Technic (4 cr; prereq 76)
Lect VI M, Owre 111, Serr
Lab II-IV TTh, VII-IX M, JOAd 54

80 Oral Diagnosis (1 cr)
IV F, Owre 111, Yamane

81 Roentgenology (2 cr)
VI TF, Owre 111, Yamane

90 Anesthesia (1 cr)
IV M, Owre 111, Holte

95 Periodontics (2 cr)
Lect III F, Owre 111, Stallard
Lab 8:00-9:00 F

112C Dental Prosthetics Clinic (2 cr; prereq 111C) Morstad

115 Dental Literature (1 cr)
II F, Owre 111, Meskin

117C Dental Prosthetics Clinic (2 cr; prereq 116C) Morstad

122 Crown, Bridge (1 cr)
8:00-9:00 T, Owre 111, Yock

122C Crown, Bridge Clinic (2 cr; prereq 121C) Yock

127C Crown, Bridge Clinic (2 cr; prereq 126C) Yock

129 Seminar: Restorative Dentistry (1 cr)
9:00-10:00 Th, Owre 113, Jensen

130 Oral Diagnosis (2 cr)
9:00-10:00 MTh, Owre 111, Yamane

132C Roentgenology Clerkship (1 cr) Yamane

137C Oral Diagnosis Clinic (1 cr) Yamane

142 Operative Dentistry (2 cr)
8:00-9:00 M, 9:00-10:00 T, Owre 111, Jensen

142C Operative Dentistry Clinic (3 cr; prereq 141C) Jensen

147C Clinical Operative Dentistry (2 cr; prereq 146C) Jensen

150 Intro to Oral Surgery (1 cr)
8:00-9:00 W, Owre 111, Clark

157C Oral Surgery, Hospital Clinics (3 cr) Clark

162 Oral Pathology, Histology (3 cr; prereq 161)
Lect 9:00-10:00 W, Owre 111, VI F, Owre 113, Gorlin
—1, Lab 10:00-12:00 W, MH 356
—2, Lab VII-VIII F, MH 356

172C Pedodontics Clinic (1 cr)

176 Preventive Dentistry III: Philosophy, Concepts (1 cr, §PubH 76) VI T, Owre 15, Meskin

177C Pedodontics Adolescent Clinic (1 cr) Wittich

182 Periodontics (1 cr; prereq 181)
8:00-9:00 Th, Owre 111, Stallard

182C Periodontics Clinic (1 cr; prereq 181C) Stallard

196 Practice Mgt (1 cr)
9:00-10:00 T, Owre 113, Thorson

199 Dental Jurisprudence, Ethics (1 cr; prereq 198)
8:00-9:00 M, Owre 113, Brand

202 Growth, Development (ar cr) Isaacson

206 Orthodontic Diagnosis, Treatment Planning (ar cr) Isaacson

210 Prin of Orthodontic Retention (ar cr) Isaacson

214 Research: Orthodontics (ar cr) Isaacson

218 Topics: Orthodontics (ar cr) Isaacson

220 Adv Oral Anatomy (ar cr) Hall

230 Adv Oral Diagnosis (ar cr) Yamane

231 Adv Clinical Oral Diagnosis (ar cr) Yamane

232 Research Probs: Oral Medicine (ar cr) Yamane

240 Adv Technical Restorative Dentistry (ar cr) Jensen, Morstad, Yock

241 Seminar: Adv Restorative Dentistry (ar cr) Morstad

243 Adv Clinical Restorative Dentistry (ar cr) Jensen, Morstad, Yock

245 Seminar: Prosthodontics (ar cr; prereq ‡) Olsen

246 Seminar: Prosthodontics (ar cr; prereq ‡) Olsen

247 Research Probs: Restorative Dentistry (ar cr) Jensen, Morstad, Yock

248 Adv Prosthodontics (ar cr; prereq 245, ‡) Olsen

249 Adv Prosthodontics (ar cr; prereq 246, ‡) Olsen

250 Adv Oral Surgery (ar cr) Clark

251 Seminar: Oral Surgery (1 cr) Clark

252 Research: Oral Surgery (ar cr) Clark

253 Probs: Oral Surgery (ar cr) Clark

261 Adv Dental Roentgenology (ar cr) Yamane

262 Research: Oral Pathology (ar cr) Gorlin

263 Seminar: Oral Pathology (1 cr) Gorlin

265 Seminar: Histopathology Slides (1 cr) Gorlin

266 Adv Oral Pathology (1-3 cr) Gorlin

267 Seminar: Human Genetics (1 cr) Gorlin

268 Current Literature Review (1 cr) Gorlin

280 Adv Periodontics Clinic (ar cr) Stallard

281 Adv Periodontics Lectures (3 cr) Stallard

282 Research: Periodontics (ar cr) Stallard

283 Seminar: Periodontics (2 cr) Stallard

284 Supporting Structures of the Teeth (3 cr) Stallard

285 Histochemistry of Normal, Pathologic Periodontium (2 cr) Stallard

COLLEGE OF EDUCATION

AGRICULTURAL EDUCATION (AgEd)

1 Introduction (1 cr; prereq ♯)
III Th, Hr 301, Kitts

20 Rural Education, Community Leadership (3 cr, §120)
11:15-12:30 TTh, Hr 102, Swanson

56 Rural Education Through Extension Methods (3 cr; prereq soph)
III MWF, Hr 301, Nelson, Cvancara

81 Teaching Agriculture in Secondary School (4 cr; prereq 91 or Ed 55B)
Lect IV MWF, Hr 301, Kitts
Lab VII-VIII T

103 Adult Education in Agriculture (4 cr)
Lect III MWF, AgBot 107
Lab VII-VIII Th, Hr 301

104 Planning Programs (3 cr; prereq ♯)
11:15-12:30 TTh, Hr 301, Peterson

120 Rural Education, Community Leadership (3 cr, §20; prereq ♯)
11:15-12:30 TTh, Hr 102, Swanson

121 Enterprise Analysis (3 cr; prereq ♯)

156 Rural Education Through Extension Methods (3 cr, §56; prereq grad or ♯)
III MWF, Hr 301, Nelson, Cvancara

171 Procedures: Teaching Agriculture (3 cr; prereq ♯)

221 Field Probs (3 cr)

232 Research (ar cr; prereq 15 cr educ)

ART EDUCATION (ArEd)

10 **Elementary Survey** (2 cr)
—1, I-II TTh, WuH 210
—2, I-II TTh, WuH 220
—3, III-IV TTh, WuH 210
—4, III-IV TTh, WuH 220

14 **Introduction** (2 cr)
III TTh, WuH 110, Salome

17 **Pictorial Expression for Elem Education** (3 cr)
—1, I-II MWF, WuH 240, Mitra
—2, III-IV MWF, WuH 240, Salome

18 **Design Activities for Elem Education** (3 cr)
—1, I-II MWF, WuH 210, Sontag
—2, VI-VII MWF, WuH 210, Bradley

19 **Functional Arts, Crafts in Elem Education** (3 cr)
III-IV MWF, WuH 220, Olson

53 **Intro to Weaving** (3 cr)
VI-VII MF, VI W, WuH 340, Smits

54 Adv Weaving (3 cr)
VII W, VIII MWF, WuH 340, Smits

57 **Principles, Experiences** (5 cr; prereq 14)
VI-VII MTWThF, WuH 110, 120, Olson

58 **Principles, Experiences** (5 cr; prereq 14)
—1, I-II MTWThF, WuH 110, 120, Salome
—2, III-IV MTWThF, WuH 110, 120, Hastie

84 **Teaching Art in Elementary School** (2 cr; prereq 10 or 6 cr from 17, 18, 19)
Lect VI TTh, WuH 230, Gayne
—1, Lab VII TTh, WuH 210, Bradley
—2, Lab VII TTh, WuH 220, Gayne
—3, Lab VII TTh, WuH 240, Mitra

84A **Teaching Art in Elem School** (3 cr; prereq IIIA prog)
I-III S, WuH 220, Hegg

86 Student Teaching, Supervision (3 cr, †86-87-88; prereq sr, 56, 57, Ed 55A-B, ¶86A) Hastie, Olson

86A Teaching, Supervision (2 cr, †86A-87A-88A; prereq sr, 56, 57, Ed 55A-B, ¶86) Gayne

87 Student Teaching, Supervision (3 cr, †86-87-88; prereq sr, 56, 57, Ed 55A-B, ¶87A) Bradley, Mitra

88 Student Teaching, Supervision (3 cr, †86-87-88; prereq sr, 56, 57, Ed 55A-B, ¶88A) Hegg, Salome

88A Teaching, Supervision (2 cr, †86A-87A-88A; prereq sr, 56, 57, Ed 55A-B, ¶88)
IX-X MWF, WuH 110, Bradley

295 Problems (ar cr; prereq ♯) Gayne, Hastie

296 Seminar (1 cr) Gayne, others

CHILD PSYCHOLOGY (CPsy)

80 **Child Psychology** (3 cr; prereq Psy 2)
—1, II MWF, ME 4, Karmel
—2, IV MWF, MNH Aud, Berman

81 **Adolescent Psychology** (3 cr; prereq Psy 2)
I MWF, MNH Aud, Goldin

126 Case Study of Children (3 cr; prereq 80, ‡) Ruebush

181 Social Development (3 cr; prereq 80)
II MWF, CD 218, Hartup

183 Language Development (3 cr; prereq 80)
VII MWF, CD 218, Templin

190 Topics: Child Psychology (ar cr; prereq ‡)

212 Research Methods in Child Psychology (3 cr; prereq ‡)
VI MWF, CD 218, Stevenson

215 Perception in Children (3 cr; prereq Psy 150, ‡)
3:15-4:45 MW, CD 205, Pick

218 Abnormal Child Psychology (3 cr; prereq 217, ‡)
3:15-4:45 MW, CD 102, Ruebush

219 Adv Social Development (3 cr; prereq ‡)
3:15-4:45 TTh, CD 102, Moore

222 Seminar: Current Issues in Child Psychology I (1 cr; prereq ‡)
IV-V alt T, CD 102, Ruebush

225 Seminar: Developmental Psychology (ar cr; prereq ‡) Babska, Flavell, Hall, Hill, Malmquist

227 Multiple Factor Analysis (2 cr; prereq 3 qtrs stat, ment meas)
VIII-IX Th, CD 205, Roff

249 Treatment of Disturbed Children (3 cr; prereq ‡)
VI-VII F and ar, CD 117, Wirt

250 Practicum: Clinical Child Psychology (5 cr; prereq ‡) Goldin

EDUCATIONAL ADMINISTRATION (EdAd)

128 Workshop: Education Admin (1-6 cr; prereq practicing admin or ‡)
VII-VIII Th, Bu 125, Davis, Hooker

202 Foundations (3 cr)
I-II S, Bu 125, Mueller

215 The Elem School Principalship (3 cr; prereq 201, 202, or ‡)
IX-X T, Pt 214, Lambert

226 School Plant Planning (3 cr)
IX-X W, Pt 215, Hooker

228 Probs: Educational Admin (1-3 cr) Davis, Domian, Hooker, Mueller

230 School Community Relations (3 cr)
IX-X M, Pt 214, Popper

233 Workshop: Junior High School (1-4 cr)
III-IV S, Bu 125, Popper

235 Seminar (1-3 cr; prereq MA in educ admin or ‡)
VII-IX M, CD 105, Pierce

236 Field Study (0-10 cr; prereq ‡) Curtin, Davis, Domian, Firth, Hooker, Lambert, Mueller, Nickerson, Pierce, Popper

241 **Seminar: Internship** (1 cr)
—1, VI-VII Th, Pt 110, Nickerson
—2, III-IV Th, Pt 111, Ammentorp

264 The Secondary School Principalship (3 cr)
IX-X T, PeikH 155, Nickerson

270A Probs: Elem School Admin (ar cr; prereq ‡) Clymer, Curtin, Goossen, Lambert

270B Probs: Secondary School Admin (ar cr; prereq ‡) Davis, Domian, Firth, Hooker, Mueller, Nickerson, Pierce, Popper

275 Junior College Admin (3 cr; prereq 274 or ‡)
IX-X Th, Pt 214, Hendrix

EDUCATIONAL PSYCHOLOGY (EPsy)

110 Educational Measurement in the Classroom (3 cr)
VIII MWF, NH 122, Becklund

116 Introductory Statistical Methods (3 cr)
VI MWF, Pt 102, Becklund

116A **Introductory Statistical Methods Lab** (2 cr; prereq ¶116)
VI-VII TTh, WuH 330, Hennen

117 Basic Prin of Measurement (3 cr; prereq 116 or 216 or Psy 70)
VII MWF, Bu 123, D Anderson

125 Group Dynamics in Education (3 cr)
4:15-5:30 TTh, Pt 110, David W Johnson

133 Intro to Guidance (3 cr; prereq 9 cr educ)
II MWF, Bu 125, Tennyson

140 Instruments, Techniques of Measurement (3 cr; prereq 110 or 117)
VIII MWF, IX W, Pt 111, Merwin

148 Clinical Diagnosis of Reading Difficulties (3 cr; prereq EdCI 145)
2:15-3:30 TTh, Bu 123, Tyler

150 **Clinical Practice in Remedial Teaching** (3 cr; prereq EdCI 145 or 151, ‡)

152 Intro to School Psychological Services (3 cr)
III MWF, CD 105, Hall

159 Personality Development, Mental Hygiene (3 cr)
I MWF, Pt 110, Kaul

182 Education of Exceptional Children (3 cr; prereq Ed 55B or 75B)
VII MWF, Pt 110, Force

186 Education of Emotionally Disturbed, Socially Maladjusted Children (3 cr; prereq grad or ‡)
IX-X T, Pt 102, Wilderson

193 Psychological Analysis of Instruction (3 cr, §193, 196-197; prereq sr)
4:15-5:30 TTh, NH 122, Samuels

200 **Seminar: Guidance** (1-3 cr; prereq ‡)
V W, Bu 255, A Anderson

208 Methods in Educational Research (3 cr; prereq PhD students only)
2:15-3:30 T, Bu 125, Hoyt

209 **Seminar: Research Planning** (1 cr)
IX-X T, CD 105, Hoyt

210 **Individual Mental Testing** (3 cr, §142; prereq 110 or 117 or ¶117 with ‡)
VI-VII TTh, CD 218, Briggs

217 Statistical Methods (3 cr; prereq 216)
I MWF, Bu 123, Terwilliger

217A **Statistical Methods Lab** (2 cr; prereq ¶217)
IV-V MW, WuH 330, Hennen

218 **Statistical Methods** (3 cr; prereq 217)
—1, II MWF, Arch 35, Collier, MacEachern
—2, II MWF, Arch 130, Collier, MacEachern

218A **Statistical Methods Lab** (2 cr; prereq ¶218)
—1, I-II TTh, WuH 330, Schluck
—2, III-IV TTh, WuH 330, Proshek
—3, VI-VII MW, WuH 330, Schluck
—4, VIII-IX TTh, WuH 330, Proshek

226 Counseling Theory, Procedure II (3 cr; prereq 225)
VIII-IX TTh, CD 218, Blocher, Parker

233 Probs: Guidance, Personnel Work (1-9 cr) Parker, others

234 Seminar: Counseling Theory, Research (3 cr)
VI-VII TTh, Pt 102, A Anderson

241 Seminar: Developing Computer Applications (3 cr; prereq 141, ‡) D Anderson

243 Probs: Statistics for Students in Education, Psychology (3 cr)

244 Research: Special Education (1 cr; prereq 116, 117, ‡)
IX-X M, Pt 110, Reynolds

248 Seminar: School Psychology (1 cr; prereq PhD or spec cand, ‡) Duker, Hall

251 College Student Personnel Work (1-3 cr; prereq 250 or 1 course higher educ)
III-IV Th, Bu 125, Parker, others

252 Seminar: College Student (1-3 cr; prereq 6 cr psy or educ psy)
III-IV T, Bu 125, Parker

253 Research Probs (ar cr; prereq ‡) Wilk, others

254 Measurement, Evaluation in Higher Education (3 cr)
VIII-IX M, Bu 123, 1 hr ar, Corcoran, Stecklein

256 **Clinical Practice in Diagnosis, Treatment of College Learning Difficulties** (3 cr; prereq 255)
VIII W, EdH 202, Raygor

257 **Clinical Practice in Educational Diagnosis** (5 cr, §151; prereq 210, EdCI 145, ‡)

259 Personality Theory in Mental Hygiene (3 cr)
VII MWF, Bu 125, Hewer

260 Seminar: Educational Psychology (ar cr)
VIII-IX M, CD 218, Murray

263 Design, Interpretation of Behavioral Research with Mentally Retarded (3 cr; prereq 262)
VII-VIII TTh, FolH 105, Turnure

267 Research Designs: Education of Disturbed Children (3 cr; prereq ‡)
VI-VIII Th, Pt 109, Balow

268 Seminar: Culturally Disadvantaged (3 cr; prereq ‡)
IX-X W, Pt 110, Wood

281 **Practice in Personnel Work** (3 cr; prereq 226 or ‡)
—1, VI-VII Th and ar, EdH 202, Hagenah
—2, Ar, Parker

282B **Supervised Practicum in Counseling** (1-3 cr; prereq ‡) Lee

287 Practicum: School Psychological Services (1-3 cr; prereq ‡) Duker, Hall

288 Practicum: Special Education (3-9 cr; prereq ‡) Reynolds, others

289 Survey: Special Education Probs (3 cr; prereq 182 or exper, ‡)
IX-X W, Pt 102, Reynolds

297 Psychology of Knowledge Acquisition (3 cr; prereq 196-197 or Psy 128-129 or ‡)
III MWF, Pt 215, P Johnson

299 Seminar: School Learning (3 cr; prereq 196-197 or Psy 128-129 or ‡)
VII-VIII TTh, NH 107, Hively

GENERAL EDUCATION

Curriculum and Instruction (EdCI)

54 Literature, Story Telling for Young Children (2 cr; prereq CPsy 80)
VII TTh, CD 105, Headley

55 Foundation of Early Childhood Education (3 cr; prereq CPsy 80 or ¶)
VI MWF, Bu 120, Sorensen

56 Methods, Observations in Kindergarten (3 cr; prereq CPsy 80)
VI MWF, CD 105, Headley

59 Methods, Observation in Nursery School (3 cr; prereq CPsy 80)
VIII T, VIII-IX Th, Bu 105, Nirenstein

60 **Teaching Reading in Elem School** (3 cr; prereq Ed 75A)
—1, I MWF, Bu 125, Ollila
—2, III MWF, Bu 125, Odland
—3, VI-VII MW, Marcy School, Manning
—4, VIII MWF, Bu 105, Harris

61 **Teaching Social Studies in Elem School** (3 cr; prereq Ed 75A)
—1, II MWF, Pt 214, Rogers
—2, VI MWF, Pt 214, R Johnson
—3, VII MWF, Pt 214, Keach

62 **Teaching Mathematics in Elem School** (3 cr; prereq Ed 75A, Math 5A-B)
—1, III MWF, JohH 113, Maertens
—2, VI MWF, JohH 113, Stochl
—3, VII MWF, JohH 113, Hatfield

63 **Children's Literature** (3 cr)
—1, I TTh, Bu 123, Stein
—2, III TTh, Bu 120, Odland
—3, VI TTh, Bu 120, Peterson
—4, IX-X W, Bu 120, Peterson

64 **Teaching English in Elem School** (3 cr; prereq Ed 75A)
—1, I MWF, Pt 111, Lilja
—2, III MWF, Pt 111, Chase
—3, VI MWF, Pt 110, Chase
—4, VII MWF, Pt 111, Stein

65 **Teaching Science in Elem School** (3 cr; prereq Ed 75A, 10 cr nat sci)
—1, II MWF, Pt 111, Humphreys
—2, II-III T, II Th, Pt 111, Goossen
—3, VI MWF, Pt 111, Humphreys
—4, VII-VIII T, VII Th, Pt 111, Goossen

102 Teaching, Supervision of Social Studies in Elem School (3 cr; prereq Ed 75B)
I-II S, Pt 214, 1 hr ar, Rogers

103 Teaching Science in Elem School (3 cr; prereq sr, Ed 75B or tchg exper)
III-IV S, Pt 111, 1 hr ar, Goossen

104 **Adult Education** (3 cr)
IX-X Th, NH 107, Woods

105 Audio-Visual Materials in Education (3 cr; prereq sr)
IX-X T, NH 211, 1 hr ar, Pearson

107 **Radio, Television in Education** (3 cr; prereq 9 cr educ)
IX-X M, WeH 206, Pearson

113 Principles of Secondary School Curriculum (3 cr; prereq Ed 55B)
IX-X Th, Pt 111, 1 hr ar, Firth

122 Literature for Adolescents (3 cr; prereq Ed 55B or jr-sr HS tchg exper)
I-II S, Bu 120, Kemp

124 Foundations of Career Development (3 cr)
IX-X T, NH 216, Borow

125 Occupational Information Lab (3 cr; prereq ♯)
IX-X Th, PeikH 165, Hansen

132 Teaching Basic Business Subjects (3 cr)
IX-X T, Bu 105, Price

141 **Co-operative Part-Time Work Experience Programs** (3 cr)
4:15-6:30 W, Bu 105, Klaurens, Meyer

142 **Business, Distributive Programs for Adults** (3 cr)
4:15-6:30 M, Bu 105, Ashmun

143A Teaching, Supervision of Reading in Elem School (3 cr; prereq 9 cr educ)
IX-X T, JohH 114, 1 hr ar, Clymer

143C Instructional Leadership in Elem Reading (3 cr; prereq 143A or ♯)
III-IV S, Bu 123, 1 hr ar, Manning

144 Teaching Reading in Secondary Schools (3 cr; prereq 9 cr educ)
IX-X T, Bu 120, 1 hr ar, Chase

145 Reading Difficulties (3 cr; prereq 143A or 144)
IX-X Th, Bu 120, 1 hr ar, Bormuth

149B Materials Lab for Elem School Mathematics Instruction (3 cr; prereq 62 or 149A or ♯)
VII-IX T, JohH 113, Jackson (for sr only)

149C Current Developments in Elem School Mathematics Instruction (3 cr; prereq 62 or 149A or ♯)
4:15-5:30 MW, JohH 113, Stochl

150 Supervision, Improvement of Instruction (3 cr; prereq 9 cr educ)
III-IV S, Bu 120, 1 hr ar, Curtin

153 Teaching, Supervision of English in Elem Schools (3 cr; prereq 64 or elem school tchg exper)
I-II S, Bu 123, 1 hr ar, Dykstra

158 Materials, Methods in Office, Stenographic Procedures (3 cr)
I-II S, Bu 105, Paleen

160 Materials Lab, Occupational Relations (3 cr; prereq 137A or EdT 90C or ‡)
III-IV S, Bu 105, Klaurens, Meyer

165B Mathematics for Slow Learning Children (3 cr; prereq 62 or 149A or ‡)
IX-X Th, JohH 113, Jackson

166 Current Trends in Kindergarten Education (3 cr; prereq tchg exper in NKP, ‡)
IX-X W, CD 105, Headley

171 Workshop: Curriculum Lab Practice (0-3 cr; prereq 113 or 119, ‡) Birkmaier, Firth

172 Supervision of Secondary Instruction (3 cr; prereq 113)
I-II S, PeikH 165, Firth

174 Clinical Methods, Practice in Speech Pathology (3 cr, §SSPA 164; prereq SSPA 141, 142 or ‡)
5:00-6:30 Th, FolH 103, Starr

174A Clinical Practicum in Speech Correction—Cleft Palate (1 cr; prereq SSPA 146) Starr

175 Clinical Methods, Practice in Speech Pathology (3 cr, §SSPA 165; prereq 174)
5:00-6:30 Th, FolH 103, Starr

176 Clinical Methods, Practice in Speech Pathology (3 cr, §SSPA 166; prereq 175)
5:00-6:30 Th, FolH 103, Starr

182 Education of Partially Seeing Children (3 cr; prereq 115, 118, ‡)
IX-X W, Bu 123, Martin

190 Current Developments in Secondary School Science Teaching (3 cr; prereq EdT 68B-C or 68M or sci tchg exper)
I-II S, PeikH 365, Gennaro

194 New Content, Methods in Mathematics (3 cr; prereq math tchg exper)
IX-X MW, PeikH 315, David C Johnson

198C Practicum: Education of Disadvantaged Children (3 cr; prereq 198B) Wood

199E Internship (ar cr) Mork

201 Probs: Teaching Social Studies (ar cr; prereq 102 or 155 or 168, 204 or ‡) Gardner, Keach, McCune, Mork, Rogers, West

203 Supervision, Admin of Special Education (3 cr; prereq ‡)
IX-X T, Pt 111, Force

204 Social Studies Curriculum (3 cr)
IX-X M, PeikH 155, Gardner

205 Probs: Audio-Visual Education (ar cr; prereq ‡) Pearson

207 Probs: Radio-Television Education (1-3 cr; prereq 107) Pearson

208 Research: Elem Social Studies (3 cr; prereq 61 or 102, 154 or ‡)
IX-X W, Pt 214, 1 hr ar, Keach

210B Seminar: Area Studies (3 cr; prereq 210A) West

215 Probs: School Health Education Program (ar cr; prereq ‡) Grout

217 Seminar: School Health Education Program (ar cr; prereq ‡) Grout

222 Seminar: Secondary Curriculum, Instruction (1 cr, †3 cr; prereq 113)
IX-X W, PeikH 265, Firth, Gardner, Kimpston

225 Probs: Secondary School Supervision (ar cr; prereq ‡) Firth

228 Probs: Higher Education, Teacher Education (ar cr; prereq ‡) Eckert, Mork

232 Probs: Teaching Mathematics (ar cr; prereq 230 or 231 or 291) Jackson, David C Johnson, Donovan Johnson, Stochl

233 Seminar: Mathematics Education (0-3 cr; prereq ‡)
IX-X T, PeikH 315, Jackson, David C Johnson, Donovan Johnson, Stochl

237 Seminar: Business, Distributive Education (0 cr; prereq ‡) Meyer, Price

238 Probs: Distributive Education (ar cr; prereq ‡) Meyer

239 Probs: Business Education (ar cr; prereq ‡) Price

241 Seminar: Adv Study in Supervision, Curriculum Development (1 cr, †3 cr; prereq 113, 170 or 172)
IX-X M, PeikH 225, Birkmaier, Firth, Hill

242 Field Practicum: Supervision, Curriculum Development (1 cr, †3 cr; prereq 113, 170) Firth

243C Seminar: Reading Instruction (0-3 cr; prereq ‡)
IX-X W, JohH 520, Clymer

251 Curriculum Trends in American Colleges (3 cr; prereq 18 cr educ or 1 yr grad study in any field)
I-II S, JohH 105, Eckert

252 Effective College Teaching (3 cr; prereq 18 cr educ or 1 yr grad study in any field)
VII MWF, JohH 106, Eckert

253A Seminar: Materials, Methods in Marriage Education (4 cr) Hill

254 Directed Experience in College Instruction (ar cr; prereq ‡)

261 Probs: Improvement of Instruction (ar cr; prereq ‡) Bormuth, Chase, Clymer, Curtin, Dykstra, Goossen, Humphreys, Jackson, Keach, Lambert, Manning, Odland, Rogers, Stochl

271 Probs: Curriculum Construction (ar cr; prereq ‡) Birkmaier, Boeck, Firth, Gardner, Gennaro, Hill, David C Johnson, Donovan Johnson, Kimpston, Lange

273 Probs: Reading (ar cr; prereq 143A or 144 or ‡) Bormuth, Chase, Clymer, Dykstra, Manning, Odland, Raygor

280 Supervision of Counseling (3 cr; prereq ‡)
IX-X T and ar, Pt 215, Schmidt

284 Probs: Student Teaching (3-9 cr; prereq ‡) Mork

286 Professional Education of Teachers (3 cr; prereq 285 or ‡)
III-IV S, PeikH 75, 77, Mork, Woestehoff

288 Seminar: Research in Modern Language Learning (3 cr; prereq 185, ‡)
I-II S, PeikH 225, Birkmaier

295 Readings: Engl, Modern Language Education (1-3 cr) Birkmaier, Kegler

296 Probs: Teaching English (ar cr) Chase, Dykstra, Kegler

297 Research: English, Speech Education (1-3 cr) Kegler

Education (Ed)

55B Intro to Secondary School Teaching (5 cr; prereq 55A)
—1, II-III MWF, GorC 12 **(StP Campus)**
—2, II-III MWF, GorC 15 **(StP Campus)**
—3, II-III MWF, Bu 123
—4, II-III MWF, ForH 150
—5, VII-VIII MWF, AE 211
—6, VII-VIII MWF, AE 215
—7, VII-VIII MWF, Arch 30
—8, VII-VIII MWF, AE 317

History and Philosophy of Education (HEd)

90 School, Society (3 cr; prereq sr)
—1, IV MWF, Pt 215, Travisano
—2, VI MWF, Pt 215, Travisano
—3, VII MWF, Pt 215, Travisano
—4, VII-VIII T, VII Th, Pt 215, Bagley
—5, VIII MWF, Pt 215, Neff

151 Social History of American Education (3 cr, §Hist 141E)
VI MWF, CB(W) 255, Smith

170 American Pragmatism, Education (3 cr)
IX-X Th, Pt 215, Bagley

182 Comparative Philosophies of Education (3 cr)
IX-X W, Bu 125, Neff

241 Problems (ar cr; prereq ‡) Bagley, Corcoran, Neff, Smith

298 Seminar: American Social, Educational History (3 cr, §Hist 239E)
IX-X W, SocSci(W) 628, Smith

HOME ECONOMICS EDUCATION (HEEd)

49 **Introduction** (2 cr; prereq Psy 2, soph)
—1, I TTh, McNH 102
—2, I MW, McNH 103

60 Curriculum (3 cr; prereq 49, Soc 1 or 1A, Ed 55B or ¶)
VI MWF, McNH 144, Wantoch

61 Methods of Teaching Home Economics (3 cr; prereq 60, ¶62)
II MWF, McNH 103, Burklund

62 Evaluation in Home Economics (3 cr, §192; prereq 60, ¶61)
III-IV MWF, McNH 102, Brown

64 Adult Education in Home Economics (3 cr, §194A; prereq 60)
VI-VII TTh, McNH 103

65 Colloquium (2 cr; prereq 63)
VIII WF, McNH 102

90 Child Development (3 cr; prereq soph, Psy 2)
VIII MWF, McNH 227, Jones

90A Practicum in Child Development (1 cr; prereq 90 or ¶)
V T and ar, McNH 102, Christenson

166 Trends (3 cr, §243; prereq 160A or B)
6:30-9:30 pm Th, McNH 103

190 Readings (1-3 cr; prereq cons adv, ‡)

201 Problems (1-9 cr, §293; prereq 200A, ‡)

INDUSTRIAL EDUCATION (Ind)

1 **Elem Handicrafts** (3 cr)
I-III TTh, TNCD 218 (for non-majors)

2 **Wood Processing I** (3 cr)
I-II MWF, TNCD 1, Bortz

4 Wood Processing III (3 cr; prereq △) Nelson

6 **Industrial Arts Teaching** (5 cr)
VIII-X TTh, PeikH 45, Randleman

9 **Building Construction Drafting** (3 cr; prereq 7)
III-IV MWF, TNCD 201, Wheeler

10 Adv Drafting B (3 cr; prereq △) Nelson

12 **Craftwork** (3 cr)
II-IV TTh, TNCD 1, Wheeler (for OT students)

16 **Graphic Arts II** (3 cr)
I-III TTh, TNCD 14, Scholer

21 **Communication Electronics** (3 cr; prereq 20)
VI-VII MWF, TNCD 15, Kavanaugh

23 Applied Electronics I (3 cr; prereq △) Nelson

24 Applied Electronics II (3 cr; prereq △) Nelson

26 **Metal Processing II—Machine Shop Practices (D)** (3 cr; prereq △)

27 Metal Processing III (3 cr; prereq △) Nelson

28 Metal Processing IV (3 cr; prereq △) Nelson

29 Metal Processing V (3 cr; prereq △) Sandeen

30 **Small Gas Engines** (3 cr)
3:30-6:30 MF, PeikH 45, Johnson

31 Automotive Mechanics I (A) (3 cr; prereq △) Nelson

32 Automotive Mechanics II (A) (3 cr; prereq △) Nelson

44 Equipment, Mgmt (3 cr; prereq 6 or 40 or ♯)
IX-X W, TNCD 113, Kavanaugh

50 **Industrial Practices, Processes** (3 cr; prereq 35)
VI-VIII T, TNCD 116, Miletich

60A Student Teaching (3 cr, †60A-B-C; prereq 6, 55, 100, △)

60B Student Teaching (3 cr, †60A-B-C; prereq 60A)

60C Student Teaching (3 cr, †60A-B-C; prereq 60B)

60S Student Teaching Seminar (1-3 cr; prereq ¶60A-B-C-D)
VIII W, TNCD 116

70 Drafting, Technical Specialty I (B) (3 cr; prereq △) Nelson

71 Drafting, Technical Specialty II (B) (3 cr; prereq △) Nelson

72 Graphic Arts, Technical Specialty I (B) (3 cr; prereq △) Nelson

73 Graphic Arts, Technical Specialty II (B) (3 cr; prereq △) Nelson

74 Power Mechanics, Technical Specialty II (A) (3 cr; prereq △) Nelson

75 Power Mechanics, Technical Specialty II (A) (3 cr; prereq △) Nelson

76 Metals, Technical Specialty I (D) (3 cr; prereq △) Nelson

77 Metals, Technical Specialty II (D) (3 cr; prereq △) Nelson

78 Electronics, Technical Specialty I (C) (3 cr; prereq △) Nelson

79 Electronics, Technical Specialty II (C) (3 cr; prereq △) Nelson

90 Independent Study (3 cr; prereq jr or ♯) VIII M, TNCD 116, Randleman

91 Independent Study (3 cr; prereq 90) VIII M, TNCD 116, Randleman

92 Independent Study (3 cr; prereq 91) VIII M, TNCD 116, Randleman

110 Vocational Guidance (3 cr; prereq Ed 55B)
IX-X Th, TNCD 113, Nelson

115 Supervision (3 cr; prereq 35 or 105)
IX-X M, TNCD 113, Miletich

135 Industrial Course Construction (3 cr, §40)
IX-X T, TNCD 113, Kavanaugh

155 Critical Issues in Industrial Education (3 cr)
IX-X W, TNCD 116, Moss

200 Research Probs (3, 6 or 9 cr; prereq approval of candidacy)
III-IV M, TNCD 103, Kavanaugh, Moss, Nelson, Randleman

205 Seminar (no cr)
V W, TNCD 116, Randleman

METHODS AND STUDENT TEACHING (EdT)

50 Junior Practicum: Special Education (3 cr; prereq ♯) Force, Grismer

52 Student Teaching (ar cr) Mork, others

53A Teaching Handicapped Children (6 cr; prereq ♯)
IX-X T and ar, Grismer

53B Teaching Handicapped Children (6 cr; prereq 53A)
IX-X T and ar, Grismer

54A Student Teaching: Elem School (6 cr)
IX-X M and ar, Erlandson, others

54B Student Teaching: Elem School (6 cr; prereq 54A)
IX-X M and ar, Erlandson, others

55 Teaching in Inner City Schools (3 cr; prereq ¶elem student tchg, ♯)
IX-X W, NH 201, Thies

60 Student Teaching: Library Science (2-6 cr; prereq sr, Lib 53, 62, 70, 74, 171, 172 or ♯) Olson

67 **Student Teaching: Mathematics** (1 or 3 or 6 cr, †9 cr; prereq sr, ¶67C, Math 60 or ¶)
—1, IX-X M and ar (off-campus) Ronken, others
—2, Ar (on-campus) David Johnson, others

67C **Teaching Secondary School Mathematics** (1 cr, †67A-B-C; prereq 67B)
—1, I MW, CD 218, Hatfield
—2, IX-X W, PeikH 315, Kieren

67M Teaching Secondary School Mathematics (3 cr; prereq min only)
IX-X TTh, PeikH 325, Hatfield, Kieren

68 **Student Teaching: Science** (1 or 3 or 6 cr, †9 cr; prereq sr, ¶68C)
—1, IX-X M and ar (off-campus) Ronken, others
—2, Ar (on-campus) Boeck, others

68C **Teaching Secondary School Science** (1 cr, †68A-B-C; prereq 68B)
—1, IX-X W, PeikH 375, Boeck (phys sci maj only)
—2, IX-X W, PeikH 385, Gennaro (nat sci maj only)

68M Teaching Secondary School Science (3 cr; prereq min only)
IX-X TTh, PeikH 375, Boeck

69 **Student Teaching: Social Studies** (3-6 cr; prereq sr, ¶69A)
—1, IX-X M and ar (off-campus) Ronken, others
—2, VIII W and ar (on-campus) PeikH 165, Beery, others

69B Teaching Social Studies in Secondary School (2 cr, †69A-69B; prereq 69A, ¶69)
IX-X TTh, PeikH 165, Beery

69J Student Teaching: Social Studies Juniors (1 cr; prereq jr, ¶Ed 55A or B)
VIII T and ar (on-campus) PeikH 165, Beery, others

69M Teaching Social Studies in Secondary School (3 cr; prereq min only)
VIII MWF, PeikH 375, Rockler

70 **Student Teaching: Modern Languages** (3 or 6 cr, †9 cr; prereq sr, ¶70C)
—1, IX-X M and ar (off-campus) PeikH 215, Ronken, others
—2, VIII-IX F and ar (on-campus) PeikH 225, Lange, others

70B Teaching Modern Languages (2 cr, †70A-70B; prereq 70A, ¶70)
4:00-5:30 TTh, PeikH 225, Lange

70M Teaching Modern Languages (3 cr; prereq min only)
IX-X TTh, PeikH 215, Birkmaier

71 Student Teaching: Latin (3-9 cr, †9 cr; prereq sr, ¶71C)
IX-X M and ar (off-campus) PeikH 215, Ronken, others

71B Teaching Latin (2 cr, †71A-71B; prereq 71A, ¶71)
4:00-5:30 TTh, PeikH 225, Lange

71M Teaching Latin (3 cr; prereq min only)
IX-X TTh, PeikH 215, Birkmaier

72 Student Teaching: Distributive Education (3-9 cr, †9 cr; prereq Ed 55B, ♯)
VI-VII F and ar, Bu 105, Ashmun

73 Student Teaching: Business Subjects (3-9 cr, †9 cr; prereq Ed 55B, ♯)
5:00-6:30 M, Bu 125, Hopkins

75 **Student Teaching: Language Arts** (3 or 6 cr, †9 cr; prereq sr, ¶75C or ¶75D)
—1, IX-X M and ar (off-campus) Ronken, others
—2, Ar (on-campus) Kemp, others

75B Teaching Language Arts in Secondary School (1 cr, †75A-B, C or D; prereq 75A)
IX MW, PeikH 275, Kemp

75C Teaching Language Arts in Secondary School (1 cr; prereq sr, ¶75)
IX-X T, PeikH G55, Horswill

75D Teaching Language Arts in Secondary School (1 cr, †75A-B, C or D; prereq sr, ¶75)
IX-X T, JohH 122, Piche

75G Teaching Language Arts in Secondary School (3 cr; prereq min in Engl or lang arts with maj other than spch)
IX-X TTh, PeikH 275, Bacig

76G Teaching Language Arts in Secondary School (3 cr; prereq min in spch with maj other than Engl)
IX-X TTh, PeikH G55, Horswill

77 Student Teaching: Nursery School (1-6 cr)
IX-X M and ar, Pt 102, Sorensen, others

78 Student Teaching: Kindergarten (6 cr)
IX-X M and ar, Sorensen, others

79 Student Teaching: Primary Grades (6 cr)
IX-X M and ar, Sorensen, others

80 Teaching Typewriting, Bookkeeping (2 cr; prereq Ed 55B or ¶)
VIII-IX MW, PeikH 270, Hopkins

90C Teaching Distributive Education Subjects (2 cr, †90A-B-C; prereq 90B)
VII TTh, Bu 105, Ashmun

MUSIC EDUCATION (MuEd)

5 **Applied Instrumental Technique** (2 cr; prereq mus educ maj or ♯)
VI MTWTh, MusEd 101, Prescott

6 **Applied Instrumental Technique** (2 cr; prereq mus educ maj or ♯)
VII MTWTh, MusEd 101, Prescott

7 Applied Instrumental Technique (2 cr; prereq 4, mus ed maj, ♯)
III TWThF, MusEd 104, Sieber

8 Instrumental Technique (2 cr; prereq MuEd maj or ♯)
II MTWTh, MusEd 101, Prescott

9A Instrumental Technique (1 cr; prereq 5)
I MW, MusEd 101, Prescott

9B Instrumental Technique (1 cr; prereq 9A)
I TTh, MusEd 101, Prescott

20 Educators Chorus (1 cr; prereq mus maj or min in educ)
II MWF, NMA 4, Caswell

51 Teaching Music: Kindergarten, Primary Grades (2 cr; prereq Mus 4)
—1, I MWF, WuH 320, Nyberg
—2, II MWF, ScH 104, Nyberg
—3, III MWF, ScH 104, Coleman
—4, V MWF, ScH 104, Borg

52 Teaching Music: Interm Grades (2 cr; prereq 51, Mus 4 or ♯)
—1, I MWF, NMA 4, Swanson
—2, III MWF, NMA 4, Dickinson
—3, VI MWF, ScH 104, Coleman
—4, VIII MWF, ScH 104, Swanson

53 Teaching Music in Secondary Schools (3 cr; prereq 20, 59, Mus 3T, ♯)
III MWF, NMA 5, Caswell

54 Teaching Music in Nursery, Kindergarten, Primary Grades (2 cr; prereq Mus 4)
VII MWF, ScH 103, Swanson

55 Music for Recreational Leadership (2 cr; prereq Mus 4)
III TTh, ScH 104, Nyberg

59 Choral Literature, Conducting (1 or 2 cr; prereq 20)
V TTh, WuH 320, Byrne

61 Student Teaching, Supervision (3-12 cr; prereq 60)
IX-X W, ScH 104, Borg, Caswell

65 Instrumentation (3 cr; prereq sr, Mus 6T)
V MWF, NMA 4, Byrne

69 Instrumental Literature, Conducting (1 or 2 cr)
VI TWTh, NMA 4, Bencriscutto

102 Gen Music in Elem, Jr High Schools (3 cr; prereq 52 or ♯)
IX-X M, ScH 104, Borg

224 Research Probs (3-9 cr; prereq elem stat)
VIII W, ScH 214, Borg, Caswell

253 Seminar: Curriculum Development (3 cr; prereq 252)
IX-X T, ScH 104, Borg, Caswell

PHYSICAL EDUCATION

For Facilities Fees, see page 114

Undergraduate Courses for Men (PEM)

Nonprofessional Courses

1C Courses Open to Men Only (1 cr except where noted)

Adapted Activities (activity rating 1, 2, 3, 4, 5)
—1, III MWF, StadNorth 264, Osell
—2, IV MWF, StadNorth 264, Osell
—3, VIII MWF, StadNorth 264, Osell

Angling (activity rating 1, 2, 3)
—4, III MWF, Gym (**StP Campus**) Nowotny

Archery, Bgn (activity rating 1, 2, 3)
—5, I MWF, FieldHse, Gostick
—6, II MWF, FieldHse, Gostick
—7, II MWF, Gym (**StP Campus**) Serfass

Bowling, Bgn (activity rating 1, 2, 3)
—8, I MWF, CMU, Hunt
—9, II MWF, CMU, Hunt

Conditioning (activity rating 1, 2)
—10, V MWF, FieldHse, Gostick
—11, 11:15-12:30 MW, FieldHse, Weingarten

Diving (activity rating 1)
—12, VI MWF, CH Pool, Walker

Foundations of Physical Activity (activity rating 1) (2 cr)
—13, IV MWF, CH 420, Serfass

Golf (activity rating 1, 2, 3)
—14, I MWF, StadSouth 267, Tutt
—15, II MWF, StadSouth 267, Anderson
—16, III MWF, StadSouth 267, Bolstad
—17, IV MWF, StadSouth 267, Bolstad
—18, 10:15-11:30 TTh, StadSouth 267, Bolstad
—19, V MWF, Gym (**StP Campus**) Finstad
—20, VI MWF, Gym (**StP Campus**) Finstad

Handball, Paddleball (activity rating 1, 2)
—21, II MWF, StadNorth, Prawdzik
—22, III MWF, StadNorth, Marshall

Judo, Bgn (activity rating 1, 2)
—23, 2:15-3:30 MW, StadNorth 205, Dorey

Karate (activity rating 1, 2)
—24, 12:15-1:30 TTh, CH Gym, Bird, Hyon
Softball (activity rating 1, 2)
—25, 11:15-12:30 TTh, FieldHse, Sonmor
—26, IV MWF, Gym (**StP Campus**) Nowotny
Swimming, Bgn (activity rating 1)
—27, III MWF, CH Pool, Walker
—28, VI MWF, CH Pool, Bird
Tennis, Bgn (activity rating 1, 2)
—29, I MWF, CH Gym, Prawdzik
—30, I MWF, Gym (**StP Campus**) Serfass
—31, 8:15-9:30 TTh, Gym (**StP Campus**) Serfass
—32, II MWF, CH Gym, Desmond
—33, III MWF, CH Gym, Desmond
—34, V MWF, CH Gym, Desmond
Track, Field (activity rating 1, 2)
—35, 1:15-2:30 TTh, FieldHse, Weingarten
Trampoline, Apparatus (activity rating 1, 2) Bird, Walker
—36, VII MWF, CH AppGym
Weight Training (activity rating 1, 2)
—37, 11:15-12:30 TTh, StadNorth 264, Weingarten
—38, VI MWF, StadNorth 264, Sonmor
—39, VII MWF, StadNorth 264, Weingarten
Freshman Baseball
—40, Ar, Gostick
Freshman Golf
—41, Ar, Bolstad
Freshman Tennis
—42, Ar, Walsh
Freshman Track
—43, Ar, Griak

1C Courses Open to All Men and Women
Dance, Ballroom, Bgn (activity rating 1, 2, 3)
—44, 10:15-11:20 TTh, NGW 153
Dance, Folk, Square, Bgn (activity rating 1, 2)
—45, 12:15-1:20 TTh, NGW 153
Dance, Modern, Bgn (activity rating 1, 2)
—46, VI MWF, NGW 151
Fencing, Bgn (activity rating 1, 2)
—47, IV MWF, NGW 153

2C Courses Open to Men Only (1 cr except where noted)
Bowling, Interm (activity rating 1, 2, 3) (prereq Bgn Bowling or 150 average)
—1, 8:15-9:30 TTh, CMU, Hunt
Judo, Interm (activity rating 1, 2)
—2, 2:15-3:30 TTh, StadNorth 205, Dorey
Life Saving (activity rating 1) (prereq ARC swimmer test)
—3, III MWF, CH Pool, Mowerson
Scuba Diving (activity rating 1) (prereq ARC swimmer test)
—4, IV-V MW, CH Pool, Mowerson
Swimming, Interm (activity rating 1) (prereq swim 25 yards)
—5, II MWF, CH Pool, Walker
Tennis, Interm (activity rating 1, 2)
—6, IV MWF, CH Gym, Walsh
—7, VI MWF, CH Gym, Desmond
Water Safety Instructor (activity rating 1) (prereq ARC Sr Life Saving) (2 cr)
—8, V-VI TTh, CH Pool, Mowerson
Varsity Baseball
—9, Ar, Siebert
Varsity Golf
—10, Ar, Bolstad
Varsity Tennis
—11, Ar, Walsh
Varsity Track
—12, Ar, Griak

2C Courses Open to All Men and Women (1 cr)
Dance, Ballroom, Interm (activity rating 1, 2, 3)
—13, 3:15-4:20 TTh, NGW 151
Dance, Modern, Interm (activity rating 1, 2) (prereq Bgn Modern Dance)
—14, II MWF, NGW 153
Dance, Modern, Adv (activity rating 1, 2) (prereq Interm Modern Dance)
—15, VII MWF, NGW 153
Dance Techniques (activity rating 1, 2) (prereq adv modern dance)
—16, 11:15-12:20 TTh, NGW 153
Fencing, Interm (activity rating 1, 2) (prereq Bgn Fencing)
—17, V MWF, NGW 153
Tennis, Interm (activity rating 1, 2) (prereq Bgn Tennis)
—18, 9:15-10:30 TTh, CH Gym, Walsh

Professional Courses

4B Basketball Fundamentals (1 cr)
8:15-9:15 TTh, WmsA, Hanson

4C Track Fundamentals (1 cr)
12:25-1:25 TTh, FieldHse, DeSchriver, Griak

5C Stunts, Contests, Softball, Baseball (1 cr)
9:25-10:25 TTh, CH 215, Bird, DeSchriver, Siebert

6C Aquatics (1 cr; prereq swim 50 yds in 45 seconds)
10:35-11:35 TTh, CH Pool, Mowerson

7C Recreational Games (1 cr)
11:15-12:15 TTh, CH Gym, Dorey, Piper

8 Tennis, Golf (1 cr)
1:35-2:35 TTh, Bolstad, Walsh

9B Square, Ballroom Dancing (1 cr)
9:15-10:30 TTh, NGW 151, Piper, Lampe

55 Methods, Materials (4 cr; prereq 9 cr req activity classes, Ed 55A or ¶)
II MWF and ar, CH 420, Metz, Torpey

60A Prevention, Care of Injuries (3 cr; prereq 50 or Anat 27)
IV MWF, CH 206, Stein

60B Athletic Training Lab (1 cr; prereq 60A)
III Th, CH Training Rm, Marshall, Stein

63 Organization, Admin (3 cr; prereq 32 or 82, 55)
III MWF, CH 215, Piper, Dorey

67 Football Coaching (2 cr; prereq 4A or 1 yr squad exper)
V MWF, CH 215, Nash

75 Student Teaching (3 or 6 cr, †9 cr; prereq 55, Ed 55B)
I or V T, CH 214, Ostrander, Torpey, Richardson

76 Student Teaching (9 cr, §75; prereq 55, Ed 55B)
I or V T, CH 214, Ostrander, Torpey, Richardson

77 Student Teaching for Coaching Certificate (3 cr; prereq sr)
I or V T, CH 214, Ostrander, Torpey, Richardson

81 Coaching of Ice Hockey (2 cr; prereq 6B or ♯)
8:15-9:30 TTh, CH 420

96 Admin of Intramural Sports (2 cr)
VI MWF, CH 214, Mueller

Undergraduate Courses for Women (PEW)

For Facilities Fees, see page 114

(First Class Meeting in Norris Gym, except StP classes)

C Courses Open to Women Only
Aquatics (activity rating 1)
Swimming, Bgn
—1, II MWF, NGW 51 (1 cr)
—2, VI MWF, NGW 51 (1 cr)
—3, 1:15-2:20 TTh, Gym Pool **(StP Campus)** (1 cr)
Swimming, Adv-Bgn
—4, VIII MWF, NGW 51 (1 cr)
—5, 1:15-2:20 TTh, NGW 51 (1 cr)
Swimming, Interm
—6, III MWF, NGW 58 (1 cr)
—7, 2:15-3:20 TTh, NGW 58 (1 cr)
Swimming, Adv, Diving
—8, IV MWF, NGW 58 (1 cr)
Swimming, Synchronized
—9, VII MWF, NGW 58 (1 cr)
ARC Sr Life Saving (1 cr; prereq ability to swim 440 yds)
—10, V MWF, NGW 58 (1 cr)
Water Safety Instructors Course (2 cr; prereq current ARC Sr Life Saving certificate)
—11, 9:15-11:20 TTh, NGW 58 (2 cr)
—12, 12:15-2:20 TTh, NGW 58 (2 cr)
—13, 3:15-5:20 TTh, NGW 58 (2 cr)
Gymnastics
Posture, Individual Exercise (activity rating 1, 2, 3)
—14, IV MWF, NGW 153A (1 cr)
—15, V MWF, NGW 153A (1 cr)
—16, VI MWF, NGW 153A (1 cr)
Conditioning Exercises (activity rating 1, 2)
—17, 1:15-2:20 TTh, NGW 153 (1 cr)
—18, 3:15-4:20 TTh, NGW 153 (1 cr)
Adapted Activities (activity rating 4)
—19, 2:15-3:20 TTh, NGW 153 (1 cr)
Individual, Dual Sports
Archery, Bgn (activity rating 1, 2, 3)
—20, VII MWF, NGW 60 (1 cr)
Archery, Interm (activity rating 1, 2, 3) (1 cr; prereq Bgn Archery)
—21, 3:15-4:20 TTh, NGW 60 (1 cr)
Golf, Bgn (activity rating 1, 2, 3)
—22, 9:15-10:20 TTh, Gy 100 **(StP Campus)** (1 cr)
—23, 10:15-11:20 TTh, Gy 100 **(StP Campus)** (1 cr)
—24, II MWF, NGW 60 (1 cr)
—25, III MWF, NGW 60 (1 cr)
—26, IV MWF, NGW 60 (1 cr)
—27, V MWF, NGW 60 (1 cr)
—28, VI MWF, NGW 60 (1 cr)
Golf, Interm (activity rating 1, 2, 3) (1 cr; prereq Bgn Golf)
—29, 11:15-12:20 TTh, NGW 60 (1 cr)
—30, 12:15-1:20 TTh, NGW 60 (1 cr)
Riflemarksmanship, Bgn (activity rating 1, 2, 3)
—31, 2:15-3:20 TTh, NGW 201 (1 cr)
—32, 3:15-4:20 TTh, NGW 201 (1 cr)
Tennis, Bgn (activity rating 1, 2)
—33, 11:15-12:20 TTh, Gy 100 **(StP Campus)** (1 cr)

—34, 12:15-1:20 TTh, Gy 100 **(StP Campus)** (1 cr)
—35, I MWF, NGW 151 (1 cr)
—36, II MWF, NGW 151 (1 cr)
—37, III MWF, NGW 151 (1 cr)
—38, 8:15-9:20 TTh, NGW 151 (1 cr)
—39, 12:15-1:20 TTh, NGW 151 (1 cr)
—40, 2:15-3:20 TTh, NGW 151 (1 cr)

Tennis, Interm (activity rating 1, 2) (1 cr; prereq Bgn Tennis)
—41, 1:15-2:20 TTh, NGW 151 (1 cr)

Tennis, Adv (activity rating 1, 2) (1 cr; prereq Interm Tennis)
—42, 11:15-12:20 TTh, NGW 151 (1 cr)

Track, Field (activity rating 1, 2)
—43, III MWF, NGW 153A (1 cr)

Team Sports

Softball (activity rating 1, 2)
—44, VIII MWF, NGW 60 (1 cr)

La Crosse
—45, 1:15-2:20 TTh, NGW 201 (1 cr)

C Courses Open to Men and Women

Fencing, Bgn (activity rating 1, 2)
—46, IV MWF, NGW 153 (1 cr)

Fencing, Interm (activity rating 1, 2) (1 cr; prereq Bgn Fencing)
—47, V MWF, NGW 153 (1 cr)

Tennis, Interm (activity rating 1, 2) (1 cr; prereq Bgn Tennis)
—48, 9:15-10:30 TTh, CH Gym (1 cr)

Dance

Ballroom Dance, Bgn (activity rating 1, 2, 3)
—49, 10:15-11:20 TTh, NGW 153 (1 cr)

Ballroom Dance, Interm (activity rating 1, 2, 3) (1 cr; prereq Bgn Ballroom Dance)
—50, 3:15-4:20 TTh, NGW 153 (1 cr)

Folk, Square Dance, Bgn (activity rating 1, 2)
—51, 12:15-1:20 TTh, NGW 153 (1 cr)

Modern Dance, Bgn (activity rating 1, 2)
—52, VI MWF, NGW 151 (1 cr)

Modern Dance, Interm (activity rating 1, 2) (1 cr; prereq Bgn Modern Dance)
—53, II MWF, NGW 153 (1 cr)

Modern Dance, Adv (activity rating 1, 2) (1 cr; prereq Interm Modern Dance)
—54, VII MWF, NGW 153 (1 cr)

Dance Techniques (activity rating 1, 2) (1 cr; prereq Adv Modern Dance)
—55, 11:15-12:20 TTh, NGW 153 (1 cr)

Professional Courses

22A Folk, Ballroom Dance (1 cr)
9:15-10:30 TTh, NGW 151, Lampe, Piper

22B Golf (1 cr)
II-III TTh, NGW 60, Gunderson

22C Tennis (1 cr)
—1, IV MWF, NGW 151, Tenney
—2, V MWF, NGW 151, Tenney

22D Speedaway, Softball (1 cr)
VI-VII TTh, NGW 60, Boaz

40C Stunts, Tumbling, Apparatus (1 cr)
2:15-3:10 MWF, NGW 153, 153A, Plack

42A Senior Life Saving (1 cr; prereq 41A)
VI MWF, NGW 58

45 Physical Education Activities for the Elem School (2 cr; prereq elem educ maj only)
—1, III MWF, NGW 153, 153A, Young
—2, VIII MWF, NGW 153, 153A, Cato

46 Water Safety Instructor's Course (2 cr; prereq current ARC Certificate)
—1, II-III TTh, NGW 58, Stoner
—2, V-VI TTh, NGW 58, Eibner
—3, VIII-IX TTh, NGW 58, Stoner

54 Camp Leadership (3 cr)
IV MWF, NGW 201, Stoner

56 Teaching of Dance (3 cr, §47; prereq 21B, 22A, 40A)
VI MTWF, NGW 4, 153, 1 hr ar, Mordine

57 Teaching Posture, Self-Testing Activities (3 cr, §85; prereq 21D, 40C)
I-II TTh, NGW 3, 153, 153A, Cato

70 Teaching Health, Physical Educ in Elem School (3 cr, §Hlth 70; prereq 45, 3rd qtr soph, elem educ maj)
—1, III TTh, IV T, NGW 201, Plack
—2, VI MWF, NGW 201, Plack
—3, VII MWF, NGW 201, Cato

80 History, Trends in Dance (3 cr; prereq ‡)
IV MWF, NGW 4, Dietz

89 Dance Production (3 cr; prereq ‡)
3:30-4:45 MW, NGW 151, Dietz, Mordine

90B Student Teaching in Jr High School (3 cr; prereq Ed 55A-B, maj, ¶90C)
III TTh, NGW 4 and ar, Hauptfuehrer, Slocum

90C Student Teaching in Sr High School (3 cr; prereq Ed 55A-B, maj, ¶90B)
III TTh, NGW 4 and ar, Hauptfuehrer, Slocum

90D Student Teaching in Elem School (3 cr; prereq Ed 55A-B, maj)
III TTh, NGW 4 and ar, Hauptfuehrer, Slocum

90E Adv Student Teaching (3 cr; prereq ‡)

93 Student Teaching for Minors (3 cr; prereq Ed 55A-B, phys educ min) Hauptfuehrer

95 Administration (3 cr; prereq sr)
III MWF, NGW 3, Jaeger, Slocum

Professional Courses for Men and Women (PE)

44 Physical Education Activities for Elementary School (3 cr; prereq phys ed maj, soph)
I MTWF, NGW 153, 153A, 1 hr ar, Lampe, Torpey

61 History of Physical Education (3 cr)
I MWF, CH 214, Donnelly

97 Testing (2 cr; prereq Ed 55B)
12:15-1:30 TTh, CH 206, McAdam

115 Adv Kinesiology (3 cr; prereq undergrad kinesiology or ‡)
II MWF, NGW 4, Wilson

118E Problems (ar cr; prereq MEd cand, ‡)

137 Readings: Physical Education (1-3 cr; prereq sr honor, grad, ‡)

171 Applied Physiology (3 cr; prereq PubH 92 or Phys 51)
III-IV S, CH 215, 1 hr ar, Alexander

224B Research Probs (ar cr; prereq 224A or ‡)

261A Seminar: Contemporary Probs (3 cr; prereq 136, ‡)
I-II S, CH 214, 1 hr ar, McAdam

RECREATION AND PARK ADMINISTRATION (Rec)

11 Survey of Recreation Activities (3 cr)
I MWF, CH 215, Schultz

43 Camp Aquatics (2 cr)
II MWF, CH 214, CH Pool, Ostrander

45 Camp Craft (2 cr)
VI-VII TTh, CH 214, Ostrander

46 Camp Leadership (2 cr)
VII MW, CH 206, Osell, Ostrander

58 Leadership in Community Recreation (3 cr; prereq 57)
IV MWF, CH 214, Schultz

64B Leadership in Nature Recreation (2 cr; prereq 64A)
—1, 12:15-2:30 T, CH 215
—2, 12:15-2:30 Th, CH 215

84 Field Work in Recreation (ar cr; prereq jr, rec maj)
I T, CH 206, 6 hrs ar, Giles, Scott

85 Field Work in Recreation (ar cr; prereq sr, rec maj or min)
V W, CH 206, 3 hrs ar min, 6 hrs ar maj, Giles, Scott

111 Recreation Areas, Facilities (3 cr; prereq 57, 58)
IV MWF, CH 215, Giles

112 Programming in Recreation (3 cr; prereq 57, 58)
VI MWF, CH 215, Schultz

118E Problems (ar cr; prereq MEd cand, ‡)

121 Prin of Recreation Methods (3 cr; prereq EdT 84)
II MWF, CH 215, Chapman

131 Industrial Recreation (3 cr; prereq ‡)
I MWF, CH 206, Starr

137 Readings: Recreation (1-3 cr; prereq sr honor, grad, ‡) Chapman

142 Leadership in Hospital Recreation (3 cr; prereq 141)
III MWF, CH 214, Scott

224A Research Probs (3 cr; prereq PE 136, EPsy 116 or ‡)

224B Research Probs (ar cr; prereq 224A or ‡)

240 Legal, Financial Aspects of Recreation (3 cr)
III-IV Th, CH 206, Anderson

261B Seminar: Contemporary Probs (ar cr; prereq cons adv)
III-IV T, CH 206, Anderson

SCHOOL HEALTH EDUCATION (Hlth)

25 ARC: Standard Adv First Aid (2 cr)
—1, III MWF, NGW 153, 201, Hauptfuehrer
—2, V MWF, NGW 153, 201, Wilson

59 Instructor's Course in First Aid (3 cr; prereq age 20, ARC current certificate)
II MWF, CH 206, Osell

70 Teaching Health, Physical Education in the Elem School (3 cr, §PEW 70; prereq PEW 45, 3rd qtr soph, elem educ maj)
—1, III TTh, IV T, NGW 201
—2, VI MWF, NGW 201
—3, VII MWF, NGW 201

91B School Health Education, First Aid for NKP (3 cr; prereq NKP maj, 3rd qtr soph)
II MWF, NGW 201, Slocum

94 Student Teaching: School Health Education (2 cr; prereq sr, 83, ‡) Slocum

114 Admin of School Health Education (3 cr; prereq 83, PubH 50 or ‡)
4:00-5:15 MW, NGW 3, Slocum

118E Problems (ar cr; prereq MEd cand, ♯) Slocum
137 Readings: Health Education (1-3 cr; prereq sr honor, grad, ♯) Slocum
224A Research Probs (3 cr; prereq PE 136, EPsy 116 or ♯) Slocum
224B Research Probs (ar cr; prereq 224A or ♯) Slocum

GENERAL COLLEGE (GC)

1A Individual Adjustment (4 cr)
II-III TTh, AE 209, King

1B Vocational Planning (5 cr; prereq ♯ or cons couns)
I MTWThF, NH 216, Long

2A Psychology in Modern Society (5 cr)
—1, I MTWThF, NH 211, Borow, lab ar
—2, VII MTWThF, NH 211, Eichinger, lab ar

2B Fields of Applied Psychology (5 cr; prereq 2A)
—1, II MTWThF, NH 211, Pettman, lab ar
—2, V MTWThF, NH 211, Eichinger, lab ar

2C Psychology of Human Development (3 cr)
IV MWF, NH 211, Shapiro

3A Home Life; Marriage, Family Living (5 cr)
—1, II MTWThF, Pt 102, Latts
—2, V MTWThF, JohH 113, Hansen
—3, VII MTWThF, ForH 115, Hansen

3C Clothing Selection, Purchase, Care (3 cr)
VIII MWF, JohH 113

3E Income Mgt: Individual, Household Buying (2 cr)
II TTh, FolH 108

5A Functions, Probs of Philosophy (3 cr)
IV MWF, A 116, Zanoni

5B Functions, Probs of Logic (3 cr)
—1, I MWF, AH 350, Kroiss
—2, II MWF, AH 350, Zanoni
—3, VII MWF, A 12, Pavlos

5C Probs of Ethics (3 cr)
—1, II MWF, AE 209, Pavlos
—2, V MWF, AE 209, Pavlos

5D Man's Religious Beliefs (3 cr)
V MWF, NH 213, Sheldon

6A Science in Context: Weather, Climate (5 cr)
I MTWThF, SciB 175, A Johnson, lab ar

7A Physics (5 cr)
—1, II MTWThF, Ph 170, Rassweiler
—2, VII MTWThF, Ph 170, Policoff

7B Astronomy (5 cr)
IV MTWThF, Ph 170, Policoff, lab ar

7C Chemistry (5 cr)
—1, II MTWThF, SciB 175, Ario
—2, VI MTWThF, SciB 175, Ario

7D Geology (5 cr)
—1, III MTWThF, SciB 175, A Johnson, lab ar
—2, VII MTWThF, SciB 175, M Harris, lab ar

7E Modern Physical Science (3 cr; prereq phys, chem, one in col)
III MWF, Ph 133, Schwabacher

7F Historical Geology (5 cr; prereq 7D)
V MTWThF, SciB 175, M Harris, lab ar

8A Applied Mathematics (5 cr)
—1, I MTWThF, NH 207, Caron
—2, I MTWThF, MinMet 116, Ekstrand
—3, III MTWThF, NH 207, Lester
—4, III MTWThF, MinMet 116, Ekstrand
—5, VII MTWThF, NH 207, Chally
—6, VII MTWThF, MinMet 120, Greenfield

8B Applied Mathematics (5 cr; prereq 8A)
—1, II MTWThF, MinMet 116, Lester
—2, V MTWThF, MinMet 124, Cook
—3, VI MTWThF, MinMet 116, Greenfield

9A Statistics (5 cr)
—1, II MTWThF, ChE 50, Cook
—2, IV MTWThF, MinMet 124, Mandeville
—3, VI MTWThF, ME 102, McCutcheon
—4, VIII MTWThF, MinMet 116, Giese

9B Basic Concepts in Mathematics (5 cr)
—1, II MTWThF, NH 207, Klippenstein
—2, IV MTWThF, V MW, NH 207, Denny
—3, VI MTWThF, V TTh, VH 207, Denny
—4, VIII MTWThF, NH 207, Chally

10A Prin of Biology (5 cr)
—1, II MTWThF, SciB 125, Dearden, lab ar
—2, V MTWThF, SciB 125, Dearden, lab ar

10B The Human Body: Structure, Function, Health (5 cr)
—1, III MTWThF, SciB 125, Jefferson
—2, VII MTWThF, SciB 125, Jefferson

11A Science in Context: Man, His Environment (5 cr)
IV MTWThF, SciB 125, Owen

11B Science in Context: Utilization of Natural Resources (5 cr, §old 38B)
VI MTWThF, SciB 125, Owen

12A Lab Biology (1 cr; prereq 10A)
—1, I-II M, FolH 125, Liston
—2, IV-V M, FolH 125, Liston
—3, II-III T, FolH 125, Liston
—4, IV-V T, FolH 125, Liston
—5, VII-VIII T, FolH 125, Liston
—6, I-II W, FolH 125, Liston
—7, III-IV W, FolH 125, Liston
—8, VI-VII W, FolH 125, Liston

15 Intro to Modern Business (5 cr, §19A in 65f, 66w, 66s)
—1, Lect II TTh, Arch 25, Kroll
—2, Lect VII TTh, Arch 25, Kroll
—1, I MWF, NH 209A, Kroll
—2, II MWF, NH 209A, Kroll
—3, III MWF, NH 209A, Rian
—4, V MWF, NH 209A, Rian
—5, VI MWF, NH 209A, Rian
—6, VII MWF, NH 209A, Ludlow

16 Accounting Fundamentals (5 cr, §16A-B)
—1, I MTWThF, FolH 110, Ruth Larson
—2, IV MTWThF, FolH 110, Ruth Larson
—3, V MTWThF, FolH 110, Berger
—4, VI MTWThF, FolH 110, Donnelly

17 Consumer Probs (5 cr, §17A or 17B)
Lect II MWF, Arch 25, Berger
—1, II TTh, NH 209A, Berger
—2, III TTh, NH 209A, Roger Larson
—3, V TTh, NH 209A, Roger Larson
—4, VII TTh, NH 209A, Roger Larson

18C Retailing, Selling (5 cr; prereq 18B or ♯)
Lect III M, FraH B1, Crisp
—1, II-III TTh, Bu 105, Crisp
—2, II-III WF, Bu 105, Ludlow
—3, IV MTWThF, Bu 105, Goodenough

18D Salesmanship (3 cr)
V MWF, Lib 4A, Goodenough

19A Probs of Business Transactions (5 cr)
—1, II MTWThF, A 12, Folz
—2, VI MTWThF, Arch 135, Ford

19B Probs of Investment Transactions (3 cr; prereq 19A after 65s)
III MWF, Arch 135, Folz

20A Practical Law (5 cr)
—1, II MTWThF, Arch 135, Hower
—2, V MTWThF, Arch 135, Hower
—3, VIII MTWThF, Arch 135, Donnelly

20B Law in Society (5 cr)
—1, III MTWThF, FolH 110, Geraghty
—2, VII MTWThF, FolH 110, Geraghty

21 Gen Arts (3 cr)
—1, II MWF, NH 111, Safer
—2, V MWF, NH 111, Byrne
—3, VII MWF, NH 111, MacInnes
—4, 9:45-11:00 TTh, NH 111, Stokes

22C Creativity, Creative Personalities (3 cr)
IV MWF, NH 111, Stokes

23A Art Lab (3 cr)
—1, I-II MW, NH 102, 1 hr ar, K Johnson
—2, III-IV WF, NH 102, 1 hr ar, Logan
—3, VI-VII MW, NH 102, 1 hr ar, Marvy
—4, VI-VII TTh, NH 102, 1 hr ar, Heap

23B Commercial Art (3 cr)
II-III TTh, NH 102, MacInnes

24C Music Today: Twentieth Century (3 cr)
—1, III MWF, NH 111, Byrne
—2, VIII MWF, NH 111, MacInnes
—3, 12:45-2:00 TTh, NH 111, Stokes

25A Music Lab: Materials of Music (3 cr)
—1, VI MWF, NH 111, Safer (For Beginners)
—2, 11:15-12:30 TTh, NH 111, Byrne

26A Photography (3 cr)
VI-VIII T, VI-VII Th, J 2, Wilcox

26B Photography (3 cr; prereq 26A or exper, ♯)
VI-VIII T, VI-VII Th, J 2, Wilcox

28B French Language, Civilization (5 cr; prereq 28A or ♯)
VI MTWThF, NH 211, Keeler

29A World Literature I (5 cr)
—1, II MTWThF, NH 213, Kivits
—2, VII MTWThF, NH 213, Kivits

29B World Literature II (5 cr)
—1, III MTWThF, NH 213, Wyvell
—2, VIII MTWThF, NH 213, Wyvell

29C American Literature (3 cr)
IV MWF, NH 213, Kurak

29F Reading Poetry (3 cr)
VI MWF, NH 213, Kurak

30A Reading, Vocabulary Development (5 cr)
—1, Lect V MWF, ForH 150, VH 303, **CCTV**, Sartain
Lab III TTh, FolH 102, Sartain
—2, Lect V MWF, Arch 30, AE 321, **CCTV**, Sartain
Lab VI TTh, FolH 102, Sartain

30B Fundamentals of Usage, Style (3 cr)
VI MTWTh, Arch 25, Nielson

31A Writing Lab: Personal Writing (3 cr)
—1, II-III M, II WF, NH 216, O'Neill
—2, II-III TTh, NH 216, Reisman
—3, III-IV M, III WF, NH 201, Keeler

—4, III-IV M, IV WF, FolH 102, Gerstein
—5, III-IV WF, NH 216, Reisman, Lyon
—6, V-VI M, V WF, FolH 102, Hoke
—7, V-VI M, VI WF, NH 201, Flom
—8, VI-VII WF, FolH 109, Woehrer
—9, VII-VIII TTh, FolH 109, Hoke

31B Writing Lab: Organizing Ideas (3 cr; prereq 31A)
—1, I-II TTh, NH 122, Bjork
—2, III-IV TTh, NH 201, Warren
—3, III-IV TTh, FolH 109, Gillespie
—4, IV-V TTh, FolH 102, Hardie
—5, V-VI M, V WF, NH 216, Wanhala
—6, V-VI M, V WF, NH 209, Warren
—7, V-VI TTh, FolH 109, Bjork
—8, VI-VII WF, FolH 102, Lindsey
—9, VII-VIII TTh, FolH 102, Gillespie

31C Writing Lab: Communicating in Society (3 cr; prereq 31B)
—1, I-II M, I WF, NH 122, Hardie
—2, I-II TTh, FolH 109, Lindsey
—3, II-III WF, NH 122, Rathburn
—4, III-IV M, IV WF, NH 122, Woehrer
—5, IV-V TTh, NH 216, Wanhala
—6, IV-V WF, NH 201, Hardie
—7, V-VI TTh, NH 122, Elsenpeter
—8, VI-VII TTh, NH 216, Warren
—9, VI-VII WF, NH 122, Lyon
—10, VI-VII WF, NH 216, O'Neill
—11, VII-VIII TTh, NH 209, Gerstein

31D Writing Lab: Business Writing (3 cr; prereq 31A...31B rec)
—1, I-II TTh, NH 201, Keeler (for DA students only)
—2, V-VI TTh, NH 201, Sheldon

31E Writing Lab: Individual Writing (3 cr; prereq 31A, ♯)
—1, I-II TTh, NH 107, Sheldon
—2, III-IV TTh, NH 122, Hoke

31F Writing Lab: Research Writing (3 cr; prereq 31B)
—1, I-II TTh, NH 209, Elsenpeter
—2, VI-VII WF, NH 209, Rathburn

32A Oral Communication: Basic Prin (3 cr)
—1, III MWF, NH 107, Hagen (for DA students only)
—2, V MWF, NH 122, Thiel
—3, VI MWF, NH 107, Brookbank, Hagen
—4, VIII MWF, NH 107, Thiel

32B Oral Communication: Language, Speech Style (3 cr; prereq 32A)
—1, II MWF, NH 107, Brookbank
—2, VII MWF, NH 107, Amram

32C Oral Communication: Speech Organization (3 cr; prereq 32A)
VII MWF, NH 201, Hagen

32D Oral Communication: Group Discussion (3 cr; prereq 32A)
III-IV TTh, NH 107, Brookbank

33A Oral Communication: Radio, Television Today (3 cr)
IV MWF, NH 107, Nelson

33B Oral Communication: Creative Speech Activities (3 cr; prereq 32A, ♯)
V-VI TTh, NH 107, Amram

34 Creative Problem Solving (4 cr)
Lect III MTW, ME 18, Amram
—1, III Th, ME 18, Amram
—2, III F, ME 18, Amram

38A Geography (5 cr)
I MTWThF, NH 213, Steinhauser

39 Intro to Cultural Anthropology (3 cr)
—1, IV MWF, ME 18, Holsteen
—2, VI MWF, ME 18, Holsteen

41A Man in Society: His Personal Role (5 cr)
—1, I MTWThF, JohH 122, Schafer
—2, II MTWThF, JohH 122, Kamerman
—3, III MTWThF, JohH 122, Schafer
—4, IV MTWThF, JohH 122, Kamerman
—5, V MTWThF, JohH 122, T Harris
—6, VIII MTWThF, JohH 122, Robins

41B Man in Society: His Organizational Role (5 cr; prereq 41A)
—1, II MTWThF, JohH 114, Appleby
—2, III MTWThF, JohH 114, F Harris
—3, VI MTWThF, JohH 122, Oldendorf

42A Economic Perspectives (5 cr)
—1, V MTWThF, ME 18, Cline
—2, VII MTWThF, Arch 40, Cline

43A Background of Modern World (5 cr)
—1, VI MTWThF, Ph 133, Jones
—2, VIII MTWThF, A 116, Jones

43B Biography (3 cr)
—1, IV MWF, JohH 113, Buckley
—2, VI MWF, AE 209, Buckley

43C The Far East (5 cr)
V MTWThF, Arch 25, Garnham

44B Current History: Latin American Relations (3 cr)
—1, III MWF, Bu 120, T Harris
—2, V MWF, C 325, T Harris

45A Growth of American Democracy (5 cr)
II MTWThF, MMA 125, Buckley

45C Minnesota History (5 cr)
I MTWThF, Arch 25, Moen

46A Functions of Govt (5 cr)
—1, V MTWThF, Arch 55, Hathaway
—2, VII MTWThF, Arch 55, Hathaway

46D Probs of Intl Relations (5 cr)
III MTWThF, Ph 170, Robins

LAW SCHOOL (Law)

101 Contracts (3 cr)
—1, VI MTW, FraH 20, Kinyon
—2, VI MTW, FraH B1, Bryden
—3, VI MTW, FraH 120, Dole
102 Criminal Law, Procedure (3 cr)
IV WThF, FraH 120, Pirsig
106 Legal Research (3 cr) Greene
107 Property I (3 cr)
—1, IV T, III ThF, FraH 101, Stein
—2, IV T, FraH B1, III ThF, FraH B1, Hogg
—3, IV T, III ThF, FraH 102, Waterbury
108 Torts (3 cr)
—1, IV M, I ThF, FraH 102, Livermore
—2, IV M, I TF, FraH 101, Morris
—3, IV M, FraH B1, I ThF, FraH B1, Dobbs
109 Intro to Procedure (3 cr)
—1, I MTW, FraH 20, Cound
—2, VI ThF, IV W, FraH 102, Dobbs
—3, I MTW, FraH 120, Wolfram
110 Constitutional Law (3 cr)
—1, II MTW, FraH 101, Lewis
—2, II MTW, FraH 102, Aurebach
—3, I MTW, FraH 102, Lockhart
121 Appellate Advocacy (3 cr) Adamson
123B Corporations II (3 cr)
V TWF, FraH 20, Morris
124 Real Estate Transactions (5 cr)
III MTW, FraH 101, III ThF, FraH 20, Hagman
130 Law Review (3 cr)
133A Business Planning II (3 cr)
VI W, FraH 102, VI ThF, FraH 210, Scallen
134 Equitable Remedies (3 cr)
I MTW, FraH B1, Bryden
141 Secured Transactions (3 cr; prereq 126)
III MTW, FraH 20, Kinyon
143 Creditor's Remedies (3 cr)
IV MTW, FraH 20, McClure
145 Estate Planning (4 cr)
II MTWTh, FraH 120, Stein
150 Insurance (3 cr)
I MTW, FraH 101, McCoid
155 Law of Labor Relations (4 cr)
VII TWThF, FraH 20, Dole
158 Legislation (3 cr)
II MTW, FraH 20, McClure
163 Practice (3 cr)
—1, VII WTh, FraH 102, II F, FraH 102, Graven
—2, VII WTh, FraH 101, II F, FraH 20, Hetland
167 Security Regulation (3 cr)
III WThF, FraH 120, Scallen
173 Taxation II (3 cr; prereq 123, 128)
V MTh, II F, FraH 101, Waterbury
174 Legal Aid (3 cr)
178 Adv Law Review (3 cr)
180 Federal Jurisdiction (4 cr)
V MTWTh, FraH 120, Wolfram
184 Unfair Competition (3 cr)
VI MT, IV Th, FraH 102, Livermore
187 Law, Medicine (3 cr)
VIII M, FraH 102, I ThF, FraH 20, McCoid
192 Seminar: Divorce Counseling (3 cr)
VIII Th, FraH 225, 226, Levy

COLLEGE OF LIBERAL ARTS

AMERICAN STUDIES (AmSt)

92 Proseminar (3 cr; prereq 91)
VIII-IX W, VH 6, Griffin
202 **Introduction** (3 cr; prereq 201)
—1, VIII-IX T, ForH 170, Kwiat
—2, VIII-IX W, CB(W) 255, Sibley
213 Seminar (3 cr; prereq 212)
VII-VIII W, BA(W) 933, Noble
242 Materials for Study of American Civilization (3 cr; prereq 241)
VIII-IX M, VH 6, Turpie

ANTHROPOLOGY (Anth)

1A **Intro to Prehistoric Man, Culture** (5 cr)
—1, Lect II MTWF, CCTV, NH 45, Johnson
—2, Lect VII MTWF, CCTV, NH 45, Johnson
—1, I Th, ForH 30
—2, I Th, ForH 40
—3, II Th, ForH 30
—4, II Th, ForH 40
—5, III Th, ForH 30

—6, III Th, ForH 40
—7, IV Th, ForH 30
—8, IV Th, ForH 40
—9, IV Th, SciB 527
—10, IV Th, WuH 130
—11, VI Th, ForH 30
—12, VI Th, ForH 40
—13, VI Th, WuH 130
—14, VI Th, ChE 154
—15, VII Th, ForH 30
—16, VII Th, ForH 40
—17, VII Th, WuH 130
—18, VII Th, C 115
—19, IX Th, ForH 30
—20, IX Th, ForH 40

2A Intro to Cultural Anthropology (5 cr)
—1, Lect IV MWThF, CCTV, NH 45, Spencer
—2, Lect VIII MWThF, CCTV, NH 45, Spencer
—1, I T, Arch 135
—2, I T, ME 106
—3, II T, ChE 162
—4, II T, ME 106
—5, III T, JohH 113
—6, III T, Z 211
—7, IV T, ChE 150
—8, IV T, ME 102
—9, IV T, AH 150
—10, IV T, ForH 349
—11, VI T, MurH 308
—12, VI T, Arch 130
—13, VI T, Bu 123
—14, VI T, ME 302
—15, VII T, ForH 349
—16, VII T, VH 1
—17, VIII T, ForH 115
—18, VIII T, ForH 30
—19, IX T, ForH 115
—20, IX T, ForH 30

42 Intro to World Ethnography (4 cr; prereq 2A)
2:15-3:30 TTh, ForH 285, Bender

68 Religion, Culture (3 cr; prereq 2A or 100)
II MWF, ForH 155, Kiste

80 Indians of North America (3 cr; prereq 2A or 100)
111 MWF, ForH 155, Johnson

95H Honors Seminar (3 cr; prereq adm to anth honors program or ♯)
VII-VIII M, ForH 261, Adams

100 Prin of Cultural Anthropology (3 cr, §2A)
11:15-12:30 TTh, ForH 155, Bender

119 Peoples, Cultures of Middle America (3 cr; prereq 2A or 100 or none for Lat Am Area St maj)
VII MWF, ForH 285, Salovesh

134 Archaeology of Middle America (3 cr; prereq 90)
II MWF, ForH 285, Adams

135 Archaeology of South America (3 cr; prereq 90)
IV MWF, ForH 285, Gonzalez

161 Anthropology of Religion (3 cr; prereq 2A or 100)
IV MWF, Arch 55, Spencer

169 Comprehensive Survey (3 cr; prereq sr, △)
9:45-11:00 TTh, Arch 45, Gerlach

171 Human Races (3 cr; prereq 170 or △)
11:15-12:30 TTh, ForH 285, Krantz

175 Human Physical Growth, Development (3 cr; prereq 1A, 101 or none for child psy maj)
III MWF, ForH 20, Rokala

181 Descriptive Linguistics (3 cr, †180-181; prereq 180)
9:45-11:00 TTh, ForH 244, Sarles

190 Directed Research (ar cr; prereq sr, △)

191 Directed Research (ar cr; prereq sr, △)

192 Directed Research (ar cr; prereq sr, △)

196 Prosemina: East, South Asia (3 cr, Geog 196, Hist 196, Ortl 196, Pol 196; prereq sr)

201 Anthropology, Scientific Method (3 cr; prereq 200)
VII-VIII W, ForH 15, Miller

205 Seminar: Anthropology (3 cr)
VII-VIII Th, ForH 15, Gerlach

206 Seminar: Anthropology (3 cr)
VII-VIII T, ForH 15, Sarles

222 Seminar: Ethnology (3 cr)
VII-VIII M, ForH 15, Kiste

232 Seminar: Archaeology (3 cr)
VII-VIII F, ForH 15, Gonzalez

272 Seminar: Physical Anthropology (3 cr)
VII-VIII Th, ForH 20, Krantz

ART

Art History (ArtH)

1 **Principles** (5 cr, §50; prereq fr, soph)
Lect III MWF, NH 45, 2 hrs ar, Torbert
—1, Lab I-II T, J 207A
—2, Lab II-III T, J 207B
—3, Lab III-IV T, J 207A
—4, Lab IV-V T, J 207B
—5, Lab V-VI T, J 207A
—6, Lab VI-VII T, J 207B
—7, Lab VII-VIII T, J 207A

—8, Lab I-II Th, J 207A
—9, Lab II-III Th, J 207B
—10, Lab III-IV Th, J 207A
—11, Lab IV-V Th, J 207B
—12, Lab V-VI Th, J 207A
—13, Lab VI-VII Th, J 207B

5 Survey: History of Art (3 cr, §60)
VI MWF, MNH Aud, Waldfogel

50 Visual Arts (3 cr, §1)
III MWF, Arch 25, Simon

60 Survey: History of Art (3 cr, §5)
VI MWF, MNH Aud, Waldfogel

88 Art of the Film (3 cr; prereq 87)
VIII-IX MW, VIII F, J 207A, Milgrom

105 Medieval Art (3 cr)
II MWF, J 207B, Sheppard

108 Late 15th Century in Italy, Northern Europe (3 cr)
III MWF, J 207B, Canedy

110 Art of India (3 cr; prereq 3 cr art hist)
IV MWF, J 207A, Poor

115 Later 16th Century Painting (3 cr)
V MWF, J 207B, Canedy

128 18th Century Art in England, Germany (3 cr; prereq sr, grad or ♯)
III MWF, J 207A, Thomas

129 History of Graphic Arts (3 cr; prereq sr, grad or ♯)
V MWF, J 207A, Thomas

138 Art in United States (3 cr; prereq sr, grad or ♯)
VI MWF, J 207B, Torbert

142 Scandinavian Sculpture, Minor Arts (3 cr; prereq sr, grad or ♯)
II MWF, J 207A, Nelson

148 Modern American, European Architecture (3 cr; prereq sr, grad or ♯)
I MWF, J 207B, Tselos

161 Roman Archaeology (3 cr, §Clas 123)
9:45-11:00 TTh, FolH 406, McNally

166 Chinese Painting (3 cr; prereq 3 cr art hist or ♯)
VI MWF, J 207A, Poor

169 Modern Sculpture from Houdon to Rodin: 1775-1920 (3 cr; prereq sr, grad or ♯)
IV MWF, J 207B, Tselos

178 20th Century Painting (3 cr)
IV MWF, Arch 25, Simon

198 Readings: Art History, Criticism (3 cr; prereq 197)

236 Nineteenth Century Art (3 cr; prereq ♯)
3:15-5:30 Th, J 202, Waldfogel

276 Probs in Classical Art (3 cr; prereq ♯)
3:00-5:00 T, J 202, McNally

Studio Art (Art)

10 Photography (3 cr)
—1, I-II MWF, J 2, Lang
—2, III-IV MWF, J 2, Lang
—3, VI-VII MWF, J 2, Dean
—4, I-II TThS, J 2, Wilcox

11 Photography (3 cr; prereq 10 or prac exper, △)
III-IV TThS, J 2, Wilcox

20 Basic Drawing (3 cr; prereq 1 or ¶)
—1, I-II MWF, E 417A, Raid
—2, I-II MWF, ArtB 150, Routon
—3, III-I MWF, ArtB 140, Routon
—4, VIII-IX MWF, ArtB 150, Raid
—5, VII-IX TTh, E 417A, Johnson

23 Drawing, Painting (3 cr; prereq 20)
—1, III-IV MWF, ArtB 141, Volpe
—2, III-IV TThS, ArtB 160, Howard
—3, VI-VIII TTh, Art B 150, Priede
—4, I-II TThS, ArtB 150, Chaffey
—5, I-II MWF, Art B 140, Rowan
—6, I-II ThS, ArtB 140, Quirt

25 Drawing, Color (3 cr; prereq 23)
—1, I-II TThS, ArtB 141, Howard
—2, VI-VII MWF, ArtB 160, Volpe
—3, VI-VIII TTh, ArtB 150, Chaffey

25A Drawing, Painting for Architects I (3 cr; prereq 24A)
—1, I-II TTh, E 417, Burg
—2, III-IV TTh, E 417, Burg
—3, V-VI TTh, E 417, Burg
—4, I-II TTh, E 417, Johnson
—5, III-IV TTh, E 417, Johnson
—6, V-VI TTh, E 417, Johnson

32 Elements of Printmaking (3 cr; prereq 20)
—1, I-II TThS, ArtB 170, Bethke
—2, III-IV TThS, ArtB 170, Bethke

33 Printmaking (3 cr; prereq 32)
—1, I-II TThS, ArtB 170, Bethke
—2, III-IV TThS, ArtB 170, Bethke

40 Basic Sculpture I (3 cr; prereq 1, ¶41)
—1, I-II MWF, HolB 154, Nash
—2, III-IV TThS, HolB 154, Sauls
—3, III-IV MWF, HolB 153, House
—4, VI-VII MWF, HolB 153, House

41 Basic Sculpture I (3 cr; prereq 40)
—1, III-IV MWF, HolB 154, Nash
—2, I-II TThS, HolB 154, Sauls

42 Basic Sculpture I (3 cr; prereq 41)
I-II MWF, HolB 153, House

45 Ceramic Processes (3 cr)
—1, I-II MWF, Holb 134, MacKenzie
—2, III-IV MWF, HolB 134, MacKenzie
—3, I-II TThS, HolB 134, Horning
—4, III-IV TThS, HolB 134, Horning

51 Drawing (3 cr; prereq 23)
—1, I-II MWF, ArtB 160, Volpe
—2, III-IV TThS, ArtB 150, Chaffey
—3, V-VI MWF, ArtB 140, Rowan
—4, VI-VIII Th, ArtB 160, Howard

54 Drawing (3 cr; prereq 51)
—1, I-II MWF, ArtB 160, Volpe
—2, III-IV TThS, ArtB 150, Chaffey
—3, V-VI MWF, ArtB 140, Rowan
—4, V-VIII TTh, ArtB 160, Howard

55 Drawing (3 cr; prereq 54)
—1, I-II MWF, ArtB 160, Volpe
—2, III-IV TThS, ArtB 150, Chaffey
—3, V-VI MWF, ArtB 140, Rowan
—4, V-VIII TTh, ArtB 160, Howard

60B Water Color (3 cr; prereq 20 with ♯)
VII-IX MW, ArtB 141, Myers

61B Water Color (3 cr; prereq 60B)
VII-IX MW, ArtB 141, Myers

62A Drawing, Painting for Architects II (3 cr; prereq 61A)
—1, 6:00-9:00 **pm** MW, E 417, Raid
—2, 6:00-9:00 **pm** TTh, E 417A, Burg

62B Water Color (3 cr; prereq 61B)
VII-IX MW, ArtB 141, Myers

70 Oil Painting (3 cr; prereq 25, 55 or ♯)
—1, VI-VIII TTh, ArtB 161, Quirt
—2, VI-VIII MW, ArtB 151, Routon

71 Oil Painting (3 cr; prereq 70)
—1, VI-VIII TTh, ArtB 161, Quirt
—2, VI-VIII MW, ArtB 151, Routon

72 Oil Painting (3 cr; prereq 71)
—1, VI-VIII TTh, ArtB 161, Quirt
—2, VI-VIII MW, ArtB 151, Routon

80A Direct Metal Sculpture, Constructions (3 cr; prereq 41)
VI-VII MWF, HolB 154, Nash

80B Direct Carving in Stone, Wood (3 cr; prereq 42)
VI-VII MWF, HolB 154, Nash

80C Metal Casting of Sculpture (3 cr; prereq 42)
VI-VIII TTh, HolB 154, Sauls

81A Direct Metal Probs of Sculptural Expression, Organization in Relation to Architecture (3 cr; prereq 80A-B-C)
VI-VII MWF, HolB 154, Nash

81B Carving, Modeling, Assemblage of Sculpture Relating to Civic, Private Monuments, Buildings (3 cr; prereq 80A-B-C)
VI-VII MWF, HolB 154, Nash

81C Probs Concerned with Cast Metal Sculpture for Landscape Architecture (3 cr; prereq 80A-B-C)
VI-VIII TTh, HolB 154, Sauls

82A Experimental Work in Direct Metal (3 cr; prereq 81A)
VI-VII MWF, HolB 154, Nash

82B Experimental Work in Carving, Modeling, Assemblage (3 cr; prereq 81B)
VI-VII MWF, HolB 154, Nash

82C Experimental Work in Cast Metals (3 cr; prereq 81C)
VI-VIII TTh, HolB 154, Sauls

85 Photography II (3 cr; prereq 84)
VIII-IX MWF, J 2, Dean

90 Printmaking, Intaglio Processes (3 cr; prereq 32 or ♯)
VI-VIII TTh, ArtB 170, Bethke

91 Printmaking, Intaglio Processes (3 cr; prereq 90)
VI-VIII TTh, ArtB 170, Bethke

92 Printmaking, Intaglio Processes (3 cr; prereq 91)
VI-VIII TTh, ArtB 170, Bethke

93 Ceramic Design (3 cr; prereq 45 or ♯)
VI-VIII TTh, HolB 134, Horning

94 Ceramic Design (3 cr; prereq 93)
VI-VIII TTh, HolB 134, Horning

95 Ceramic Design (3 cr; prereq 94)
VI-VIII TTh, HolB 134, Horning

123 Film Workshop (3 cr; prereq art or hum or mus or theat maj, ♯)
VI-VII MWF, J 4, Downs

124 Film Workshop (3 cr; prereq 123)
VI-VII MWF, J 4, Downs

125 Film Workshop (3 cr; prereq 124)
VI-VII MWF, J 4, Downs

133 Lithography (3 cr; prereq 20)
—1, I-II TThS, ArtB 175, Priede
—2, III-IV TThS, ArtB 175, Priede

134 Lithography (3 cr; prereq 133)
—1, I-II TThS, ArtB 175, Priede
—2, III-IV TThS, ArtB 175, Priede

135 Lithography (3 cr; prereq 134)
—1, I-II TThS, ArtB 175, Priede
—2, III-IV TThS, ArtB 175, Priede

150 Probs: Painting (3 cr; prereq 72, ♯)
VI-VIII MW, ArtB 161, Rowan

151 Probs: Painting (3 cr; prereq 150)
VI-VIII MW, ArtB 161, Rowan

152 Probs: Painting (3 cr; prereq 151)
VI-VIII MW, ArtB 161, Rowan

180A Sculpture IV (3 cr; prereq 9 cr above 81)
VI-VII MWF, HolB 161, Nash

180B Sculpture IV (3 cr; prereq 180A)
VI-VII MWF, HolB 154, Nash

180C Sculpture IV (3 cr; prereq 180B)
VI-VIII TTh, HolB 154, Sauls

181A Sculpture IV (3 cr; prereq 9 cr above 81)
VI-VII MWF, HolB 154, Nash

181B Sculpture IV (3 cr; prereq 180B)
VI-VII MWF, HolB 154, Nash

181C Sculpture IV (3 cr; prereq 180C)
VI-VIII TTh, HolB 154, Sauls

182A Sculpture IV (3 cr; prereq 9 cr above 81)
VI-VII MWF, HolB 154, Nash

182B Sculpture IV (3 cr; prereq 181B)
VI-VII MWF, HolB 154, Nash

182C Sculpture IV (3 cr; prereq 181C)
VI-VIII TTh, HolB 154, Sauls

183 Proseminar: 20th Century Art Theories (3 cr; prereq 152, sr status, ‡)
III-IV TTh, ArtB 131, Quirt

186 Proseminar: 20th Century Art Theories (3 cr; prereq 185, ‡)

190 Adv Printmaking: Intaglio Processes (3 cr; prereq 90 or ‡)
VI-VIII TTh, ArtB 170, Bethke

191 Adv Printmaking: Intaglio Processes (3 cr; prereq 190)
VI-VIII TTh, ArtB 170, Bethke

192 Adv Printmaking: Intaglio Processes (3 cr; prereq 191)
VI-VIII TTh, ArtB 170, Bethke

193 Adv Probs in Studio (3 cr; prereq ‡)
—1, VI-VII MWF, HolB 134, MacKenzie
—2, I-II MFW, J 4, Dean
—3, Ar

194 Adv Probs in Studio (3 cr; prereq 193)
—1, VI-VII MWF, HolB 134, MacKenzie
—2, I-II MWF, J 4, Dean
—3, Ar

195 Adv Probs in Studio (3 cr; prereq 194)
—1, VI-VIII MWF, HolB 134, MacKenzie
—2, I-II MWF, J 4, Dean
—3, Ar

200 Adv Probs: Painting (3 cr; prereq ‡)
VI-VIII TTh, ArtB 131, Busa

201 Adv Probs: Painting (3 cr; prereq ‡)
VI-VIII TTh, ArtB 131, Busa

202 Adv Probs: Painting (3 cr; prereq ‡)
VI-VIII TTh, ArtB 131, Busa

203 Adv Probs: Painting (3 cr; prereq ‡)
VI-VIII TTh, ArtB 131, Busa

204 Adv Probs: Painting (3 cr; prereq 203)
VI-VIII TTh, ArtB 131, Busa

205 Adv Probs: Painting (3 cr; prereq 204)
VI-VIII TTh, ArtB 131, Busa

210A Adv Probs: Sculpture (3 cr; prereq ‡) Nash

210B Adv Probs: Sculpture (3 cr; prereq ‡) Nash

210C Adv Probs: Sculpture (3 cr; prereq ‡) Nash

211A Adv Probs: Sculpture (3 cr; prereq 210A) Nash

211B Adv Probs: Sculpture (3 cr; prereq 210B) Nash

211C Adv Probs: Sculpture (3 cr; prereq 210C) Nash

212A Adv Probs: Sculpture (3 cr; prereq 211A) Nash

212B Adv Probs: Sculpture (3 cr; prereq 211B) Nash

212C Adv Probs: Sculpture (3 cr; prereq 211C) Nash

220 Adv Probs: Printmaking (3 cr; prereq 192) Myers

221 Adv Probs: Printmaking (3 cr; prereq 220) Myers

222 Adv Probs: Printmaking (3 cr; prereq 221) Myers

231 Adv Probs: Drawing (3 cr; prereq ‡)
II-IV TTh, ArtB 160, Busa

232 Adv Probs: Drawing (3 cr; prereq 231)
II-IV TTh, ArtB 160, Busa

233 Adv Probs: Drawing (3 cr; prereq 232)
II-IV TTh, ArtB 160, Busa

240 Adv Probs: Ceramics (3 cr; prereq ‡) MacKenzie

241 Adv Probs: Ceramics (3 cr; prereq 240) MacKenzie

242 Adv Probs: Ceramics (3 cr; prereq 241) MacKenzie

243 Adv Probs: Ceramics (3 cr; prereq 242)

244 Adv Probs: Ceramics (3 cr; prereq 243)

245 Adv Probs: Ceramics (3 cr; prereq 244)

260F Film (3 cr; prereq 125, ‡)
I-II MWF, J 4, Dean

260P Photography (3 cr; prereq 125, ‡)
I-II MWF, J 4, Dean

261F Film (3 cr; prereq 260F)
I-II MWF, J 4, Dean

261P Photography (3 cr; prereq 260P)
I-II MWF, J 4, Dean

262F Film (3 cr; prereq 261F)
I-II MWF, J 4, Dean

262P Photography (3 cr; prereq 261P)
I-II MWF, J 4, Dean

CLASSICS

Classics (Clas)

3 Age of Alexander: Cosmopolitanism, Cultural Fusion (3 cr)
VII MWF, FolH 308, A MacDonald

6 Intro to Classical Civilization: The World of Constantine (3 cr)
III MWF, FolH 303, Ferguson

42 Greek, Roman Mythology (2 cr, §42A; prereq soph)
III TTh, Ph 150, Ooms

48 Technical Terms of Science, Medicine, Humanities (3 cr; prereq soph)
—1, IV MWF, FolH 308, Slade
—2, 12:15-1:30 TTh, AgEng 108 **(StP Campus)** Volchenboum

68 Technical Terms of Science, Medicine, Humanities (3 cr, §48; prereq jr)
—1, IV MWF, FolH 308, Slade
—2, 12:15-1:30 TTh, AgEng 108 **(StP Campus)** Volchenboum

82 Aristophanes, Roman Drama in Translation (3 cr, §182; prereq 9 cr Engl lit) above C or foreign lit or △)
IV MWF, FolH 303, Weber

107 Study of Language (3 cr; prereq 106)
V MWF, FolH 303, Swanson

123 Intro to Roman Archaeology (3 cr, §Art 161)
9:45-11:00 TTh, FolH 406, McNally

182 Aristophanes, Roman Drama in Translation (3 cr, §82; prereq grad or ‡)
IV MWF, FolH 303

Greek (Grk)

3 Selections from Greek Prose (5 cr; prereq 2)
—1, II MTWThF, FolH 303, Ooms
—2, III MTWThF; A 105, Cole

63 Homer (3 cr; prereq 3)
IV MWF, FolH 302, McDonald

73 Hellenistic Greek (3 cr; prereq △)
V MWF, FolH 303½, Swanson

83 History (3 cr; prereq 63)
III MWF, FolH 303½, Hay

97H Honors Tutorial (3 cr; prereq △) McDonald, others

178A Reading: Epic (3 cr)
11:15-12:30 TTh, FolH 305, Schork

263 The Conflict of Religions in the Roman Empire (3 cr, §Lat 263; prereq ¶171, △)
3:15-5:15 W, Lib 312, Ferguson

Latin (Lat)

1 Bgn Latin (5 cr)
II MWF, Bu 120, II TTh, Bu 123, Forbes, Raymond

3 Bgn Latin (5 cr)
—1, I MWF, FolH 303, Sanford
I TTh, FolH 303, Forbes
—2, I MWF, FolH 301, Baron
I TTh, FolH 303, Forbes

63 Golden, Silver Latin (3 cr; prereq 62 or 4X or △)
VI MWF, FolH 303, Schork

83 Virgil (3 cr; prereq 63)
I MWF, FolH 305½, A MacDonald

97H Honors Course: Independent Reading (3 cr; prereq △) W McDonald, others

103 Structure of Latin (1-2 cr; prereq 102)
IX W, FolH 305½, Erickson, Forbes

178D Directed Reading, Research (3 cr)
2:15-3:30 TTh, FolH 303, Sonkowsky

263 The Conflict of Religions in Roman Empire (3 cr, §Grk 263; prereq 262)
3:15-5:15 W, Lib 312, Ferguson

COMMUNICATIONS (Comm)

1 Communication (4 cr, §Engl A or 10H or comp 1; prereq classif card 1 or 1A or 2 or 3)
—1, I MTWF, SciB 527
—2, II MTWF, SciB 527, Holtan
—3, V MTWF, AH 9, Johnsrud
—4, V MTWF, AH 350
—5, VI MTWF, TNCD 113, Holtan

2 Communication (4 cr, §Engl B or 11H or Comp 2; prereq 1)
—1, I MTWF, Pt 102, Huffington
—2, IV MTWF, TNCD 113, Cranney
—3, V MTWF, TNCD 113, Cranney
—4, V MTWF, ME 102, Huffington
—5, VI MTWF, SciB 527, Coiner

3 Communication (4 cr, §Engl C or 12H or Comp 3; prereq 2)
—1, I MTWF, WuH 130, Sheehan
—2, I MTWF, AH 101, Taubr
—3, I MTWF, FraH B20, Tembeck
—4, II MTWF, WuH 130, Hahn
—5, II MTWF, AH 101, Gordon
—6, III MTWF, WuH 130, Rose
—7, III MTWF, AH 101, Johnsrud
—8, IV MTWF, WuH 130, Campbell
—9, IV MTWF, CD 105, Coiner
—10, IV MTWF, SciB 527, Sheehan
—11, IV MTWF, WuH 230, Tintner
—12, V MTWF, AH 101, Tintner
—13, V MTWF, Bu 125, Rose
—14, V MTWF, SciB 527, Alyeshmerni
—15, V MTWF, WuH 130, Holtan
—16, VI MTWF, WuH 130, Campbell
—17, VI MTWF, AH 101, Elzey
—18, VII MTWF, WuH 130, Taubr
—19, VII MTWF, AH 101, Norton
—20, VIII MTWF, WuH 130, Pyclik
—21, I-II TTh, Bu 125, McNall
—22, III-IV TTh, C 315, McNall
—23, VI-VII, TTh, Lib 4A, Pyclik

3H Honors Course: Communication (4 cr, §Engl C or 12H or Comp 3; prereq 2 or 2H, △)
IV-V TTh, Arch 140, Bryan

EAST AND SOUTH ASIAN LANGUAGES

Chinese (Chin)

3 Bgn Chinese (5 cr; prereq 2)
—1, VI MTWThF, FolH 302, Liu, others
—2, VI MTWThF, FolH 305½, Liu, others
53 Interm Chinese (5 cr; prereq 52, ¶103)
II MTWThF, FolH 302, Chang
103 Bgn Literary Chinese (3 cr; prereq 102, ♯53)
I MWF, FolH 302, Mather
107 Intro to Chinese Linguistics (3 cr; prereq 106) Wang
112 Literature in Translation (3 cr; prereq 111)
VI MWF, TSF 103, Chang
127 Chinese Documents (3 cr; prereq 103 or ♯)
VII MWF, FolH 303½, Chang
173 Poetry of T'ang, Sung Periods (3 cr; prereq 172)
9:15-10:30 T, Lib 13, Mather
177 Chinese Literature of Yuan, Ming, Ch'ing Periods (3 cr; prereq 103, 123 or ♯) Liu
193H Honors Course: Research (1-3 cr; prereq 192H)
205 Seminar: Chinese Linguistics (3 cr; prereq 105, 106, 107 or ♯) Wang

Indian (Indn)

3 Bgn Hindi (5 cr; prereq 2)
V MTWThF, VI TTh, J 202, Staneslow
53 Interm Hindi (5 cr; prereq 52)
III MTWThF, J 202, Khokle
103 Adv Hindi (3 cr; prereq 102)
IV MWF, J 202, Khokle
107 Hindi Linguistics (3 cr; prereq 106)
IV MWF, TSF 103, Staneslow
123 Readings: Hindi Literature—20th Century (3 cr; prereq 122) Khokle
127 Hindi Composition (3 cr; prereq 126)
153 Directed Readings (3 cr; prereq 152)

Japanese (Jpn)

3 Bgn Japanese (5 cr; prereq 2)
—1, III MTWThF, FolH 302, Matsumoto
—2, V MTWThF, FolH 302, Matsumoto
53 Interm Japanese (5 cr; prereq 52)
VIII MTWThF, FolH 302, Loveless
103 Adv Japanese (3 cr; prereq 102)
III MWF, A 201, Tsukimura
107 Intro to Linguistics (3 cr; prereq 106)
VII MWF, J 202, Loveless
112 Literature in Translation (3 cr; prereq 111)
II MWF, FolH 305½, Tsukimura
123 Readings: Contemporary Jpn Texts (3 cr; prereq 122)
III MWF, A 202, Copeland
173 Poetry of Nara, Heian Periods (2 cr; prereq 172)
IV MWF, FolH 321B
193H Honors Course: Research (1-3 cr; prereq 192H)
200C Bibliography, Research Methods (3 cr; prereq 103, 123, ♯) Copeland

Oriental (Ortl)

196 Proseminar: East, South Asia (3 cr, §Anth 196, Hist 196, Pol 196)

Sanskrit (Skt)

53 Beginning Sanskrit (3 cr; prereq 52)
III-IV TTh, TSF 103, Ichimura
153 Directed Readings (3 cr; prereq ♯)
III-IV TTh, TSF 103, Ichimura

Tibetan (Tib)

103 Bgn Tibetan (3 cr; prereq 102)
VII MWF, FolH 103, Wang

ECONOMICS (Econ)

C Intro to Economic Analysis (3 cr, §1-2, 1T-2T; prereq B)
—1, I MWF, ForH 115
—2, I MWF, ForH 130
—3, II MWF, Pt 110
—4, III MWF, ME 221
1 Prin of Macroeconomics (4 cr, †1-2, §C or 1T or 50A; prereq 3rd qtr fr)
Lect I Th, NMA, Heller, Kareken
—1, I MWF, Arch 130
—2, I MWF, Arch 135
—3, I MWF, Arch 55
—4, I MWF, CB(W) 205
—5, II MWF, CB(W) 205
—6, II MWF, Owre 12
—7, II MWF, Owre 113
—8, III MWF, C 111
—9, III MWF, CB(W) 205
—10, IV MWF, CB(W) 205
—11, IV MWF, Arch 5
—12, V MWF, ChE 50
—13, V MWF, VH 207

—14, V MWF, CB(W) 205
—15, VI MWF, CB(W) 225
—16, VII MWF, AE 321
—17, VII MWF, AE 327

1H Honors Course: Prin of Macroeconomics (4 cr, †1H-2H, §C or 1 or 1T or 50A; prereq 3rd qtr fr)
Lect I Th, NMA, Heller, Kareken
Rec III MWF, AE 327

2 Prin of Microeconomics (4 cr, †1-2, §C or 2T or 50B; prereq 1)
Lect I Th, ScH 108, Boddy
—1, I MWF, Arch 15
—2, I MWF, Arch 45
—3, I MWF, Arch 60
—4, II MWF, FolH 109
—5, II MWF, ChE 240
—6, II MWF, MMA 100
—7, III MWF, Arch 60
—8, IV MWF, ChE 50
—9, IV MWF, VH 303, **CCTV**
—10, IV MWF, VH 309, **CCTV**
—11, IV MWF, VH 306, **CCTV**
—12, VI MWF, Arch 30, **CCTV**
—13, VI MWF, ForH 150, **CCTV**
—14, VI MWF, VH 306, **CCTV**

2H Honors Course: Prins of Microeconomics (4 cr, †1H-2H, §C or 2T or 50B; prereq 1 or 1H)
Lect I Th, ScH 108, Boddy
Rec IV MWF, C 111, Slesnick

2T Principles (3 cr, †1T-2T; prereq Math 13A or 40)
—1, I MWF, ForH 285
—2, III MWF, Lib 4A
—3, V MWF, ForH 130

20 Consumer Economics (3 cr)
11:15-12:30 TTh, Arch 40, Maynes

62 Labor Economics (3 cr, §1R 52; prereq 2)
11:15-12:30 TTh, CB(W) 230, Simler

63 Science, Technology (3 cr; prereq 2)
IV MWF, CB(W) 115, Schmookler

65 Interm Economic Analysis I (3 cr; prereq 2 or ‡)
—1, II MWF, CB(W) 125, Likens
—2, 9:45-11:00 TTh, CB(W) 435, Muench
—3, III MWF, CB(W) 140, Abel
—4, I MWF, CB(W) 230, Likens
—5, 11:15-12:30 TTh, CB(W) 130, Muench

66 Interm Economic Analysis II (3 cr, §66T; prereq 2 or ‡)
—1, 8:15-9:30 TTh, CB(W) 130, Teubal
—2, 9:45-11:00 TTh, CB(W) 120, Hofmeister
—3, III MWF, CB(W) 145, Smits
—4, IV MWF, CB(W) 220, Smits
—5, 11:15-12:30 TTh, CB(W) 235, Sonnenschein
—6, VI MWF, HH 210 **(StP Campus)**, Evenson

66T Interm Economic Analysis II (3 cr, §66; prereq 65T or ‡)
9:45-11:00 TTh, BA(W) 837, Sonnenschein

67 Money, Banking (3 cr; prereq 66)
—1, IV MWF, CB(W) 435, Green
—2, 9:45-11:00 TTh, CB(W) 125, Wallace
—3, 12:45-2:00 TTh, CB(W) 145, Smith

68 Elem of Public Finance (3 cr; prereq 65, 66)
—1, I MWF, CB(W) 110, Swidinsky
—2, II MWF, CB(W) 225, Swidinsky
—3, V MWF, CB(W) 110, Kim

69 Govt Regulations of Business (3 cr; prereq 65 for BA or econ maj, law or pol sci for others or ‡)
—1, II MWF, CB(W) 120, Rich
—2, 11:15-12:30 TTh, CB(W) 120, Hofmeister
—3, III MWF, CB(W) 120, Rich

75 Interm Economic Analysis III (3 cr; prereq 65)
III MWF, CB(W) 135, Buttrick

103 Economic Development (3 cr, §103A; prereq 2, no econ maj)
11:15-12:30 TTh, CB(W) 150, Coen

104 International Economics (3 cr, §104A; prereq 2, no econ maj)
2:15-3:30 TTh, CB(W) 155, Coen

104A International Economics (3 cr, §104, 114A; prereq 65, 66 or ‡)
11:15-12:30 TTh, CB(W) 205, Diaz

114C Intl Trade, Payments Theory (3 cr; prereq 114B or ‡)
11:15-12:30 TTh, CB(W) 105, Krueger

134 U S Foreign Economic Policy (3 cr; prereq 104)
2:15-3:30 TTh, CB(W) 110, Smith

135C Foundations of Economic Analysis (3 cr; prereq 135B)
9:45-11:00 TTh, CB(W) 230, Richter

152 History of Labor (3 cr; prereq 62 or ‡)
9:45-11:00 TTh, CB(W) 235, Berman

157 Business Cycles (3 cr; prereq 66, 67)
8:15-9:30 TTh, CB(W) 110, Foster

165 Economic Analysis: Firm, Households (3 cr, §65; prereq grad or ‡)
2:15-3:30 MW, CB(W) 125, Schmookler

166 Economic Analysis: Income, Employment (3 cr, §66; prereq grad or ‡)
3:45-5:00 MW, CB(W) 125, Kareken

172 Labor Market Behavior, Regulation (3 cr; prereq 62 or ‡)
I MWF, CB(W) 435, Turnbull

174A Economy of Latin America (3 cr, §174; prereq 65, 66 or ‡)
9:45-11:00 TTh, CB(W) 105, Diaz

175 Economic Analysis III: Welfare, Theory, Policy (3 cr; prereq 185A)
2:15-3:30 TTh, CB(W) 125, Hofmeister

176B Dynamic Macroeconomics (3 cr; prereq 176A or ‡)
3:45-5:00 TTh, CB(W) 435, Foster

180B History of Economic Thought (3 cr; prereq 175, 176A or ‡)
11:15-12:30 MW, CB(W) 430, Buttrick

185B Adv Microeconomics (3 cr; prereq 185A or ‡)
9:45-11:00 TTh, CB(W) 135, Henderson

190 Readings (ar cr; prereq cons adv, ‡)

201C Econometrics C (3 cr; prereq 201B)
3:30-4:45 MW, CB(W) 450, Hildreth

222A Adv Topics: Labor Economics (3 cr; prereq ‡)
3:30-5:30 F, BA(W) 933, Simler

226A Adv Topics: Macroeconomics (3 cr; prereq ‡)
2:15-3:30 TTh, CB(W) 440, Teubal

245C Mathematical Economics (3 cr; prereq 245B)
12:45-2:15 TTh, CB(W) 220, Hurwicz

277B Development of Monetary Theory, Policy (3 cr; prereq 277A)
1:30-3:30 W, CB(W) 115, Meiselman

290 Individual Research (ar cr)

301 Seminar: Econometrics, Statistical Inference (3 cr; prereq ‡) Hildreth

390C Workshop (ar cr; prereq 390B) Schmookler

ENGLISH

English (Engl)

B Freshman Composition, Literature (5 cr, §Comp 2 or 11H or Comm 2; prereq A)
—1, I MTWThF, VH 113
—2, II MTWThF, VH 113
—3, III MTWThF, ChE 162
—4, III MTWThF, A 116
—5, IV MTWThF, NH 209A
—6, V MTWThF, ForH 40
—7, VI MTWThF, MurH 420
—8, VII MTWThF, A 205

C Freshman Composition, Literature (5 cr, §Comp 3 or 12H or Comm 3; prereq B)
—1, I MTWThF, VH 210
—2, I MTWThF, ChE 40
—3, I MTWThF, ChE 150
—4, I MTWThF, ChE 50
—5, I MTWThF, C 115
—6, I MTWThF, C 111
—7, II MTWThF, VH 210
—8, II MTWThF, VH 2
—9, II MTWThF, ChE 40
—10, II MTWThF, ChE 150
—11, II MTWThF, ChE 158
—12, III MTWThF, MMA 125
—13, III MTWThF, VH 205
—14, III MTWThF, VH 210
—15, III MTWThF, ChE 40
—16, III MTWThF, ChE 54
—17, III MTWThF, ChE 154
—18, III MTWThF, ChE 158
—19, IV MTWThF, VH 205
—20, IV MTWThF, VH 210
—21, IV MTWThF, ChE 40
—22, IV MTWThF, ChE 54
—23, IV MTWThF, ChE 154
—24, IV MTWThF, ChE 158
—25, V MTWThF, VH 205
—26, V MTWThF, VH 210
—27, V MTWThF, VH 2
—28, V MTWThF, ChE 40
—29, V MTWThF, ChE 54
—30, V MTWThF, ForH 349
—31, VI MTWThF, VH 210
—32, VI MTWThF, ChE 40
—33, VI MTWThF, ChE 54
—34, VI MTWThF, ChE 158
—35, VI MTWThF, ChE 50
—36, VI MTWThF, Bu 125
—37, VII MTWThF, VH 309
—38, VII MTWThF, ChE 40
—39, VII MTWThF, ChE 54
—40, VII MTWThF, Arch 60
—41, VII MTWThF, ChE 154
—42, VII MTWThF, ChE 158
—43, VIII MTWThF, ChE 40
—44, VIII MTWThF, ChE 54
—45, VIII MTWThF, ChE 150
—46, VIII MTWThF, ChE 154

12H Honors Course: Freshman Literature, Composition (5 cr, §C or Comp 3 or Comm 3; prereq 11H)
—1, IV MTWThF, ChE 162
—2, VII MTWThF, ChE 162

22 Intro to Literature (5 cr, §19; prereq completion or exempt fr Engl)
—1, II MTWThF, VH 301, Stricker
—2, VI MTWThF, VH 301

23 Intro to Literature (5 cr, §19; prereq completion or exempt fr Engl)
—1, II MTWThF, WuH 230, Durham
—2, III MTWThF, VH 301, Leyasmeyer
—3, IV MTWThF, VH 301, Levy
—4, VI MTWThF, VH 1, McNaron
—5, VII MTWThF, VH 301, Haley
—6, VIII MTWThF, VH 301, Joseph

39 Modern Literature: Drama (3 cr; prereq soph, completion fr Engl)
—1, VI MWF, VH 207, Roth
—2, VII MWF, VH 207
—3, VIII MWF, VH 207, Haley

54 English Novel (3 cr; prereq C or 12H; Comp 1-2-3 or Comm 3, 5 addtl cr; 5 cr in 21-22-23; exempt, 5 cr lit)
VII MWF, VH 113, Stricker

55 Shakespeare (3 cr; prereq C or 12H; Comp 1-2-3 or Comm 3, 5 addtl cr; 5 cr in 21-22-23; exempt, 5 cr lit)
—1, II MWF, VH 205, Levy
—2, 9:45-11:00 TTh, VH 307, Reed
—3, IV MWF, VH 307, Steinmann
—4, VII MWF, VH 307, Reed
—5, 2:15-3:30 TTh, VH 307, Scoggins

56 Shakespeare (3 cr; prereq 55 or △)
—1, III MWF, VH 307, McNaron
—2, 11:15-12:30 TTh, VH 113, Unger
—3, IV MWF, VH 113, Montgomery
—4, VI MWF, VH 205, Durham
—5, VII MWF, VH 303, Coldman

60 Intro to English Language (3 cr; prereq Comp 1-2-3 or Comm 3, 5 addtl cr; 5 cr in 21-22-23; exempt, 5 cr lit)
II MWF, VH 1, J Erickson

73 American Literature (3 cr; prereq 72 or ♯, none for Ed min)
11:15-12:30 TTh, VH 6, Cummins

74 American Literature (3 cr; prereq 72 or ♯, none for Ed min)
—1, II MWF, VH 207, Roth
—2, 11:15-12:30 TTh, VH 207, Levenson
—3, IV MWF, Arch 10, Alsen
—4, VII MWF, VH 6, Roth

75 Chaucer (4 cr; prereq C or 12H; Comp 1-2-3 or Comm 3, 5 addtl cr; 5 cr in 21-22-23; exempt, 5 cr lit)
VI MWThF, VH 113, McClure

79 20th Century British, American Literature (3 cr, §144; prereq 5 cr above fr Engl)
—1, 9:45-11:00 TTh, ForH 115, Youngblood
—2, VI MWF, ForH 115, Reed

85A Technical Writing for Engineers (1 cr; prereq ¶ME 145 or ME 191 or EE 81)
I T, Arch 55, Haga

85C Technical Writing for Engineers (1 cr; prereq ¶ME 147 or ME 193 or EE 83)
—1, II T, Arch 55, Haga
—2, II Th, Arch 55, Haga
—3, VI T, Arch 55, Haga

90H Honors Course: Magna Honors Thesis (3 cr; prereq cand magna cum laude, △)

91H Honors Course: Summa Honors Thesis (3 cr, †91H-92H; prereq cand summa cum laude, △)

92H Honors Course: Summa Honors Thesis (3 cr, †91H-92H; prereq 91H, △)

100 Old English (4 cr; prereq 5 cr above fr Engl)
III MTWF, VH 1, J Erickson

103 Beowulf (3 cr; prereq 100)
11:15-12:30 TTh, VH 309, J Erickson

106 Whitman, Mark Twain (3 cr; prereq 5 cr above fr Engl)
9:45-11:00 TTh, VH 6, Kwiat

110 Romantic Poetry, Prose (3 cr; prereq 5 cr above fr Engl)
11:15-12:30 TTh, ForH 115, Scoggins

139 Victorian Literature (3 cr; prereq 5 cr above fr Engl)
—1, III MWF, Arch 130 (prereq grad or △) Stange
—2, III MWF, VH 113, Joseph

155 American Novel (3 cr; prereq 5 cr above fr Engl)
III TThS, VH 2, Bowron

160 Early American Literature (3 cr; prereq 5 cr above fr Engl)
2:15-3:30 TTh, VH 113, C Foster

162 Milton (3 cr; prereq 21 or 56)
—1, III MWF, VH 2, Unger
—2, VI MWF, VH 2, Levy

165 Modern English (3 cr; prereq 5 cr above fr Engl)
I MWF, VH 2, Allen

166 History of English Language (3 cr; prereq 5 cr above fr Engl)
VI MWF, Arch 15, Olsson

170 Shakespeare's Later Contemporaries (3 cr; prereq 56 or 169)
2:15-3:30 TTh, VH 2, O'Brien

174 American English (3 cr; prereq 5 cr above fr Engl)
3:45-5:00 TTh, VH 6, Allen

176 Structure of Verse (3 cr; prereq 5 cr above fr Engl)
12:45-2:00 TTh, VH 6, Youngblood

186 Form, Idea in Dramatic Literature (3 cr; prereq 5 cr above fr Engl...56 rec)
9:45-11:00 TTh, FolH 201, Hurrell

189 18th Century Literature (3 cr; prereq 5 cr above fr Engl)
—1, IV MWF, VH 207 (prereq grad or △) Monk
—2, IV MWF, VH 2, Leyasmeyer

192 20th Century Writers: Yeats, Hardy, Frost, Stevens (3 cr; prereq 5 cr above fr Engl)
8:15-9:30 TTh, VH 207, R Foster

196 **Elizabethan Prose, Verse** (3 cr; prereq 5 cr above fr Engl)
11:15-12:30 TTh, ForH 130, O'Brien

199 **17th Century Literature** (3 cr; prereq 5 cr above fr Engl)
III MWF, Arch 15, Haley

213 Bibliography, Methods of Literary Research (2 cr)
VII-VIII T, VH 210, Steinmann

236 Medieval English Culture (3 cr; prereq 235)
VIII-IX Th, VH 210, Clark

267 American Renaissance II: Hawthorne, Thoreau, Melville (3 cr; prereq 266)
VI-VII M, VH 125, C Foster

279 American Realism (3 cr; prereq 278)
VIII-IX F, VH 210, Bowron

282 English Romantic Movement (3 cr; prereq 281)
VIII-IX W, VH 210, Scoggins

286 Dryden, His Age (3 cr; prereq 285)
VIII-IX W, VH 125, Monk

289 Victorian Literature (3 cr; prereq 288)
VI-VII W, VH 125, Stange

299 Independent Reading (3 cr; prereq MA degree)

English Composition (Comp)

X **Preparatory Composition** (0 cr; prereq classif card 4 or 4A)
—1, 9:45-11:00 TTh, VH 309
—2, 11:15-12:30 TTh, ForH 175
—3, 12:45-2:00 TTh, ForH 175
—4, 2:15-3:30 TTh, ForH 160

2 **Freshman Composition** (4 cr, §Engl B or 11H or Comm 2; prereq 1)
—1, I-II TTh, Pt 110
—2, I-II TTh, CD 218
—3, I-II TTh, C 325
—4, I-II TTh, FolH 103
—5, I-II TTh, Bu 120
—6, III-IV TTh, FolH 205
—7, III-IV TTh, FolH 307
—8, III-IV TTh, Ph 210
—9, III-IV TTh, Pt 215
—10, III-IV TTh, Arch 135
—11, V-VI TTh, Arch 50
—12, V-VI TTh, CD 105
—13, V-VI TTh, ChE 162
—14, V-VI TTh, ChE 154
—15, V-VI TTh, MinMet 104
—16, VII-VIII TTh, C 325
—17, VII-VIII TTh, FolH 103
—18, VII-VIII TTh, VH 207
—19, VII-VIII TTh, NH 122

3 **Freshman Composition** (4 cr, §Engl C or 12H or Comm 3; prereq 2)
—1, I MTWF, ForH 30
—2, I MTWF, ForH 40
—3, I MTWF, A 116
—4, I MTWF, Z 211
—5, I MTWF, VH 309
—6, I MWThF, ForH 349
—7, I MWThF, MurH 420
—8, I MWThF, A 12
—9, II MTWF, ForH 30
—10, II MTWF, MH 214
—11, II MTWF, FraH B20
—12, II MWThF, ForH 349
—13, II MWThF, A 116
—14, II MWThF, AE 225
—15, II MWThF, Owre 117
—16, III MTWF, ForH 30
—17, III MTWF, ForH 40
—18, III MTWF, SciB 527
—19, III MTWF, AH 350
—20, III MWThF, FolH 207
—21, III MWThF, Z 211
—22, III MWThF, Owre 117
—23, III MWThF, MH 214
—24, IV MTWF, ForH 40
—25, IV MTWF, ForH 30
—26, IV MTWTh, MMA 125
—27, IV MTWF, Z 211
—28, IV MWThF, ForH 349
—29, IV MWThF, Owre 117
—30, IV MWThF, MH 214
—31, V MTWF, Arch 130
—32, V MTWF, A 116
—33, V MTWF, MurH 420
—34, V MTWF, MurH 311
—35, V MWThF, A 12
—36, V MWThF, MurH 308
—37, V MWThF, ForH 30
—38, VI MTWF, ForH 30
—39, VI MTWF, ForH 40
—40, VI MTWF, E 229
—41, VI MTWF, MH 214
—42, VI MWThF, Arch 55
—43, VI MWThF, A 12
—44, VI MWThF, A 116
—45, VII MTWF, ForH 40
—46, VII MTWF, ForH 30
—47, VII MTWF, SciB 527
—48, VII MTWF, C 115
—49, VII MWThF, VH 210
—50, VII MWThF, MH 214
—51, VII MWThF, A 105
—52, VIII MTWF, SciB 527
—53, VIII MTWF, ChE 162
—54, VIII MTWF, ChE 158
—55, VIII MTWF, C 315
—56, VIII MWThF, VH 205

—57, VIII MWThF, C 115
—58, VIII MWThF, C 111
—59, I-II TTh, AE 321
—60, I-II TTh, AE 327
—61, I-II TTh, FolH 307
—62, I-II TTh, Arch 30
—63, I-II TTh, AE 319
—64, I-II TTh, AE 317
—65, III-IV TTh, AE 309
—66, III-IV TTh, AH 9
—67, III-IV TTh, Arch 5
—68, III-IV TTh, Arch 25
—69, III-IV TTh, JacH 178
—70, III-IV TTh, ME 214
—71, III-IV TTh, MurH 420
—72, V-VI TTh, AE 313
—73, V-VI TTh, AE 317
—74, V-VI TTh, AE 319
—75, V-VI TTh, AE 321
—76, V-VI TTh, AE 327
—77, V-VI TTh, Arch 20
—78, V-VI TTh, Arch 30
—79, VII-VIII TTh, ForH 130
—80, VII-VIII TTh, ForH 150
—81, VII-VIII TTh, ME 221
—82, VII-VIII TTh, ME 302
—83, VII-VIII TTh, MurH 308
—84, VII-VIII TTh, MurH 420

27 Adv Writing (3 cr; prereq **Engl C or** Comm 3 or △)
—1, I MWF, ForH 261, Schepman
—2, II MWF, ForH 261, Schepman
—3, III MWF, ForH 261, Foy
—4, IV MWF, ForH 261, Korges
—5, V MWF, ForH 261, Korges
—6, VI MWF, ForH 261, Edgington
—7, VII MWF, MinMet 104, Edgington

28 Adv Writing (3 cr; prereq 27)
—1, 9:45-11:00 TTh, ForH 261, Fagerson
—2, V MWF, MinMet 104, Wilson
—3, 12:45-2:00 TTh, VH 207, Fagerson

103 Writing of Fiction, Poetry (3 cr; prereq ♯)
VIII-IX Th, VH 309, R Foster

FAMILY STUDIES (FamS)

1 Dynamics of Dating, Courtship, Marriage (3 cr, §1A)
—1, I MWF, JohH 106, Kokosh
—2, II MWF, JohH 106, Kokosh
—3, VI MWF, JohH 105, Torbett
—4, V MWF, JohH 106, Torbett
—5, VI MWF, JohH 106, Holland
—6, 8:15-9:30 TTh, CB(W) 120, Kim
—7, 9:45-11:00 TTh, JohH 105, Torbett
—8, VII MWF, JohH 105, Nisker

1A Dynamics of Dating, Courtship, Marriage (3 cr, §1; prereq up div, married, or engaged students)
—1, III MWF, JohH 105, Huyck
—2, 9:45-11:00 TTh, CB(W) 205, Holland

15 The Home, Its Furnishing (3 cr but cr does not count toward BA degree)
II MWF, JohH 113, Ludwig

25 Parenthood (3 cr, §CPsy 80)
II MWF, C 115, Huyck

50 The Educated Woman in U S (2 cr but cr does not count toward BA degree; prereq ♯)
VII-VIII Th, JohH 113, Randolph

GEOGRAPHY (Geog)

1 Physical Geography (5 cr)
—1, Lect IV MWF, AE 211, 215, ForH 150, Owre 113, **CCTV**, Barrett
—2, Lect VII MWF, Arch 15, Bu 120, Owre 113, **CCTV**, Barrett
—3, Lect IV MWF, GorC 15 **(StP Campus) CCTV**, Barrett
—4, Lect IV MWF, CB(W) 130, **CCTV**, Barrett
—1, I MW, ForH 60
—2, II MW, ForH 60
—3, III MW, ForH 60
—4, I TTh, ForH 60
—5, II TTh, ForH 60
—6, III TTh, ForH 60
—7, IV MW, ForH 60
—8, IV TTh, ForH 60
—9, V MW, ForH 60
—10, V TTh, ForH 60
—11, VI MW, ForH 60
—12, VI TTh, ForH 60
—13, VII TTh, ForH 60
—14, I TTh, ForH 50
—15, III MW, ForH 50
—16, I TTh, CB(W), 440
—17, II TTh, CB(W) 440
—18, V MW, CB(W) 440

4 Human Geography (5 cr)
Lect IV MWF, Owre 15, Broek
—1, I MW, ForH 70
—2, II MW, ForH 70
—3, II TTh, ForH 70
—4, III MW, ForH 70
—5, III TTh, ForH 70
—6, V MW, ForH 70
—7, V TTh, ForH 70
—8, VI TTh, ForH 70
—9, VII MW, ForH 70
—10, VII TTh, ForH 70
—11, VI MW, ForH 50

Lect 9:45-11:00 TTh, C 100, Rice
—12, VI TTh, ForH 50
—13, VII MW, ForH 50
—14, VII TTh, ForH 50
—15, I TTh, CB(W) 450
—16, VI MW, ForH 70
—17, I MW, ForH 50
—18, I MW, CB(W) 450
—19, II MW, CB(W) 450
—20, II MW, ForH 50
—21, I TTh, ForH 70
—22, IV MW, ForH 50
—23, IV TTh, ForH 50
—24, V MW, ForH 50
—25, V TTh, ForH 50
—26, IV MW, ForH 70

4H Honors Course: Human Geography (5 cr; prereq ♯)
Lect IV MWF, Owre 15
Rec IV TTh, ForH 70

41 **Economic Geography** (5 cr)
Lect VI MWThF, CB(W) 10, Abler
—1, V W, CB(W) 450
—2, VII Th, CB(W) 450
—3, V F, CB(W) 450
—4, III Th, CB(W) 450
—5, VII W, CB(W) 450
—6, VI T, CB(W) 450

71 **Maps, Map Interpretation** (3 cr, §60; prereq soph, 5 cr or ♯)
II-III TTh, CB(W) 445, Saari

78 **Industrialization** (3 cr; prereq 41 or ♯)
II MWF, CB(W) 435, Caesar

81 **Cartography** (3 cr, §70; prereq 5 or ♯)
VI-VII MW, CB(W) 455, Hsu

90H Undergrad Honors Seminar (3 cr; prereq 10 cr geog, 3.0 GPA, ♯)
VIII-IX M, CB(W) 445, Webb

106 **Regions of the USSR** (3 cr; prereq 63 or ♯)
V MWF, CB(W) 235, Adams

122 **East Asia** (3 cr; prereq 5 cr or ♯)
II MWF, CB(W) 425, Hsu

137 **Canada, Alaska** (3 cr, §111; prereq 10 cr or ♯)
8:15-9:30 TTh, CB(W) 235, Mather

141 Middle America (3 cr, §109)
III MWF, CB(W) 235, Barrett

153 Adv Physical Geography (3 cr, §135; prereq 152 or ♯)
IV MWF, CB(W) 445, Skaggs

168 American Cities—Location, Geographic Design (3 cr; prereq 167, ♯)
III MWF, CB(W) 435, Borchert

168A American Cities—Field Study (3 cr, §169; prereq 168 or ¶) Borchert

184 **Air Photo Interpretation** (3 cr, §139; prereq 81 or ♯)
VI-VII TTh, CB(W) 445, Brown

185 Source Materials for Geographic Research (3 cr, §165; prereq sr, 15 cr)
2:15-3:30 TTh, CB(W) 445, Wolter

188 Area Sampling, Analysis (3 cr, §Soc 188; prereq 87, Soc 45 or ♯)
11:15-12:30 TTh, CB(W) 450, Adams, Skaggs

190 Readings (1-3 cr; prereq sr)

191C Institute in Geography (3 cr; prereq 191B)
7:00-9:00 pm T, CB(W) 445, Borchert, Lukermann

193 **Topics: Geography** (3 cr; prereq △, sr, grads)
VI MWF, CB(W) 435, Brown

196 Proseminar: East, South Asia (3 cr, §Anth 196, Pol 196, Ortl 196, Hist 196; prereq sr) Schwartzberg

197 Proseminar: Development of Geographic Thought (3 cr, §160; prereq 15 cr with B avg, sr or ♯)
VIII-IX W, CB(W) 445, Broek

210 Seminar: Theoretical Geography (3 cr; prereq ♯)

223 Seminar: Research Topics (3 cr; prereq △)
1:15-3:00 F, CB(W) 445, Caesar

233 Seminar: Historical Geography of Europe (3 cr; prereq ♯)
VIII-IX T, CB(W) 225, Rice

273 Seminar: Historical Economic Geography (3 cr; prereq ♯)
VIII-IX Th, CB(W) 445, Lukermann

278 Seminar: Agricultural Geography (3 cr; prereq ♯)
VIII-IX T, CB(W) 445, Mather

301 Research Probs (ar cr)

GERMAN (Ger)

2A **Bgn German: Oral Approach** (5 cr, §2B; prereq 1A)
—1, Lect I MWF, FolH 209
Lab I TTh, FolH 209
—2, Lect I MWF, FolH 109
Lab I TTh, FolH 203
—3, Lect V MWF, FolH 209½
Lab V TTh, FolH 209½

3 **Bgn German: Oral Approach** (5 cr; prereq 2)
—1, Lect IV TTh, Bu 120, 123, CCTV, C Wood
—2, Lect VII TTh, Bu 120, Arch 15,

CCTV, C Wood
—1, Rec I MWF, FolH 207
—2, Rec I MWF, FolH 208
—3, Rec II MWF, ChE 162
—4, Rec III MWF, AE 321
—5, Rec IV MWF, FolH 209
—6, Rec V MWF, FolH 209
—7, Rec V MWF, FolH 208
—8, Rec VII MWF, FolH 209
—9, Rec VII MWF, FolH 207
—10, Rec VII MWF, FolH 303

3A Bgn German: Oral Approach (5 cr, §3B; prereq 2A)
—1, II MTWThF, FolH 207
—2, III MTWThF, FolH 209½
—3, III MTWThF, Pt 110
—4, VI MTWThF, FolH 209½

3B Bgn German: Language, Culture (5 cr, §3A; prereq 2B)
—1, Lect III MWF, FolH 209
Lab III TTh, FolH 209
—2, Lect VI MWF, FolH 209
Lab VI TTh, FolH 209

4 Interm German (3 cr; prereq 3A or 3B or 3 yrs HS Ger)
—1, II MWF, FolH 209
—2, III MWF, ChE 50
—3, VI MWF, FolH 207

5 Interm German (2 cr; prereq 3A or 3B or 3 yrs HS Ger)
—1, II TTh, FolH 209
—2, III TTh, FolH 305
—3, VI TTh, FolH 105

52 Reading German: Bgn for Juniors, Seniors (3 cr, §3A or 3B or 3H; prereq 51)
I MWF, FolH 209½

55 German Literature in Translation (2 cr)
II TTh, FolH 305, F Wood

56A Reading, Analysis of Literary Texts (3 cr; prereq 4 or 4 yrs HS Ger, not open to students with 70 or above)
—1, IV MWF, FolH 207
—2, V MWF, FolH 207
—3, V MWF, Pt 110

59 Composition (2 cr; prereq 58)
VI TTh, FolH 207

59H Honors Course: Composition (2 cr; prereq 58, △)
VI TTh, Pt 111, Coleman

63 Conversation (2 cr; prereq 62)
VII TTh, FolH 207

63H Honors Course: Conversation (2 cr; prereq 62, △)
VII TTh, FolH 204, Coleman

68 Contemporary Germany (3 cr; prereq 56 or 4, △)
IV MWF, FolH 209½, Weiss

72 Lyric Poetry from Goethe to Rilke (3 cr; prereq 56A or ♯)
11:15-12:30 TTh, FolH 303, F Wood

75 Drama from Lessing to the Present (3 cr; prereq 56A or 4, △)
IV MWF, FolH 208, Menze

77 Prose of the 19th, 20th Centuries (3 cr; prereq 56A or ♯)
9:45-11:00 MWF, Arch 140

78 Prose of the 19th, 20th Centuries (3 cr; prereq 56A or ♯)
9:45-11:00 TTh, FolH 306, Friedrichsmeyer

90H Honors Course: Proseminar (3 cr; prereq cand for honors in Ger)

93 Civilization, Culture (3 cr; prereq 3 cr above 70)
VII MWF, FolH 209½, Weiss

96 Survey of Literature (3 cr; prereq 3 cr above 70)
II MWF, FolH 208, Friedrichsmeyer

99 Faust I (3 cr; prereq 6 cr above 70)
III MWF, FolH 208, Ramras

105 German Style, Composition (1 cr; prereq 66)
VII Th, FolH 208, Friedrichsmeyer

115 Methods of Comparative Germanic Linguistics (3 cr, †114-115; prereq 114)
VIII-IX M, FolH 207, C Wood

123 History of the German Language (3 cr, †122-123; prereq 122)
VIII-IX F, FolH 307, Coleman

142 Drama in Translation (3 cr; prereq sr, 9 cr theat arts or lit above 50, not open to maj or min)
II-III Th, FolH 208, Menze

149 Directed Reading (2-3 cr)

165 Goethe: Faust (3 cr; prereq sr, 14 cr above 70)

172 Romanticism (3 cr; prereq sr, 14 cr above 70)
VIII-IX T, FolH 208, F Wood

178 19th Century Drama (3 cr; prereq sr, 14 cr above 70)
VI-VII W, FolH 208, Menze

200 Proseminar: German Literature (3 cr; prereq 1st or 2nd yr grad)
VIII-IX Th, FolH 207, Weiss

254A Seminar: 19th Century—Morike (3 cr; prereq 1 yr grad work)
VIII-IX W, FolH 208, Taraba

HISTORY (Hist)

2 Civilization of the Modern World (3 cr)
Lect VII TTh, MNH Aud, Christianson
—1, I T, AE 21
—2, I Th, ForH 160

—3, III M, AE 21
—4, III W, FraH B1
—5, III F, ForH 60
—6, IV M, FraH B20
—7, IV W, FraH B20
—8, IV F, ForH 130
—9, V T, AE 21
—10, V Th, AE 21
—11, VI M, FraH B20
—12, VI T, FraH B20
—13, VI W, FraH B20
—14, VI Th, AH 101
—15, VI F, VH 303
—16, VIII Th, SciB 527

2H Honors Course: Civilization of the Modern World (3 cr; prereq ♯)
Lect VII TTh, MNH Aud, Christianson
Rec VII W, FraH B20, Christianson

3 Civilization of the Modern World (3 cr)
Lect II TTh, MNH Aud, Kieft
—1, I M, ME 221
—2, I W, ME 221
—3, I Th, AE 21
—4, I F, ME 221
—5, III T, AE 225
—6, III T, FraH B20
—7, III Th, AE 21
—8, III Th, AE 225
—9, IV M, AE 209
—10, IV T, C 115
—11, IV W, AE 209
—12, IV Th, C 115
—13, IV F, AE 209
—14, V M, FraH B20
—15, V T, AE 209
—16, V W, FraH B20
—17, V Th, AE 209
—18, V F, VH 6
—19, VI T, ForH 155
—20, VI Th, AH 350
Lect III TTh, NH 45, Rudolph
—21, I T, AH 350
—22, I Th, AH 101
—23, II M, Bu 105
—24, II T, ForH 40
—25, II T, AH 350
—26, II T, AE 225
—27, II Th, AH 101
—28, II Th, WuH 130
—29, II F, ForH 50
—30, IV T, FraH B20
—31, IV T, E 217
—32, IV Th, E 217
—33, IV Th, AE 21
—34, V T, AE 211
—35, V Th, AE 211
—36, VI M, ME 221
—37, VI T, ForH 285
—38, VI W, ME 221
—39, VI Th, ForH 285
—40, VI F, ME 221
Lect VI TTh, Bo B6, Noonan
—41, I F, VH 6
—42, II T, AH 150
—43, II Th, AH 350
—44, IV T, E 106
—45, IV Th, E 106
—46, V M, ME 214
—47, V T, E 106
—48, V W, ME 214
—49, V Th, E 106
—50, V F, ME 214
—51, VII T, ME 208
—52, VII Th, VH 6
Lect VI TTh, MNH Aud, Noonan
—53, III M, Bu 105
—54, III T, E 217
—55, III W, FraH B20
—56, III Th, E 217
—57, III F, Arch 10
—58, IV T, AH 101
—59, IV Th, AH 101
—60, V M, VH 6
—61, V W, VH 6
—62, V F, VH 113
—63, VI M, VH 303
—64, VI T, VH 113
—65, VI W, VH 303
—66, VI Th, SciB 527
—67, VIII T, VH 309

3H Honors Course: Civilization of the Modern World (3 cr; prereq ♯)
—1, Lect II TTh, MNH Aud, Kieft
Rec II W, FolH 110, Kieft
—2, Lect III TTh, NH 45, Rudolph
Rec VII Th, VH 306, Rudolph
—3, Lect VI TTh, Bo B6, Noonan
Rec VI W, VH 309, Noonan
—4, Lect VII TTh, Owre 15, Noonan
Rec VII W, ForH 130, Noonan

6 English History (3 cr)
Lect IV TTh, MNH Aud, Altholz
—1, I T, VH 307
—2, I F, VH 307
—3, II Th, Z 211
—4, II Th, SciB 527
—5, III F, ForH 70
—6, IV W, ForH 130
—7, IV F, ForH 50
—8, V M, VH 113
—9, V W, VH 113
—10, V F, ForH 50
—11, VI T, ForH 130
—12, VI Th, ForH 130
—13, VII M, ME 302
—14, VII F, ME 302

13 Medieval, Renaissance History (3 cr)
IV MWF, Bo B6, Buzicky, Hoyt

13H Honors Course: Medieval, Renaissance History (3 cr; prereq ♯)
Lect IV MWF, Bo B6, Buzicky, Heyt
Rec VI-VII F, SocSci(W) 633, Buzicky, Hoyt

16 Ancient Civilization (3 cr)
—1, I MWF, Ph 166, Muhly
—2, VII TWTh, Bo B6, Leichty

16A Ancient Civilization with Readings (5 cr)
—1, I MWF, Ph 166, Muhly
I TTh, JohH 113, Muhly
—2, VII TWTh, Bo B6, Leichty
VII MF, CB(W) 130, T Jones

19 Asia (3 cr)
2:15-3:30 TTh, SciB 325, Dietrich, Marshall, Zelliot

23 American History (4 cr; prereq soph)
Lect 2:15-3:30 TTh, C 100, Rutman
—1, I M, ChE 54
—2, I Th, WuH 130
—3, I W, ChE 54
—4, III M, FraH B20
—5, III T, FraH B1
—6, IV Th, ME 110
—7, IV F, ForH 60
—8, V M, ME 302
—9, V T, FraH B20
—10, V W, ME 302
—11, V F, ME 302
—12, VI M, VH 309
—13, VI T, ChE 150
—14, VI T, Bu 105
—15, VI Th, ChE 150

23H Honors Course: American History (4 cr; prereq soph, ♯)
Lect 2:15-3:30 TTh, C 100, Rutman
Rec IX Th, CB(W) 225, Rutman

24 American History (4 cr; prereq soph)
Lect 11:15-12:30 TTh, C 100, Green
—1, I M, FraH B25
—2, I Th, AH 350
—3, I W, FraH B25
—4, II T, Pt 214
—5, II T, VH 205
—6, III Th, AH 101
—7, III Th, AH 350
—8, III F, ForH 50
—9, VI M, Arch 10
—10, VI T, Ph 143
—11, VI Th, Bu 105
—12, VI F, ForH 50
—13, VII M, ME 106
—14, VII W, ME 106
—15, VII F, ME 106

24H Honors Course: American History (4 cr; prereq soph, ♯)
Lect 11:15-12:30 TTh, C 100, Howe
Rec II T, SocSci(W) 633, Howe

52 Ancient Civilization (3 cr, §16)
—1, I MWF, Ph 166, Muhly
—2, VII TWTh, Bo B6, Leichty

55 Civilization of the Modern World (3 cr, §3)
Lect IV TTh, Z 313, Thayer
—1, V T, ME 106
—2, V Th, AH 101
—3, VI T, Z 313
—4, VI T, Z 313

58 England (3 cr, §6)
Lect IV TTh, MNH Aud, Altholz
—1, IV F, ForH 70
—2, V T, ForH 30
—3, V Th, WuH 130

61 Asia (3 cr, §19)
2:15-3:30 TTh, SciB 325, Dietrich, Marshall, Zelliot

75A Ancient Israel (3 cr, §Hebr 75)
V MWF, FolH 109, Paradise

76 History of the Arabs (3 cr, §Arab 76; prereq 75)
VII MWF, Arch 5, Hitti

81 United States in 20th Century (3 cr)
VI MWF, ScH 108, A Jones

84H Honors Course: History (3 cr, †82H-83H-84H; prereq 83H)
VII-VIII W, CB(W) 145

92A American Social History (3 cr)
VII MWF, CB(W) 440, Smith

94A American Business History: 1890 to Present (3 cr)
VI MWF, CB(W) 220, Green

95 History of American Foreign Policy (3 cr)
IV MWF, CB(W) 10, Brauer

100B Directed Study (3 cr; prereq ♯)

101B Directed Study (3 cr; prereq ♯)

102B Directed Study (3 cr; prereq ♯)

105A Ancient Near East (3 cr)
VI TWTh, CB(W) 415, Leichty

105B Greece to 200 BC (3 cr)
VIII TWTh, CB(W) 220, T Jones

108C Europe in Late Middle Ages, Renaissance, Reformation (3 cr)
III MWF, CB(W) 230, Tracy

111V The Vikings (3 cr)
9:45-11:00 TTh, CB(W) 255, Sawyer

117D Europe in 20th Century (3 cr)
II MWF, Ph 166, Munholland

120C History of Germany (3 cr)
VI MWF, CB(W) 235, Kieft

120D Central Europe: 1867 to Present (3 cr; prereq 3)
12:45-2:00 TTh, CB(W) 235, Wright

120E History of Early Russia (3 cr)
IV MWF, CB(W) 235, Noonan

120F Modern Russia (3 cr)
III MWF, CB(W) 10, Stavrou

120J History of Scandinavian Countries (3 cr)
II MWF, CB(W) 135, Oakley

123A Economic History of Europe (3 cr)
12:45-2:00 TTh, CB(W) 110, Rudolph

123C Intellectual, Cultural History of Modern Europe (3 cr)
II MWF, CB(W) 130, Thayer

135E American History: 1850-1900 (3 cr)
II MWF, CB(W) 155, Loehr

141C Intellectual History of U S (3 cr)
11:15-12:30 TTh, Owre 15, Noble

141E Social History of American Education (3 cr, §HEd 151; prereq 23, 24 or ♯)
VI MWF, CB(W) 255, Smith

141F American Constitutional History (3 cr)
IV MWF, CB(W) 250, Murphy

141J Race, Nationality in American History: 1920 to Present (3 cr)
III MWF, CB(W) 150, Spear

144A American Economic History: Developments Since 1860 (3 cr)
III MWF, CB(W) 130, Loehr

144C History of American Labor (3 cr)
9:45-11:00 TTh, CB(W) 235, Berman

147A Latin-American History (3 cr)
IV MWF, CB(W) 120, Werlich

149A History of India (3 cr)
11:15-12:30 TTh, FolH 308, Zelliot

149E Chinese History Since 1800 (3 cr)
V MWF, CB(W) 425, Dietrich

149F History of Japan Since 1700 (3 cr)
VI MWF, CB(W) 425, Marshall

162A Proseminar: Ancient History (3 cr, †160A-161A-162A; prereq 161A)
8:00-10:00 **pm** W, SocSci(W) 768, Muhly

162B Proseminar: Ancient History (3 cr, †160B-161B-162B; prereq 161B)
IX TTh, SocSci(W) 628, Leichty

165A Proseminar: Medieval History (3 cr, †163A-164A-165A; prereq 164A)
VI-VII T, SocSci(W) 628, Hoyt, Sawyer

171C Proseminar: Europe in 18th Century (3 cr, †169C-170C-171C; prereq 170C)
8:00-10:00 **pm** T, SocSci (W) 772, Wright

171E Proseminar: Recent European History (3 cr, †169E-170E-171E; prereq 170B)
VI-VII M, SocSci(W) 628, Munholland

174A Proseminar: 17th Century Europe (3 cr, †172A-173A-174A; prereq 173A)
VII-VIII W, SocSci(W) 633, Christianson

174F Proseminar: Russian History (3 cr, †172F-173F-174F; prereq 173F)
VII-VIII W, SocSci(W) 628, Stavrou

174G Proseminar: Scandinavian History (3 cr, †172G-173G-174G)
3:15-5:00 T, CB(W) 450, Oakley

180A Proseminar: English History—Tudor, Stuart Periods (3 cr, †178A-179A-180A; prereq 179A)
3:30-5:30 F, BA(W) 632, Moir

180C Proseminar: Modern England—1783 to Present (3 cr, †178C-179C-180C; prereq 179C)
VIII-IX Th, SocSci(W) 633, Altholz

183A Proseminar: 17th, 18th Century American History (3 cr, †181A-182A-183A; prereq 182A)
4:15-6:15 W, SocSci(W) 633, Rutman

183B Proseminar: Era of the American Revolution (3 cr)
VII-VIII F, SocSci(W) 628, Howe

183J Proseminar: 20th Century American History (3 cr, †181J-182J-183J; prereq 182J)
VIII-IX W, CB(W) 140, Chambers

185E Proseminar: The Negro in American History (3 cr; prereq 184E)
1:15-3:15 W, SocSci(W) 860, Spear

186A Proseminar: The West in American History (3 cr, †184A-185A-186A; prereq 185A) Berkhofer

189A Proseminar: American Political, Constitutional History (3 cr, †187A-188A-189A; prereq 139F, 140F, 141F or ♯)
3:15-5:15 T, SocSci(W) 633, Murphy

189B Proseminar: History of American Foreign Policy (3 cr, †187B-188B-189B)
VIII-IX W, CB(W) 425, Brauer

189D Proseminar: Intellectual History of U S in 19th, 20th Centuries (3 cr, †187D-188D-189D; prereq 188D)
8:00 **pm** W, Noble

189E Proseminar: American Religious History (3 cr, †187E-188E-189E; prereq 188E)
IX-X T, Ph 236A, Smith

189F Proseminar: American Labor History (3 cr, †187F-188F-189F; prereq 188F)
2:15-4:15 T, CB(W) 430, Berman

189G Proseminar: American Economic History (3 cr, †187G-188G-189G; prereq 188G)
VI-VII M, SocSci(W) 633, Loehr

192A Proseminar: Latin-American History (3 cr, †190A-191A-192A; prereq 191A)
VI-VII Th, SocSci(W) 633, T Jones

195B Proseminar: India (3 cr, †193B-194B-195B; prereq 194B)
II-III Th, SocSci(W) 628, Zelliot

196 Proseminar: East, South Asia (3 cr, §Anth 196, Geog 196, Ortl 196, Pol 196; prereq sr) Marshall

200 Historical Bibliography, Criticism (3 cr)
VI-VII M, BA(W) 933, T Jones

212A Ancient History (3 cr, †210A-211A-212A; prereq 211A)
8:00-10:00 pm Th, SocSci(W) 712, T Jones

215A Medieval History (3 cr, †213A-214A-215A; prereq 214A)
VI-VII T, SocSci(W) 633, Hoyt

233A 17th Century American History (3 cr, †231A-232A-233A; prereq 232A) Rutman

239E American Social, Educational History (3 cr, †237E-238E-239E, §HEd 298; prereq 238E)
IX-X W, SocSci(W) 628, Smith

245C Seminar: History of Japan (3 cr, †243C-244C-245C; prereq 244C) Marshall

250A Ming, Ch'ing History (3 cr; prereq 249A) Dietrich

HUMANITIES (Hum)

1 **Modern World I** (5 cr, §1A or 51)
—1, I MTWThF, JohH 114, Kheim
—2, I MTWThF, Arch 40, Powell
—3, II MTWThF, FraH B1, Todd
—4, III MTWThF, Arch 145, Ouren
—5, IV MTWThF, JohH 114, Ramsland
—6, V MTWThF, JohH 114, Brill
—7, VI MTWThF, JohH 114, Hallberg
—8, VI MTWThF, AH 9, Sutton
—9, VII MTWThF, JohH 114, Griffin
—10, VIII MTWThF, JohH 114, Toth
—11, VIII MTWThF, Arch 5, White

1A **Humanities in Modern World** (3 cr, §1 or 51)
VI MWF, ME 302, Waldauer

1H **Honors Course: Modern World I** (5 cr, §1 or 1A; prereq ♯ or △)
III MTWThF, ForH 130, Penn

2 **Modern World II** (5 cr, §2A or 52; prereq 1, 1A)
—1, II MTWThF, FolH 209½, Ramsland
—2, VI MTWThF, Arch 145, Alsen

3 **Modern World III** (5 cr, §3A or 53; prereq 2, 2A or 52)
VII MTWThF, Arch 145, Zimmerman

3A **Modern World III** (3 cr, §3 or 53; prereq 2 or 2A)
II MWF, ME 18, Scott

3H **Honors Course: Modern World III** (5 cr, §3 or 3A; prereq ♯ or △)
III-IV TTh, E 303

4 **Modern World IV** (5 cr, §54; prereq 1 or 1A, 2 or 2A, 3 or 3A)
VI MTWThF, AH 150, Atkin

13 **Renaissance, Reformation** (5 cr, §63)
VI MTWThF, Arch 60, Tracy

23 **American Life III** (3 cr, 9 cr max in 21, 22, 23, 71, 72, 73)
—1, II MWF, VH 6, Hage
—2, III MWF, VH 6, Pratt
—3, IV MWF, VH 6, Jones
—4, VI MWF, VH 6, Scanlan

52 **Modern World** (5 cr, §2 or 2A)
VI MTWThF, Ph 131, Milgrom

53 **Modern World** (5 cr, §3 or 3A)
—1, VII-VIII TTh, FolH 308, Taraba
—2, VI-VII TTh, ME 110, 1 hr ar, Ramras

54 **Modern World** (5 cr, §4)
—1, II MTWThF, ME 110, Penn
—2, IV MTWThF, Arch 145, Tembeck
—3, VII MTWThF, FraH B1, Hult

55 **Humanities in the Modern World V** (5 cr; prereq 4 or 54)
VII-VIII MW, JacH 74, Kliger

63 **European Heritage** (5 cr, §13)
—1, I MTWThF, Arch 145, Louden
—2, III-IV TTh, Arch 60, Louden
—3, VI-VII TTh, Arch 45, Weber

73 **Humanities in U S** (3 cr, 9 cr max in 21, 22, 23, 71, 72, 73)
VII MWF, CB(W) 155, Cooperman

133 **Proseminar** (3 cr; prereq sr)
—1, VI-VII M, Bu 105, Bryan
—2, VI-VII T, JohH 105, Ames
—3, IV-V W, SocSci(W) 633, Roshwald

133H **Honors Course: Proseminar** (3 cr; prereq sr, △)
VIII-IX TTh, JohH 106, Kliger

INTERNATIONAL RELATIONS (IntR)

91H Honors Course: Supervised Research Paper (3 cr; prereq 90H)
9:45-11:00 TTh, SocSci(W) 1450, Sapin

JOURNALISM AND MASS COMMUNICATIONS

Journalism (Jour)

1 **Intro to Mass Communications** (3 cr; prereq 2nd qtr fr with B Engl avg, 3rd qtr C avg or soph)
Lect II MW, MurH 308, Barden, Charnley
—1, Lab I-II F, MurH 212, Charnley
—2, Lab I-II F, MurH 210, McReynolds
—3, Lab IV-V T, MurH 210, Brovald

5 Visual Communication (3 cr; prereq 3rd qtr fr)
Lect VIII MW, Arch 45, 60, Schuneman, Wilson, CCTV
—1, Rec VII-VIII F, MurH 20, Artz
—2, Rec VII-VIII Th, MurH 206, Smith
—3, Rec VII-VIII F, MurH 206, Schuneman
—4, Rec VIII-IX Th, MurH 207, Hudson

6 Bgn Photojournalism (3 cr; prereq soph)
—1, II-IV TTh, MurH 20, Schuneman
—2, II-IV MF, MurH 20, Bay

14 Reporting (3 cr; prereq 1 or 13, soph, C avg, ¶Comp 27, type 35 words per min)
—1, I-II TTh, MurH 212, 1 hr ar, Hage
—2, VI-VII TTh, MurH 210, 1 hr ar, Lindsay

16 Mass Communications Law (2 cr; prereq 1, ¶14)
III TTh, MurH 302, Sim

18 Prin of Advertising (3 cr; prereq soph, 1, C avg, ¶Comp 27, up div students ¶1)
VI MWF, MurH 311, Barden

41 Publications Editing (3 cr; prereq soph, 1 or 11)
Lect VI M, MurH 207, Sim
Lab VI-VII WF, MurH 207

50 Interpretive Reporting (3 cr; prereq soph B avg in 1, 14 or jr, C avg, Comp 27 or 28 or ♯)
—1, I-II TTh, MurH 210, Charnley
—2, VI-VII TTh, MurH 212, Gerald

51 News Editing (2 cr; prereq 50 or B avg in 1, 14)
VI-VII TTh, MurH 207

57 Design, Typography: Advertising (3 cr; prereq min in educ or BA or AFHE or jour advertising maj or ♯)
Lect I T, MurH 420, Wilson
—1, Lab VI-VII TTh, MurH 315, Wilson
—2, Lab III-IV MW, MurH 315, Krummert

60 Graphic Arts: Processes (3 cr; prereq jr)
9:45-11:00 TTh, MurH 308, Wilson

66 Adv Photojournalism II (3 cr; prereq 65 or ♯)
VI-VIII TTh, MurH 20, Schuneman

79 Advertising Copy Writing (5 cr; prereq 18, 57, 60)
Lect II MWF, MurH 311, Harris
Lab III-IV TTh, MurH 212, Harris, Leinfelder

82 Supervision of School Publications (3 cr; prereq 41 or 51)
VI MWF, MurH 206, Sim

90 Mass Communications, News (3 cr; prereq non-jour maj)
III MWF, MurH 311, Emery

101 Reporting of Public Affairs (3 cr; prereq sr, 51)
IV MWF, MurH 302, Hage

106 Critical Writing (3 cr; prereq up div writing course, ♯)
VII MWF, MurH 311, Charnley

111 Development of American Broadcasting (3 cr)
IV MWF, MurH 311, Paulu

112 Communication, Public Opinion (3 cr; prereq 15 cr soc sci)
III MWF, MurH 308, Tichenor

115 Communications Analysis: Content, Audiences, Effects (3 cr; prereq intro course stat, ♯)
9:45-11:00 TTh, MurH 311, Jones

118 Adv Projects (1-3 cr; prereq sr, jour maj, B avg, ♯)

122H Honors Course: Current Communications Probs (3 cr; prereq sr, 51) Gerald

126 Communications in Authoritarian Society (3 cr; prereq 15 cr soc sci...up div course in intl rel or compar govt rec)
VII MWF, MurH 302, Nixon

142 News Interpretation for Radio, Television (3 cr; prereq 85)
VI MWF, MurH 302, Lindsay

143 Interpretation of Science, Technology (3 cr; prereq 102, 112, Phil 160)
VII MWF, MurH 420, Tichenor

150 Institutional Public Relations (2 or 3 cr; prereq sr, non-jour maj, ♯)
3:15-4:30 MW, MurH 311, Lindsay

158 Graphic Design Analysis (3 cr; prereq 56 or 57 or 60 or ♯) Wilson

163 Advertising: Media Strategy, Analysis (3 cr; prereq sr, 18, 161, 162, ♯ or Mktg 77)
VI MWF, MurH 308, Borden

164 Current Advertising Developments, Probs (3 cr; prereq sr, 163 or ♯)
2:15-3:30 TTh, MurH 311, Peterman

177 Contemporary Probs: Freedom of Speech Press (3 cr; prereq 15 cr soc sci)
II TTh, 1 hr ar, MurH 207, Gerald

210 Seminar: History of Communications (3 cr; prereq 209) Emery

213 Seminar: Mass Communication Theory (3 cr; prereq 113, ♯) Westley

222 Seminar: Communication Agencies as Social Institutions (3 cr; prereq 221) Gillmor

225 Seminar: Intl News Communication, Comparative Journalism (3 cr; prereq 224) Nixon

264 Seminar: Advertising Research (3 cr; prereq 115 or 215 or ♯) Peterman

279 Seminar: Govt, Mass Communications (3 cr; prereq 278) Gerald

292 Probs: Mass Communications (3 cr; prereq 291)

LIBRARY SCHOOL (Lib)

102 Reference I (3 cr)
IV MWF, Lib 4A, Kromer

104 Selection of Library Materials (3 cr)
4:00-5:15 TTh, Lib 4A, Freeman

171 Reading Guidance for Children (3 cr; prereq 104)
II MWF, Lib 4A, Olson

172 Reading Guidance for Adolescents (3 cr; prereq 104)
6:30-9:00 M, Lib 4A, Kromer

173 Reading Guidance for Adults (3 cr; prereq 104)
9:45-11:00 TTh, Lib 4B, Freeman

242 Intro to Information Retrieval (3 cr; prereq 103 or ♯)
6:30-9:00 Th, Lib 4A, Brekhus

243 Adv Information Retrieval (3 cr; prereq 241, 242)
9:45-11:00 TTh, Lib 4A, Simonton

253 History of Books, Printing (3 cr; prereq ♯)
8:15-9:30 TTh, Lib 4A, Shove

260 Literature of Social Sciences (3 cr; prereq 102)
II MWF, Lib 4B, Kromer

261 Literature of Humanities (3 cr; prereq 102)
2:15-3:30 TTh, Lib 4B, Van der Boom

262 Literature of Natural Sciences (3 cr; prereq 102)
3:30-5:30 T, Lib 4B, Bjorgo

268 Research Methods in Librarianship (3 cr; prereq ♯)
IV MWF, Lib 4B, Olson

275 Publishers, Publishing (3 cr)
11:15-12:30 TTh, Lib 4A, Shove

283 Adv Cataloguing, Classification (3 cr; prereq 103)
VI MWF, Lib 4A, Samanisky

295 Research (3 cr; prereq 101, 102, 103, 104, 105, grad program)

296 Research (3 cr; prereq 101, 102, 103, 104, 105, grad program)

297 Research (3 cr; prereq 101, 102, 103, 104, 105, grad program)

MIDDLE EASTERN LANGUAGES

Arabic (Arab)

3 Intro to Arabic Grammar, Reading (5 cr; prereq 2)
II MTWThF, J 202, Saada

53 Interm Arabic (4 cr; prereq 52)
III MTThF, VH 125

56 Dialectic Analysis (3 cr; prereq 55)
I MWF, TSF 103

63 Arabic Composition (3 cr; prereq 62)
IV MWF, VH 125

73 Adv Literary Arabic (3 cr; prereq 72)
III MWF, TSF 157F, Chejne

76 History of the Arabs (3 cr, §Hist 76; prereq 75)
VII MWF, Arch 5, Hitti

153 Directed Readings (1-3 cr; prereq 152)

163 Hispano-Arabic Culture (3 cr, §Span 163; prereq ♯)
II MWF, VH 125, Chejne

Hebrew (Hebr)

3 **Bgn Hebrew** (5 cr; prereq 2)
—1, II MTWThF, Arch 20, Paradise
—2, VII MTWThF, FolH 205, Toledano

53 Interm Hebrew (4 cr; prereq 52)
III MTThF, A 205, Paradise

75 Ancient Israel (3 cr, §Hist 75)
V MWF, FolH 109, Paradise

MUSIC (Mus)

2T **Theory** (3 cr; prereq 1T)
—1, III MTWThF, ScH 3, McSpadden
—2, V MTWThF, ScH 3, Johnson

3T **Theory** (3 cr; prereq 2T)
—1, I MTWThF, ScH 3, Bachelder
—2, II MTWThF, NMA 5, McHugh
—3, III MTWThF, ScH 103, Oberg
—4, IV MTWThF, ScH 3, McSpadden
—5, V MTWThF, MusEd 200, Goode
—6, VI MTWThF, ScH 3, McSpadden
—7, VII MTWThF, ScH 3, Goode
—8, VIII MTWThF, ScH 3, Johnson

4 **Fundamentals** (2 cr; prereq non maj)
—1, I MW, NMA 5, I TTh, MusEd 103, Snesrud
—2, I MW, MusEd 103, I TTh, WuH 320, Dickinson
—3, II MW, MusEd 103, II TTh, NMA 4, Lauritzen
—4, IV MW, MusEd 103, IV TTh, NMA 5, Spino

—5, V MW, WuH 320, V TTh, MusEd 103, Lauritzen
—6, VI MW, WuH 320, VI TTh, MusEd 103, Lauritzen
—7, VII MW, NMA 5, VII TTh, MusEd 103, Lauritzen
—8, VII MW, MusEd 103, VII TTh, ScH 104, Dickinson

5T Theory (4 cr; prereq 4T)
V MTWThF, ScH 103, Bachelder

6T Theory (4 cr; prereq 5T)
—1, I MTWThF, ScH 103, Malcolm
—2, II MTWThF, ScH 103, Malcolm
—3, VI MTWThF, ScH 103, Malcolm

11 Piano (2-4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Freed, McNab, Weiser

11C Piano: Class Lessons (2 cr; prereq 11B)
Mu Hr IV T, ScH 108
—1, III MWF, MusEd 103, McIntyre
—2, V MWF, MusEd 103, McIntyre
—3, VI MWF, MusEd 103, McIntyre
—4, VIII MWF, MusEd 103, McIntyre

12 Voice (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Knowles, Oja, Schuessler

12C Voice: Class Lessons (2 cr; prereq 12B)
Mu Hr IV T, ScH 108
—1, IV MWF, WuH 7, Robinson
—2, V MWF, WuH 7, Robinson
—3, VI MWF, WuH 7, Robinson
—4, III MWF, ShH 115, Corrigan, Schuessler (theatre undergrads only)

13 Violin (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, McSpadden, Sambuco

14 Viola (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, McSpadden, Sieber

15 Cello (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Jamieson

16 Double Bass (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fitch

17 Flute (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Niosi, Opava

18 Oboe (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Angelucci

19 Clarinet or Saxophone (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fitch, Williams

20 Bassoon (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Beckerman

21 Trumpet (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Chenette, Tetzlaff

22 French Horn (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Binstock

23 Trombone (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Weinman, Zellmer

24 Tuba (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Walton

25 Percussion (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Dahlgren, Fine

26 Harp (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Miller

27 Organ (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fleischer

28 Harpsichord (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107

29 Guitar (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107

30 Accordion (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Hane, Malmberg

33 Music Literature (2 cr)
II MWF, WuH 320, McIntyre

36 History of Music (3 cr; prereq 3T)
III MTWThF, WuH 320, Laudon

39 Women's Glee Club (1 cr; prereq ♯)
V TTh, NMA 5, Schwartz

42 Orchestra (1 cr; prereq ♯)
VIII-IX MWF, WuH 320, 7:00 **pm T**, NMA stage, Sieber

43 **Chorus** (1 cr; prereq no credit participation fall, wtr choir)
—1, IV MWF, NMA 4, 5, 7:00 **pm T**, SciB 325, Schwartz
—2, VI MWF, NMA 4, 5, 7:00 **pm T**, Sci B 325, Schwartz

45S St Paul Campus Chorus (1 cr; prereq ♯)
IX-X TTh, HH 102 (**StP Campus**) Kleinsasser

48 Concert Band (1 cr; prereq ♯)
—1, VIII-IX MTWTh, NMA 4, 5, Bencriscutto
—2, VIII-IX MWF, NMA 4, 5, Bencriscutto
—3, VIII-IX TThF, NMA 4, 5, Bencriscutto

49 Men's Glee Club (1 cr; prereq ♯)
V MWF, NMA 5, Kleinsasser

50 Introduction (5 cr, §1, open to jr, sr non-mus students)
II MTWThF, ScH 108, Laudon

53 History of Musical Styles III (4 cr; prereq non-mus maj, 1 or 50)
IV MWThF, WuH 320, Godt

56 Instrumental Ensemble (2 cr)
II MWF, WuH 7, Oberg

59 Chamber Singers (2 cr; prereq ♯)
VII MWF, NMA 4, Schwartz

61 Piano (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, lesson ar, ScH 107, Freed, McNab, Weiser

62 Voice (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Knowles, Oja, Schuessler

63 Violin (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, McSpadden, Sambuco

64 Viola (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, McSpadden, Sieber

65 Cello (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Jamieson

66 Double Bass (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fitch

67 Flute (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Niosi, Opava

68 Oboe (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Angelucci

69 Clarinet or Saxophone (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fitch, Williams

70 Bassoon (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Beckerman

71 Trumpet (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Chenette, Tetzlaff

72 French Horn (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Binstock

73 Trombone (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Weinman, Zellmer

74 Tuba (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Walton

75 Percussion (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Dahlgren, Fine

76 Harp (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Miller

77 Organ (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Fleischer

78 Harpsichord (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107

79 Guitar (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107

80 Accordion—Classical (2 or 4 cr; prereq entr exam or placement test)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107, Hane, Malmberg

84 Form, Analysis (3 cr; prereq 6T)
I MWF, ScH 104, Argento

92 Adv Instrumental Ensemble (2 cr; prereq sr, 56)
II MWF, WuH 7, Oberg

96H Honors Course: Independent Study (2-6 cr; prereq GPA 3.0)

99 Counterpoint (2 cr; prereq 98)
VI TTh, WuH 320, Fetler

100 Adv Applied Music (2 or 4 cr; prereq entr exam)
Mu Hr IV T, ScH 108, Lesson ar, ScH 107

101C Voice Production for Theatre (2 cr; prereq th arts grad, ♯)
II MWF, ShH 115, Corrigan, Schuessler

106 American Music (3 cr; prereq 105)
IV MWF, ScH 104, Riedel

114 History of Vocal Art (2 cr; prereq 18 cr in 12, 62 or ♯)
VI TTh, ScH 104, Schuessler

120 Piano Literature (2 cr; prereq 12 cr in 11 or ♯)
VIII TTh, ScH 103, Weiser

123 Adv Harmony (2 cr; prereq 122)
II TTh, ScH 3, Argento

126 History of Opera (3 cr; prereq 125)
VII MWF, ScH 104, Argento

129 Composition (2 cr; prereq 128)
VI-VII MW, ScH 203, Fetler

132 Symphonies of Romantic Era (3 cr; prereq 6 cr mus hist or art hist or pol hist or Engl or Ger lit since 1750 or ♯)
II TTh, WuH 320, Oberg

132A Neoromantic Music (3 cr; prereq 36 or ♯)
VIII MWF, WuH 7, Riedel

143 Orchestration (2 cr; prereq 142)
I TTh, ScH 104, Argento

149 Opera Workshop (2 cr)
6:30-8:00 **pm** M, WuH 7, Knowles

156 Middle Ages, Renaissance (3 cr; prereq 155) Godt

162 Band Arranging (3 cr; prereq 161)
IV T, IV-V Th, NMA 4, Bencriscutto

166 Baroque Era (3 cr; prereq 165)
VII MW, WuH 320, Laudon

172 Piano Pedagogy I (2 cr; prereq 171 or ♯)
II TTh, MusEd 103, McIntyre

182 Piano Pedagogy II (2 cr; prereq 181 or ♯)
IV TTh, MusEd 103, McIntyre

187 Collegium Musicum (1 cr; prereq ♯) Godt

199 Adv Counterpoint (2 cr; prereq 198)
VII TTh, ScH 103, Fetler

204 Graduate Applied Music (4 cr; prereq entr exam)
Lesson ar, ScH 107

207 Notation of Polyphonic Music (3 cr; prereq 206)
IX MWF, ScH 3, Godt

212 Problems (3-9 cr; prereq 110)

227 Seminar: Composition, Orchestration (3 cr)
IV MWF, ScH 203, Fetler

228 Seminar: Composition, Orchestration (3 cr; prereq 227)
IV MWF, ScH 203, Fetler

229 Seminar: Composition, Orchestration (3 cr; prereq 228)
IV MWF, ScH 203, Fetler

NATURAL SCIENCE (NSci)

3 Orientation (5 cr)
Lect VII MTWThF, Ph 150, Graubard
—1, Lab I M, Ph 246
—2, Lab I T, Ph 246
—3, Lab I W, Ph 246
—4, Lab I Th, Ph 246
—5, Lab I F, Ph 246
—6, Lab II M, Ph 246
—7, Lab II T, Ph 246
—8, Lab II W, Ph 246
—9, Lab II Th, Ph 246
—10, Lab II F, Ph 246
—11, Lab III M, Ph 246
—12, Lab III T, Ph 246
—13, Lab III W, Ph 246
—14, Lab III Th, Ph 246
—15, Lab III F, Ph 246
—16, Lab IV M, Ph 246
—17, Lab IV T, Ph 246
—18, Lab IV W, Ph 246
—19, Lab IV Th, Ph 246
—20, Lab IV F, Ph 246
—21, Lab V M, Ph 246
—22, Lab V T, Ph 246
—23, Lab V W, Ph 246
—24, Lab V Th, Ph 246
—25, Lab V F, Ph 246
—26, Lab VI M, Ph 246
—27, Lab VI T, Ph 246
—28, Lab VI W, Ph 246
—29, Lab VI Th, Ph 246
—30, Lab VI F, Ph 246
—31, Lab VIII M, Ph 246
—32, Lab VIII T, Ph 246
—33, Lab VIII W, Ph 246

5 Physical World (4 cr, †4-5; prereq 4)
Lab sec assigned first 2 days of class
I MWF, SciB 325, Spees

6 Physical World (4 cr; prereq 4, 5 or ♯)
Lect I MWF, SciB 125, Matsch
—1, Lab III-IV M, ForH 185
—2, Lab V-VI M, ForH 185

—3, Lab V-VI M, ForH 185
—4, Lab VII-VIII T, ForH 185
—5, Lab III-IV W, ForH 185
—6, Lab V-VI W, ForH 185

173 Development of Sciences (3 cr; prereq 1 yr HS or coll biological, physical sci or ‡)
IV MWF, ME 106, Graubard

PHILOSOPHY (Phil)

1 **Problems** (5 cr; prereq 3rd qtr fr)
Lect III MWF, Owre 15, Hanson
—1, I TTh, ForH 170
—2, II TTh, ForH 170
—3, III TTh, ForH 170
—4, IV TTh, ForH 170
—5, V TTh, ForH 170
—6, VI TTh, ForH 170
Lect VII MWF, ForH 55, Raab
—7, V TTh, ForH 359
—8, VII TTh, ForH 55
—9, II TTh, ForH 359
—10, III TTh, ForH 359

2 **Logic** (5 cr)
Lect II MWF, Bo B6, Cohen
—1, I TTh, ForH 359
—2, II TTh, ForH 50
—3, III TTh, ForH 50
—4, IV TTh, ForH 359
—5, V TTh, ChE 158
—6, VI TTh, ForH 359
—7, VII TTh, JohH 106
—8, II TTh, JohH 106
—9, IV TTh, ME 208
—10, V TTh, ME 208
—11, VI TTh, ME 221
—12, VII TTh, ForH 170
Lect VII MWF, SciB 375, McLaughlin
—13, II TTh, JohH 113
—14, III TTh, ForH 155
—15, IV TTh, ME 302
—16, V TTh, MinMet 120
—17, VI TTh, MurH 311
—18, VII TTh, C 315

3 **Ethics** (5 cr; prereq 3rd qtr fr)
Lect VI MWF, ME 4, Mason
—1, I TTh, ME 110
—2, II TTh, ForH 55
—3, III TTh, ForH 349
—4, V TTh, Arch 45
—5, VI TTh, ForH 55
—6, VII TTh, MinMet 116

52 **History of Western Philosophy** (4 cr)
Lect II MWF, Owre 15, Lewis
—1, I T, ForH 130
—2, II T, ForH 130
—3, III T, AH 150
—4, I Th, ForH 130
—5, II Th, ForH 130

52H Honors Course: History of Western Philosophy (4 cr)
Lect II MWF, Owre 15, Lewis
Lab III Th, SciB 527

92H Honors Course: Seminar (3 cr; prereq honors cand, 6 cr up div courses, △) Cohen

101 Principles (4 cr, §1; prereq sr or grad)
VI MWThF, ForH 155, Potter

108 Political, Social Ethics (3 cr; prereq 3 or ‡)
2:15-3:30 TTh, ForH 175, Raab

118 Medieval Philosophy (3 cr; prereq 50, 51 or ‡)
VI MWF, ForH 349, Matthews

131 Hume (3 cr; prereq 52 or ‡)
IV MWF, ForH 160, Lewis

150 Ethical Theory (3 cr; prereq 3 or ‡)
II MWF, ForH 115, Terrell

156 Philosophy of Logic (3 cr; prereq 155 or Math 112A or ‡)
III MWF, ForH 160, Brodbeck

157 Metaphysics (3 cr; prereq 1 qtr hist of phil or ‡)
VI MWF, ForH 130

160 Philosophy of Science (4 cr; prereq 2 or ‡)
VII MTWF, ForH 155, Feigl

162 Philosophy of Language (3 cr; prereq 2 or 6 upper div cr phil or ‡)
II MWF, ForH 170, Mason

168 Philosophy of Law (3 cr; prereq 1, 2 or ‡)
III MWF, ForH 285, Murphy

172 Philosophies of India II (3 cr; prereq 171 or ‡)
VII MWF, ForH 349, Ichimura

182 Philosophy of Religion (3 cr; prereq 6 cr)
III MWF, ForH 349, Matthews

219 Seminar: Social, Political Philosophy (3 cr; prereq ‡) Murphy

225 Seminar: Epistemology (3 cr; prereq 158 or ‡) Terrell

228 Seminar: Logical Theory (3 cr; prereq 155 or ‡) Hanson

POLITICAL SCIENCE (Pol)

B **State in Modern World** (3 cr; prereq A)
III MWF, Bo B6, Schwarz

2 **American Govt, Politics** (3 cr, †1-2; prereq 1)
—1, II MWF, MNH Aud, Backstrom
—2, VII MWF, Owre 15, Eidenberg

25 **World Politics** (3 cr)
VI MWF, Bo B6, Klein

26 **American Foreign Policy** (3 cr)
VII MWF, SciB 325, Penikis

30 **American Public Policy** (3 cr)
VI MWF, C 225, Eidenberg

35 **Quantitative Materials in Political Science** (3 cr; prereq soph, 2 or B)
9:45-11:00 TTh, Arch 15, RePass

90H Honors Course: Research (3 cr; prereq up div maj, △)
VIII-IX MWF, SocSci(W) 1408, Scott

95 Major Paper (no cr; prereq pol sci maj, cons maj adv)

103 American Constitution III (3 cr; prereq 101 or 102)
9:45-11:00 TTh, CB(W) 155, Chase

109 **The Judicial Process** (3 cr; prereq 2 or ♯)
II MWF, CB(W) 410, Sorauf

118 **Metropolitan Govt, Politics** (3 cr; prereq 2 or ♯)
IV MWF, CB(W) 150, Scott

122 **Govt, Domestic Public Policy** (3 cr; prereq 2 or ♯)
9:45-11:00 TTh, CB(W) 430, Gieske

131 **Administrative Process II** (3 cr; prereq 130)
III MWF, CB(W) 155, Jernberg

138 **American Political Campaigns, Elections** (3 cr; prereq 2 or ♯)
VI MWF, CB(W) 450, Backstrom

143 **Govt, Politics of USSR** (3 cr; prereq B or 12 cr soc sci or ♯)
III MWF, CB(W) 250, Turner

146 Social Legislation, Social Institutions in Scandinavian Countries (3 cr; prereq 2 or Soc 1)
9:45-11:00 TTh, CB(W) 410, Rosenthal

157 **Govt, Politics of Developing Areas** (3 cr; prereq C or 15 cr combination econ, soc and/or anth)
II MWF, CB(W) 250, Blue

158 Bureaucracy, Admin in Developing Countries (3 cr; prereq B or ♯)
III MWF, CB(W) 430, Klein

159B Comparative Govt Systems: Principles, Problems (3 cr; prereq 159A)
VI MWF, CB(W) 105, Holt

161 **Probs of Democracy** (3 cr; prereq B or 9 cr soc sci or ♯)
11:15-12:30 TTh, CB(W) 10, Shaw

162 **Recent Political Thought** (3 cr; prereq B or 9 cr soc sci or ♯)
VI MWF, CB(W) 230, Cooperman

166 **Early Modern Political Thought** (3 cr; prereq B or 9 cr soc sci or ♯)
II MWF, CB(W) 235, Sibley

177 U S Foreign Policy (3 cr)
12:45-2:00 TTh, CB(W) 5, Penikis

182 Intl Law: Peace (3 cr; prereq 181)
9:45-11:00 TTh, CB(W) 115, Gerstein

186 Regional Intl Systems (3 cr; prereq 185)
VII MWF, CB(W) 135, Pirro

189 Regional Intl Organization (3 cr)
IV MWF, CB(W) 225, Riggs

196 Proseminar: East, South Asia (3 cr, §Anth 196, Geog 196, Hist 196, Ortl 196; prereq sr) Marshall, Swartzberg, Turner

214B American Political Thought (3 cr; prereq 160, grad maj Amer studies or ♯)
1:15-3:15 W, SocSci(W) 1383, Shaw

220B Govt, Politics in Western Europe (3 cr; prereq 220A)
3:15-5:15 W, SocSci(W) 1383, Schwarz

221 Govt, Politics of USSR (3 cr; prereq 143)
3:15-5:15 M, SocSci(W) 1450, Turner

222 Government, Politics of Japan (3 cr; prereq 153)
3:15-5:15 T, SocSci(W) 1450, Benjamin

224 Govt, Politics of India, Southeast Asia (3 cr; prereq 150 or ♯)
7:00-9:00 pm Th, SocSci(W) 1450, Blue

232 Comparative Methodology, Research Design (3 cr; prereq ♯)
3:15-5:15 Th, SocSci(W) 1450, Holt

235B Seminar: Intl Politics (3 cr; prereq 235A)
1:15-3:15 Th, SocSci(W) 1450, Pirro

246 Seminar: Foreign Policy (3 cr; prereq 177 or ♯)
10:15-12:15 T, SocSci(W) 633

250 Public Opinion, Political Participation (3 cr; prereq ♯)
1:15-3:15 F, SocSci(W) 1383, RePass

258B Research Seminar: Politics, Behavior (3 cr; prereq 258A)
1:15-3:15 M, SocSci(W) 1383, RePass

261 Seminar: Executive Process (3 cr; prereq ♯)
1:15-3:15 T, SocSci(W) 1383, Eidenberg

292 Research Seminar: Constitutional Law (3 cr; prereq ♯)
3:15-5:15 Th, SocSci(W) 1383, Chase

295B Jurisprudence (3 cr, †295B-295C; prereq 295A, course in constitutional, admin or intl law)
3:15-5:15 T, SocSci(W) 1383, Gerstein

PSYCHOLOGY

Personal Orientation (PO)

1 **How to Study** (2 cr but cr does not count toward BA degree)
—1, I MWF, JohH 105

—2, II MWF, JohH 105
—3, IV MWF, JohH 106
—4, V MWF, CD 218

Psychology (Psy)

2 **Gen Psychology** (3 cr, †1-2; prereq 1)
—1, IV MWF, Bu 120, **CCTV**
—2, IV MWF, ForH 115, **CCTV**
—3, IV MWF, Arch 60, **CCTV**
—4, IV MWF, AE 313, **CCTV**
—5, IV MWF, AE 317, **CCTV**
—6, IV MWF, AE 319, **CCTV**
—7, IV MWF, AE 321, **CCTV**
—8, IV MWF, AE 327, **CCTV**
—9, VI MWF, NH 45, **CCTV**
—10, VI MWF, AgEng 108 **(StP Campus) CCTV**
—11, IX MWF, NH 45, **CCTV**
—12, IX MWF, GorC 12 **(StP Campus) CCTV**
—13, IX MWF, GorC 15 **(StP Campus) CCTV**

4-5 **Lab Psychology** (4 cr; prereq **2** or ¶1-2)
Lect V MW, NH 45, **CCTV**, Fox, others
—1, Lab VII-VIII MW, WeH 101, Fox, others
—2, Lab IX-X MW, WeH 101
—3, Lab I-II TTh, WeH 101
—4, Lab V-VI TTh, WeH 101
—5, Lab VII-VIII TTh, WeH 101
—6, Lab III-IV WF, WeH 101

5 **Lab Psychology** (2 cr, †4-5; prereq 4)
Lect VI T, NH 45, **CCTV**, Fox, others
—1, Lab I-II M, WeH 101, Fox, others
—2, Lab III-IV M, WeH 101
—3, Lab V-VI M, WeH 101
—4, Lab III-IV T, WeH 101
—5, Lab IX-X T, WeH 101
—6, Lab I-II W, WeH 101
—7, Lab V-VI W, WeH 101
—8, Lab III-IV Th, WeH 101
—9, Lab I-II F, WeH 101

6 Lab Psychology (2 cr; prereq 5)
VI-VII Th, Psy 109, Fox, others

10 Applications of Psychology (3 cr; prereq 2)
I MWF, WuH 230, Hewer, Loper

55 Sensation, Perception (3 cr; prereq 2)
V MWF, ScH 108, Overmier

70 Prin of Psychological Measurement (3 cr, §QA 5, Soc 45; prereq 2, 5)
VI MWF, FraH 101, J Campbell

75 **Intro to Psychology of Learning** (3 cr; prereq 2)
I MWF, ME 4, Overmier

105 Human Learning B (3 cr; prereq 75, students in sequence A, grad exempt)
IV MWF, ForH 155, LaBerge

119 Analysis of Complex Behavior (3 cr; prereq 117 or ‡)
12:45-2:00 TTh, Arch 15, Thompson

121 **Personality** (3 cr, †120-121; prereq 120)
11:15-12:30 TTh, Bo B6, Tellegen

127 **Intro to Behavioral Genetics** (3 cr; prereq 125, 126)
9:45-11:00 TTh, ForH 285, Gottesman

129 Psychology of Learning (3 cr; prereq 128)
III MWF, WuH 230, Trapold

130 **Vocational, Occupational Psychology** (3 cr; prereq 2, 5 or 5 cr stat)
Lect III TTh, WuH 230, Strong
—1, Lab V-VI F, WeH 101, Strong
—2, Lab VII-VIII F, WeH 101

133 **Motivation** (3 cr, †132-133; prereq 132)
VI MWF, WuH 230, Russell (II F, for grad students only)

137 Counseling Psychology III: Interviewing (3 cr; prereq 136 or ‡)
VII MWF, WuH 230, Strong

145 **Abnormal Psychology** (3 cr, †144-145; prereq 144)
VIII MWF, C 100, Phillips

149 **Neuropsychology of Motivation, Learning** (3 cr; prereq 148 or ‡)
V MWF, Bo B6, Roberts

151 **Animal Psychology** (3 cr; prereq 2, 5)
IX MWF, Ph 166, Roberts

161 **Psychology of Individual Behavior in Industry** (3 cr; prereq 70 or 3 cr stat)
8:15-9:30 TTh, Arch 5, Dunnette

169 Quantitative Models for Learning (3 cr; prereq 168 or ‡)
VIII MWF, JohH 106, Yellott

173 **Clinical Psychology** (3 cr; prereq 172)
VI MWF, ForH 55, Stelmachers

190 Project (ar cr; prereq sr, ‡)

206 Seminar: Psychoparmacology (1 cr; prereq 205, ‡) Heistad, Thompson, others

209 Adv Social Psychology (2 cr; prereq 208) Miller, Weick

212 Research Probs (ar cr)

217 Seminar: Areas of Psychology, Related Sciences (ar cr)

220 Practicum in Rehabilitation Counseling Psychology (3 cr; prereq 219) Lofquist, Matthews, Warnken

223 Seminar: Personality Research (ar cr; prereq ‡) Lykken

226 Seminar: Adv Clinical Child Psychology (1 cr; prereq ‡) Hafner, Quast

229 Seminar: Vocational Rehabilitation Counseling (1 cr; prereq 228)
IX-X alt F, Psy 109, Warnken

232 Field Work: Psychometric, Applied Psychology (ar cr; prereq written cons)

237 Counseling Psychology Practicum (1-3 cr; prereq 236) Berdie, others

242 Seminar: Student Personnel Work (1 cr; prereq ♯) Williamson

246 Psychoanalytic Theory (3 cr; prereq 145, 172)
1:15-3:30 TTh, Psy 109, Harlow

249 Seminar: Mathematical Behavior Theory (3 cr; prereq ♯)
2:15-3:30 TTh, Psy 109, LaBerge, Yellott

252 Adv Seminar: Vocational Rehabilitation Counseling (1 cr; prereq 251)
VIII-IX alt F, Psy 109, Lofquist

256 Experimental Psychopathology (3 cr, †255-256; prereq 255) Garmezy

262 Seminar: Industrial, Organizational Psychology (2 cr, †260-261-262; prereq 261) Dunnette

267 Seminar: Adv Clinical Psychology (1 cr; prereq 266) Hathaway

270 Adv Psychological Measurement (3 cr)
VI MWF, SciB 375, J Campbell

277 Seminar: Research in Counseling Psychology (1 cr; prereq 276) D Campbell

280 Marriage Counseling (3 cr; prereq 279) Neubeck

283 The Social Psychology of Marriage (ar cr, §283; prereq ♯) Neubeck

286 Seminar: Psychology of Language (3 cr; prereq 285) Jenkins

292C Professional Methods in Clinical Psychology I (4 cr; prereq clin psy program or ♯, ¶171-172)
Lect 3:45-5:00 T, Bu 125, Butcher
—1, 3:45-5:00 Th, NH 201, Butcher, others
—2, 3:45-5:00 Th, WuH 130
—3, 3:45-5:00 Th, WuH 230

293C Professional Methods in Clinical Psychology II: Theories of Intervention (4 cr; prereq PhD cand in clinical psy, 292A-B-C)
3:45-5:00 TTh, Psy 109, Meehl, others

294C Professional Methods in Clinical Psychology III: Techniques of Intervention (4 cr; prereq PhD cand in clinical psy, 293A-B-C)
3:45-5:00 TTh, Bu 123, Meehl, others

296 Internship in Clinical Psychology (2-4 cr; prereq PhD cand clinical psy, cons of director)

PUBLIC ADMINISTRATION (PA)

217 Administrative History (3 cr; prereq 270A)
3:45-5:45 T, SocSci(W) 860, Warp

226C Social Gerentology (3 cr; prereq 226B)
3:45-5:45 T, BA(W) 837, Anderson

244 Agricultural Admin (3 cr; prereq 270A, ♯)
VIII-IX W, CB(W) 415, Blackmore

247 Urban Development (3 cr; prereq 280A or ♯)
I-II S, CB(W) 415

270B Public Admin Seminar: Finance (3 cr; prereq △)
VIII-IX M, CB(W) 415, Jernberg

270C Public Admin Seminar: Personnel (3 cr; prereq △)
—1, 3:45-5:45 Th, CB(W) 415, Rosenthal
—2, III-IV FS, SocSci(W) 860, Rosenthal
—3, III-IV F, SocSci(W) 1450
—4, 3:45-5:45 Th, BA(W) 837, Steen

273 Topics: Development Admin (3 cr; prereq ♯)
VIII-IX F, SocSci(W) 1383

281 Law, Urban Affairs (3 cr)
VIII-IX M, CB(W) 425, Peterson

282C Admin Internship (ar cr; prereq △)
—1, 1:10-2:00 T, BA(W) 933, Likins
—2, 2:10-3:00 Th, BA(W) 933, Likins

283C Research Seminar: Public Admin (3 cr; prereq ♯) Warp

284C Individual Reading, Research in Public Admin (3 cr; prereq 284B) Warp, others

ROMANCE LANGUAGES

French (Fren)

2 **Bgn French** (5 cr; prereq 1 or 1 yr HS Fren)
—1, I MTWThF, ME 302
—2, I MTWThF, Arch 10
—3, II MTWThF, Pt 215
—4, III MTWThF, Pt 214
—5, III MTWThF, Pt 102
—6, IV MTWThF, ME 221
—7, V MTWThF, ME 221
—8, V MTWThF, ME 110
—9, VI MTWThF, FolH 107
—10, VI MTWThF, ME 208
—11, VII MTWThF, ME 102

3 **Bgn French** (5 cr; prereq 2 or 2 yrs HS Fren)
—1, I MWF, NH 107
III TTh, AE 313, CCTV

—2, I MWF, NH 201
VII TTh, AE 313, **CCTV**
—3, II MWF, NH 209
III TTh, AE 317, **CCTV**
—4, II MWF, FolH 104
VII TTh, AE 317, **CCTV**
—5, III MWF, NH 209
III TTh, Bu 123, **CCTV**
—6, III MWF, C 115
VII TTh, AE 319, **CCTV**
—7, IV MWF, FolH 104
III TTh, AE 321, **CCTV**
—8, V MWF, Pt 102
VII TTh, AE 321, **CCTV**
—9, V MWF, FolH 104
III TTh, AE 327, **CCTV**
—10, VI MWF, P 110
VII TTh, AE 327, **CCTV**
—11, VII MWF, FolH 104
III TTh, Arch 30, **CCTV**
—12, VIII MWF, FolH 104
VII TTh, Arch 30, **CCTV**

3H Honors Course: Bgn French (5 cr; prereq 1 or ♯)
V MTWThF, Arch 145

25 Interm French (5 cr, §old 4; **prereq 3 or** 3 yrs HS Fren)
—1, I MTWThF, FolH 104
—2, II MTWThF, AE 309
—3, IV MTWThF, Pt 102
—4, VI MTWThF, Arch 140

25H Honors Course: Interm French (5 cr; prereq 3H or ♯)
V MTWThF, FolH 305½

30 Intro to Literary Texts (3 cr; **prereq 25** or 4 yrs HS Fren or ♯)
—1, IV MWF, FolH 108
—2, IV MWF, FolH 103
—3, VI MWF, FolH 104
—4, VI MWF, FolH 103

52 Reading French: Bgn Course for Juniors, Seniors (3 cr, §3; prereq 51)
V MWF, FolH 308

55 Conversation, Pronunciation (3 cr; prereq 25)
—1, II MTThF, FolH 110
—2, III MTThF, FolH 103
—3, IV MTThF, CD 218
—4, V MTThF, FolH 108
—5, VI MTThF, FolH 108
—6, VI MTThF, FolH 208

57 Adv Composition (3 cr; prereq 54 or ♯)
—1, I MWF, FolH 103
—2, III MWF, FolH 104

58 Adv Conversation (3 cr; prereq 55 or ♯)
—1, I MWF, FolH 203
—2, II MWF, FolH 108
—3, IV MWF, FolH 203
—4, V MWF, FolH 103

59 Diction: French Play (1 or 2 cr; **prereq** ♯) Sinval

62 Civilization, Culture (4 cr; prereq 25)
II MTWThF, FolH 308, Waldauer

67 Survey of Literature: Romanticism to Surrealism (3 cr; prereq 30, maj ¶87)
III MWF, FolH 202, Lock

67H Honors Course: Survey of Literature —Romanticism to Surrealism (**3 cr;** prereq 25H or 30 with A grade **or 66H,** ♯, maj ¶87)
IV MWF, FolH 305½, Robinson

87 19th, 20th Century Literature (2 cr; prereq 30 or ♯, ¶67)
—1, III TTh, FolH 203, Lock
—2, VI TTh, FolH 103, Robinson
—3, VI TTh, FolH 203, Hughes

105 Stylistics (3 cr; prereq 57 or ♯)
V MWF, FolH 203, Todd

109 Structure of Modern French (**3 cr; prereq** 108 or ♯)
III MWF, FolH 203, Mantini

114 Intro to Romance Philology (3 cr; prereq 30 or Ital 25 or Port 25 or Span 30 or ♯)
V MWF, ForH 155, Mantini, others

126 Classical Tragedy: Racine (3 cr)
IX MWF, FolH 203, Francis

128 Poetry from d'Aubigne to La Fontaine (3 cr)
VIII MWF, FolH 203, Francis

142 Voltaire (3 cr)
VI MWF, FolH 203, Waldauer

158 Proust, Novel of the 20th Century (3 cr)
VII MWF, FolH 203, Lock

192 Directed Readings for Undergrads (1-3 cr; prereq cons dept chairman)

203 French Literature in the Middle Ages (3 cr; prereq 202)
VIII MWF, FolH 102, Mouzat

209 Old Provencal (2 cr; prereq 208)
VIII-IX T, FolH 207, Mouzat

252 Seminar (ar cr; prereq 251)
VIII TTh, FolH 203, Francis

261 Directed Readings in Romance Languages (ar cr)

Italian (Ital)

2 Bgn Italian (5 cr; prereq 1)
—1, IV MTWThF, FolH 204, Seim
—2, VI MTWThF, FolH 204, deGregory

3 Bgn Italian (5 cr; prereq 2)
—1, III MTWThF, FolH 204, Seim
—2, V MTWThF, FolH 204, deGregory
—3, V MTWThF, A 202, Erasmi
—4, VI MTWThF, A 202, Erasmi

67 Survey of Italian Literature: Tasso Thro Pirandello (3 cr, §186; prereq 3, for bgn up div students 2 or 50 with ♯) Pipa
I MWF, FolH 303½

172 Modern Drama (3 cr; prereq 1 course above 50)
II MWF, FolH 303½, Pipa

174 Petrarch (3 cr; prereq 1 course above 50)
IV MWF, FolH 303½, Pipa

192 Directed Readings for Undergraduates 1-3 cr; prereq cons dept chairman) Pipa

261 Directed Readings in Romance Languages (ar cr) Pipa

Portuguese (Port)

3 Bgn Portuguese (5 cr; prereq 2)
—1, II MTWThF, FolH 204, Bretoi
—2, II MTWThF, CD 105, Hamilton

55 Conversation, Composition (3 cr; prereq 25)
IV MWF, A 12, Hamilton

67 Intro to Literature of Portugal, Brazil (3 cr; prereq 30 or ♯)
VI MWF, ForH 285, Hamilton

114 Intro to Romance Philology (3 cr; prereq 25 or Fren 30 or Ital 25 or Span 30 or ♯)
V MWF, ForH 155

192 Directed Readings for Undergrads (1-3 cr; prereq cons dept chairman) Hamilton

261 Directed Readings in Romance Languages (ar cr) Hamilton

Spanish (Span)

2 Bgn Spanish (5 cr, §2A; prereq 1 or 1 yr HS Span)
—1, I MTWThF, FolH 204
—2, II MTWThF, FolH 202
—3, III MTWThF, CD 218
—4, IV MTWThF, FolH 202
—5, IV MTWThF, FolH 107
—6, V MTWThF, FolH 202
—7, VI MTWThF, FolH 308
—8, VII MTWThF, FolH 202
—9, VII MTWThF, C 111
—10, VIII MTWThF, FolH 202

3 Bgn Spanish (5 cr, §3A; prereq 2 or 2 yrs HS Span)
—1, I MWF, FolH 201
IV TTh, AE 313, CCTV
—2, II MWF, FolH 201
IV TTh, AE 317, CCTV
—3, II MWF, ForH 40
VIII TTh, AE 317, CCTV
—4, III MWF, FolH 201
IV TTh, AE 319, CCTV
—5, III MWF, AE 313
VIII TTh, AE 319, CCTV
—6, IV MWF, FolH 201
IV TTh, AE 321, CCTV
—7, IV MWF, AE 225
VIII TTh, AE 321, CCTV
—8, V MWF, AE 327
IV TTh, AE 327, CCTV
—9, V MWF, AE 319
IV TTh, Arch 30, CCTV
—10, VI MWF, FolH 201
VIII TTh, Arch 30, CCTV
—11, VI MWF, FolH 105
IV TTh, Arch 45, CCTV
—12, VII MWF, FolH 201
VIII TTh, Arch 45, CCTV
—13, VII MWF, FolH 105
VIII TTh, Arch 60, CCTV

3A Bgn Spanish: Conversational (5 cr, §3; prereq 2A)
Dem II MTWThF, FolH 105, Cuneo
—1, Rec I MTWThF, FolH 202
—2, Rec I MTWThF, FolH 105

3H Honors Course: Bgn, Interm Spanish (5 cr; prereq 2H, ♯)
V MTWThF, Ph 236A

25 Interm Spanish (5 cr; prereq 3 or 3A or 3 yrs HS Span)
—1, III MTWThF, FolH 105
—2, IV MTWThF, FolH 105
—3, V MTWThF, FolH 105

25H Honors Course: Bgn, Interm (5 cr)
V MTWThF, FolH 201

30 Intro to Spanish, Spanish-American Literary Texts (3 cr; prereq 25 or 4 yrs HS Span or ♯)
—1, IV MWF, P 110
—2, VI MWF, AE 313
—3, VI MWF, AE 317

54 Composition (3 cr; prereq 25)
IV MWF, FolH 109, Franklin

55 Conversation (3 cr; prereq 25)
—1, V MWThF, Pt 111
—2, V MWThF, Pt 214
—3, VI MWThF, Bu 123
—4, VI MWThF, FolH 202

57 Adv Composition (3 cr; prereq 54)
III MWF, AE 317, Narvaez

59 Spanish Play (3 cr; prereq 3 or ♯) Serrano-Plaja

62 **Civilization, Culture** (3 cr; prereq 30)
III MWF, FolH 109, Pattison

64 **Latin-American Civilization, Culture** (4 cr; prereq 60 or ♯)
III TWThF, AE 319, Cuneo

67 Survey of Spanish Literature: Neoclassicism to Early 20th Century (3 cr; prereq 30, maj ¶87A)
VI MWF, AE 319, Sullivan

67H Honors Course: Survey of Spanish Literature—Neoclassicism to Early 20th Century (3 cr; prereq 25H or 30 with grade A or 66H, ♯, maj ¶87A)
IV MWF, Ph 143, Serrano-Plaja

76 Literature of Spanish America (3 cr; prereq 30, maj ¶87B)
IV MWF, Bu 125, Floripe

79 Century of Latin-American Thought: 1850-1957 (3 cr; prereq jr or ♯, 6 qtrs)
IV TTh, FolH 203, Cuneo

87A **Modern Spanish Literature** (2 cr; prereq 30 or ♯, ¶67)
—1, IV TTh, FolH 104
—2, VI TTh, FolH 104

87B **Contemporary Latin-American Literature** (2 cr; prereq 30 or ♯, ¶76)
—1, IV TTh, FolH 103
—2, V TTh, FolH 103

105 Spanish Stylistics (3 cr; prereq 57)
VI MWF, AE 321, Narvaez

109 Structure of Modern Spanish (3 cr; prereq 108)
IV MWF, Pt 111, Narvaez

112 19th Century Literature (3 cr; prereq 111)
VII MWF, FolH 204, Pattison

114 Intro to Romance Philology (3 cr; prereq 30 or Fren 30 or Ital 25 or Port 25 or ♯)
V MWF, ForH 155, Mantini, others

131 Picaresque Novel (3 cr; prereq 65, 66, 67)
V MWF, FolH 307, Rundorff

145 Colonial, 19th Century Latin-American Literature (3 cr; prereq 65, 66, 67 or 76)
VI MWF, AE 327, Floripe

157 16th Century Literature: Poetry (3 cr; prereq 65, 66, 67)
VIII MWF, FolH 105, Serrano-Plaja

163 Hispano-Arabic Culture: Hispano-Arabic Literature (3 cr; prereq ♯)
II MWF, VH 125, Chejne

183 Contemporary Spanish Novel Since 1945 (3 cr; prereq 1 up div lit course or ♯)
III MWF, E 106, Sullivan

192 Directed Readings (1-3 cr; prereq △)

203 Spanish Literature in the Middle Ages (3 cr; prereq 202)
VII T, VII-VIII Th, FolH 104

252 Seminar (2 cr; prereq 251)
IX TTh, FolH 103, Serrano-Plaja

255 Seminar: Spanish-American Literature (2 cr; prereq 254)
IX MW, FolH 108, Floripe

261 Directed Readings in Romance Languages (ar cr)

SCANDINAVIAN

Danish (Dan)

3 Bgn Danish (5 cr; prereq 2)
V MTWThF, AE 215, Bomash

51 Reading Prose (3 cr; prereq 4)
VI MWF, FolH 303½, Bomash

Finnish (Fin)

3 Bgn Finnish (5 cr; prereq 2)
VIII MTWThF, FolH 205, Saresvuo

Norwegian (Nor)

3 **Interm Norwegian** (5 cr; prereq 2)
—1, I MTWThF, A 201, Jensen
—2, II MTWThF, FolH 205, Wilson
—3, V MTWThF, A 105, Skelton

52 Reading Poetry (3 cr; prereq 4)
III MWF, FolH 205, Wilson

Scandinavian (Scan)

123 Old Norse: Language, Literature (3 cr; prereq 122)
VII-VIII T, FolH 305½, Hasselmo

126 Seminar: Scandinavian Linguistics (3 cr; prereq 124, 125)
VII-VIII Th, FolH 305½, Hasselmo

162 Contemporary Trends: Scandinavian Novel (3 cr; prereq 8 cr lit, rdg knowledge Scand lang req maj)
II MWF, TNCD 113, Simpson

173 Contemporary Drama, Theater (3 cr; prereq 8 cr lit, rdg knowledge Scand lang req maj)
IV MWF, FolH 205

193 Readings (3 cr; prereq 192)
211 Research: Scandinavian Linguistics (2-3 cr; prereq 210) Hasselmo
214 Research: Scandinavian Literature (2-3 cr; prereq 213)
226 Interpretative Probs in Ibsen (3 cr; prereq 225)
VIII-IX W, FolH 303½, Simpson

Swedish (Swed)

3 **Bgn Swedish** (5 cr; prereq 2)
—1, I MTWThF, FolH 205, Ronnmark
—2, VI MTWThF, FolH 205, Lundquist
—3, V MTWThF, FolH 205, Saether
52 Reading Poetry (3 cr; prereq 4)
III MWF, AE 215, Saether

SLAVIC AND EAST EUROPEAN LANGUAGES

Polish (Plsh)

3 Bgn Polish (5 cr; prereq 2)
II MTWThF, TSF 103, Zamojska
6 Interm Polish (3 cr; prereq 5)
III MWF, TSF 103, Zamojska

Russian (Russ)

3 **Bgn Russian** (5 cr; prereq 2)
—1, I MTWThF, FolH 107
—2, II MTWThF, FolH 107
—3, V MTWThF, FolH 107
—4, VII MTWThF, FolH 107

3H **Honors Course: Bgn Russian** (5 cr; prereq 2H)
III MTWThF, FolH 305½, Sjoberg

6 **Interm Russian** (3 cr; prereq 5)
—1, II MWF, FolH 103
—2, VII MWF, AE 313

58 Conversation (3 cr; prereq 57)
V MWF, AE 211, Prokopov

63 Composition (2 cr; prereq 62)
I TTh, FolH 201, Alexeev

73 Readings in Literature (3 cr; prereq 72)
VIII MWF, FolH 107, Prokopov

77 Civilization, Culture (3 cr; prereq 76)
III MWF, FolH 107, Donchenko

105 Syntax, Composition (2 cr; prereq 104)
III TTh, FolH 303½, Alexeev

109 Structure of Modern Russian (3 cr; prereq 108)
V MWF, ForH 285, Donchenko

112 Literature in Translation (3 cr; prereq 111)
VI MWF, AE 211, Prokopov

115 Soviet Russian Literature (3 cr; prereq 114)
VII MWF, FolH 108, Alexeev

143 Dostoevsky (3 cr; prereq 142)
IV MWF, Arch 30, Hudgins

153 Directed Readings (1-3 cr; prereq 73 or ♯) Alexeev

Serbo-Croatian (Serb)

3 Bgn Serbo-Croatian (5 cr; prereq 2)
V MTWThF, TSF 103, Sjoberg

SOCIAL SCIENCE (SSci)

1 **Personality** (3 cr, ♯ for upper div students)
—1, I MWF, CB(W) 130, Utlaut
—2, II MWF, CB(W) 215, Roshwald
—3, III MWF, CB(W) 215, Utlaut
—4, IV MWF, CB(W) 155, Utlaut
—5, V MWF, CB(W) 130, Salovesh
—6, VI MWF, CB(W) 155, Sorem
—7, 12:45-2:00 TTh, CB(W) 130, Dolan
—8, VII MWF, CB(W) 215, Sorem

2 **Work** (3 cr; prereq 1, ♯ for upper div students)
—1, III MWF, CB(W) 415, Dahl
—2, IV MWF, CB(W) 215, Riggi
—3, VI MWF, CB(W) 215, Riggi

3 **Community** (3 cr; prereq 1 or 2, ♯ for upper div students)
—1, II MWF, CB(W) 240, Horsnell
—2, II MWF, CB(W) 110, Sykes
—3, IV MWF, CB(W) 230, Chan
—4, V MWF, CB(W) 150, Appleby
—5, VI MWF, CB(W) 135, Sykes
—6, 2:15-3:30 TTh, CB(W) 130, Dolan

53 **Community** (4 cr, §3)
Lect III MWF, CB(W) 240, Roshwald
—1, V T, CB(W) 140
—2, V Th, CB(W) 140

62 **Structure, Dynamics of Poverty** (3 cr; prereq 9 cr related soc sci)
V MWF, CB(W) 155, Dahl

73 **Selected Topics in the Classics of Social Sciences** (3 cr; prereq 15 up div cr soc sci, C+ avg)
3:15-5:45 Th, BA(W) 632, Murphy

SOCIAL WORK (SW)

203 Special Topics (ar cr) Oren
207 Readings (ar cr; prereq ♯) Oren

212 Field Instruction (ar cr; prereq 211)
Cohn, Compton, others

217 Field Instruction (ar cr; prereq 216)
Compton, Konopka, others

228 Social Policy, Programs IV (3 cr; prereq 227)
Lect VI Th, CB(W) 215, Newhouse
—1, III-IV Th, SocSci(W) 860, Newhouse
—2, III-IV Th, BA(W) 632, Rapoport
—3, III-IV T, SocSci(W) 860, Rapoport

242 Seminar: Social Work Education (ar cr; prereq MSW degree)
VIII-IX W, SocSci(W) 860, Kidneigh

250 Concepts of Human Behavior III (2 cr; prereq ♯)
VIII-IX Th, CB(W) 235, Weiner

253 Concepts of Human Growth, Behavior VI (2 cr; prereq 250, ¶217)
—1, VI-VII T, CB(W) 115, Saloshin
—2, VI-VII T, CB(W) 215, Goodman
—3, VI-VII T, SocSci(W) 860, Teeter

260 Administration (2 cr)
I-II T, CB(W) 250, Kidneigh

265 Social Casework I (2 or 3 cr; prereq ¶210)
III-IV Th, BA(W) 933, Compton

267 Social Casework III (2 cr; prereq 265, ¶211-212)
—1, VII-VIII W, CB(W) 130, Whitmore
—2, VII-VIII F, CB(W) 450, Whitmore

270 Social Casework VI (2 cr; prereq 267, ¶215-216)
—1, I-II T, SocSci(W) 860, Scott
—2, I-II T, BA(W) 632, Gannon

275 Social Group Work I (2 or 3 cr)
—1, III-IV Th, CB(W) 215, Konopka (for maj only)
—2, 12:45-2:00 TTh, ForH 115, Cohn (for non-maj only)

277 Social Group Work III (3 cr; prereq 276, ¶212)
III-IV T, VIII Th, CB(W) 215, Cohn

280 Social Group Work VI (2 cr; prereq 278)
I-II T, CB(W) 215, Konopka

286 Special Studies (ar cr; prereq 285)
I-II Th, CB(W) 215, Hess

287 Special Studies (ar cr; prereq 286)
II-IV S, CB(W) 145, Hess, others

291 Seminar: Recent Research (ar cr; prereq 290)
VI-VII M, SocSci(W) 860, Scott

300 Seminar: Social Work (ar cr; prereq 299)
VIII-IX M, SocSci(W) 860, Scott

SOCIOLOGY (Soc)

1 **Man in Modern Society** (3 cr)
—1, I MWF, C 100, Franz
—2, III MWF, C 100, Fulton
—3, IV MWF, C 100, Hawkinson
—4, VII MWF, C 100, Menall

1A **Man in Modern Society** (3 cr; prereq regis AFHE)
IV MWF, GorC 10 (**StP Campus**) Nelson

2 **American Community** (3 cr; prereq 1 or 1A or 1H or ♯)
I MWF, Bo B6, Martindale

3 **Social Probs** (3 cr)
—1, I MWF, ScH 108, Menanteau
—2, II MWF, C 100, Knudson
—3, VI MWF, Owre 15
—4, VII MWF, MNH Aud, Hawkinson

3H **Honors Course: Social Probs** (3 cr; prereq ♯)
V MWF, BA(W) 933, Zwerman

14 **Rural Sociology** (3 cr)
III MWF, NH 211, Menanteau

45 **Social Statistics** (5 cr, §QA 5, Psy 70)
—1, Lect II MWF, CB(W) 150, **CCTV**
—2, Lect VII MWF, CB(W) 150, **CCTV**
—1, Lab I-II TTh, CB(W) 210, Franz, others
—2, Lab III-IV TTh, CB(W) 210, Franz, others
—3, Lab V-VI TTh, CB(W) 210, Franz, others
—4, Lab VII-VIII TTh, CB(W) 210, Franz, others
—5, Lab I-II MW, CB(W) 210, Franz, others
—6, Lab III-IV MW, CB(W) 210, Franz, others
—7, Lab V-VI MW, CB(W) 210, Franz, others
—8, Lab VII-VIII MW, CB(W) 210, Franz, others
—9, Lab IX-X MW, CB(W) 210, Franz, others

53 **Criminology** (3 cr; prereq 1 or 1A or 1H or ♯)
—1, II MWF, CB(W) 5, Ward
—2, VII MWF, CB(W) 235, Knudson

90 **American Social Welfare** (5 cr; prereq 3)
—1, VI MTWThF, CB(W) 120, Wiebler
—2, VII MTWThF, CB(W) 120, Wiebler

91 **Social Work Process** (3 cr; prereq 90 or cons maj adv)
—1, 9:45-11:00 TTh, CB(W) 145, Milstone
—2, 12:45-2:00 TTh, CB(W) 425, Walz

99 Tutorial, Honors Work in Selected Fields (3 cr; prereq 98)

100 Contemporary Penology (3 cr; prereq 1, 53 or ‡)
VI MWF, CB(W) 250, Ward

102 Adult Parole, Probation (3 cr; prereq 1, 53 or ‡)
2:15-3:30 TTh, CB(W) 150, Finestone

103 Law, Legal System for Correctional, Social Workers (3 cr; prereq regis in sequence C or B or ‡)
I MWF, CB(W) 220, Pirsig

112 World Population Probs (3 cr; prereq 1 or ‡)
III MWF, CB(W) 5, Gerson

120 Social Psychology (3 cr; prereq 1 or ‡)
VII MWF, CB(W) 5, Stone

123 Minority Group Relations (3 cr; prereq 1 or ‡)
11:15-12:30 TTh, CB(W) 5, Finestone

126 Family Development (4 cr; prereq 1, CPsy 80 or ‡)
II-III TTh, CB(W) 150, Aldous

140 Social Organization (3 cr; prereq 1 or ‡)
III MWF, CB(W) 410, Zwerman

141 The Family (3 cr; prereq 1 or ‡)
I MWF, CB(W) 10, Johnson

142 Religion as a Social Institution (3 cr; prereq 1 or ‡)
IV MWF, CB(W) 410, McNall

144 Social Stratification, Mobility (3 cr; prereq 1 or ‡)
VI MWF, CB(W) 410, Fulton

150 Sociology of Popular Culture (3 cr; prereq 15 cr in soc)
VIII MWF, CB(W) 430, Gerson

155 Social Structure, Political Behavior (3 cr; prereq 1)
VII MWF, CB(W) 105, Tallman

161 Rural Community Analysis (3 cr; prereq sr, 1 or ‡)
VI MWF, CB(W) 430, Donohue

162 Rural Social Institutions (3 cr; prereq 1 or ‡)
VI MWF, CB(W) 140, Menanteau

172 Backgrounds of Modern Social Thought (3 cr; prereq 1 or ‡)
IV MWF, CB(W) 5, Martindale

180 Methods of Social Research (3 cr; prereq 45)
VI MWF, CB(W) 130, Nelson

188 Area Sampling, Analysis (3 cr, §Geog 188; prereq Geog 87, Soc 45, ‡)
11:15-12:30 TTh, CB(W) 430

228 Seminar: Contemporary Research on Marriage, Family (3 cr; prereq 227)
VI-VII Th, SocSci(W) 860, Hill

234 Seminar: Methods for Evaluation of Social Action Program (3 cr)
VIII-IX W, CB(W) 105, Finestone

245 Seminar: Research in Urban Sociology (3 cr)
VI-VII T, SocSci(W) 1450, Stone

248 Seminar: Research in Large Scale Organization (3 cr; prereq 247)
VIII-IX W, SocSci(W) 1450, Gross

272 Seminar: Social Theory (3 cr)
VI-VII M, SocSci(W) 1450, Martindale

282 Seminar: Recent Developments in Sociological Research Techniques (3 cr)
VIII-IX Th, SocSci(W) 860, Straus

286 Seminar: Statistical Theory in Relation to Social Theory, Practice (3 cr)
1:15-3:15 Th, SocSci(W) 628, Monachesi

289 Social Psychology of Marriage (3 cr, §Psy 281-282-283; prereq 288)

292 Seminar: Sociology of Religion (3 cr; prereq 142 or ‡)
VIII-IX T, CB(W) 115, Johnson

299 Seminar (ar cr)

SPEECH, COMMUNICATION, AND THEATRE ARTS

Speech (Spch)

4 Communication in Modern World: The Performing Arts (3 cr)
II MWF, Arch 55, Ballet

5 Fundamentals (5 cr)
—1, 7:15-8:00 **am** MTWThF, FolH 305, Shapiro, others
—2, 7:15-8:00 **am** MTWThF, FolH 307, Shapiro, others
—3, 7:15-8:00 **am** MTWThF, FolH 406, Shapiro, others
—4, I MTWThF, FolH 305, Shapiro, others
—5, I MTWThF, A 105, Shapiro, others
—6, I MTWThF, A 202, Shapiro, others
—7, I MTWThF, A 205, Shapiro, others
—8, I MTWThF, FolH 108, Shapiro, others
—9, I MTWThF, FolH 308, Shapiro, others
—10, II MTWThF, C 111, Shapiro, others
—11, II MTWThF, AE 21, Shapiro, others
—12, III MTWThF, JohH 106, Shapiro, others
—13, III MTWThF, TNCD 113, Shapiro, others
—14, III MTWThF, A 12, Shapiro, others
—15, IV MTWThF, FolH 306, Shapiro, others

—16, IV MTWThF, FolH 406, Shapiro, others
—17, IV MTWThF, A 105, Shapiro, others
—18, V MTWThF, FolH 406, Shapiro, others
—19, V MTWThF, Bu 105, Shapiro, others
—20, V MTWThF, FolH 306, Shapiro, others
—21, VI MTWThF, A 201, Shapiro, others
—22, VI MTWThF, A 205, Shapiro, others
—23, VII MTWThF, A 201, Shapiro, others
—24, VII MTWThF, A 202, Shapiro, others

5H Honors Course: Fundamentals (5 cr; prereq 3rd qtr fr with B avg)
III MTWThF, FolH 108, Shapiro

6 Fundamentals (3 cr; prereq 5, soph, fr with △)
VI MWF, AE 215, Watson

50 Public Speaking (3 cr, §5; prereq upper div)
—1, I MWF, FolH 306, Ekroth
—2, I MWF, CB(W) 105, Horswill

51 Adv Public Speaking (3 cr; prereq 5)
—1, II MWF, MurH 420, Black
—2, IV MWF, FolH 307, Scott
—3, VI MWF, MinMet 104, D H Smith

55 Speech Writing, Platform Speaking (3 cr; prereq 51 or ♯)
II MWF, FolH 306, Fisher, Piche

61 Intro to Thought, Language in Human Behavior (3 cr, §2; prereq 5, Psy 2)
VI MWF, FolH 307, Piche

65 Radio, Television Speech (3 cr; prereq 5)
—1, 12:15-2:00 TTh, MurH 302, AE 309, Bart
—2, 2:15-4:00 TTh, MurH 302, AE 309, Brown

66 Lab Section: Radio, Television Speech (1 cr; prereq 65 or ¶) Bart, North

67 Phonetics (3 cr; prereq 5)
III MWF, FolH 307, Wendahl

69 Radio, Television Production (3 cr; prereq 65)
1:15-3:00 MW, AE 309, Bart

70 Television Production: Drama (3 cr; prereq 69)
III MWF, AE 309, McCoy

81 Interpretative Reading (3 cr; prereq 5)
—1, II MWF, FolH 305, Congdon
—2, III MWF, FolH 305, Hancock
—3, VI MWF, FolH 305, Lippke

82 Interpretative Reading (3 cr; prereq 81)
V MWF, FolH 305, Hancock

83 Interpretative Reading (3 cr; prereq 81)
IV MWF, FolH 305, Lippke

96H Honors Course: Tutorial Seminar (3 cr; prereq honors cand, △) Bart, others

103 Argumentation, Persuasion (3 cr; prereq 5, Psy 2, 10 cr soc sci)
—1, III MWF, FolH 306, Brock
—2, 12:45-2:00 TTh, FolH 305, Brock

106 Discussion (3 cr; prereq 5)
—1, VII MWF, FolH 305, D H Smith
—2, I MWF, FolH 307, D H Smith

107 Platform Reading (3 cr; prereq 83)
2:15-3:30 TTh, FolH 306, Thompson

126 History, Criticism of American Public Address (3 cr; prereq 5) Black
VII MWF, FolH 305½

169 Speech, Language in Human Behavior (3 cr)
VI MWF, FolH 406, Shapiro

170 Radio, Television Programming (3 cr; prereq 65 or Th 63 or ♯)
III MWF, FolH 406, Bart

171 Adv Television Production I (3 cr; prereq 69)
IV MWF, AE 309, Bart

174 Educational Television Programming, Admin (3 cr; prereq 173 or ♯)
II MWF, FolH 203, Goldstein

176 International Broadcasting (3 cr; prereq ♯)
11:15-12:30, Pt 110, Browne

181 Readings (ar cr; prereq 9 cr spch, ♯)
182 Readings (ar cr; prereq 9 cr spch, ♯)
183 Readings (ar cr; prereq 9 cr spch, ♯)

201 Gen Seminar (1 cr; prereq ♯)
VIII W, FolH 406, Shapiro, D H Smith

204 Seminar: Argumentation (3 cr; prereq 203) Brock

223 Seminar: Oral Interpretation of Literature (3 cr; prereq 83, 105)
3:40-5:40 T, FolH 307, Thompson

251 Seminar: Listening Comprehension (2 cr; prereq undergrad maj spch, ♯)
VIII-IX TTh, AgEng 307 **(StP Campus)** Nichols

291 Research (ar cr)
292 Research (ar cr)
293 Research (ar cr)

Speech Science, Pathology and Audiology (SSPA)

99 Intro to Speech Pathology, Audiology (3 cr)
II MWF, FolH 406, Siegel

101 Readings (ar cr; prereq ♯)
102 Readings (ar cr; prereq ♯)
103 Readings (ar cr; prereq ♯)
122 Voice Science (3 cr; prereq 119, 120, 121)
II MWF, FolH 307, Wendahl
123 Lab Instrumentation (3 cr) Wendahl
140 **Diagnosis, Evaluation of Speech Disorders** (4 cr; prereq 99, 121 or ¶, ♯)
VIII T, V-VIII Th, FolH 303½, Martin, Stolts
142 Voice Disorders (3 cr; prereq 99, 120 or ♯)
VII MWF, FolH 406, Starr
145 Aphasia (2 cr; prereq 99, 120 or ♯)
IX-X Th, FolH 108, Greenberg
164 Clinical Methods, Practice in Speech Pathology (3 cr, §EdCI 174; prereq 141, 142) McDermott, Starr, others
165 Clinical Methods, Practice in Speech Pathology (3 cr, §EdCI 175; prereq 141, 142) McDermott, Starr, others
166A Clinical Methods, Practice in Speech Pathology: Cleft Palate (1-3 cr; prereq 141, 142 or ♯) Starr
166B Clinical Methods, Practice in Speech Pathology: Voice (1-3 cr; prereq 141, 142 or ♯) Starr
166C Clinical Methods, Practice in Speech Pathology: Articulation (1-3 cr; prereq 141, 142 or ♯) McDermott
166D Clinical Methods, Practice in Speech Pathology: Stuttering (1-3 cr; prereq 141, 142 or ♯) Martin
166E Clinical Methods, Practice in Speech Pathology: Neuromuscular Disorders (1-3 cr; prereq 141, 142 or ♯) Greenberg
166F Clinical Methods, Practice in Speech Pathology: Aphasia (1-3 cr; prereq 141, 142 or ♯) Greenberg
166G Clinical Methods, Practice in Speech Pathology: Laryngectomy (1-3 cr; prereq 141, 142 or ♯) Henrikson
166H Clinical Methods, Practice in Speech Pathology: Hearing Impaired (1-3 cr; prereq 141, 142 or ♯)
170 Hearing Disorders (3 cr; prereq 99, 119 or ♯)
VI MWF, Mayo A675, Chaiklin
171 **Audiometry I** (4 cr; prereq 99, 119)
III-IV TTh, Mayo A355, Chaiklin, Hoel
172 Communication Probs of Hearing Impaired (3 cr; prereq 170 or ♯)
I MWF, FolH 406, Lassman, others
180 Auditory Training (3 cr; prereq 119, 171 or ♯)
VII MWF, FolH 307, Stassen
190 Clinical Methods, Practice in Audiology (3 cr; prereq 173 or 174 or ♯) Chaiklin
191 Clinical Methods, Practice in Audiology (3 cr; prereq 173 or 174 or ♯) Chaiklin
192 Clinical Methods, Practice in Audiology (3 cr; prereq 173 or 174 or ♯) Chaiklin
201 Seminar: Adv Probs (3 cr; prereq ♯)
204 Research (ar cr; prereq ♯)
205 Research (ar cr; prereq ♯)
206 Research (ar cr; prereq ♯)
224 Seminar: Experimental Phonetics (3 cr; prereq 122) Wendahl
225 Seminar: Experimental Phonetics (3 cr; prereq 122) Wendahl
226 Seminar: Experimental Phonetics (3 cr; prereq 122) Wendahl
243 Seminar: Articulation (3 cr; prereq 143 or ♯) McDermott, Templin
244 Seminar: Neuromuscular Disorders (3 cr; prereq 144 or ♯) Greenberg, others
247 Seminar: The Laryngectomized (3 cr; prereq 147 or ♯) Henrikson
249 Seminar: Current Issues in Speech Pathology (3 cr; prereq grad maj or ♯) Henrikson
282 Seminar: Hearing (3 cr; prereq ♯) Lassman
290 Adv Clinical Methods, Practice in Audiology (3 cr; prereq 190, 191, 192, ♯) Lassman
291 Adv Clinical Methods, Practice in Audiology (3 cr; prereq 190, 191, 192, ♯) Lassman
292 Adv Clinical Methods, Practice in Audiology (3 cr; prereq 190, 191, 192, ♯) Lassman

Theatre (Th)

11 **Theatre Arts** (3 cr)
III MWF, ScH 108, Ballet
12 **Theatre Arts Lab** (1 cr; prereq 11 or ¶)
Adey (meets in ScH 108, 10:40 **am** on March 27 only)
13H **Honors Course: Intro to Theatre** (1 cr; prereq 11, ♯)
VII W, ScH 19, Ballet, Malcolm
21 **Bgn Acting: Creative Approach** (3 cr; prereq fr with △, soph 12 or ¶)
—1, I-II MF, ScH 19, Chappell
—2, III-IV TTh, WeH 302, Walsh
—3, III-IV TTh, ScH 19, Howard
—4, VI-VII TTh, WeH 302, Lampe
—5, I-II TTh, NH 304, Grivna
22 **Bgn Acting: Creating a Role** (3 cr; prereq 21)
—1, III MWF, NH 304, Herstand
—2, IV MWF, NH 304, Herstand

23 **Bgn Acting: Technique** (3 cr; prereq 21 or ♯)
—1, IV MWF, WeH 302, Moulton
—2, II MWF, WeH 302, Moulton

24 **Stage Make-up** (1 cr; prereq 12)
—1, VIII-IX W, ScH 23, Sloane
—2, VIII-IX F, ScH 23, Sloane

34 **Stagecraft: Construction, Painting** (3 cr; prereq soph, 12)
—1, II TS, III TTh, WeH 306, Adey
—2, III ThS, IV TS, WeH 306, Adey

53A Our Theatre Today (½ cr; prereq undergrad maj or ♯)
VIII Th, ScH 108, Herstand

53B Our Theatre Today (½ cr; prereq 53A)
VIII TW, ScH 108, Herstand

56 **Stage Fencing, Combat: History, Execution** (1 cr; prereq 12 or ¶, ♯)
—1, VIII-IX T, WeH 302, Dusek
—2, III-IV S, WeH 302, Dusek

61 **Adv Acting** (3 cr; prereq 22 or 23)
IV MWF, ShH 115, Reynolds

62 **Adv Acting: Diction, Dialects** (3 cr; prereq 61)
III MWF, WeH 302, Reynolds

63 **Adv Acting: Radio, Television Drama** (3 cr; prereq 61)
I-II TTh, MurH 302, AE 313, McCoy

76 **Play Production in Secondary School** (3 cr; prereq 75 or 112 or ♯)
V TTh, VI T, ScH 19, Adey

90 **Costuming** (3 cr; prereq 12, 34)
III W, III-IV MF, NH 315, Schulze

91 **Scene Design** (3 cr; prereq 12, 34)
III W, III-IV MF, WeH 306, Josal

92 **Stage Lighting** (3 cr; prereq 12, 34)
V-VI T, ScH 108, V-VI Th, FraH B1, Baruch

96H Honors Course: Tutorial Seminar (3 cr; prereq honors cand, ♯, △)

101 Theatre Practicum (2-6 cr; prereq △, ♯)

102 Theatre Practicum (2-6 cr; prereq △, ♯)

103 Theatre Practicum (2-6 cr; prereq △, ♯)

111 **Stage Direction** (3 cr; prereq sr, 21, 6 cr of 90, 91 or 92, ♯)
III-IV TTh, NH 304, Balk

112 **Stage Direction** (3 cr; prereq 111)
VII MWF, NH 304, Whiting

113 **Stage Direction** (3 cr; prereq 112)
VI Th, ShH 115, Whiting

114 **Theatre Mgt, Promotion** (3 cr; prereq 12 or ♯)
VI MWF, ScH 19, Loppnow

117 **Writing Radio, Television Drama** (3 cr; prereq 21, Spch 5 or ♯)
VI MWF, FolH 306, Browne

123 **Probs: Acting** (3 cr; prereq 122)
VI-VII MWF, WeH 302, Herstand

129 **Production for Lyric Stage** (3 cr; prereq ♯)
VI-VII TTh, WuH 7, Balk

131 **Creative Dramatics** (3 cr; prereq 12 or ¶ or elem ed maj or ♯...21 rec)
VII MWF, ShH 115, Graham

173 **History of Theatre** (3 cr; prereq sr)
II MWF, WeH 306, Nolte

176 **History, Techniques of Stage Movement** (3 cr; prereq 175)
V MTWThF, WeH 302, Moulton

181 Readings (ar cr; prereq 9 cr theatre, ♯)

182 Readings (ar cr; prereq 9 cr theatre, ♯)

183 Readings (ar cr; prereq 9 cr theatre, ♯)

192 Adv Probs: Stage Lighting (3 cr; prereq 111, 112 or ♯)
VII-IX F, WeH 306, Josal

213 Seminar: Stage Direction (3 cr; prereq 111, 112, 113)
VIII-IX T, ShH 115, Moulton

215 Seminar: Playwriting (3 cr; prereq 115, 116 or ♯)
VIII-IX T, FolH 406, Nolte

253 Seminar (1 cr; prereq theatre arts grad)
VIII Th, ShH 115, Nolte

271 Seminar: Dramatic Theory (3 cr; prereq 171, 172, 173, 9 cr dramatic lit)
VIII-IX M, FolH 307, Sonkowsky

281 Research (ar cr; prereq ♯)

282 Research (ar cr; prereq ♯)

283 Research (ar cr; prereq ♯)

290 Seminar: Stage Costuming (3 cr; prereq 90, 190 or ♯)
VIII-IX W, NH 315, Schulze

291 Seminar: Scene Design (3 cr; prereq 91, 191, ♯) Josal

STATISTICS (Stat)

41 **Intro to Ideas of Statistics** (3 cr; prereq Math 10 or ♯)
II MWF, ForH 359, Sobel

90 **Probability, Statistics** (3 cr, §121, 131; prereq differential, integ calc)
V MWF, ForH 359

90E **Intro to Probability, Statistics** (3 cr; prereq 3rd yr EE)
—1, I MWF, ForH 170
—2, V MWF, ForH 170

123 **Theory** (3 cr; prereq 122, Math 44)
I MWF, Ph 210, Lindgren

125 Nonparametric Methods (3 cr; prereq 121 or 90 or PubH 110A or ♯)
VI MWF, ForH 175, Kraft

133 **Theory** (3 cr; prereq 132, ¶Math 107-108)
—1, III MWF, ForH 170, Borwanker
—2, III MWF, ForH 175, Nadkarni
—3, VII MWF, ForH 175, Nadkarni

194 Correlation, Multivariate Analysis (3 cr; prereq 133, Math 131A or ♯)
2:15-3:30 TTh, ForH 261, Borwanker

203 Theory of Statistical Inference (3 cr; prereq 202)
2:15-3:30 TTh, ForH 359, Buehler

223 Adv Statistical Theory (3 cr; prereq 222) Mandrekar

241C Nonparametric Inference (3 cr; prereq ♯) VanEeden

UNATTACHED DEPARTMENTS

College Honors Seminar (CHS)

91H Seminar: Social, Cultural Aspects of Geographic Thought (2-4 cr; prereq consent of Honors Div)
3:00-5:00 W, CB(W) 445, Broek

92H Seminar: Friedrich Nietzche and Modernity (2-4 cr; prereq consent of Honors Div)
3:30-5:30 M, FolH 103, Taraba

93H Seminar: The Role of Science in Modern Society (2-4 cr; prereq consent of Honors Div, ♯)
2:30-5:00 T, VH 125, O'Connor

94H Seminar: A Mirror of Man (2-4 cr; prereq consent of Honors Div)
3:30-5:30 W, FolH 307, Ballet

Linguistics (Ling)

3 Intro to Study of Language (3 cr, †1-2-3; prereq 2)
III MWF, FolH 308, Lehn

153 Readings Course (1-3 cr; prereq maj)

206 Seminar: Methods of Analysis, Theories of Grammar (3 cr, †204-205-206; prereq 205) Lehn

COLLEGE OF MEDICAL SCIENCES

ANATOMY (Anat)

4 Elem Anatomy (5 cr; prereq MedT, 4th yr nurs, OT, PT students, Biol 2A)
Lect I MTWF, Mayo 100
Lab VIII-IX TTh, JacH 392, 396, 397

27 Anatomy for Physical Education Students (4 cr)
Lect V TTh, Mayo 125, Birkebak
Lab VI-VII TTh, JacH 390

52 Regional Study of Human Gross Anatomy (4 cr; prereq 3, regis Mort)
Lect V TTh, Owre 113
Lab VI-VII TTh, JacH 396

58 Extremities (5 cr; prereq regis OT or PT, 4)
Lect V MWF, ChRC 220, Allison
Lab II-III MWF, JacH 388, 390

104 Human Histology (4 cr, †103-104; prereq 103)
II MThF, JacH 74, Carpenter, Dixit, Wood
—1, Lab III-IV MTh, JacH 297, 298
—2, Lab III-IV TF, JacH 297, 298

109 Gross Anatomy (6 cr; prereq 108 or ♯)
Lect VI MWF, MMA 100, Felts, Murrell
Lab VII-IX MWF, JacH 388, 390

111 Human Neuroanatomy (5 cr; prereq 104 or Zool 54, med or grad with ♯)
Lect VI MWF, JacH 74
—1, Lab VII-IX M, VI-VIII Th, JacH 297, 298
—2, Lab VI-VIII T, VII-IX F, JacH 297, 298
Review IX MTThF, JacH 74

142 Skeletal Tissue Biology (2 cr; prereq ♯) Felts

155 Adv Anatomy (ar cr; prereq ♯)

160 Intro to Histological, Morphologic-Histochemical Techniques (2 cr; prereq 104, ♯) Carpenter

167 Seminar: Hematology (1 cr; prereq 166) Sundberg

203 Research (ar cr; prereq ♯)

207 Seminar (1 cr; prereq ♯)

ANESTHESIOLOGY (Anes)

169 Research (ar cr; prereq regis med) Van Bergen, others

181 Externship (ar cr; prereq regis med) Van Bergen, others

182 Externship: Anesthesiology, Respiratory Probs (ar cr; prereq regis med) Van Bergen, others

265 Gen Anesthesia (12 cr)
4:30-6:00 MMA 125, Van Bergen, others

266 Regional Anesthesia (4 cr)
4:30-6:00 M, MMA 125, Van Bergen, others

267 Preanesthetic, Postanesthetic Evaluation (2 cr)
3:30-4:30 MTWThF, MMA 125, Van Bergen, others

268 Seminar (2 cr)
4:30-6:00 W, Mayo A675, Van Bergen, others

269 Research (ar cr) Van Bergen

BIOCHEMISTRY (MdBc)

103 Physiological Chemistry for Veterinary Medicine Students (6 cr; prereq 102)
Lect VI TWThF, VetS 257 (StP Campus) Short
Lab VII-IX TTh, TEH 103 (StP Campus)

144 Gen Biochemistry (3 cr; prereq 142 or 101)
I MWF, MH 213

147 Gen Biochemistry Lab (2 cr; prereq 142, AnCh 212)
Lab I-III, VI-VIII Th, MH 201

153 Problems (ar cr; prereq 101)

200 Seminar (1 cr)
V T, MH 213

205 Research (ar cr)

218 Physical Methods in Biopolymer Research (3 cr; prereq 217)
IX T, C 115, Lumry, Lovrien, Rosenberg

236 Radioisotope Seminar (1 cr, §Rad 236)

LABORATORY MEDICINE

Laboratory Medicine (LMed)

102 Clinical Lab Medicine (3 cr; prereq 101) Benson, Bradley, others

148 Ultrastructural Changes in Pathology (1 cr; prereq ♯) Zaki

150 Intro to Clinical Chemistry (4 cr; prereq ♯)
Lect I MW, Mayo C295, Freier
—1, Lab II-IV MW, Mayo B209
—2, Lab II-IV TTh, Mayo B209

160 Human Cytogenetics (2 cr; prereq ♯)
VI TTh, Mayo C295, J Yunis

161 Human Cytogenetics Lab (2 cr; prereq ♯)
VII-VIII TTh, Mayo B209, J Yunis

180 Probs: Fluid, Electrolyte Metabolism (ar cr; prereq regis med) Benson

181 Probs: Clinical Lab Medicine (ar cr; prereq regis med) Benson, others

182 Topics: Hematology (ar cr; prereq Anat 166) Sundberg

183 Topics: Immunology (ar cr; prereq regis med) Bridges, E Yunis

187 Clinical Chemistry Seminar (1 cr; prereq ♯)
I T, Hosp EustisAmph, Benson, Strandford

193 Seminar: Immunology (1 cr; prereq ♯)
VI Th, Mayo C295, Bridges, E Yunis

235 Adv Clinical Lab Medicine (ar cr; prereq Anat 166) Benson, others

236 Research: Clinical Lab Probs (ar cr) Benson, others

253 Research: Human Genetics (ar cr) J Yunis

Medical Technology (MedT)

32 Case Presentations (1 cr; prereq 31)
V T, Hosp EustisAmph, Hovde

60 Blood Group Serology (2 cr)
Lect I F, Owre 113, Benson
—1, Lab II-IV F, Mayo B209
—2, Lab VI-VIII F, Mayo B209

61 Intro to Clinical Hematology (3 cr)
Lect V MW, Owre 111, Bordewich
—1, Lab VI-VII MW, Mayo B209
—2, Lab VIII-IX MW, Mayo B209

62 Intro to Clinical Chemistry (4 cr)
Lect I MW, JacH 74, Freier
—1, Lab II-IV MW, Mayo B209
—2, Lab II-IV TTh, Mayo B209

70 Clinical Chemistry (10 cr) Bisset

73 Electrocardiography, Basal Metabolism Testing (2 cr) Halsted

75 Clinical Hematology (6 cr) Stiene

80A Clinical Microbiology (6 cr) Blazevic

80B Special Clinical Microbiology (3 cr) Blazevic

83 Blood Bank Techniques (4 cr) Benson

85 Histologic Techniques (3 cr) Samuelson

93 Adv Clinical Practice (12 cr)

93H Honors Course: Adv Clinical Practice (12 cr; prereq ♯)

111 Adv Clinical Lab Techniques (5 cr)

131 Elements of Admin (2 cr) Ederer

141 Educational Admin (3 cr) Hovde

148 Ultrastructural Changes in Pathology (1 cr, §LMed 148; prereq ♯) Zaki

150 Topics: Bacteriology (ar cr) Blazevic

151 Topics: Chemistry (ar cr) Freier

152 Topics: Hematology (ar cr) Gonyea

153 Topics: Immunology (ar cr) Benson

187 Clinical Chemistry Seminar (1 cr; prereq ♯)
II F, Hosp ToddAmph

MEDICINE (Med)

101 Physical Diagnosis (2 cr; prereq regis med, Anat 101, Phsl 107)
Lect I-III M, VI T, VIII Th, Hosp Eustis-Amph, Murray, Tobian, others, lab ar

104 Intro to Internal Medicine (2 cr; prereq 101, LMed 102)
1:00-2:00 alt W, Hosp ToddAmph, Ebert, others

112 **Clerkship: Internal Medicine (16 cr; prereq regis med)**
8:00-5:00 MTWThFS, Murray, others

123 Dermatology, Syphilology (2 cr; prereq 101)
4:00-5:00 alt W, Hosp EustisAmph, Lynch, others

124 Senior Clerkship: Dermatology (2 cr; prereq regis med)
8:00-9:00 MTTh, 1:00-5:00 MTTh, 1:00-4:00 W, 9:00-11:00 Th, 9:00-11:00 S, Mayo D374, 1:30-2:30 F, 9:00-11:00 S, Hosp EustisAmph

180 Externship (ar cr)

181 Research (ar cr)

184 Clinical Probs (ar cr)

201 **Clinical Medicine (ar cr) Ebert, others**

202 Diseases of Cardiovascular Apparatus (ar cr) Frantz, others

203 Research (ar cr) Ebert, others

205 Diseases of Chest (ar cr) Ebert, Lillehei

206 Clinical Conference (1 cr)
11:00-12:00 S, Hosp ToddAmph, Ebert, others

207 Clinical Pathological Conference (1 cr)
9:00-10:00 Th, Hosp ToddAmph, Dawson, others

208 Clinical Radiological Conference (1 cr)
10:00-11:00 M, Hosp ToddAmph, Peterson, others

210 Seminar: Infectious Disease (1 cr) Spink

211 Electrocardiographic Conference (1 cr) Tuna

212 Pigment Metabolism (1 cr) Schwartz, others

213 Seminar: Psychosomatic Medicine (1 cr) Magraw

214 Seminar: Cardiovascular (1 cr) Wang

225 Clinical Dermatology (ar cr) Lynch

226 Dermatology (ar cr) Lynch, others

227 Histopathology of the Skin (ar cr) Orkin

228 Research: Dermatology (ar cr) Lynch, others

230 Functional Biology of the Skin (ar cr) Fusaro, others

MICROBIOLOGY (MicB)

53 **Gen Microbiology (5 cr; prereq soph with C avg in prereq courses or jr, 10 cr chem, 4 cr biol sci or ♯)**
—1, Lect VI MWF, MMA 125, Johnson
Lab VII-IX MF, Mayo A205
—2, Lect VI MWF, HH 100 **(StP Campus)** Lindorfer
Lab VII-VIII MWF, VetS 325 **(StP Campus)**

100 Microbiology for Dental Students (6 cr; prereq regis Dent or Grad)
Lect I TTh, IV F, MMA 125, Anderson
Lab II-IV TTh, Mayo A205

102 **Medical Microbiology** (4 cr; prereq 116, not open to med students)
Lect VI TTh, MMA 125, Chapman
Lab VII-IX TTh, Mayo A205

103 Soil Microbiology (4 cr, §Soil 127; prereq 53, 8 cr org chem, ♯)
Lect II MWF, So 120 **(StP Campus)** Schmidt
Lab III-IV MF, So 150 **(StP Campus)**

110 Microbial Genetics (3 cr; prereq 53 or ♯)
II TThS, MMA 100, Bradley

152 Problems (ar cr; prereq ♯)

201 Research (ar cr)

202 Diagnostic Microbiology (ar cr; prereq grad, ♯)

203 Seminar (1 cr)
V W, Mayo 1050, Dworkin

205 Adv in Immunology (1 cr)

NURSING

Nursing (Nurs)

40 Study of Patient Behavior (4 cr; prereq 30, Anat 3, MdBc 50, Phsl 51, cultural anth, ¶NPsy 172)
—1, Lect III-IV TTh, Owre 12, Stivers, others
—2, Lect III-IV TTh, MMA 100
—3, Lect VI-VII TTh, Owre 117
—4, Lect VI-VII TTh, MH 213
Lab I M or T or W or Th or F, Owre 112, PoH 2309

56 Pathophysiology of Illness (2 cr; prereq 55)
VI TTh, MMA 100, Peterson

72 Nursing Intervention (6 cr; prereq 62, MicB 53, ¶56, ¶Psy 145)
—1, Lect VI MWF, PoH 2309, Moncure, others
—2, Lect VI MWF, PoH 2317
—3, Lect VI MWF, MH 213

—4, Lect VI MWF, PoH 1404
—5, Lect VI MWF, Owre 112
—1, Lab II-IV MTW, PoH 1404, 1405, 2402
—2, Lab I-III WThF, PoH Amph, PoH 1326, 1413

85 Scientific Approaches to Nursing Care (6 cr; prereq 75, ¶56)
—1, Lect III-IV TTh, PoH 2309, Titt, others
—2, Lect III-IV TTh, Owre 112
—1, Lab III-V WF, PoH 1404
—2, Lab III-V WF, Owre 112

92B Nursing Synthesis in Community (6 cr; prereq 82B or 85)
Lect VI MWF, MH 118, Cano, Speer
Lab I-III, V-VII TTh

102 Nursing Synthesis (7 cr; prereq 92A or 92B)
—1, Lect II MWF, PoH 2317, Sime, others
—2, Lect II MWF, Owre 112
—3, Lect II MWF, PoH 1404
—1, Lab 8:00-12:00 TTh, 1:00-2:00 TTh
—2, Lab 10:00-12:00 TTh, 1:00-4:00 TTh

181B Research (2 cr; prereq PubH 140 or ♯)
I-II W, MH 118, Harris

185B Medical-Surgical Nursing II (8 cr; prereq 185A)
Lect II-IV MW, PoH 2309, Sarosi, Zatochill
Lab II-IV ThF

192B Seminar: Psychiatric, Field Practice with Groups (5 cr; prereq 192A or ♯)
VII-VIII T, VIII Th, MH 118, Cowlishaw, Hubbard, Lewis

Nursing Education (NuEd)

198E Adv Teaching (6 cr; prereq 197E, ¶EdCI 199E)
I-IV MF, MH 118, Backlund, Dunning

Practical Nursing (PNur)

15B Nursing Needs (4 cr; prereq 15A)
Lect VI-VII MW, PoH Amph, Taylor
Lab VI-VII TTh, PoH 2402

16 Nursing (8 cr; prereq 1, ¶15A-B-C)
Lect I-II M, VI-VII F, PoH 1326, Owre 112, Simmons
—1, VI-VII T, PoH 1326
—2, VI-VII Th, PoH 1326
Lab I-IV TWThF

17 Nursing (8 cr; prereq 1, ¶15A-B-C)
Lect I-II M, VI-VII F, PoH 1413, Weisensee
—1, VI-VII T, PoH 1413
—2, VI-VII Th, PoH 1413
Lab I-IV TWThF

18 Nursing (8 cr; prereq 1, ¶15A-B-C)
Lect I-II M, VI-VII F, PoH Amph, Hudak
—1, VI-VII T, PoH 2317
—2, VI-VII Th, PoH 2317
Lab I-IV TWThF

OBSTETRICS AND GYNECOLOGY (Obst)

120 Obstetrics Lectures (4 cr; prereq regis med)
2:00-3:00 W, Hosp ToddAmph, McKelvey, others

135 Clinical Clerkship (12 cr; prereq regis med)

201 Adv Obstetrics, Gynecology I (ar cr)

202 Adv Obstetrics, Gynecology I (ar cr; prereq 201)

203 Adv Obstetrics, Gynecology I (ar cr; prereq 202)

204 Adv Obstetrics, Gynecology I (ar cr; prereq 203)

205 Adv Obstetrics, Gynecology II (ar cr; prereq 204)

206 Adv Obstetrics, Gynecology II (ar cr; prereq 205)

207 Adv Obstetrics, Gynecology II (ar cr; prereq 206)

208 Adv Obstetrics, Gynecology II (ar cr; prereq 207)

209 Adv Obstetrics, Gynecology III (ar cr; prereq 208)

210 Adv Obstetrics, Gynecology III (ar cr; prereq 209)

211 Adv Obstetrics, Gynecology III (ar cr; prereq 210)

212 Adv Obstetrics, Gynecology III (ar cr; prereq 211)

OPHTHALMOLOGY (Opth)

100 Ophthalmology (2 cr; prereq regis med)
4:00-5:00 alt W, Hosp EustisAmph, Harris, others

180 Externship (ar cr; prereq regis med)
Harris, others

200 Clinical Ophthalmology (6 cr)
12:00-5:00 MTWThF, Clinic, Harris, others

201 Practical Ocular Surgery (3 cr)
8:00-12:00 TWTh, Harris, others

202 Ocular Pathology Conference (1 cr)
3:00-4:00 Th, Mayo A675, Monahan

203 Basic, Applied Ophthalmology (2 cr)
8:00-12:00 S, Mayo A355, Harris, others

210 Radiology of Eye, Orbit, Head (1 cr)
4:00-5:00 Th, X-Ray Conf Rm, Kieffer

211 External Diseases (1 cr)
4:00-5:00 F, Mayo A675, Wendland

214 Laboratory (9 cr) Harris, others

216 Ophthalmic Pathology Lab (2 cr)
1:00-3:00 Th, DiehlH 230, Monahan, others

OTOLARYNGOLOGY (Otol)

230 Clinical Otology (3 cr)
1:00-4:00 MWThF, Mayo D307, Boies, others

231 Clinical Rhinology, Laryngology (3 cr)
1:00-4:00 MWThF, Mayo D307, Boies, others

232 Surgery of Ear, Nose, Throat (3 cr)
9:00-12:00 MTWThF, Hosp OR, Boies, others

237 Endoscopy (2 cr) Priest

238 Pathology of Ear, Nose, Throat (1 cr)
11:00-12:00 alt S, Mayo A675, Lober

241 Seminar: Current Literature (1 cr)
8:30-12:00 S, Mayo A675, Boies, others

246 Practical Audiology (1 cr) Lassman

248 Research (1 cr) Boies, others

PATHOLOGY (Path)

54 Pathology for Mortuary Science (3 cr; prereq 53)
IV MWF, JacH 178

60 Pathology for Physical Therapists (3 cr; prereq regis PT)
VII T, VII-VIII Th, ChRC 204

100 Pathology for Dental Students (8 cr; prereq regis Dent)
Lect I MTWThF, JacH 178, Dawson, others
Lab II-III MF, VII-VIII TTh, JacH 188, 192, 196
Dem II MF, VII TTh, JacH 178

104 Autopsies (ar cr; prereq 102) Dawson

105 Diseases of Kidney (3 cr; prereq 102)
V-VI TTh, JacH 178, Hebbel

106 Diseases of Heart (1 cr; prereq 102)
V W, Edwards

110 Seminar (1 cr; prereq 102)
V-VI M, JacH 178, Dawson

111 Conference on Autopsies (1 cr; prereq 102)
V-VI T, JacH 178, Dawson

113 Surgical Pathology (ar cr; prereq 102) Hebbel

140 Seminar: Experimental Pathology (1 cr) Halberg

141 Probs: Experimental Pathology (ar cr) Halberg

150 Problems (ar cr; prereq regis med) Dawson

201 Research (ar cr) Dawson

PEDIATRICS (Ped)

120 Clinical Lecture (2 cr; prereq regis med)
1:00-2:00 W, Hosp ToddAmph, Anderson

135 Clinical Clerkship (12 cr; prereq regis med) Anderson

181 Externship (ar cr) Anderson

182 Clinical Probs (ar cr) Anderson

183 Research (ar cr) Anderson

200 Seminar (1½ cr) Anderson

202 Clinic (ar cr; prereq ♯) Anderson

204 Residency (ar cr; prereq ♯) Anderson

206 Pediatric Special Interest (ar cr; prereq ♯) Anderson

208 Research (ar cr; prereq ♯) Anderson

PHARMACOLOGY (Phcl)

57 Pharmacology of Official Medicinal Agents (3 cr)
II MWF, AH 150, White

101 Gen Pharmacology (1 cr, †101-102)
VI Th, JacH 74, Zimmerman

106 Toxicology (2 cr; prereq 101, 102 or 103, 104 or ¶)
V TTh, JacH 74, Mannering

109 Problems (ar cr; prereq ♯) Shideman

203 Research (ar cr; prereq 103, 104 or ♯)

204 Seminar: Selected Topics (1 cr, 3 cr compl 3 qtrs; prereq 101, 102 or 103, 104 or ♯) Miller, others

205 Seminar: Survey Current Pharmacological Literature (1 cr, 3 cr compl 3 qtrs; prereq 101, 102, 103, 104 or ♯) Marrazzi, others

206 Seminar: Psychopharmacology (1 cr, 3 cr compl 3 qtrs; prereq ♯) Thompson, others

PHYSICAL MEDICINE AND REHABILITATION (PMed)

1 Intro: Occupation Therapy (1 cr)
VII Th, ChRC 208

5 Therapeutic Recreation (2 cr)
VI TTh, ChRC 208, Cowan

50 Physics for Physical Therapy (2 cr)
II T, II-III Th, ChRC 204

55 Process of Rehabilitation (2 cr)
VI MW, ChRC 262

60B Electrotherapy (3 cr)
III M, ChRC 208, V-VI TTh, ChRC 220, Wessman

61 Physical Medicine, Rehabilitation Applied to Medical Sciences (6 cr)
I MTWThF, ChRC 208, II W, Hosp EustisAmph

67 Methods of Scientific Research (2 cr; prereq 66) Skowlund

70 Massage (3 cr)
III W, ChRC 208, II-III TTh, ChRC 220, Allison, Nickolisen

73 Theory of Occupational Therapy (3 cr)
II-III TTh, ChRC 208, Eliason

76 Techniques of Occupational Therapy (3 cr)
I-III TTh, ChRC 255, Lepley, Sicard

77 Study of Physical Dysfunction (3 cr)
III MWF, ChRC 204, VI-VII TTh, ChRC 262, Dahlstrom, Lepley

78 Group Process Seminar (3 cr)
II-III WF, ChRC 262, Eliason

84 Rehabilitation Procedures (3 cr)
V-VI MWF, ChRC 220

85 Rehabilitation Procedures (3 cr)
II MF, ChRC 208, VII-VIII MWF, ChRC 220, Mundale

87 Intro to Clinical Education (1 cr; prereq reg PT)
VII-VIII T, ChRC 220, Clayson, Skowlund, Pauley

89 Clinical Training (18 cr) Clayson

91 Senior Conference (1 cr; prereq 90)
IX Th, ChRC 208, Kottke

93 Orientation to Work Evaluation (2 cr)
VII MW, ChRC 262, Bollinger

95 Clinical Training in Occupational Therapy (18 cr; prereq 94) Eliason

96 Clinical Training in Occupational Therapy (18 cr; prereq 95) Eliason

100 Psychological Factors (3 cr) Roberts

103 Clinics (ar cr) Kottke

161 Clinical Medicine in Rehabilitation (5 cr) Kottke

180 Problems (ar cr; prereq physical therapist) Kottke

181 Externship (ar cr; prereq regis med) Kottke

190 Problems (ar cr; prereq regis med) Kottke

197 Intro to Scientific Literature, Research (2 cr; prereq ♯) Skowlund

198 Research Probs (ar cr; prereq 97 or 197 or ♯) Skowlund

200 Service (ar cr) Gullickson, Kottke

204 Clinic: Peripheral Vascular Disease (ar cr) Gullickson

205 Readings (1 cr)
I M, Mayo 825, Kottke

206 Conference (1 cr)

210 Research (ar cr) Gullickson, Kottke, Kubicek

211 Electronics (2 cr) Kubicek

212 Electromyography (ar cr; prereq ♯) Kottke, Kubicek

213 Lab Procedures (1 cr; prereq ♯) Kubicek

220 Seminar (ar cr)
IV M, Hosp EustisAmph, Kottke

PHYSIOLOGY (Phsl)

106 Human Physiology (7 cr; prereq regis med or grad, neuroanat, org chem, zool)
Lect I MTWThF, Owre 15
—1, Lab III-V, VII-IX T, MH 307
—2, Lab III-V, VII-IX Th, MH 307

113 Problems (ar cr; prereq 107)

201 Literature Seminar (1 or 2 cr; prereq 107)
V W, MH 213

202 Readings (ar cr)

203 Research (ar cr)

220 Methods of Analysis (3 cr; prereq calc thru intro to differential equations, phys chem or ♯) Beck

236 Renal Hemodynamics (ar cr; prereq 107) Harvey

PUBLIC HEALTH (PubH)

3 **Personal Health** (2 cr, §2 or 50)
VI MW, C 100, Thomson

4 **Health Probs of the Community** (2 cr; prereq 3)
III TTh, MNH Aud, J J Smith

50 **Personal, Community Health** (3 cr, §2, 3, 4, 5, 51, 52)
III MWF, MNH Aud, Thomson

52 **Home Nursing, Family Care** (1 cr; prereq HE students, 50 or ♯)
VIII-IX Th, HS 2nd floor (StP Campus) Simons

75 Intro to Environmental Health (3 cr; prereq 3 cr public health)
—1, I MWF; AH 9, Bond
—2, II MWF, MH 213, Vesley

90 Medical Statistics I (3 cr; prereq med student or ‡)
Lect I TTh, JacH 74, Thornton
—1, I-II F, Mayo 1210, 1220, Bearman, Thornton
—2, VII-VIII F, Mayo 1210, 1220, Bearman, Thornton

100 Preventive Medicine, Public Health (6 cr; prereq med students only)
IV MTWThFS, JacH 74, G Anderson, Schuman, Thomson

100C Elem of Public Health III (1 cr; prereq 100B)
VIII-IX T, Owre 15, G Anderson

102A Environmental Health (2 cr; prereq 100A or ‡)
I TTh, Mayo 1250, Bond

103 Bacteriology (ar cr; prereq MicB 102, 116, ‡)
I-II MWF, SBH Lab, Bauer

105 Epidemiology II (3 cr; prereq 104)
II MWF, Schuman

107 Maternal, Child Health (3 cr, §107A; prereq MD, DDS, nurs or ‡, ¶100A)
VI MW, VI-VII F, Mayo 1210, Bridge, Fredlund, Stief

107A Maternal, Child Health Program (1 cr, §107; prereq hosp administrators, ‡) Bridge

109 Institutional Environmental Health (3 cr; prereq hosp administrators or ‡, 100A) Bond

110C Biometry III (3 cr; prereq 110B, ¶111C)
III MWF, MH 213, Bartsch

111C Biometry Lab III (2 cr; prereq ¶110C)
Lect III TTh, MH 213, Bartsch
—1, II MWF, ForH 80, Bartsch
—2, IV MWF, ForH 80, Bartsch
—3, VI-VIII T, ForH 80, Bartsch

113A Public Health Engineering—Field Investigations: Water Supplies (2 cr, §114; prereq engr degree, 102, ‡) Bond, Singer

113C Public Health Engineering—Field Investigations: Swimming Pools, Plumbing (2 cr, §114; prereq engr degree, 102, ‡) Bond, DeRoos

115 Food Sanitation (3 cr; prereq 100A, ‡)
V-VII T, Mayo 1138, Olson

115A Institutional Food Protection Programs (2 cr; prereq ‡) Jopke

116 Admin of Environmental Health Programs (3 cr, §114; prereq ‡) Bond

117C Sanitary Biology (3 cr; prereq 117B)
Lect IV MWF, Mayo 1138, Olson
Lab VI-IX F

120C Biomedical Computing (3 cr; prereq 120B)
VII MWF, Mayo 1205, Johnson

121C Quantitative Mammalian Biology (3 cr; prereq 121B)
IV MWF, Mayo 1205, Evans

122 Admin Probs (3 cr; prereq 106)
I MWF, Owre 117, G Anderson

123 Topics (ar cr; prereq ‡)

125 Public Health Education (2 cr; prereq ‡)
—1, IV MW, Mayo 1210, Craig
—2, VII TTh, Mayo 1220, Ellis, Grout

125A Public Health Education (1 cr; prereq hosp admin maj or ‡)
I MWF, Mayo 1250, Ellis

141 Social, Economic Aspects of Medical Care (ar cr; prereq ‡)
III-IV TTh, Owre 111, Detwiller

142 Medical Economics (2 cr; prereq sr med students only) Detwiller

145 Low Level Radioactivity, Radiation Measurements (3 cr; prereq ‡)
VIII-IX M, VIII F, Mayo 1205

149 Aspects of Housing, Residential Environment (3 cr; prereq ‡) Bond

150 Vital Statistics II (3 cr; prereq 140, 110A or ‡)
IV MWF, Mayo 1220, Brown

154 Radiological Health I (ar cr; prereq ‡)
Lect IV TTh, Mayo 1220
Lab VI-IX W, Mayo 1120

156 Air Pollution Control Theory (3 cr; prereq 155, ‡)
I TTh, Mayo 1205, Paulus

164 Organization, Mgt of Hospitals (6 cr; prereq 162, 163)
VI-VII MTWThF, Mayo 1250, Stephan, others

167 Mgt Probs in Hospital Admin (6 cr; prereq 162, 163, ¶164)
III-IV MWF, I-II TTh, II-III S, Mayo 1250, Laur, Sweetland

169 Administrative Residency (ar cr)

170A Admin of Public Health Nursing (1 cr, §170; prereq ‡)
I MWF, Mayo 1250

176A Clinical Seminar: Public Health Nursing (3 cr; prereq 175)

177 Nursing in Family Health, Illness (3 cr; prereq 175) E Anderson, Fredlund

179B Long-Term Patient Care, Rehabilitation (ar cr; prereq 179A) E Anderson

181C Prins, Methods in Public Health Education (4 cr; prereq ‡)
VI-VII MWF, Mayo 1210, Craig, Ellis

185 Air Analysis (3 cr; prereq 152 or 155, ♯)
VI-VIII M, I-III F, Mayo 1120, Paulus
186 Probs of Air Pollution Control (ar cr; prereq 155, ♯) Paulus
197C Elements of Mathematical Biology (5 cr; prereq 197B) Evans
200 Research (ar cr)
201 Topics: Biometry (ar cr; prereq 110A, ♯)
202 Seminar: Physiological Hygiene (1 cr)
203C Research Design: Biometry (3 cr; prereq 203B)
II MWF, Mayo 1210, McHugh
204C Theory of Research Design: Biometry (2 cr; prereq 204B)
II TTh, Mayo 1210, McHugh
210 Seminar (ar cr)
VIII-IX Th, MMA 100
211 Seminar: Biometry (ar cr)
212 Seminar: Public Health Engineering, Sanitation (ar cr; prereq ♯)
VI-VII Th, Owre 113, Olson
213 Seminar: Epidemiology (ar cr; prereq ♯)
VI-VIII F, Mayo 1325, Gullen, Schuman
214 Health of School Age Child (2 cr; prereq 107 or ♯) Bridge, others
220 Readings: Probs of Physiological Hygiene (ar cr; prereq ♯) Keys
223 Orientation to Teaching Public Health Nursing (3 cr; prereq ♯) McIntyre
227 Probs: Public Health Education (ar cr; prereq ♯) Grout
241 Epidemiology of Noncommunicable Diseases (3 cr; prereq 104)
III MWF, Gullen, Schuman
265 Seminar: Research Studies on Health Services (3 cr; prereq ♯) Litman, Weckwerth
282 Practicum: Supervision or Admin in Public Health Nursing (ar cr; prereq 280, 281)
290 Research: Physiological Hygiene, Related Areas (ar cr)

PSYCHIATRY AND NEUROLOGY (NPsy)

101 Clinical Neurology (4 cr; prereq regis med or grad clin psy)
8:00 S, Hosp EustisAmph, Baker
103 Clinical Clerkship (12 cr; prereq regis med)
120 Basic Behavioral Science (3 cr; prereq regis med)
II T, II-III W, JacH 74
121 Behavior Pathology, Psychiatric Methods (4 cr; prereq regis med soph)
1:30 MWTh, 9:30 S, Hosp ToddAmph
145 Readings: Psychiatry (ar cr; prereq regis med)
145X Readings: Neurology (ar cr; prereq regis med)
172 Human Behavior in New, Stressful Situations (3 cr; prereq soph nurs students, ♯)
III MWF, Owre 12
181 Externship: Neurology (ar cr; prereq regis med)
182 Probs: Basic, Clinical Neurology (ar cr; prereq regis med)
191 Externship: Adult Psychiatry (ar cr; prereq regis med)
192 Externship: Child Psychiatry (ar cr; prereq regis med)
193 Probs: Psychiatry (ar cr; prereq regis med)
200 Descriptive Psychopathology (1 cr; prereq reg clin psy program or ♯)
201 Clinical Seminar for Psychologists (1 cr; prereq ♯) Sines
202 Special Research Topics (ar cr; prereq ♯)
203 Psychometric Clerkship (ar cr; prereq ♯)
204 Internship: Clinical Psychology (2 or 4 cr; prereq PhD cand clin psy, ♯ or div clin psy)
205 Seminar: Adv (1 cr; prereq ♯) Hathaway
208 Clinical Neurology (ar cr)
209 Research (ar cr)
212 Survey of Neuropathology (1 cr, §151, Path 119)
220 Adv Clinical Neurology (1 cr)
226 Neurological-Neurosurgical Conference (1 cr, §Rad 163 or Surg 318)
2:00-5:00 F, Hosp ToddAmph
231 Applied Electroencephalography, Myography (ar cr)
241 Neuroradiology (1 cr, §Rad 163)
251 Clinical Inpatient Psychiatry (ar cr; prereq MD degree)
252 Clinical Outpatient Psychiatry (ar cr; prereq MD degree)
253 Clinical Child Psychiatry (ar cr; prereq MD degree)
254 Adv Clinical Inpatient Psychiatry (ar cr; prereq 251, 252, 253, MD degree)
255 Adv Clinical Outpatient Psychiatry (ar cr; prereq 251, 252, 253, MD degree)
256 Adv Clinical Child Psychiatry (ar cr; prereq 251, 252, 253, MD degree)
257 Special Assignments (1 cr; prereq 251, 252, 253, MD degree)
258 Research (ar cr; prereq MD degree or ♯)
261 The Use of Psychoanalytic Concepts in Psychotherapy (1 cr) Lippman

266 Therapeutic Dynamics in Hospital Psychiatry (1 cr; prereq MD degree or ‡) Koutsky

269 Psychotherapy (3 cr; prereq MD degree or ‡) Raths

270 Review of Current Literature (2 cr) Hastings

271 Readings: Psychoanalysis I (1 cr; prereq MD degree or ‡) Hambidge

273 Survey of Psychosomatic Medicine (1 cr; prereq MD degree or ‡) Magraw

278 Intro to Family Therapy (1 cr; prereq MD degree or ‡)

281 Readings: Psychoanalysis II (1 cr; prereq MD degree or ‡)

283 Seminar: Special Topics (1 cr; prereq MD degree or ‡) Schiele

284 Readings: Child Psychiatry (1 cr) Jensen

285 Seminar: Current Literature in Child Psychiatry (1 cr) Jensen

286 Diagnostic, Therapeutic Methods in Child Psychiatry (1 cr) Jensen

291 Seminar: Current Literature (1 cr; prereq MD degree or ‡) Simon

292 Special Supervision in Psychotherapy (1 cr; prereq MD degree or ‡)

293 Probs: Teaching Psychiatry (ar cr; prereq MD degree or ‡)

295 Group Therapy (1 cr; prereq MD degree or ‡)

RADIOLOGY (Rad)

102 X-Ray Conference (1 cr; prereq ‡)
5:00-6:00 T, X-Ray Conf Rm, Peterson, others

103 Fundamentals of Radiation Physics, Radiobiology, Nuclear Medicine (1 cr)
3:00-4:00 F, X-Ray Conf Rm, Jacobson, Moore

104 Fundamentals of Nuclear Medicine (1 cr; prereq 1st yr residents)
4:00-5:00 T, X-Ray Conf Rm, Loken

111 Medical Roentgenologic Conference (1 cr)
9:00-10:00 M, Hosp ToddAmph, Gedgaudas, Peterson

124 Pediatric-Roentgenologic Conference for Graduate Students (1 cr)
9:00-10:00 T, Hosp EustisAmph, Feinberg, Wolfson

135 Surgical Roentgenologic Conference (1 cr)
9:30-10:30 S, Hosp ToddAmph, Amplatz, Gedgaudas

163 Neurosurgical-Roentgenologic Conference (1 cr)
1:00-2:30 F, Hosp ToddAmph, Peterson

180 Externship (ar cr; prereq regis med) Davidson, Wolfson

181 Externship: Diagnostic Radiology (ar cr; prereq regis med) Davidson, Wolfson

182 Externship: Radiation Therapy (ar cr; prereq regis med) D'Angio

183 Probs: Radiation Biology, Radioactive Isotope Methods (ar cr; prereq regis med) D'Angio, Loken

184 Probs: Diagnostic Radiology (ar cr; prereq regis med) Gedgaudas, Wolfson

200 Research: Roentgenology (ar cr) Peterson, others

202 Cardiovascular Roentgenologic Conference (1 cr)
2:30-4:30 M, Hosp ToddAmph, Amplatz, Gedgaudas

204 Tumor Clinic Conference (ar cr)
11:00-12:00 M, Hosp ToddAmph, D'Angio

205 Research: Radiation Therapy, Nuclear Medicine, Radiobiology (ar cr; prereq ‡) D'Angio, Loken

206 Roentgenoscopy (3 cr) Peterson, others

209 Roentgen Diagnosis (3 cr) Peterson, others

210 Roentgen Technique (2 cr) Peterson, others

211 Dosimetry of Internal, External Radiation Emitters (1 cr)
7:00-8:00 am W, Mayo B 142, Moore

212 Seminar: Radiation Biophysics (1 cr; prereq ‡)
5:00-6:00 W, X-Ray Conf Rm, Jacobson

217 Roentgenologic Conference on Chest Diseases (1 cr)
3:30-4:30 F, Hosp EustisAmph, Gedgaudas, Tobin

220 Urologic-Roentgenologic Conference (1 cr)
5:00-6:00 M, X-Ray Conf Rm, Baggenstoss, Creevy, Moody, Peterson

236 Seminar: Radioisotope (1 cr)
12:00-1:00 W, Mayo C239, Loken

238 Roentgen-Surgical Pathology Conference (1 cr)
4:00-6:00 Th, Hosp ToddAmph, Lober, Peterson, others

240 Radiation Therapy Conference (1 cr)
5:00-6:00 M, PoHAmph, D'Angio

SURGERY (Surg)

121 Prin of Surgery (3 cr; prereq regis med soph)

122 Prin of Diagnosis, Treatment, Prognosis of Fractures, Dislocations (1 cr; prereq regis med)
VIII W, Hosp ToddAmph, Hosp Eustis Amph, Moe, others

127 Clinical Lectures: Neurosurgery (1 cr; prereq regis med)
VIII W, Hosp ToddAmph, Hosp Eustis Amph, French, others

129 Clinical Lectures: Gen Surgery (1 cr; prereq regis med)
VIII W, Hosp ToddAmph, Hosp Eustis Amph, Wangensteen

135 Clinical Clerkship (16 cr; prereq regis med) Wangensteen

140 Clinical Lectures in Orthopedic Surgery (1 cr; prereq regis med)
X W, Hosp ToddAmph, Hosp Eustis Amph, Moe, others

173 Urology Lecture (1 cr; prereq regis med)
X W, Hosp ToddAmph, Hosp Eustis Amph, Creevy, others

180 Externship: Urology (ar cr; prereq regis med) Creevy, others

181 Cardiovascular Surgery (ar cr; prereq regis med) Lillehei

182 Probs: Clinical Investigation and/or Experimental Surgery (ar cr; prereq regis med) Wangensteen

183 Externship: Affiliated Hospital (ar cr; prereq regis med) Wangensteen

185 Externship: Orthopedic Surgery, Fractures (ar cr; prereq regis med) Moe

186 Research Probs (ar cr; prereq regis med) Moe

188 Externship: Neurosurgery (ar cr; prereq regis med) French, others

189 Externship: Neurosurgery (ar cr; prereq regis med) French, others

190 Neurosurgical Investigation (ar cr; prereq regis med) French, others

200 Outpatient Clinic (1 cr) Wangensteen

202 Applied Surgical Anatomy on Cadaver (1 cr) Wangensteen

203 Proctoscopy, Sigmoidoscopy (1 cr) Bernstein, Wangensteen

204 Tumor Clinic (1 cr)
I-IV Th, SurgClinic, Hosp TodAmph, Wangensteen, others

205 Surgical Diagnosis (1 cr) Wangensteen, others

208 Surgical Probs, Mgt (1 cr) Wangensteen, others

211 Operative Surgery (1 cr) Wangensteen, others

214 Surgical Ward Conference (1 cr) Wangensteen, others

215 Surgical-Roentgenological Conference (1 cr)
II-IV S, Hosp ToddAmph, Wangensteen, others

216 Research (ar cr) Wangensteen, others

217 Seminar (1 cr) Wangensteen, others

218 Surgery-Medical Pathological Conference (1 cr)
IV W, Hosp ToddAmph, Wangensteen, others

219 Surgical Literature Conference (1 cr)
I T, SurgLib, Wangensteen, others

220 Peripheral Vascular Surgery (1 cr)
II-IV T, SurgClinic, Wangensteen, others

221 Seminar: Surgery-Physiology (1 cr)
VIII T, SurgLib, Wangensteen, others

250 Urological Surgery (4 cr) Creevy, others

251 Cystoscopy, Urological Diagnosis (4 cr) Creevy, others

252 Urological Conference (4 cr) Creevy, others

253 Research: Urology (4 cr) Creevy, others

254 Seminar: Urology (3 cr) Creevy, others

255 Urological Radiological Conference (3 cr) Creevy, others

256 Urological Pathological Conference (3 cr) Creevy, others

257 Use of the Artificial Kidney (3 cr) Creevy, others

287 Biomedical-Engr Seminar (1-3 cr; prereq 286)
VIII Th, Arch 25, SurgLib, Wangensteen, others

308 Study of Neurosurgical Probs, Mgt (4 cr) French, others

311 Operative Neurosurgery (4 cr) French, others

316 Neurosurgical Research (3 cr) French, others

318 Neurosurgical Conference (1 cr)
VI-VIII F, Hosp ToddAmph, French, others

401 Orthopedic Conference (3 cr) Moe, others

403 Fractures (5 cr) Moe, others

405 Orthopedic Diagnosis (3 cr) Moe, others

407 Pediatric Orthopedics (5 cr) Moe, others

408 Orthopedic Probs, Mgt (5 cr) Moe, others

410 Orthopedic Pathology (2 cr) Moe, others

411 Orthopedic Operative Surgery (5 cr) Moe, others

COMPREHENSIVE CLINIC (CoCl)

150 Comprehensive Clinic (ar cr; prereq regis med) Magraw

COLLEGE OF PHARMACY

Pharmaceutical Chemistry (PhmC)

55 Quantitative Pharmaceutical Chemistry (5 cr; prereq 54)
Lect III MWF, AH 150, DiGangi
—1, Lab II-IV T, VII-IX W, AH 325, DiGangi
—2, Lab VII-VIII TTh, AH 325, DiGangi

163 Organic Medicinal Agents (3 cr; prereq 162)
Lect IV MWF, AH 150, Gisvold
Conf IV Th, AH 150, Gisvold

165 Analytical Methods (3 cr; prereq 164)
Lect V M, Portoghese
Lab I-III TTh, AH 325, Portoghese

173 Problems (ar cr; prereq 3rd or 4th yr pharm, #)

203 Medicinal, Natural Chemistry Seminar (1 cr; prereq 202)
VIII T, AH 350

213 Lab Techniques (ar cr; prereq OrCh 63 or #)

214 Research (ar cr; prereq OrCh 63 or #)

Pharmaceutical Technology (PhmT)

1C Orientation: Training, Opportunities (1 cr)
III Th, AH 150, Weaver

54 Fundamental Prins, Processes (5 cr; prereq 53)
Lect I MWThF, AH 150, Rippie
—1, Lab VI-VIII M, AH 125, Rippie
—2, Lab VI-VIII Th, AH 125, Rippie

60 Prescription Compounding (ar cr; prereq 59)
Lect II MW, AH 9, Miller
Conf II F, AH 9, Miller
Lab VI-VIII MW, AH 104, Miller

71 Pharmaceutical Specialties (3 cr; prereq sr, PhmC 163)
III MWF, AH 9, Kabat

72 Veterinary Products (3 cr; prereq sr)
IV MWF, AH 101

165 Cosmetics, Dermatological Preparations (3 cr; prereq 56)
Lect IV MWF, AH 9, Miller
Lab VI-VIII Th, AH 104, Miller

167 Pharmaceutical Manufacturing (3 cr; prereq 166)
Lect I T, AH 9, Miller
Lab II-IV T, I-III Th, AH 28, Miller

172 Hospital Pharmacy Survey (1 cr; prereq 171, #) Kabat

173 Problems (ar cr; prereq jr or sr, #)

201 Seminar (1 cr)
IX W, AH 101

213 Research Probs (ar cr; prereq PhmC 163 or #)

Pharmacognosy (Phcg)

3 Introduction (3 cr; prereq soph, 2, MicB 53)
Lect I T, II Th, AH 150, Schramm
Conf V Th, AH 150, Schramm
—1, Lab VII-IX W, AH 225, Schramm
—2, Lab VI-VIII Th, AH 225, Schramm

153 Metabolism (3 cr; prereq 152)
Lect VI MW, Schramm
Lab VII-IX T, AH 225, Schramm

155 Microscopy, Microchemical Methods (3 cr; prereq 154) Schramm

166 Radionuclide Techniques Lab (2 cr; prereq 165, ¶165 or #) Jonas

173 Problems (ar cr; prereq #)

204 Research (ar cr; prereq #)

INSTITUTE OF TECHNOLOGY

AERONAUTICS AND ENGINEERING MECHANICS

Aeronautics (Aero)

6 **Aerospace Survey, Lab** (1 cr; prereq 5)
VIII M, AE 209

102A **Shock Waves, Compressible Fluid Flow** (4 cr; prereq 100A)
—1, III MWF, AE 225, VI-VII T, AE 21
—2, III MWF, AE 227, VI-VII Th, AE 21

109 **Performance of Ballistic, Space Craft** (3 cr; prereq 100A, MM 36)
V MWF, AE 227

131 **Aerospace Systems Design** (4 cr; prereq 130, ‡)
VI-VIII MW, AE 227

144 **Aeromechanics Lab I** (3 cr, §MM 142; prereq 100A, MM 37)
Lect I TTh, AE 225
—1, Lab II-IV T, AE 30
—2, Lab VI-VIII T, AE 30
—3, Lab II-IV Th, AE 30
—4, Lab VI-VIII Th, AE 30

147 **Aeromechanics Lab IV** (2 cr; prereq 146, ¶Engl 85C)
Lect I Th, Arch 55
—1, Lab II-IV T, AE 30
—2, Lab VI-VIII T, AE 30
—3, Lab II-IV Th, AE 30
—4, Lab VI-VIII Th, AE 30

150 **Aeroelasticity I** (3 cr; prereq 102A, MM 193)
III MWF, AE 211

180 **Astrodynamics** (3 cr; prereq MM 36)
VIII MWF, AE 225

183 **One-Dimension Gas Dynamics** (3 cr; prereq 102, 102A)
I MWF, AE 227

190 **Magnetohydrodynamics** (3 cr; prereq 102A, Math 147 or ‡)
IV MWF, AE 227

203 Linearized Compressible Flow (3 cr; prereq 201 or ‡)
11:15-12:30 TTh, AE 225

207 Instability of Flow of Viscous Fluids (3 cr; prereq 201 or ‡)
IX MWF, AE 227

212 Selected Topics: Fluid Mechanics (0-3 cr; prereq ‡)

240 Perturbation Methods in Fluid Mechanics (3 cr; prereq 202 or ‡)
9:45-11:00 TTh, AE 227

299 Seminar: Fluid Mechanics (0-1 cr)
2:15-5:15 F, AE 209

Mechanics and Materials (MM)

36 **Dynamics** (4 cr, §Phys 100 or 100A; prereq Math 32 or ¶, Phys 21)
—1, II MWF, I-II T, AE 211
—2, II MWF, AE 215, III-IV T, AE 211
—3, II MWF, AE 313, VI-VII T, AE 211
—4, II MWF, AE 317, VIII-IX T, AE 211
—5, II MWF, AE 319, I-II Th, AE 211
—6, II MWF, AE 321, III-IV Th, AE 211
—7, II MWF, AE 327, VI-VII Th, AE 211
—8, II MWF, Arch 30, VIII-IX Th, AE 211
—9, IV MWF, ME 4, I-II T, AE 215
—10, IV MWF, ME 4, III-IV T, AE 215
—11, IV MWF, ME 4, VI-VII T, AE 215
—12, IV MWF, ME 4, VIII-IX T, AE 215
—13, IV MWF, ME 4, I-II Th, AE 215
—14, IV MWF, ME 4, III-IV Th, AE 215
—15, IV MWF, ME 4, VI-VII Th, AE 215
—16, IV MWF, ME 4, VIII-IX Th, AE 215
—17, IV MWF, ME 4, III-IV T, AE 215

93 **Solid Mechanics for Architects** (4 cr; prereq 92)
Lect I MTTh, AE 209
—1, Lab I W, Ex 130
—2, Lab III W, Ex 130
—3, Lab I F, Ex 130
—4, Lab III F, Ex 130

150 **Rheology, Strength of Solids** (3 cr; prereq 37)
VI MWF, AE 225

166 **Problems** (0-3 cr; prereq ‡)

176 **Intro to Random Vibration Theory** (3 cr; prereq 193)
II MWF, AE 227

182 **Applied Elasticity III** (3 cr; prereq 180)
IV MWF, AE 21

202 Gyroscopic Systems (3 cr; prereq 201)
VI MWF, AE 21

212 Theory of Vibrations III (3 cr; prereq 193 or 210)
VII MWF, AE 21

242 Theory of Viscoelasticity (3 cr; prereq 180 or 294)
8:15-9:30 TTh, AE 227

266 Topics (0-3 cr; prereq ‡)

296 Theory of Elasticity III (3 cr; prereq 295)
V MWF, AE 225

299 Seminar (0-1 cr)
2:15-5:15 F, AE 209

AGRICULTURAL ENGINEERING (AgEn)

50 **Intro Agricultural Engineering** (3 cr; prereq soph)
Lect VI TTh, AgEng 105, Boyd, Jordan
Lab VII-IX Th, AgEng 105, Boyd, Jordan

97 **Agricultural Structures Design** (3 cr; prereq 90, MM 37)
Lect VI M, AgEng 103
—1, Lab VII-IX M, AgEng 103
—2, Lab VI-IX W, AgEng 103

100 **Employment Evaluation** (1 cr) Boyd

160 **Agricultural Engineering Instrumentation** (3 cr; prereq EE 30A, Math 32, Phys 50)
Lect I TTh, AgEng 105, Hustrulid
Lab VI-VIII F, AgEng 6A, Hustrulid

161 **Agriculture Machine Analysis** (3 cr; prereq 141, MM 142)
Lect VI T, AgEng 103, Smith
—1, Lab VII-IX T, AgEng 103, Smith
—2, Lab VI-VIII Th, AgEng 103

164 **Adv Soil, Water Engineering** (4 cr; prereq 144, CE 61)
Lect VI TTh, AgEng 317, Machmeier
Lab VII-IX TTh, AgEng 317, Machmeier

165 **Flood Control—Small Watersheds** (2 cr; prereq ¶164, CE 161)
IV TTh, AgEng 105, Larson

167 **Adv Agricultural Structures** (3 cr; prereq 147, CE 81)
Lect VI T, AgEng 317, Jordan
—1, Lab VII-IX T, AgEng 317, Jordan
—2, Lab VI-VIII Th, AgEng 317, Jordan

180 **Radioisotope Measurements** (3 cr; prereq Phys 50, Math 32)
Lect III TTh, AgEng 6A, Hustrulid
Lab VI-VIII W, AgEng 6A, Hustrulid

181 **Probs: Power, Machinery** (2-4 cr; prereq sr, ♯) Boyd, Smith, Strait

184 **Probs: Soil, Water** (2-4 cr; prereq sr, ♯) Allred, Larson, Machmeier, Manson

187 **Probs: Structures, Processing** (2-4 cr; prereq sr, ♯) Hustrulid, Jordan, Pomroy

200 Seminar (1 cr; prereq ♯) Boyd

211 Adv Probs, Research (2-6 cr; prereq 181 or 184 or 187 or △)

212 Adv Probs, Research (2-6 cr; prereq 181 or 184 or 187 or △)

213 Adv Probs, Research (2-6 cr; prereq 181 or 184 or 187 or △)

257 Moisture, Heat Transfer (3 cr; prereq 127, Math 33, ME 160A)
I MWF, AgEng 105, Hustrulid

ARCHITECTURE (Arch)

1 **Introduction** (1 cr)
VI W, Arch 10, Winterowd

41 **Adv Art for Architectural Students** (2 cr; prereq Art 25A)
XI-XII W, Arch 120, Hauser

42 **Adv Art for Architectural Students** (2 cr; prereq 41)
XI-XII W, Arch 120, Hauser

43 **Adv Art for Architectural Students** (2 cr; prereq 42)
XI-XII W, Arch 120, Hauser

53 **History of Architecture** (3 cr; prereq 52)
II MWF, Arch 5, Winterowd

56 **History of Architecture** (3 cr; prereq 55)
IV MWF, Arch 130, Winterowd

73 **Building Technology** (4 cr; prereq 72)
III-IV TTh, Arch 130, Graffunder

76 **Building Technology** (4 cr; prereq 75)
III-IV TTh, Arch 55

82 **Architectural Design** (6 cr, †81-82-83; prereq 81)
Lect VI-VII W, Arch 130, Myers
Lab VIII-IX W, VI-IX MThF, Arch 210

83 **Architectural Design** (6 cr, †81-82-83; prereq 82)
Lect VI-VII W, Arch 130, Myers
Lab VIII-IX W, VI-IX MThF, Arch 210

91 **Architectural Design** (6 cr, †91-92-93; prereq 83)
Lect VI-VII M, Arch 130, Stageberg
Lab VIII-IX M, VI-IX WThF, Arch 220, Stageberg

92 **Architectural Design** (6 cr, †91-92-93; prereq 91)
Lect VI-VII M, Arch 130, Stageberg
Lab VIII-IX M, VI-IX WThF, Arch 220, Stageberg

93 **Architectural Design** (6 cr, †91-92-93; prereq 92)
Lect VI-VII M, Arch 130, Stageberg
Lab VIII-IX M, VI-IX WThF, Arch 220, Stageberg

103 **Tutorial Work in History of Architecture** (2 cr; prereq 102) Winterowd

111 **Architectural Design** (7 cr, †111-112-113; prereq 93, MM 93)
Lect VI-VII Th, Arch 130, Parker
Lab VIII-IX Th, VI-IX MWF, Arch 230, 6 hrs ar, Parker

112 **Architectural Design** (7 cr, †111-112-113; prereq 111)
Lect VI-VII Th, Arch 130, Parker
Lab VIII-IX Th, VI-IX MWF, Arch 230, 6 hrs ar, Parker

113 Architectural Design (7 cr, †111-112-113; prereq 112)
Lect VI-VII Th, Arch 130, Parker
Lab VIII-IX Th, VI-IX MWF, Arch 230, 6 hrs ar, Parker

121 Architectural Design (9 cr, †121-122; prereq 113, CE 41)
Lect VI-VII F, Arch 130
Lab VIII-IX F, VI-IX MTWTh, Arch 240, 5 hrs ar

122 Architectural Design (9 cr, †121-122; prereq 121)
Lect VI-VII F, Arch 130
Lab VIII-IX F, VI-IX MTWTh, Arch 240, 5 hrs ar

123 Thesis (12 cr; prereq 122)
36 hrs ar, Arch 240, Cerny

126 Professional Relations (3 cr; prereq 4th yr)
I-II TTh, Arch 60, Cavin

133 Planning (3 cr)
I-II TTh, Arch 130, Vivrett

134 Planning (3 cr; prereq 133 or ♯) Vivrett

153 Theory (2 cr; prereq 152) Rapson

CHEMISTRY

Analytical Chemistry (AnCh)

40 Analytical Chemistry (4 cr; prereq GeCh 14, 15, phys maj)
Lect V MWF, SciB 375, Lingane, lab ar

47 Analytical Chemistry II (5 cr, §old 101, 102, 102A; prereq 46)
Lect II MWF, SciB 375, Meehan
—1, Lab I-IV TTh, C 310
—2, Lab I-IV TTh, C 310
—3, Lab I-IV TTh, C 310
—4, Lab I-IV TTh, C 310
—5, Lab VI-IX MW, C 310
—6, Lab VI-IX MW, C 310
—7, Lab VI-IX TTh, C 310
—8, Lab VI-IX TTh, C 310

47H Honors Course: Analytical Chemistry II (5 cr; prereq 46)
Lect II MWF, C 315
Lab I-IV TTh

57A Quantitative Analysis (3 cr, †57A-B; prereq GeCh 5, non-chem maj)
V MWF, SciB 375, Lingane

57B Quantitative Analysis (2 cr, †57A-B; prereq 57A or ¶)
—1, Lab I-IV MW, C 310
—2, Lab VI-IX MW, C 310
—3, Lab VI-IX MW, C 310
—4, Lab VI-IX MW, C 310
—5, Lab VI-IX TTh, C 310
—6, Lab VI-IX TTh, C 310
—7, Lab VI-IX TTh, C 310

98 Senior Thesis (ar cr; prereq 4th yr)

105 Quantitative Inorganic Microanalysis (3 cr; prereq 47)
Lect VI F, C 315, Sandell, lab ar

108 Gen Technical Analysis (2 or 3 cr; prereq 47) Sandell, lab ar

116 Solution Equilibria (3 cr; prereq 115)
II TThS, C 315, Bruckenstein

118 Electrochemical Methods of Analysis (3 cr; prereq 117) Swofford, lab ar

123 Analysis of Complex Materials (3 cr; prereq 212) Sandell, lab ar

143 Seminar: Modern Probs (1 cr; prereq 111)
V-VI T, C 225, Swofford

203 Topics (ar cr; prereq 212) Bruckenstein

237 Seminar: Research (ar cr)
VIII-IX Th, C 315, Bruckenstein

262 Survey (1 cr)

303 Research (ar cr)

General Chemistry (GeCh)

5 Gen Prins of Chemistry (5 cr, †4-5; prereq 4)
Lect III MWThF, SciB 375, Hugus
—1, Rec V M, C 315, Lab VII-IX M
—2, Rec V M, C 111, Lab VII-IX M
—3, Rec V W, C 315, Lab VII-IX W
—4, Rec V W, C 111, Lab VII-IX W
—5, Rec V W, C 115, Lab VII-IX W
—6, Rec V F, C 315, Lab VII-IX F
—7, Rec VI Th, C 111, Lab VII-IX Th
—8, Rec VI Th, C 115, Lab VII-IX Th
Lect V MTWF, SciB 325, Johnson
—9, Rec VI M, C 315, Lab VII-IX M
—10, Rec VI M, C 111, Lab VII-IX M
—11, Rec VI W, C 111, Lab VII-IX W
—12, Rec VI W, C 315, Lab VII-IX W
—13, Rec VI W, Owre 111, Lab VII-IX W
—14, Rec VI Th, C 325, Lab VII-IX Th
—15, Rec VI Th, C 225, Lab VII-IX Th
—16, Rec VI F, C 111, Lab VII-IX F
Lect VIII MWThF, GorC 10 (StP Campus) O'Connor
—17, Rec V T, C 315, Lab VII-IX T
—18, Rec V T, C 111, Lab VII-IX T
—19, Rec V T, C 115, Lab VII-IX T
—20, Rec VI T, C 111, Lab VII-IX T
—21, Rec VI T, C 115, Lab VII-IX T
—22, Rec VI T, C 325, Lab VII-IX T
—23, Rec VI T, FraH 101, Lab VII-IX T

6 **Prins of Solution Chemistry** (4 cr; prereq 5 or 15 or 25)
—1, Lect IV MWF, SciB 375, Britton
Lab VI-IX M
—2, Lect IV MWF, SciB 375, Britton
Lab VI-IX W
—3, Lect IV MWF, SciB 375, Britton
Lab VI-IX F
—4, Lect VI MWF, SciB 325, Britton
Lab VI-IX T
—5, Lect VI MWF, SciB 325, Britton
Lab VI-IX Th

Inorganic Chemistry (InCh)

98 Senior Thesis (ar cr; prereq 4th yr)
104 Inorganic Chemistry II (3 cr; prereq 103 or ♯)
III MWF, C 225, Reynolds
111 Silicon, Related Elements (3 cr; prereq OrCh 62)
VII MWF, C 315, Johnson
122 Adv Inorganic Chemistry Lab (2 cr; prereq AnCh 46, 47, InCh 103 or ♯)
Lect I T, C 225, Tobias, lab ar
136 Seminar: Modern Probs (1 cr; prereq InCh 103 or ♯)
IV Th, C 225, Henneike
205 Adv Inorganic Chemistry III: Survey of Chemistry of Transition Metals (3 cr; prereq 204 or ♯)
III MWF, C 315, 1 hr ar, Henneike
260 General Survey (1 cr)
303 Research (ar cr)

Organic Chemistry (OrCh)

16 **Carbon Compounds** (4 cr; prereq GeCh 5)
I MWThF, SciB 125, Koelsch
17 **Carbon Compounds Lab** (1 cr, §16; prereq 16 or ¶) Fenton
Lab VII-IX M, C 390
62 **Elem Organic Chemistry** (5 cr; prereq 61 or 41)
Lect IV MTWF, SciB 325, Borch
Lab Conf IV Th, SciB 325
—1, Lab VI-IX M, C 390
—2, Lab VI-IX T, C 390
—3, Lab VI-IX W, C 390
—4, Lab I-IV Th, C 390
—5, Lab VI-IX Th, C 390
Lect II MWThF, SciB 325, Koelsch
Lab Conf II T, SciB 325
—6, Lab VI-IX M, C 390
—7, Lab VI-IX T, C 390
—8, Lab VI-IX W, C 390
—9, Lab VI-IX Th, C 390
—10, Lab VI-IX F, C 390
63 **Elem Organic Chemistry** (3 cr; prereq 42 or 62)
III MWThF, SciB 325, Parham
65 **Elem Lab** (4 cr; prereq 63 or ¶)
Lab Conf VI TTh, C 315, Leete
Lab VII-X TTh, C 390
98 **Senior Thesis** (ar cr; prereq 4th yr, ♯)
143 **Chemistry of Natural Products** (3 cr; prereq 63)
III TThS, C 325, Dodson
165 **Organic Qualitative Analysis** (4 cr, §65; prereq 63)
Lab Conf VI TTh, C 315, Leete
Lab VII-X TTh
203 Seminar (1 cr)
7:30-8:30 pm W, C 225
233 Theoretical Organic Chemistry (3 cr; prereq 232, PCh 103, calc or ♯)
II MWF, C 325, Kreevoy
240 Intro to Research (4 cr; prereq 65, 238 or ♯) Parham
250 Theoretical Organic Chemistry (3 cr; prereq 233 or ♯, PCh 103A, integ calc)
II TThS, C 115, Kreevoy
251 Theoretical Organic Chemistry (3 cr; prereq 238 or ♯)
I MWF, C 315, Garbisch
261 General Survey (1 cr)
303 Research (ar cr; prereq 238, 239, △)

Physical Chemistry (PCh)

93 **Special Topics** (2 cr; prereq 92)
IX MF, C 315, Bolton
98 **Senior Thesis** (ar cr; prereq 4th yr)
101A **Physical Chemistry** (4 cr; prereq 1 yr col chem, Phys 9 or 6 with △, Math 32 or 44)
IV MWFS, C 225, Overend
103A **Physical Chemistry** (4 cr; prereq 101A)
IV MWFS, C 325, Leonhardt
104A **Physical Chemistry** (4 cr; prereq 101A)
IV MWFS, SciB 175, Moscowitz
105A **Laboratory** (1-3 cr; prereq 101 or 102 or 101A or 108)
Lect V M, C 225, Bolton
—1, Lab VI-VIII MW, C 190
—2, Lab VI-VIII TTh, C 190
—3, Lab II-IV TTh, C 190
105B **Laboratory** (1-3 cr; prereq 101 or 102 or 101A or 102A or 108)
Lect V M, C 225, Bolton
—1, Lab VI-VIII MW, C 190
—2, Lab VI-VIII TTh, C 190
—3, Lab II-IV TTh, C 190

106A Laboratory (1-3 cr; prereq 105A)
Lect V M, C 225, Bolton
—1, Lab VI-VIII MW, C 190
—2, Lab VI-VIII MW, C 190
—3, Lab II-IV TTh, C 190

106B Laboratory (1-3 cr; prereq 105A)
Lect V M, C 225, Bolton
—1, Lab VI-VIII MW, C 190
—2, Lab VI-VIII TTh, C 190
—3, Lab II-IV TTh, C 190

113 Quantum Mechanics (3 cr; prereq 112)
III TThS, C 111, Wertz

116 Physical Chemistry (4 cr; prereq 115)
IV MWFS, C 115, Lumry

117 Fundamentals of Reaction Kinetics (3 cr; prereq 103 or 103H or 103A)
IV MWF, C 315, Livingston

206 Quantum Mechanics (4 cr; prereq 205)
III TThS, C 115, Mead

217 Physical Methods: Biopolymer Research (3 cr, §MdBc 218; prereq 103 or 103H, ♯) Lourien, Lumry, Rosenberg

252 Seminar: Physical Chemistry (1 cr)
5:15 M, C 225

255 Seminar: Molecular Spectroscopy (ar cr)
II TTh, VH 1, Overend

263 General Survey (1 cr)

267 Seminar: Magnetochemistry (ar cr)
VII F, ForH 261, Bolton, Wertz

303 Research (ar cr)

CIVIL ENGINEERING

Civil Engineering (CE)

1 Laboratory (1 cr...rec 2nd yr)
VII-VIII M, ME 18

52 Highways, Pavements (3 cr; prereq 51)
—1, Lect V M, Ex 193, V Th, Arch 130
—2, Lect V T, Ex 193, V Th, Arch 130
—1, Lab VII-IX M, Ex 278
—2, Lab VII-IX T, Ex 278
—3, Lab VII-IX W, Ex 278
—4, Lab VII-IX Th, Ex 278
—5, Lab VII-IX F, Ex 278

53 Elements of Soil Mechanics (3 cr; prereq 3rd yr)
Lect III TTh, Ex 265
—1, Lab VII-IX T, Ex 154
—2, Lab VII-IX Th, Ex 154

64 Engineering Surveys (4 cr; prereq 61)
Lect II MWF, Ex 193
—1, Lab VI-IX M, Ex 265
—2, Lab VI-IX T, Ex 265
—3, Lab VI-IX W, Ex 265
—4, Lab VI-IX F, Ex 265

80 Elem Structural Design: Concrete (3 cr; prereq 79)
III MWF, Arch 30

83 Elem Structural Design (4 cr; prereq 82)
Lect IV MTWF, Ex 193
Lab IV Th, Ex 193

112 Aerial Surveying, Photogrammetry (3 cr; prereq 62 or ♯)
III MWF, Ex 265

121 Applications of Linear Programming (3 cr; prereq Math 32)
II MWF, Ex 25

125 Computer Applications (3 cr; prereq 64, 83, 160A or ♯)
Lect III TTh, V T, Ex 25, lab ar

136 Adv Topics: Structural Analysis (3 cr; prereq 141A)
II MWF, Ex 265

143 Design of Shell Structures (3 cr; prereq 142A)
IV MWF, Ex 25

146 Concrete, Concrete Materials (3 cr; prereq 51)
Lect II TTh, Ex 193
—1, Lab VI-IX M, Ex 93
—2, Lab VI-IX Th, Ex 93

147 Foundations (3 cr; prereq 81, 53, or ♯)
VI MWF, Ex 193

152 Highway Design (3 cr; prereq 52)
I MWF, Ex 25

161 Hydrology (3 cr; prereq 160A or ¶ or ♯)
Lect III TTh, Ex 193
—1, Lab VII-IX M, Ex 138A
—2, Lab VII-IX Th, Ex 138A

164 Water Conservation (3 cr; prereq 161 or ♯)
7:45-9:00 TTh, Ex 25

166 Water Power (3 cr; prereq 161)
Lect VI TTh, Ex 193
Lab VII-IX T, Ex 193

170 Water Supply (3 cr; prereq 160A or ♯)
Lect I MWF, Ex 265
—1, Lab VII-IX W, Ex 25
—2, Lab VII-IX F, Ex 25

171 Sewerage, Waste Water Treatment (3 cr; prereq 161, 170 or ♯)
Lect I MWF, Ex 193
—1, Lab VII-IX T, Ex 25
—2, Lab VII-IX Th, Ex 265

175 Industrial Waste Disposal (3 cr; prereq 174 or grad)
II MWF, Ex 250

178 Seminar: Sanitary Engineering (1 cr; prereq 171 or grad)

180 Solid Waste Disposal Probs (3 cr; prereq 170, 171)
IV MWF, Ex 250

182 **Chemical, Biological Aspects of Sanitary Engr II** (3 cr; prereq 181 or ♯)
III MWF, Ex 250

228 Approximate Methods of Structural Analysis III (3 cr; prereq 227 or ♯)
III MWF, Ex 25

236 Shell Structures (3 cr; prereq 83)
V MWF, AE 21

245 Structural Design for Dynamic Loads (3 cr; prereq 244 or ♯)

251 Adv Soil Mechanics Lab (3 cr; prereq 159 or ¶)
VI-IX MF, Ex 180

252 Adv Soil Mechanics Lab (3 cr; prereq 251)
VI-IX MF, Ex 180

262 Waste Water Plant Design (3-5 cr; prereq 174)

280 Research (3-5 cr; prereq ♯)

281 Research (3-5 cr; prereq 280)

282 Research (3-5 cr; prereq 281)

Hydromechanics (Hydr)

101 **Fluid Mechanics** (3 cr, §Aero 100A; prereq MM 35, Math 31, ¶Hydr 104 or MM 36 or ♯)
—1, III MWF, Ex 193
—2, VI MWF, Ex 25

104 **Fluid Mechanics Lab** (1 cr; prereq 101 or 103 or ChEn 101 or ¶)
—1, VIII-IX M, Ex 138
—2, II-III T, Ex 138
—3, VIII-IX T, Ex 138
—4, VIII-IX W, Ex 138
—5, II-III Th, Ex 138
—6, VIII-IX Th, Ex 138

163 **Groundwater Hydraulics** (3 cr; prereq CE 161 or ♯)
I MWF, ME 18

186 **Adv Hydraulic Probs** (2 cr; prereq 185)

187 **Interm Fluid Mechanics** (3 cr; prereq 101 or Aero 100A with ♯)
VII MWF, Ex 193

189 **Incompressible Boundary Layer Flow** (3 cr, §Aero 101A; prereq 187 or ♯)
1:45-3:00 TTh, ME 18

191 **Mechanics of Similitude, Dimensional Analysis** (3 cr; prereq 101 or ♯)
IV TTh, V Th, Ex 25

194 **Adv Hydraulics Lab** (2 cr; prereq 101 or 103, 104)

195 **Adv Hydraulics Lab** (2 cr; prereq 194)

196 **Adv Hydraulics Lab** (2 cr; prereq 195)

295 Hydrodynamics of the Boundary Layer (3 cr; prereq 294)
7:50-9:00 TTh, Ex 193

CHEMICAL ENGINEERING (ChEn)

103 **Principles** (5 cr; prereq 102)
Lect II TThS, ChE 240, Keller
—1, Rec I MWF, ChE 158
—2, Rec II MWF, ChE 154
—3, Rec V MWF, ChE 154
—4, Rec VI MWF, ChE 154

113 **Laboratory** (2 cr; prereq 112)
Conf V T, MinMet 116, Fredrickson
—1, Lab VI-IX M, ChE 3rd floor
—2, Lab VI-IX T, ChE 3rd floor
—3, Lab VI-IX Th, ChE 3rd floor
—4, Lab VI-IX F, ChE 3rd floor

117 **Process Evaluation, Design** (3 cr; prereq 116)
III-IV TTh, ChE 50, Madden

120 **Thermodynamics** (3 cr; prereq 119)
Lect I TTh, ChE 240, Davis
—1, Rec II MW, ChE 54
—2, Rec V MW, ChE 158
—3, Rec V MW, ChE 162
—4, Rec VI MW, ChE 150

154 **Problems** (ar cr)

155 **Problems** (ar cr)

156 **Problems** (3 cr)
III MWF, ChE 150, Keller

163 **Nuclear Reactor Design** (3 cr; prereq 162)
I MWF, ChE 154, Isbin

173 **Adv Process Control** (3 cr; prereq 172)
IV MWF, ChE 150, Ceaglske

203 Seminar (1 cr)
VI TTh, ChE 240, Keller, Schmidt

210 Physical Rate Processes, Transfer Operations (3 cr; prereq 209)
VII MWF, ChE 150, Fredrickson

213 Molecular Theory of Transport Processes (3 cr; prereq 212)
VI MWF, ChE 162, Dahler

216 Adv Mathematics for Chemical Engineers, Chemists (3 cr; prereq 215)
I-II TTh, ChE 54, Amundson

218 Adv Topics (3 cr)
VIII MWF, ChE 50, Aris

220 Adv Thermodynamics (3 cr; prereq 219)
VII MWF, ChE 50, Davis

223 Chemical Rate Processes, Reactor Design Prin (3 cr; prereq 222)
V MWF, ChE 150, Schmidt

226 Fluid Mechanics, Related Topics (3 cr; prereq 225)
VII-VIII TTh, ChE 50, Scriven

227 Fluid Mechanics, Related Topics (3 cr; prereq 226)
I MWF, ChE 162, Fredrickson

EARTH SCIENCES

Geology and Geophysics (Geo)

1 **Physical Geology** (5 cr, HS phys, chem rec)
—1, Lect V MWF, Bu 120, **CCTV,** Matsch, Rapp
—2, Lect V MWF, Bu 123, **CCTV,** Matsch, Rapp
—3, Lect V MWF, VH 309, **CCTV,** Matsch, Rapp
—4, Lect V MWF, Arch 60, **CCTV,** Matsch, Rapp
—5, Lect V MWF, Owre 113, **CCTV,** Matsch, Rapp
—6, Lect V MWF, ForH 115, **CCTV,** Matsch, Rapp
—7, Lect V MWF, GorC 12 **(StP Campus) CCTV,** Craddock
—1, Rec V T, P 110
—2, Rec VI T, P 110
—3, Rec VII T, P 110
—4, Rec IV Th, P 110
—5, Rec V Th, P 110
—6, Rec VI Th, P 110
—1, Lab I-II M, ForH 180
—2, Lab III-IV M, ForH 180
—3, Lab VI-VII M, ForH 180
—4, Lab I-II T, ForH 180
—5, Lab III-IV T, ForH 180
—6, Lab V-VI T, ForH 180
—7, Lab VII-VIII T, ForH 180
—8, Lab I-II W, ForH 180
—9, Lab III-IV W, ForH 180
—10, Lab VI-VII W, ForH 180
—11, Lab I-II Th, ForH 180
—12, Lab III-IV Th, ForH 180
—13, Lab V-VI Th, ForH 180
—14, Lab VII-VIII Th, ForH 180

2 **Historical Geology** (4 cr; prereq 1 or 11)
—1, Lect V MWF, AE 327, **CCTV,** Sloan
—2, Lect V MWF, Arch 15, **CCTV,** Sloan
—3, Lect V MWF, Arch 45, **CCTV,** Sloan
—4, Lect V MWF, VH 306, **CCTV,** Sloan
—5, Lect V MWF, VH 307, **CCTV,** Sloan
—6, Lect VI MWF, CB(W) 150, **CCTV,** Sloan
—7, Lect VI MWF, AgEng 105 **(StP Campus) CCTV,** Sloan
—1, Lab III-IV M, ForH 85
—2, Lab VI-VII M, ForH 85
—3, Lab VIII-IX M, ForH 85
—4, Lab I-II T, ForH 85
—5, Lab V-VI T, ForH 85
—6, Lab III-IV W, ForH 85
—7, Lab VI-VII W, ForH 85
—8, Lab VIII-IX W, ForH 85
—9, Lab I-II Th, ForH 85
—10, Lab VI-VII Th, ForH 85

62 **Introductory Mineralogy** (5 cr; prereq 1 or 11, 1 qtr col chem, Math 15 or ♯)
Lect III MWF, P 110, Rapp
—1, Lab V-VI MWF, P 100
—2, Lab VII-VIII TThF, P 100

99 Senior Research (3 cr; prereq sr geo, ♯)

103 Problems (1-6 cr; prereq ♯)

105 Intro to Paleontology (5 cr; prereq 2 or 22 or ♯)
Lect VII MWF, P 110, Sloan, lab ar

111 Stratigraphy (3 cr; prereq 110) Swain

115 Geomorphology (4 cr; prereq 2 or 22, Math 10 or 15 or ♯...62, Math 22A rec)
Lect II MWF, P 110, Hooke
Lab VIII-IX W, P 125

126 Sedimentary Petrology (4 cr; prereq 64 or 110 or ♯)
Lect I TThF, P 105, Graf, lab ar

142 **Mineral Systems III** (4 cr; prereq 141, PCh 102 or 108, Math 31)
Lect I MWF, P 110, Grant, Phinney
Rec I-II T, P 200
—1, Lab VI-VII MW, P 200
—2, Lab VI-VII TTh, P 200

147 Metamorphic Petrology (3 cr; prereq 146)
III MWF, P 207C, Grant, Phinney

156 Mineral Deposits (3 cr; prereq 155 or ♯)
II MWF, P 125, Hall

161 Single Crystal X-ray Diffraction (2 cr; prereq 160 or ♯)
II TTh, P 110, Zoltai, lab ar

162 **Mineralogy** (4 cr, §62; prereq 1 or 11 or ♯, 1 term col chem, Math 15, not open to geo, min, met maj, open to AFHE, post grad educ)
Lect III MWF, P 110, Rapp
—1, Lab V-VII MWF, P 100
—2, Lab VII-VIII TThF, P 100

163 Electron Microprobe Analysis (2 cr; prereq 160, PCh 103 or Phys 110 or ♯) Weiblen

172 Intro to Exploration Geophysics (3 cr; prereq 2 or 22, Phys 9, 14 or 23)
III MWF, P 125, Mooney

220 Geotectonics (3 cr; prereq 120 or ♯) Craddock

ELECTRICAL ENGINEERING (EE)

30 **Circuit Analysis** (3 cr, §61-62; prereq Phys 14 or 23 or ¶, Math 26A or 26B or 31 or ¶)
I MWF, ForH 155

30A Laboratory (1 cr; prereq ¶30, 31)
(Lab sec assigned in EE 121 2nd day of class)

31 Circuit Analysis (3 cr, §61-62; prereq 30)
—1, III MWF, Arch 55
—2, V MWF, Arch 50
—3, VII MWF, Arch 135

31A Laboratory (1 cr; prereq 30A)
(Lab sec assigned in EE 118 2nd day of class)

64 Electronics I (4 cr, §104-105; prereq 30-31 or ¶, Phys 50)
Lect II MWF, Arch 145
—1, Rec VIII-IX W, ME 106
—2, Rec VII-VIII Th, ME 106

75 Electromagnetic Fields (4 cr; prereq 74)
I MWF, AE 225
Rec III-IV T, ME 106

76 Electromagnetic Fields (4 cr; prereq 75)
Lect 9:45-11:00 TTh, Arch 35
—1, Rec V-VI Th, ME 106
—2, Rec VII-VIII Th, ME 208
—3, Rec VI-VII T, ME 106
Lect III MWF, Arch 50
—4, Rec VIII-IX M, ME 208
—5, Rec I-II Th, ME 106
—6, Rec III-IV Th, ME 106
—7, Rec VIII-IX F, ME 106

84 Jr Electrical Engineering Lab (2 cr; prereq ¶64-65, Engl 85A-B)
Lect V Th, ME 4
—1, Lab VII-IX M, EE 210
—2, Lab VII-IX T, EE 210
—3, Lab VI-VIII Th, EE 210

86 Jr Electrical Engineering Lab (2 cr; prereq 85, ¶76, 107, Engl 85C)
Lect V T, ME 4
—1, Lab VII-IX M, EE 205
—2, Lab VII-IX M, EE 216
—3, Lab I-III T, EE 205
—4, Lab VII-IX T, EE 205
—5, Lab VII-IX T, EE 216
—6, Lab VII-IX W, EE 205
—7, Lab VII-IX W, EE 216
—8, Lab I-III Th, EE 205
—9, Lab VI-VIII Th, EE 205
—10, Lab VII-IX F, EE 205

99C Special Investigations (ar cr; prereq 99B)

107 Linear System Analysis (3 cr; prereq 31, Math 60A)
—1, 8:15-9:30 TTh, Arch 50
—2, IV MWF, Arch 50

119 Electrical Engineering Materials (3 cr; prereq 76, Phys 51, Stat 90, ME 30)
—1, VII MWF, Arch 50
—2, 8:15-9:30 TTh, Arch 35

127B Network Synthesis (4 cr; prereq 127A)
Lect VII MWF, AE 225, lab ar

128B Communications (4 cr; prereq 128A)
Lect II MWF, Arch 45, lab ar

129B Control Systems (4 cr; prereq 129A)
Lect IV MWF, Arch 40, lab ar

130B Applications of Electromagnetic Theory (4 cr; prereq 130A)
Lect III MWF, Arch 140, lab ar

131B Applied Electronics II (4 cr; prereq 118)
Lect I MWF, Arch 50, lab ar

134B Direct Energy Conversion (4 cr; prereq 134A)
Lect 8:15-9:30 Th, Arch 45, lab ar

135B Prin of Computer Engineering (4 cr; prereq 135A)
Lect 9:45-11:00 TTh, ME 221, lab ar

138B Electric Power Systems (4 cr; prereq 138A)
Lect 11:15-12:30 TTh, Arch 15, lab ar

141B Physical Electronics (4 cr; prereq 141A)
Lect V MWF, Arch 140, lab ar

152 Statistical-Mechanical Methods (3 cr; prereq 150, ♯)
3:45-5:00 MW, Arch 40

169 Electromagnetic Theory, Applications (3 cr; prereq 168)
Lect IV TTh, AE 209, lab ar

172 Linear Network Theory (3 cr; prereq 171)
12:45-2:00 TTh, AE 225

173C Semiconductor Properties, Devices (3 cr; prereq 173B)
2:15-3:30 MW, Arch 20

180 Nonlinear Circuit Analysis (3 cr; prereq 179)
2:15-3:30 TTh, Arch 20

186C Communications Theory (3 cr; prereq 186B)
II MWF, ME 102

190C Digital Computer Systems (3 cr; prereq 190B)
9:45-11:00 TTh, ME 102

196 Control Theory (3 cr; prereq 195)
3:45-5:00 MW, Arch 20

200B Solid State Physics (3 cr, §Phys 231B; prereq 200A)
VI MWF, Ph 145

244 Plasma Physics (3 cr; prereq 243)
4:45-6:00 M, 4:15-5:30 TF, E 106

250C Quantum Electronics (3 cr; prereq 250B)
11:00-12:30 TTh, EE 115

251C Properties of Semiconductors (3 cr; prereq 251B)
3:30-4:45 MW, Arch 55

263C Seminar: Control Theory (ar cr; prereq 263B)
3:15-5:15 Th, EE 209

264C Seminar: Surface Physics (ar cr; prereq 264B)

265C Seminar: System Theory (ar cr; prereq 265B)
12:00-2:00 T, EE 209

268 Statistical Theory of Communication (3 cr; prereq 267)
V MWF, EE 209

297C Nonlinear Systems (3 cr; prereq 297B)
IV-V T, IV Th, E 203

MATHEMATICS (Math)

Z Preparatory Mathematics (no cr)
—1, I MTWThF, E 4
—2, II MTWThF, E 4
—3, III MTWThF, E 4
—4, IV MTWThF, E 4
—5, V MTWThF, E 4
—6, VI MTWThF, E 4
—7, VII MTWThF, E 4
—8, VIII MTWThF, E 4

T Trigonometry (3 cr; prereq plane geom, HS higher alg, math placement score, ¶10)
—1, I MWF, Ph 236A
—2, I MWF, MurH 308
—3, II MWF, Z 313
—4, III MWF, MurH 420
—5, IV MWF, MurH 308
—6, V MWF, Ph 143
—7, V MWF, MurH 302
—8, V MWF, Ph 131
—9, VIII MWF, Ph 236A
—10, VIII MWF, MurH 302
—11, IV MWF, GH 202 (StP Campus)

5A Foundations of Arithmetic (3 cr, 0 cr for CLA students; prereq elem educ, 1 yr elem alg, 1 yr HS geom or △)
—1, II MWF, Arch 10
—2, VI MWF, Arch 50
—3, 4:15-5:30 MW, Arch 10

5B Foundations of Arithmetic (3 cr, cr towards degree for elem ed students only; prereq 5A)
—1, II MWF, ForH 55
—2, IV MWF, ChE 240
—3, V MWF, ChE 240
—4, VII MWF, MMA 125

10 College Algebra, Analytic Geometry (5 cr, §10A, 15; prereq HS higher alg, math placement score)
—1, I MTWThF, ForH 55
—2, II MTWThF, E 226
—3, III MTWThF, E 226
—4, IV MTWThF, CB(W) 240
—5, V MTWThF, E 226
—6, VI MTWThF, E 226
—7, VI MTWThF, E 315
—8, I MTWThF, Hr 102 (StP Campus)
—9, II MTWThF, GH 211 (StP Campus)
—10, III MTWThF, GH 202 (StP Campus)
—11, IV MTWThF, GorC 12 (StP Campus)

10A Algebra, Analytic Geometry, Elem Functions (5 cr, §10, 15, 21A; prereq HS higher alg, T or trig, placement score)
—1, I MTWThF, E 226
—2, II MTWThF, E 315
—3, II MTWThF, E 320
—4, III MTWThF, E 320
—5, III MTWThF, E 315
—6, IV MTWThF, E 315
—7, V MTWThF, ForH 55
—8, VI MTWThF, E 320
—9, VI MTWThF, E 340
—10, VII MTWThF, E 320
—11, VII MTWThF, E 340
—12, VIII MTWThF, E 340

14 Laboratory (1 cr; prereq 2nd yr)
VI-VII T, E 227

15 College Algebra (5 cr, §10, 10A, 21A; prereq HS higher alg, T or HS trig, math placement score)
—1, I MTWThF, E 340
—2, III MTWThF, E 340
—3, V MTWThF, E 340
—4, VI MTWThF, E 303
—5, VII MTWThF, E 315
—6, VIII MTWThF, E 315

20 Investment (5 cr; prereq 10 or 15)
—1, I MTWThF, E 315
—2, I MTWThF, E 303

21A Analysis I: Algebra, Trigonometry, Analytic Geometry (5 cr; prereq 12 or 4 yrs HS math including trig, primarily for IT students)
—1, IV MTWThF, E 303
—2, VI MTWThF, E 302

22A Analysis II: Analytic Geometry, Calculus (5 cr; prereq 21A, primarily for IT students)
—1, I MTWThF, E 302
—2, I MTWThF, Ph 131
—3, III MTWThF, ForH 55

—4, IV MTWThF, Ph 131
—5, IV MTWThF, MH 213
—6, V MTWThF, Z 211
—7, VII MTWThF, Owre 12

23A Analysis III: Analytic Geometry, Calculus (5 cr; prereq 22A)
—1, I MTWThF, E 217
—2, II MWF, Arch 50, II TTh, E 229
—3, II MWF, Arch 50, II TTh, E 302
—4, II MWF, Arch 50, II TTh, E 330
—5, II MWF, Arch 50, II TTh, ChE 154
—6, III MWF, Arch 5, III TTh, ChE 150
—7, III MWF, Arch 5, III TTh, ChE 240
—8, III MWF, Arch 5, III TTh, ForH 150
—9, III MWF, Arch 5, III TTh, C 225
—10, IV MTWThF, E 227
—11, V MWF, Arch 35, V TTh, ChE 150
—12, V MWF, Arch 35, V TTh, E 330
—13, V MWF, Arch 35, V TTh, E 320
—14, V MWF, Arch 35, V TTh, E 302
—15, VI MTWThF, Arch 35
—16, VII MWF, Arch 35, VII TTh, AH 150
—17, VII MWF, Arch 35, VII TTh, Ph 131
—18, VII MWF, Arch 35, VII TTh, Ph 133
—19, VII MWF, Arch 35, VII TTh, Ph 143
—20, VII MTWThF, E 226

23H Honors Course: Calculus III—Calculus, Analytic Geometry (5 cr; prereq 22H and/or ♯)
III MTWThF, E 227

30 Fortran Survey, Orientation (1 cr; prereq 15 or 21)
IX Th, Arch 35

31 Calculus IV: Calculus, Analytic Geometry (5 cr; prereq 23)
—1, I MTWThF, E 229
—2, V MTWThF, E 229
—3, VII MTWThF, E 229
—4, VII MTWThF, E 302

32 Calculus V: Calculus, Linear Algebra, Differential Equations (5 cr; prereq 31)
—1, II MTWThF, E 303
—2, III MTWThF, E 303
—3, IV MTWThF, E 340
—4, V MTWThF, E 315
—5, VI MTWThF, E 217

33 Calculus VI: Vector Calculus, Differential Equations (5 cr; prereq 32)
—1, I MWF, Arch 5, I TTh, ChE 162
—2, I MWF, Arch 5, I TTh, ME 102
—3, I MWF, Arch 5, I TTh, ME 208
—4, I MWF, Arch 5, I TTh, ME 221
—5, II MTWThF, E 227
—6, III MWF, Arch 35, III TTh, Arch 50
—7, III MWF, Arch 35, III TTh, VH 113
—8, III MWF, Arch 35, III TTh, P 110
—9, III MWF, Arch 35, III TTh, Ph 133
—10, V MTWThF, E 303
—11, VII MTWThF, E 217

33H Honors Course: Calculus VI (5 cr; prereq 32H)
IV MTWThF, E 226

40A Calculus (5 cr, §22A, 40A, 42; prereq 15 or 10, T or HS trig)
—1, I MTWThF, E 320
—2, I MTWThF, E 215
—3, II MTWThF, E 340
—4, II MTWThF, E 215
—5, IV MTWThF, E 215
—6, V MTWThF, Arch 5
—7, VI MTWThF, E 215
—8, VI MTWThF, E 104
—9, VII MTWThF, E 215
—10, VII MTWThF, E 303

42 Analytic Geometry, Calculus I (5 cr, §22A, 40 or 40A; prereq 10, 10A or 15, T or HS trig)
—1, I MTWThF, E 203
—2, I MTWThF, E 106
—3, III MTWThF, Ph 131
—4, III MTWThF, E 229
—5, VI MTWThF, E 106
—6, VII MTWThF, E 106
—7, VII MTWThF, E 203
—8, VIII MTWThF, E 226

43 Analytic Geometry, Calculus II (5 cr; prereq 42, 40 or 40A with grade A or B)
—1, I MTWThF, E 104
—2, I MTWThF, VH 1
—3, II MTWThF, C 225
—4, III MTWThF, E 203
—5, III MTWThF, E 215
—6, IV MTWThF, ForH 55
—7, IV MTWThF, VH 1
—8, V MTWThF, VH 301
—9, V MTWThF, E 215
—10, VI MTWThF, E 330
—11, VI MTWThF, Arch 5
—12, VII MTWThF, E 104
—13, VII MTWThF, E 330
—14, VIII MTWThF, E 215
—15, VIII MTWThF, E 302
—16, II MTWThF, GH 202 **(StP Campus)**

43H Honors Course: Analytic Geometry, Calculus II (2 cr; prereq 42H)
II TTh, ForH 175

44 Analytic Geometry, Calculus III (5 cr; prereq 43)
—1, I MTWThF, ForH 175
—2, I MTWThF, E 227
—3, III MTWThF, E 104

—4, V MTWThF, E 104
—5, VI MTWThF, E 203
—6, VII MTWThF, ChE 240

55 Interm Calculus (3 cr; prereq 44)
—1, III MWF, ChE 240
—2, V MWF, Arch 20
—3, VI MWF, Ph 236A
—4, VII MWF, VH 2

60 Synthetic Metric Geometry (3 cr; prereq 42)
—1, II MWF, E 330
—2, IV MWF, Ph 145

60A Operational Methods for Linear Systems (3 cr; prereq 32, primarily for EE students)
IV MWF, E 330

63 Linear Algebra (3 cr, §149; prereq 43)
—1, IV MWF, Arch 140
—2, VII MWF, Ph 131

65 Programming Modern Digital Computers (4 cr, §164-165-166; prereq 32 or ¶ or ♯)
—1, VI MWF, E 227
—2, VII MWF, E 227

66B The Groups of Plane Geometry (3 cr, §60, 80C; prereq 66A)
III MWF, ME 4, Guggenheimer

80C Foundations of Geometry (3 cr; prereq 60)
VII MWF, C 325, Fuhrken

104 Variational Probs (3 cr; prereq 148 or 150 or 153 or ♯)
VII MWF, VH 1

106 Differential Equations (3 cr; prereq 55)
—1, V MWF, E 227
—2, V MWF, E 330

108 Adv Calculus (3 cr; prereq 107)
—1, II MWF, E 229
—2, V MWF, E 203
—3, VII MWF, Arch 140

109 Theory of Numbers (3 cr; prereq 25A or 26B or 32 or 44)
—1, I MWF, Arch 140
—2, III MWF, Ph 236A

112C Mathematical Logic (3 cr; prereq 112B)
IV MWF, E 229, Rosenstein

117C Geometry (3 cr; prereq 32 or 44)
VI MWF, ChE 240, Pedoe

125B Critical Reasoning in Mathematical Analysis (3 cr; prereq 125A)
III MWF, E330, Locker

130C Intro to Analysis (3 cr; prereq 130B)
—1, I MWF, VH 301, Thompson
—2, II MWF, ForH 130, Wilde
—3, III MWF, VH 306, Brooks
—4, VII MWF, MurH 308, Joichi

131B Linear Algebra, Group Theory (3 cr, §142, 143, 149, 180; prereq 131A)
VII MWF, Z 211, Harper

131C Linear Algebra, Group Theory (3 cr, §142, 143, 149, 180; prereq 131B)
—1, IV MWF, ME 110, Pruitt
—2, VI MWF, VH 307, Fuhrken
—3, VI MWF, C 325, Gil de Lamadrid
—4, VII MWF, ME 110, S Gaal

134B Probability with Technological Applications (3 cr; prereq 133B)
VI MWF, MinMet 120, Kallianpur

135 Integral Equations (3 cr; prereq 26A or 27 or 32 or 106)
III MWF, AE 209

146 Fourier Series, Orthogonal Functions (3 cr; prereq 145)
VII MWF, AE 319, Riviere

147 Vector Analysis (3 cr; prereq 32 or 55)
—1, I MWF, MurH 302
—2, V MWF, E 106

148 Differential Equations (3 cr, §150; prereq 32 or 106)
V MWF, E 302

149 Determinants, Matrices (3 cr, §63 or 131A; prereq 32 or 55)
—1, I MWF, Arch 20
—2, III MWF, Arch 20
—3, III MWF, C 325
—4, IV MWF, Arch 135
—5, VII MWF, AH 150
—6, VIII MWF, E 104

150 Ordinary Differential Equations (3 cr, §148; prereq 32 or 106)
I MWF, E 330

151 Adv Calculus I (3 cr; prereq 32 or 55)
IV MWF, E 203

153 Adv Calculus II (3 cr; prereq 108 or 151)
—1, I MWF, ForH 160
—2, III MWF, MurH 302
—3, IV MWF, E 302
—4, V MWF, VH 1

159 Methods of Applied Mathematics (3 cr; prereq 158)
VII MWF, AH 350, Loud

166 Theory, Programming of Modern Digital Computers (3 cr, §65; prereq 165)
VI MWF, Ph 170, Stein

168B Applications of Complex Variables (3 cr; prereq 168A or ♯)
—1, IV MWF, E 104
—2, IV MWF, E 106
—3, VII MWF, Arch 25

169 Mathematical Theory of Fluid Flow (3 cr; prereq 147, 174, 168A or ♯)
III MWF, E 302

175 Elem Partial Differential Equations (3 cr, §167, 168; prereq 174)
—1, II MWF, E 106
—2, II MWF, MurH 302
—3, III MWF, ForH 359

—4, VII MWF, ME 4
—5, VIII MWF, E 106

178C Probability (3 cr; prereq 178B)
III-IV TTh, Arch 20, McCarthy

180 Group Theory (3 cr; prereq 143 or ♯)
IV MWF, Arch 20, Gaal

186 Numerical Analysis in Engineering (3 cr; prereq 184)
III MWF, Arch 45, Munro

190C Gen, Algebraic Topology (3 cr; prereq 190B)
—1, I MWF, ForH 150, Aeppli
—2, I MWF, ForH 359, Reich

199C Prob Course (3 cr; prereq ♯)
VIII MWF, E 203, Konhauser

202C Adv Logic (3 cr; prereq 202B)
VII MWF, Ph 236A, Pour-El

203C Topics: Logic (3 cr; prereq 203B)
V MWF, E 217, Engeler

204B Formal Languages, Automata (3 cr; prereq 204A)
VI MWF, C 115, Engeler

205C Gen Algebra (3 cr; prereq 205B)
—1, VI MWF, Arch 20, Kahn
—2, VII MWF, C 225, Sagle

209C Group Theory (3 cr; prereq 209B)
I MWF, MurH 311, Keller

221C Complex Analysis (3 cr; prereq 221B)
—1, II MWF, E 217, Sine
—2, III MWF, E 217, Kelingos
—3, IV MWF, E 217, Miracle

222C Real Analysis (3 cr; prereq 222B)
—1, II MWF, E 104, Argabright
—2, II MWF, E 203, Cameron
—3, VI MWF, ForH 170, S Gaal

228C Topics: Theory of Analytic Functions (3 cr; prereq 228B)
IV MWF, ForH 359, Storvick

229C Theory of Quasiconformal Mapping (3 cr; prereq 229B) Striebel

230C Topics: Several Complex Variables (3 prereq 230B)
VII MWF, MinMet 124, Aeppli

234C Ergodic Theory (3 cr; prereq 234B)
VII MWF, ForH 150, Chacon

235C Functional Analysis (3 cr; prereq 235B)
IV MWF, ForH 170, Rejto

236C Linear Spaces, Operator Theory (3 cr; prereq 236B)
VIII MWF, ForH 170, Kalisch

238C Banach Algebras, Harmonic Analysis (3 cr; prereq 238B)
II MWF, E 302, Richards

246C Topics: Point Set Topology (3 cr; prereq 246B)
V MWF, ForH 160, Slye

248C Homotopy Theory (3 cr; prereq 248B)
VIII MWF, ForH 175, Puppe

250C Riemannian Geometry (3 cr; prereq 250B)
VI MWF, ForH 359, Pohl

252C Lie Groups, Algebras (3 cr; prereq 252B)
VII-VIII MW, ForH 359, Guggenheimer

260C Theory of Probability (3 cr; prereq 260B)
VI MWF, ForH 160, Fristedt

261C Stochastic Processes (3 cr; prereq 261B)
VIII MWF, E 303, Jamison

266C Theory of Ordinary Differential Equations (3 cr; prereq 266B)
IV MWF, ForH 175, Harris

268C Topics: Differential, Difference Equations (3 cr; prereq 268B)
V MWF, ForH 175, Iwano

271C Partial Differential, Integral Equations of Applied Mathematics (3 cr; prereq 271B)
II MWF, ForH 175, Cannon

272C Theory of Partial Differential Equations (3 cr; prereq 272B)
VII MWF, ForH 160, Littman

273C Topics: Partial Differential Equations (3 cr; prereq 273B)
IV MWF, E 320, Aronson

283 Adv Numerical Analysis of Partial Differential Equations (3 cr; prereq 175, 186 or ♯)
VIII MWF, Leavitt

284C System Programming (3 cr; prereq 284B)
VIII MWF, E 320, Frankowski

286C Adv Methods of Applied Mathematics (3 cr; prereq 286B)
II-III TTh, ForH 160, Loud

296C Probs: Theoretical Physics (3 cr; prereq 296B)
V MWF, E 320, W Miller

MECHANICAL ENGINEERING

Engineering Graphics (EG)

1 Slide Rule (1 cr, 0 cr for IT students; prereq higher alg, trig or ♯)
—1, 7:15-8:00 W, Arch 10
—2, IV T, Arch 10

25 Engineering Graphics (4 cr; prereq ¶Math 21 or ♯)
—1, III MTWTh, Arch 10
Lab open hrs, ME 308
—2, III MTWF, Arch 10
Lab open hrs, ME 308
—3, V MTWTh, Arch 10

Lab open hrs, ME 308
—4, V MTWF, Arch 10
Lab open hrs, ME 308

25B **Engineering Graphics** (2 cr, †25A-B, §25; prereq 25A)
—1, VI TTh, Arch 10
Lab open hrs, ME 308
—2, VII TTh, Arch 10
Lab open hrs, ME 308
—3, VII MW, Arch 10
Lab open hrs, ME 308

26 **Graphical Computation** (2 cr; prereq Math 22)
Lect VI TTh, Arch 40
Lab open hrs, ME 308

27 **Graphical Communication, Analysis** (2 cr; prereq 25)
Lect II TTh, Arch 10
Lab open hrs, ME 308

120 **Adv Descriptive Geometry** (3 cr; prereq 27, Math 22 or ♯)

131 **Graphical Mathematics** (3 cr; prereq 26, Math 23 or ♯)

Industrial Engineering (IE)

100 **Industrial Engineering Analysis** (3 cr; prereq ME 99 or ♯)
I MWF, Arch 30

120 **Probability Models in Engineering, Operations Research** (3 cr; prereq ME 99)
III MWF, ME 106

130 **Intro to Operations Research** (4 cr; prereq ME 99)
IV MWThF, ME 102

134A **Mathematical Methods in Operations Analysis** (3 cr; prereq 133A)
II MWF, Arch 140

140 **Analysis of Production Processes** (3 cr; prereq 172)
IV MWF, ME 214

145 **Manufacturing Process Planning** (3 cr; prereq ME 170)
VI MWF, ME 321

170 **Production Planning, Control** (3 cr; prereq 100)
V MWF, ME 321

171 **Quality Control** (3 cr; prereq Stat 90 or ME 99 or ♯)
8:00-9:15 TTh, Arch 140

172 **Manufacturing Cost Analysis** (3 cr; prereq 100)
II MWF, ME 106

173 **Engineering Economic Analysis** (3 cr; prereq 100)
III MWF, Arch 20

196 **Applied Industrial Engineering** (3 cr; prereq 195)

199 **Design, Analysis of Experiments II** (3 cr; prereq 198 or ♯)
III MWF, ME 214

253 Adv Industrial Engineering (3 cr; prereq ♯)
3:30-5:00 WF, ME 208

263 Production Engineering (3-5 cr; prereq ♯)

273 Research (3-5 cr; prereq ♯)

Mechanical Engineering (ME)

21A **Analysis of Mechanical Engineering Systems** (4 cr; prereq MM 36)
Lect III MWF, ME 302
Lab V-VI Th, ME 302

22A **Analysis, Synthesis of Mechanism Systems** (4 cr; prereq 21A)
Lect I MWF, ME 110
—1, Lab VII-VIII M, ME 214
—2, Lab V-VI T, ME 214
—3, Lab V-VI Th, ME 214

24 **Optimum Design of Mechanical Elements** (3 cr; prereq MM 37)
Lect III TTh, ME 110
—1, Lab VII-IX Th, ME 214
—2, Lab VII-IX F, ME 214
—3, Lab VII-IX T, ME 214

30A **Thermodynamics** (4 cr; prereq Phys 23, Math 32)
III MWThF, Arch 40

31A **Thermodynamics** (4 cr; prereq 30A)
II MWThF, Arch 40

33 **Measurements Lab I** (2 cr; prereq ¶30A)
Lect V T, ME 321
—1, Lab VII-IX T, ME 352
—2, Lab VII-IX Th, ME 352

34 **Measurements Lab II** (2 cr; prereq 33)
Lect IV Th, ME 321
—1, Lab VII-IX Th, ME 370
—2, Lab VII-IX W, ME 370

35 **Measurements Lab III** (2 cr; prereq 34)
Lect IV T, ME 110
—1, Lab VII-IX M, ME 370
—2, Lab VII-IX T, ME 370
—3, Lab VII-IX W, ME 370
—4, Lab VII-IX Th, ME 370
—5, Lab VII-IX F, ME 370

90 **Industrial Assignment** (2 cr, †90-91-92-93; prereq regis co-op work-study prog)

91 **Industrial Assignment** (2 cr, †90-91-92-93; prereq 90)

92 **Industrial Assignment** (2 cr, †90-91-92-93; prereq 91)

93 **Industrial Assignment** (2 cr, †90-91-92-93; prereq 92)

99 Intro to Engineering Analysis (3 cr; prereq Math 23 or ♯)
—1, I MWF, ME 106
—2, III MWF, ME 110
—3, VI MWF, ME 106

125 Machine Design Lab (2 cr; prereq 24)
—1, Lect VI M, ME 110
Lab VII-IX M, ME 357
—2, Lect VI F, ME 110
Lab VII-IX F, ME 357

127 Friction, Lubrication (3 cr; prereq Hydr 101)
8:15-9:30 TTh, ME 351

129 Vibration Engineering (3 cr; prereq 22A)
I MWF, ME 351

133 Heat Transmission (3 cr; prereq 30A, Hydr 101, Aero 100A or ♯)
—1, II MWF, ME 208
—2, V MWF, Arch 40
—3, VI MWF, Arch 40

134 Thermodynamics of Fluid Flow (3 cr; prereq 31A, Hydr 101)
IV MWF, ME 321

136 Reactor Heat Transfer (3 cr; prereq 133)
9:45-11:00 TTh, ME 208

142 Vapor Cycle Power Systems (3 cr; prereq 31A)
I MWF, ME 208

143 Turbomachinery (3 cr; prereq 31A)
II MWF, ME 321

146A Intro to Combustion, Propulsion (4 cr; prereq 133 or ¶)
II TWThF, ME 302

149 Chemistry of Combustion (3 cr; prereq 148)
V MWF, ME 208

150 Internal Combustion Engines (3 cr; prereq 31A or ¶)
III MWF, ME 208

151 Adv Internal Combustion Engines (3 cr; prereq 150)
II MWF, ME 214

159 Power, Propulsion Lab (2 cr; prereq 31A, 34)
—1, VI-IX M, ME 480
—2, VI-IX F, ME 480

160A Thermal Environmental Engineering (4 cr; prereq 133)
III MTWF, ME 321

169 Psychrometrics, Air Conditioning Lab (2 cr; prereq 34, 160A)
—1, VI-IX M, ME 362
—2, VI-IX F, ME 362

170 Manufacturing Processes (4 cr; prereq MetE 56)
Lect V MWF, ME 106
—1, Lab VII-IX T
—2, Lab VII-IX Th
—3, Lab VII-IX F

192 Design (2 cr; prereq 4th yr engr status or ♯)
Lect VI W, ME 110
Lab VII-IX W, ME 325

193 Design (2 cr; prereq 4th yr engr status or ♯)
Lect VI W, ME 110
—1, Lab VII-IX W, ME 302
—2, Lab VII-IX W, ME 321
—3, Lab VII-IX W, ME 314
—4, Lab VII-IX W, ME 308

194 Adv Engr Prob (2-4 cr; prereq 4th yr ME maj, 2.5 GPA, △)

197 System Analysis, Control (3 cr; prereq 21A)
I MWF, ME 214

199 Intro to Feedback Control Systems (3 cr; prereq EE 31, Math 32)
IV MWF, ME 302

226 Adv Applied Dynamics (3 cr; prereq 225)

232 Adv Fluid Thermodynamics (3 cr; prereq 134, 230 or ♯)
I MWF, ME 321

235 Radiation (3 cr; prereq 234)
II MWF, ME 221

248 Atomization, Vaporization, Mixing (3 cr; prereq 31A)
III MWF, ME 102

255 Adv Rocket Propulsion (3 cr; prereq 155 or ♯)
VI MWF, ME 214

267 Adv Air Conditioning (3 cr; prereq 266 or ♯)
IV MWF, ME 208

272 Magnetohydrodynamics (3 cr; prereq 271)

282 Reverse Applications of Refrigeration: Heat Pump (3 cr; prereq 160A)

290 Research (ar cr; prereq △)

291 Research (ar cr; prereq 290)

292 Research (ar cr; prereq 291)

298 Feedback Control Systems (3 cr; prereq 297)

MINERAL AND METALLURGICAL ENGINEERING

Metallurgical Engineering (MetE)

56 Physical Metallurgy (3 cr; prereq 3rd yr)
—1, IV MWF, MinMet 120, Jerabek
—2, VII MWF, MinMet 116, Gupta

60 Physical Metallurgy (3 cr; prereq 3rd yr)
IV MWF, MinMet 116, Toth
92 Industrial Employment (2 cr; prereq ‡)
93 Industrial Employment (2 cr; prereq ‡)
103 Science of Materials (3 cr; prereq 102)
I MWF, MinMet 120, Toth
103A Science of Materials Lab (1 cr; prereq ¶103)
Lect VI Th, MinMet 124, Nicholson
Lab VII-IX Th, MinMet 410
103B Science of Materials Lab (2 cr; prereq MM 37)
Lect VI T, MinMet 124, Nicholson
Lab VII-IX T, MinMet 410
108 Process Metallurgy (3 cr; prereq 107)
II MWF, MinMet 124, Bitsianes
112 Mineral Dressing (3 cr; prereq 111)
Lect I TTh, MinMet 124, Looke
—1, Lab VI-VIII M, MinMet 22
—2, Lab VI-VIII T, MinMet 22
—3, Lab, Ar
114 Metallurgical Plant Engineering (3 cr; prereq 113)
V MWF, MinMet 120
123 Hydrometallurgy (3 cr; prereq 122)
III MWF, MinMet 120, Cooke
130 Techniques of Mineral Processing Research III (3 cr; prereq Phys 50 or ‡) Lawver
136 Unit Processes (3 cr; prereq 108)
IV MWF, MinMet 104, Bitsianes
143 Special Probs (ar cr; prereq 142) Bitsianes
155 Physical Metallurgy (3 cr; prereq 154 or ‡)
I MWF, MinMet 124, Nicholson
155A Physical Metallurgy Lab (1 cr; prereq ¶155)
Lect VI Th, MinMet 120, Nicholson
—1, Lab VII-IX T, MinMet 410
—2, Lab VII-IX Th, MinMet 410
161 Corrosion of Metals (2 cr; prereq 56, PCh 101 or 101H)
II TTh, MinMet 124, Nicholson
169 Analysis of Metallurgical Probs (3 cr; prereq 155 or ‡)
Lect IV TTh, MinMet 116, Jerabek
Lab VIII-IX W, MinMet 410
175 Imperfections in Metals (3 cr; prereq 174 or ‡)
9:45-11:00 TTh, MinMet 120, Gupta
182 Theory of Structure of Metals, Alloys (3 cr; prereq 103 or ‡)
II MWF, MinMet 120, Sivertsen
203 Research (ar cr) Bitsianes
212 Seminar (ar cr)
IV T, MinMet 120
220 Flotation Theory (3 cr)
VI MWF, MinMet 124

Mineral Engineering (MinE)

1 Mineral Engineering Lab (1 cr)
VII Th, MinMet 124
70 Geological Engineering I (3 cr; prereq Geo 1, Phys 23 or ‡)
V MWF, MinMet 116, Yardley
91 Industrial Employment (1-3 cr; prereq ‡)
92 Industrial Employment (1-3 cr; prereq ‡)
121 Mine, Petroleum Plant Engineering I (3 cr; prereq Phys 144 or ‡)
I MWF, MinMet 104, Dorenfeld
132 Rock Mechanics II (3 cr; prereq 131)
9:45-11:00 TTh, MinMet 104, Fairhurst
133 Rock Mechanics III (3 cr; prereq MM 37)
II MWF, MinMet 104, Fairhurst
142 Mineral Economics II (3 cr; prereq Geo 62 or ‡)
III MWF, MinMet 104, Pfleider
145 Mine Systems Analysis (4 cr; prereq 144)
VI-IX MWF, MinMet 223, Pfleider
153 Special Probs (ar cr; prereq 112)
162 Geological Engineering Analysis (3 cr; prereq 161)
VI-IX TTh, MinMet 223, Fairhurst, Yardley
173 Fluid Flow Through Porous Media III (2 cr; prereq 172 or ‡)
III TTh, MinMet 124, Lacabanne
185 Topics: Mineral Exploration (3 cr; prereq 4th yr, grad or ‡) Yardley
201 Seminar (ar cr)
203 Seminar (ar cr) Fairhurst, Pfleider
214 Research Probs (ar cr)
252 Adv Rock Mechanics II (3 cr; prereq 251)

PHYSICS AND ASTRONOMY

Astronomy (Ast)

11 Descriptive Astronomy (5 cr, §51)
—1, IV MTWF, Ph 150, Luyten
—2, V MTWTh, Ph 166, Kaufmanis
—3, VII MTWTh, Ph 166, Kaufmanis

Physics (Phys)

3 Physical Science (3 cr; prereq 1 or ‡)
—1, III MWF, Ph 150, Roll
—2, V MWF, Ph 150, Wall
—3, I MWF, DI 15 (StP Campus) Mantis

3A Physical Science Lab (1 cr; prereq 3 or ¶)
Lab sec assigned first 2 days of class

6 **Gen Physics** (5 cr; prereq 5)
Lab sec assigned first 2 days of class
IV MTWThF, Ph 166, Johnson

9 **Gen Physics** (5 cr; prereq 8)
Lab sec assigned first 2 days of class
II MTWThF, Ph 150, Freier

21 Gen Physics (4 cr; prereq ¶21A, Math 21 or 22A or 42 or ¶)
I MTWThF, Ph 133, Giese

21A Laboratory (1 cr; prereq ¶21)
Lab sec assigned first 2 days of class

22 **Gen Physics** (4 cr; prereq 21, ¶22A, Math 22 or 23A or 43 or ¶)
—1, I MTWThF, Ph 150, Courant
—2, III MTWThF, Ph 166, Brown
—3, IV MTWThF, Ph 133, Ruddick
—4, VI MTWThF, Ph 166, Moldover

22A Laboratory (1 cr; prereq ¶22)
Lab sec assigned first 2 days of class

51 **Interm Physics** (4 cr; prereq 50, Math 32 or 106 or ¶)
VI MTWThF, Ph 150, Lilley

51A Laboratory (1 cr; prereq ¶51)
Lab sec assigned first 2 days of class

51H Honors Course: Interm Physics (4 cr; prereq 50H, Math 32 or 106 or ¶)
II MTWThF, Ph 131, Hamermesh

52H Honors Course: Physics Lab (1 cr; prereq ¶50H)
Lab sec assigned first 2 days of class

102A Analytic Mechanics (3 cr; prereq 101A, other maj MM 138)
I-II TTh, Ph 210, Poppe

104 Mechanics, Electricity, Magnetism (4 cr; prereq 102)
I MTWF, Ph 145, Weil

105A Electric, Magnetic Fields (3 cr; prereq 104A)
III MWF, Ph 210, Tang

112 Modern Physics (3 cr; prereq 110 or ♯)
VI MWF, Ph 210, Marquit

113 Techniques of Nuclear Physics (3 cr; prereq 4th yr phys maj)
I MWF, Ph 143, Hobbie

122 **Experimental Atomic, Nuclear Physics** (3 cr; prereq 51 or ¶107 or ¶108, ♯)
—1, VI-IX TTh, Ph 250, Pepin
—2, VII-X MF, Ph 250, Dehnhard

125 Intro to Solid State Physics (3 cr; prereq 124 or ♯)
IV MWF, Ph 210, Weyhmann

133A Physical Optics Lab (1 cr; prereq ¶133)
Giese

148 **Application of Electronic Circuits** (4 cr; prereq 146 or ♯)
Lect II MWF, Ph 133, Blair
—1, Lab VII-IX M, Ph 225
—2, Lab VI-VIII T, Ph 225
—3, Lab VI-VIII Th, Ph 225
—4, Lab II-IV S, Ph 225

167 Meteorology II (3 cr; prereq 166, vec anal or ♯)
III-IV TTh, Ph 143, Mantis

171C Classical Physics (4 cr; prereq 171B, 104 or 102A, 105A, Math 153 or 108)
Lect II MWF, Ph 210, Cheston
Rec II T, Ph 145, Cheston

181C Quantum Mechanics (4 cr; prereq 181B, 110, Math 153 or 108)
III MTWF, Ph 145, Gasiorowicz

190 Intro to Elementary Particle Physics (3 cr; prereq 181B, ♯)
VII MWF, Ph 143, Courant, Gasiorowicz

198 Intro to Astrophysics (3 cr; prereq 110, 124 or ♯)
II MWF, Ph 236A, Ney

209B General Relativity (3 cr; prereq 209A)
II MWF, Ph 143, Kellogg

210C Seminar: Theoretical Physics (ar cr; prereq 210B)
VIII-IX F, Ph 435

213 Relativistic Quantum Field Theory (3 cr; prereq 212 or ♯)
VI-VII TTh, Ph 236A, Suura

216 Many-Body Theory (3 cr; prereq 211 or ♯)
III MWF, Ph 143, Bolsterli

220C Seminar: Nuclear Physics (ar cr; prereq 220B)
VII-VIII W, Ph 210

226 Nuclear Reactions, Scattering (3 cr; prereq 181C or ♯)
IV MWF, Ph 236A, Bayman

230C Seminar: Solid-State, Low-Temperature Physics (ar cr; prereq 230B)
VII-VIII F, Ph 145

231B Solid-State Physics (3 cr, §EE 200A-B; prereq 231A)
VI MWF, Ph 145, Zimmermann

238 Adv Topics: Solid-State, Low-Temperature Physics (ar cr)
III-IV TTh, Byckling

240C Seminar: Elem Particle Physics (ar cr; prereq 240B)
VIII-IX T, Ph 145

250C Seminar: Cosmic-Ray, Space Physics (ar cr; prereq 250B)
V Th, Ph 145
251B Cosmic-Ray, Space Physics (3 cr; prereq 251A)
VI MWF, Ph 143, Webber
260C Seminar: Mass Spectroscopy (ar cr; prereq 260B)
VIII-IX F, Ph 210
270C Seminar: Atmospheric Physics (ar cr; prereq 270B)
301A Research (ar cr)

COLLEGE OF VETERINARY MEDICINE

VETERINARY ANATOMY (VAna)

130 Neuroanatomy (3 cr; prereq 101, 151, ♯)
Lect VII W, VI M, VetS 257, Fletcher
Lab VIII-IX W, VII-VIII M, VetS 141
153 Microscopic Anatomy of Domestic Animals (5 cr; prereq 152)
Lect I TThF, VetS 257, Priedkalns, Weber
Lab II-IV T, II-IV Th, VetS 247
191 Special Studies (1-5 cr; prereq 151, ♯) Fletcher, Weber
251 Histological, Ultrahistological Techniques (3 cr; prereq 153, ♯) Weber

VETERINARY BACTERIOLOGY AND PUBLIC HEALTH (VBac)

53 Gen Microbiology (5 cr; prereq soph with C avg prereq courses or jr, 10 cr chem, 4 cr biol sci or ♯)
Lect VI MWF, HH 100, Kleven, Lindorfer
Lab VII-VIII MWF, VetS 325
101 Gen Bacteriology, Immunology (6 cr; prereq 10 cr zool, 13 cr chem, ♯)
Lect I MW, II F, VetS 257, Loken, Marquardt
Lab II-IV MW, III-IV F, VetS 325
127 Public Health (2 cr; prereq 126)
VI TTh, DI 15, Anderson, Diesch, J C Olson
128 Probs: Bacteriology, Public Health (ar cr; prereq 103, ♯) Anderson, Diesch, Lindorfer, Loken, Pomeroy
131 Poultry Diseases, Production (5 cr; prereq 103, VPaP 153, ♯)
I MWF, VetC 125, Pomeroy
201 Adv Poultry Diseases (ar cr; prereq 131, ♯) Barnes, Bergeland, Higbee, Nelson, Pomeroy
205 Adv Bacteriology (ar cr; prereq ♯) Anderson, Lindorfer, Loken, Pomeroy
211 Seminar: Bacteriology (1 cr; prereq ♯) Lindorfer

VETERINARY MEDICINE AND CLINICS (VMC)

52 Animal Hygiene (5 cr)
I MTWThF, MSh, Farnsworth, Sorensen
101 Physical Diagnosis (4 cr; prereq 2nd yr VMed)
Lect VI MWF, VetS 229, Low
—1, Lab VII-IX M, VetC 70, Little, Osborne
—2, Lab VII-IX W, VetC 70, Little, Low
104 Large Animal Medicine (5 cr; prereq 103)
I MTWThF, VetA 103, Johnson, Sorensen
112 Clinics (5 cr; prereq 111)
II-IV MTWThF, I-III S, VetC 70, 125, Low, others
116 Clinical Conference (1 cr; prereq 115)
IX W, VetC 125, Osborne
124 Clinics (5 cr; prereq 123)
II-IV MTWThF, I-III S, VetC 70, 125, Low, others
128 Clinical Conference (1 cr; prereq 127)
IX W, VetC 125, Osborne
137 Animal Diseases, Poisonous Plants (3 cr; prereq 104)
Lect VI MW, VetC 125, Johnson
Lab VII-IX M, AgBot 106, Kommedahl
201 Adv Medicine (ar cr; prereq 104, 131, ♯) Low, Mather, Sorensen
202 Adv Diagnosis, Therapeutics of Animal Diseases (ar cr; prereq 104, 131, ♯) Low, Mather, Sorensen
203 Seminar (ar cr; prereq ♯) Low, Mather, Sorensen
204 Medical Conference (ar cr; prereq 104, 131, ♯) Low, Mather, Sorensen

VETERINARY OBSTETRICS (VObs)

101 Obstetrics (4 cr; prereq VMC 101, ♯)
Lect VIII M, VI ThF, VetC 125, Schultz, Zemjanis
Lab VII-IX ThF, VetC 55, Schultz, Zemjanis

201 Adv Diagnostic Methods (3 cr; prereq 102)
II-IV MTWThFS, VetC 33, Schultz, Zemjanis

212 Adv Endocrinology of Reproduction (1 cr; prereq MdBc 101, VPP 109) Zemjanis, others

VETERINARY PATHOLOGY AND PARASITOLOGY (VPaP)

102 Parasitology (5 cr; prereq ♯)
Lect I MWThF, VetS 229, Griffiths
—1, Lab VII-IX W, VetS 225, Bemrick, Griffiths
—2, Lab VII-IX M, VetS 225, Griffiths, Schlotthauer

153 Special Pathology, Infectious Diseases of Animals (5 cr; prereq 152, ♯)
Lect II MWF, VetS 229, Johnson, others
Lab VI-VIII TTh, VetS 225, 229, Johnson, others

155 Clinical Pathology (1-3 cr; prereq 154 or △) Perman

157 Necropsy (ar cr; prereq 153 or ♯) Kurtz, others

158 Surgical Pathology (3 cr; prereq 157, △) Bergeland, others

159 Oncology (4 cr; prereq 151 or ♯) Barnes, Johnson, Perman

160 Diagnostic Pathology (5 cr; prereq 157, △, ♯) Bergeland, others

202 Seminar (1-2 cr; prereq 153, ♯) Barnes

240 Adv Parasitology (ar cr; prereq 102, ♯) Bemrick, Griffiths

241 Probs: Parasitology (ar cr; prereq 102, ♯) Griffiths

VETERINARY PHYSIOLOGY AND PHARMACOLOGY (VPP)

41 Systemic Mammalian Physiology I (4 cr; prereq Biol 2, GeCh 5, OrCh 42, BioC 3 or ¶)

42 Systemic Mammalian Physiology II (2 cr; prereq 41, BioC 6 or ¶)
VI-VII T, TEH 207, Jankus, Sullivan

109 Physiology of Endocrine, Reproductive Systems (3 cr; prereq 108, ♯)
III MWF, VetS 229, Dziuk, Good

120 Seminar (2 cr; prereq 109, ♯) Dziuk, Good

130 Probs: Physiology (ar cr; prereq 109 or Phsl 106-107, ♯) Dziuk, Good

151 Pharmacology (5 cr; prereq 108, ♯)
Lect IV MTWTh, VetS 229, Gray, Hammond, Miller, Stowe
Lab I-III T, VetS 135, Gray, Hammond, Miller, Stowe

171 Probs: Pharmacology (ar cr; prereq 152, ♯) Hammond, Stowe

205 Physiological, Pharmacological Research Techniques in Large Animals (2 cr; prereq 108 or ♯) Dziuk, Good, Hammond, Stowe

VETERINARY SURGERY AND RADIOLOGY (VSR)

103 Special Surgery (5 cr; prereq 101, ♯)
Lect IX M, VI TW, VetA 103, Arnold, Gourley, Usenik
Lab VII-IX TThF, VetA 102, 103

131 Heredity in Animal Disease (3 cr; prereq VMC 104, ♯)
VII TWTh, VetC 125, Spurrell

210 Adv Radiology (2 cr; prereq 121, ♯) Hanlon, Spurrell

220 Anesthesia (ar cr; prereq 103, ♯) Arnold, Gourley, Usenik

225 Adv Small Animal Surgery (ar cr; prereq 103, ♯) Gourley

230 Adv Large Animal Surgery (ar cr; prereq 103, ♯) Arnold, Usenik

235 Radiation Biology (3 cr; prereq 219, ♯) Spurrell

UNATTACHED UNIVERSITY DEPARTMENTS

AEROSPACE STUDIES (Air)

133 Astronautics, Space Operations (3 cr)
—1, I MWF, A 11A, Johnson, Suttie
—2, III MWF, A 11A
—3, V MWF, A 11A

143 Military Executive Management (3 cr)
—1, II MWF, A 11A, Denice, Gill
—2, IV MWF, A 11A
—3, VI MWF, A 11A

144 Flight Instruction Program (3 cr; prereq △)
VII MWF, A 11A, Gill

MILITARY SCIENCE (Mil)

43 U S Army, National Security (1 cr)
Leadership Laboratory VI-VII Th
—1, II T, A 116, Iaconis
—2, VI T, A 116, Iaconis
—3, VII T, A 116, Iaconis

46 Intro to Basic Tactics (1 cr)
Leadership Laboratory VI-VII Th
—1, II T, A 105, Meininger
—2, VI T, A 105, Meininger
—3, VII T, A 105, Meininger

153 Functional Organization of U S Army (3 cr)
Leadership Laboratory VI-VII Th
—1, II MWF, A 105, Harrison
—2, VI MWF, A 105, Harrison

156 Military Law, Army Admin (4 cr)
Leadership Laboratory VI-VII Th
—1, II-III T, II Th, A 116A, Chase
—2, V-VI T, V Th, A 116A, Chase

MORTUARY SCIENCE (Mort)

3 Anatomical Drawing, Modeling (1 cr; prereq 2)
—1, II-III M, JacH 188A, Burger
—2, II-III T, JacH 188A Burger

4 Anatomical Drawing, Modeling (1 cr; prereq 3 or ♯)
—1, II-III F, JacH 188A, Burger
—2, II-III Th, JacH 188A, Burger

5 Restorative Art (1 cr; prereq 4)
—1, I W, JacH 188A, Burger
—2, II W, JacH 188A, Burger

8 Orientation (2 cr)
VI-VII T, VH 205, Koschig

13 Mortuary Law (3 cr)
I MWF, VH 207, Grayson

56 Embalming (3 cr; prereq Biol 2)
VI MWF, Owre 117, Burger

58 Embalming (3 cr; prereq 57)
III MWF, VH 207, Stroud

59 Public Health, Minnesota Law, Regulations (2 cr; prereq PubH 3, 50 or GC 10B)
I TTh, VH 205, Larson

62 Funeral Mgt (3 cr; prereq 61)
9:45-11:00 TTh, VH 207, Slater

64 Psychology of Funeral Service (2 cr; prereq GC 2A or Psy 1-2)
VI-VII Th, VH 205, Oman

70 Embalming Chemistry (3 cr; prereq intro course gen chem)
VII MWF, VH 306

76 Embalming Lab (2 cr; prereq 56 or ♯)
—1, I-III T, JacH 88, Koschig, Stroud
—2, V-VII T, JacH 88, Koschig, Stroud
—3, I-III Th, JacH 88, Koschig, Stroud
—4, V-VII T, JacH 88, Koschig, Stroud

78 Clinical Embalming Training (2 cr; prereq 77)
VIII-IX Th and ar, Stroud

102 Seminar: Funeral Service (2 cr; prereq soph, △)
VIII-IX T, VH 205, Slater

105 Seminar: Management (ar cr; prereq △)
Griffin

110 Research (2 cr; prereq ♯) Burger, Koschig, Slater, Stroud

NAVAL SCIENCE (Nav)

13 Sea Power (3 cr; prereq 12)
—1, II MTWF, A 205, Totten
—2, IV MTWF, A 205, Totten
—3, V MTWF, A 205, Totten

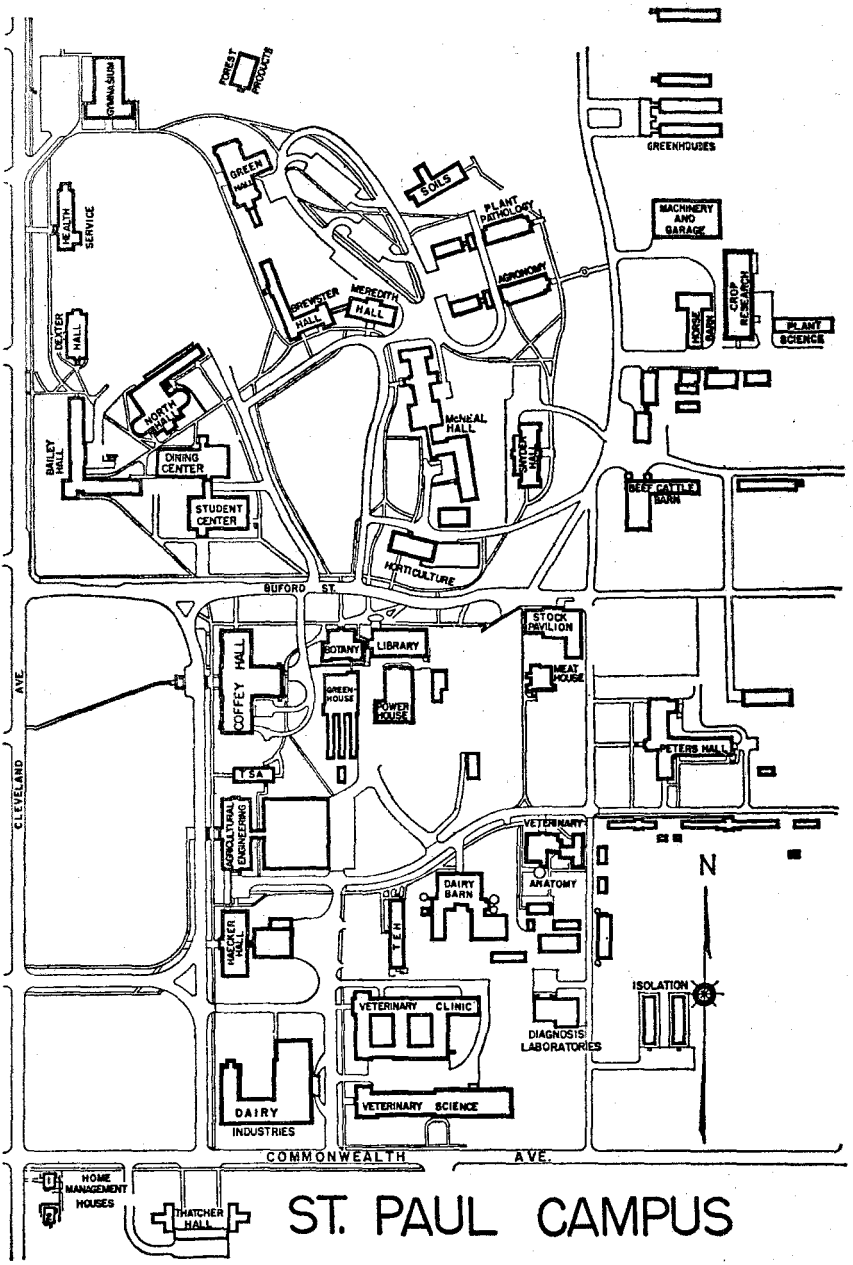
23 Naval Weapons (3 cr; prereq 22 or ♯)
—1, II MTWF, A 202, Royalty
—2, IV MTWF, A 202, Royalty

53 Celestial Navigation (3 cr; prereq trig or ♯)
—1, II MTWF, A 12A, Taylor
—2, IV MTWF, A 12A, Taylor

56 Modern Basic Strategy, Tactics (3 cr)
—1, II MTWF, A 201, Shubert
—2, IV MTWF, A 201, Shubert

59 Supply Management III (3 cr; prereq 58 or ♯)
V MTWF, A 201, Pierce

63 Leadership (3 cr; prereq 62 or 68 or ♯)
—1, I MTWF, A 12A, Closson
—2, V MTWF, A 12A, Closson


GYMNASIUM
FOREST PRODUCTS
GREEN HALL
SOILS
PLANT PATHOLOGY
GREENHOUSES
MACHINERY AND GARAGE
HEALTH SERVICE
AGRONOMY
CROP RESEARCH
PLANT SCIENCE
HORSE BARN
MEREDITH HALL
BREWSTER HALL
DEXTER HALL
NORTH HALL
BAILEY HALL
DINING CENTER
STUDENT CENTER
McNEAL HALL
SNYDER HALL
BEEF CATTLE BARN
HORTICULTURE
BUFORD ST.
STOCK PAVILION
MEAT HOUSE
BOTANY
LIBRARY
COFFEY HALL
GREEN-HOUSE
POWER HOUSE
PETERS HALL
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DAIRY INDUSTRIES
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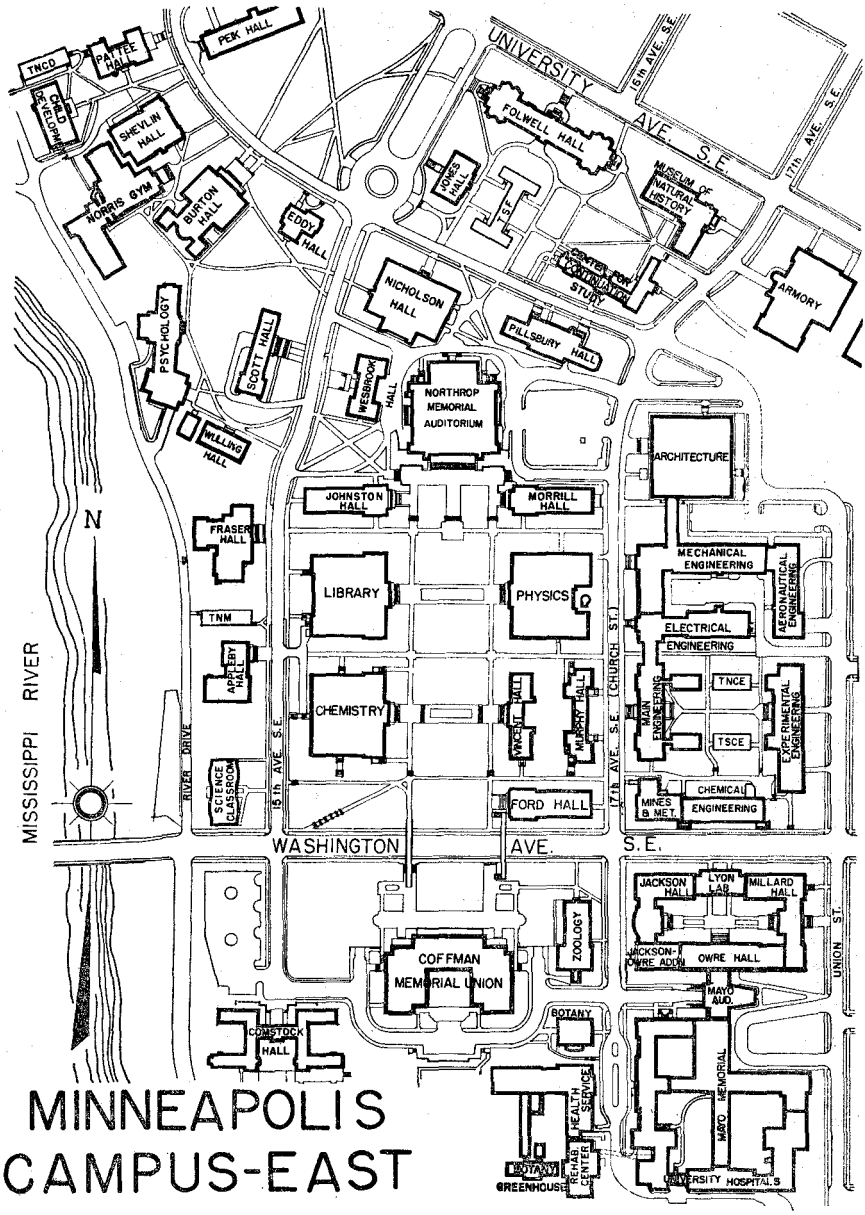
COMMONWEALTH AVE.
HOME MANAGEMENT HOUSES
THATCHER HALL
ST. PAUL CAMPUS


MINNEAPOLIS
CAMPUS-EAST
N
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15th AVE. S.E.
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WASHINGTON AVE. S.E.
18th AVE. S.E.
17th AVE. S.E. (CHURCH ST.)
UNION ST.
TNCD
PATTEE HALL
PEK HALL
CHEMICAL ENGINEERING
SHEVLIN HALL
NORRIS GYM
BURTON HALL
EDDY HALL
JONES HALL
T.S.P.
FOLWELL HALL
MUSEUM OF NATURAL HISTORY
CENTER FOR CONTINUATION STUDY
ARMORY
NICHOLSON HALL
FILLSBURY HALL
PSYCHOLOGY
SCOTT HALL
WESBROOK HALL
NORTHROP MEMORIAL AUDITORIUM
WILLEY HALL
ARCHITECTURE
JOHNSTON HALL
MORRILL HALL
FRASER HALL
MECHANICAL ENGINEERING
AERONAUTICAL ENGINEERING
LIBRARY
PHYSICS
TNM
ELECTRICAL ENGINEERING
APPLEBY HALL
CHEMISTRY
WILKINS HALL
MURPHY HALL
MAIN ENGINEERING
TNCE
TSCE
EXPERIMENTAL ENGINEERING
SCIENCE CLASSROOM
FORD HALL
MINES & MET.
CHEMICAL ENGINEERING
JACKSON HALL
LYON LAB
MILLARD HALL
ZOOLOGY
JACKSON-OWRE ADDN
OWRE HALL
COFFMAN MEMORIAL UNION
MAYO AUD.
BOTANY
COMSTOCK HALL
HEALTH SERVICE
MAYO MEMORIAL
REHAB CENTER
BOTANY GREENHOUSE
UNIVERSITY HOSPITALS

BUILDING ABBREVIATIONS

A, Armory
Aero, Aeronautical Engineering
AgBot(StP), Agricultural Botany
AgEng(StP), Agricultural Engineering
AgLib(StP), Agricultural Library
Agr(StP), Agronomy
AgrSH(StP), Agronomy Seed House
AgrSS(StP), Agronomy Seed Stocks
AH, Appleby Hall (Pharmacy)
Arch, Architecture
ArtB(W), Art Building (2020 Wash Ave S)

BaH(StP), Bailey Hall
BA(W), Business Administration Building, West Bank
BB(StP), Bull Barn
BCB(StP), Beef Cattle Barn
BeH(StP), Berry House (1304 Cleveland Ave N)
BFH(StP), Botany Field House
Bo, Botany
BoG, Botany Greenhouse
BoHH(StP), Botany Headhouse
BrH(StP), Brewster Hall
Bu, Burton Hall

C, Chemistry
CB(W), Classroom Building, West Bank
CCS, Center for Continuation Study (Changed to NCCE)
CD, Child Development
CenH, Centennial Hall
CH, Cooke Hall
ChE, Chemical Engineering
ChRC, Childrens Rehabilitation Center
ChStor, Chemical Storehouse (2812 SE Fairmount)
CI(StP), Crop Improvement
ClayS(W), Clay School Building, West Bank
CMU, Coffman Memorial Union
CofH(StP), Coffey Hall (Administration)
ComH, Comstock Hall
ComoY, Como Yard (3003 Como Ave SE)
ComT(StP), Commonwealth Terrace, Office 1295 Gibbs Ave
CropS(StP), Crop Service (formerly Plant Sci Field Bldg)
CS(StP), Carpenter Shop
CVL, Cardio-Vascular Lab

DCB(StP), Dairy Cattle Barn
DeH(StP), Dexter Hall
DFA, Delta Field Athletic Bldg
DI(StP), Dairy Industries
DiehlH, Diehl Hall
DinC(StP), Dining Center

E, Main Engineering
EconRes, Economics Research
EdH, Eddy Hall

EE, Electrical Engineering
Ex, Experimental Engineering
FCFH(StP), Farm Crops Field House
FieldHse, University Field House
FolH, Folwell Hall
ForH, Ford Hall
FP(StP), Forest Products
FraH, Fraser Hall (Law)
FronH, Frontier Hall
FStor, Food Stores (Food Storage)

GCH(StP), Golf Clubhouse
GCSS(StP), Golf Course Shops & Storage
GorC(StP), Gortner
GH(StP), Green Hall
Gy(StP), Gymnasium

HB(StP), Horse Barn
HH(StP), Haecker Hall
HL, Hydraulic Laboratory (Hennepin Island)
HolB, Holman Bldg (2035 Univ Ave SE)
Hosp, University Hospitals
HP, Heating Plant
HP(StP), Heating Plant
Hr(StP), Horticulture
HS, Health Service
HS(StP), Health Service

InvSW, Inventory Surplus Warehouse

J, Jones Hall
JacH, Jackson Hall (Anatomy)
JOAd, Jackson-Owre Addition
JohH, Johnston Hall

Lib, Walter Library
LinA, Linear Accelerator
LinL, Linac Laboratory
LSFor(StP), Lake States Forest Experiment Station
LsPav(StP), Livestock Pavilion
LyonL, Lyon Laboratories

MasonH, Masonic Memorial Hospital
Mayo, Mayo Memorial
McNH(StP), McNeal Hall (Home Economics)
ME, Mechanical Engineering
MeH(StP), Meredith Hall
MEx, Mines Experiment Station
MH, Millard Hall
MinMet, Mines and Metallurgy
MMA, Mayo Memorial Auditorium
MNH, Museum of Natural History
MS(StP), Machinery Shop
MSh(StP), Meat Shop
MorH, Morrill Hall (Administration)
MurH, Murphy Hall
MusEd, Music Education

NCCE, Nolte Center for Continuing Education (formerly CCS)
NGW, Norris Gymnasium for Women
NH, Nicholson Hall
NMA, Northrop Memorial Auditorium
NorH(StP), North Hall
NorHD(StP), North Hall Dormitory
NWGH(StP), Northwest Greenhouses

Owre, Owre Hall (Medical Sciences)

P, Pillsbury Hall
PB, Poucher Bldg (2007 Univ Ave SE)
PeikG, Peik Hall Gymnasium
PeikH, Peik Hall (University High School)

Buildings located on the St Paul Campus are followed by StP in parentheses.
Buildings located on the West Bank are followed by W in parentheses.

PetH(StP), Peters Hall
PG(StP), Poultry Group
Ph, Tate Laboratory of Physics
PH(StP), Power House
PiH, Pioneer Hall
PkR, Parking Ramp
PlantS(StP), Plant Sciences (formerly Crops Research)
PM(StP), Post-Mortem
PoH, Powell Hall
PolDB, Police Department Building (2030 Univ Ave SE)
PP(StP), Plant Pathology
PPFL(StP), Plant Pathology Field Laboratory
Psy, Psychology
Pt, Pattee Hall

SaH, Sanford Hall
SB(StP), Swine Barn
SBH, State Board of Health
ScH, Scott Hall (Music)
SciCB, Science Classroom Building (at East Bridgehead)
ShAn, Shops Annex
ShB(StP), Sheep Barn
ShH, Shevlin Hall
SnH(StP), Snyder Hall
SocSci(W), Social Sciences Building, West Bank
So(StP), Soils
SS, Storehouse and Shops
SSN(StP), Seed Storage North
SSS(StP), Seed Storage South
Stad, Stadium
StCen(StP), Student Center

TandAC, Tandem Accelerator Building
TEH(StP), Temporary East of Haecker
TerH, Territorial Hall
TH(StP), Thatcher Hall
TNCE, Temporary, North Court of Engineering
TNCD, Temporary, North of Child Development
TNM, Temporary, North of Mines
TSC(StP), Temporary, South of Coffey Hall
TSCE, Temporary, South Court of Engineering
TSF, Temporary, South of Folwell

UPress, University Press Building (2037 Univ Ave SE)

VB(StP), Veterinary Barn
VCHH, Variety Club Heart Hospital
VetA(StP), Veterinary Anatomy
VetC(StP), Veterinary Clinic
VetDL(StP), Veterinary Diagnostic Laboratories
VetIB(StP), Veterinary Isolation Bldgs
VetS(StP), Veterinary Science
VFWCRC, VFW Cancer Research Center
VH, Vincent Hall

WeH, Wesbrook Hall
WeiH(StP), Weigley House (1316 Cleveland Ave N)
WmsA, Williams Arena
WuH, Wulling Hall

Z, Zoology

Buildings located on the St Paul Campus are followed by StP in parentheses.
Buildings located on the West Bank are followed by W in parentheses.

FINAL EXAMINATIONS

Hours and Days—The time of your examination is based on the hours and days the class is regularly scheduled, and the college under which the course is listed in the *Class Schedule*. This final examination schedule does not apply to courses offered primarily to students registered in the School of Dentistry, Law School, Medical School, College of Pharmacy, and College of Veterinary Medicine . . . or to courses numbered over 200 which have no regularly scheduled classrooms.

In determining your proper final examination time from this schedule:

- Go by the lecture hours rather than the laboratory or recitation hours.
- Follow the MWF sequence if your class meets four or more days a week.
- Use the first full class hour if your class meets for more than one continuous hour. (For example, a class meeting VI-VII MWF would follow the VI MWF examination time schedule)
- Split-hour classes are to use the following arrangement: 8:15-9:30 TTh use I TThS; 9:45-11:00 TTh use II TThS; 11:15-12:30 TTh use IV TThS; 12:45-2:00 TTh use V TTh; 2:15-3:30 TTh use VII TTh. Any other unusual combinations should be cleared with the Room Scheduling Office prior to final examination week.
- Use the common examination hour if your course is listed on the following page.

Classes meeting I-II Hour Saturday only will be examined 8:00-10:00 **am** S, March 11.

Classes meeting III-IV Hour Saturday only will be examined 10:30-12:30 S, March 11.

Special Note: Classes meeting at 7:15 **am** will be examined at a time arranged by the instructor with the Room Scheduling Office.

Courses Listed Under College of Biological Sciences, Business Administration, General College, and Institute of Technology

Class Hours					Class Hours				
I	MWF	1:30- 3:30	Th	June 8*	VI	MWF	1:30- 3:30	M	June 5*
I	TThS	4:00- 6:00	Th	June 8	VI	TTh	4:00- 6:00	T	June 6
II	MWF	8:00-10:00	M	June 5*	VII	MWF	10:30-12:30	F	June 9*
II	TThS	4:00- 6:00	W	June 7	VII	TTh	8:00-10:00	F	June 9
III	MWF	8:00-10:00	T	June 6*	VIII	MWF	1:30- 3:30	F	June 9*
III	TThS	1:30- 3:30	T	June 6	VIII	TTh	4:00- 6:00	F	June 9
IV	MWF	10:30-12:30	W	June 7*	IX, X	Instructor will arrange examination time and room with Room Scheduling Office.			
IV	TThS	1:30- 3:30	W	June 7					
V	MWF	10:30-12:30	Th	June 8*					
V	TTh	8:00-10:00	Th	June 8					

Courses Listed Under College of Liberal Arts, Education, Medical Sciences‡, Dentistry‡, and Unattached Departments**

Class Hours					Class Hours				
I	MWF	1:30- 3:30	Th	June 8*	VI	MWF	4:00- 6:00	M	June 5*
I	TThS	4:00- 6:00	Th	June 8	VI	TTh	4:00- 6:00	T	June 6
II	MWF	10:30-12:30	M	June 5*	VII	MWF	10:30-12:30	F	June 9*
II	TThS	4:00- 6:00	W	June 7	VII	TTh	8:00-10:00	F	June 9
III	MWF	10:30-12:30	T	June 6*	VIII	MWF	1:30- 3:30	F	June 9*
III	TThS	1:30- 3:30	T	June 6	VIII	TTh	4:00- 6:00	F	June 9
IV	MWF	8:00-10:00	W	June 7	IX, X	Instructor will arrange examination time and room with Room Scheduling Office.			
IV	TThS	1:30- 3:30	W	June 7					
V	MWF	10:30-12:30	Th	June 8*					
V	TTh	8:00-10:00	Th	June 8					

* Classes meeting four or more days a week may give three-hour examinations provided the instructor notifies the Room Scheduling Office of his intention to do so. Three-hour examinations will be scheduled on the respective morning or afternoon the examination would otherwise be given: June 5 (8:30-11:30 or 1:30-4:30); June 6 (8:30-11:30 or 12:30-3:30); June 7 (8:30-11:30 or 12:30-3:30); June 8 (8:30-11:30 or 1:30-4:30); June 9 (8:30-11:30 or 1:30-4:30).

‡ Courses offered primarily to students other than medical or dental students.

** Courses listed under Aerospace Studies, Military Science, Mortuary Science, Naval Science.

Courses Listed Under Agriculture, Forestry, and Home Economics

Class	Hours			
I	MWF	1:30- 3:30	Th	June 8*
I	TThS	4:00- 6:00	Th	June 8
II	MWF	8:00-10:00	M	June 5*
II	TThS	4:00- 6:00	W	June 7
III	MWF	8:00-10:00	T	June 6*
III	TThS	1:30- 3:30	T	June 6
IV	MWF	10:30-12:30	W	June 7*
IV	TThS	1:30- 3:30	W	June 7
V	MWF	10:30-12:30	Th	June 8*
V	TTh	8:00-10:00	Th	June 8

Class	Hours			
VI	MWF	1:30- 3:30	M	June 5*
VI	TTh	4:00- 6:00	T	June 6
VII	MWF	10:30-12:30	F	June 9*
VII	TTh	8:00-10:00	F	June 9
VIII	MWF	1:30- 3:30	F	June 9*
VIII	TTh	4:00- 6:00	F	June 9
IX, X	Instructor will arrange examination time and room with Room Scheduling Office.			

Common Examinations—All sections of the following courses are examined together at time indicated:

Acct 24, 25, 26—7:00-9:00 **pm** W	June 7
Biol 1, 1A, 2, 2A, 2H—7:00-9:00 **pm** Th	June 8
Comm 1, 2, 3—8:00-10:00 **am** S	June 3
Comp X, 2, 3—8:00-10:00 **am** S	June 3
Econ 1, 1T, 2, 2T, 2H—7:00-9:00 T	June 6
EG 25, 25B—7:00-9:00 **pm** Th	June 8
Fren 2, 3, 25—6:30-9:30 **pm** M	June 5
GC 10A, 10B—7:00-9:00 **pm** W	June 7
GC 32A—7:00-9:00 **pm** T	June 6
Ger 2A, 3A, 3B, 4—6:30-9:30 **pm** M	June 5
Ger 3, 5—7:00-9:00 **pm** W	June 7
Math T, 55—12:00-2:00 S	June 3
Math Z, 31, 32, 33, 33H, 42, 43, 44—12:00-3:00 S	June 3
Math 10, 10A, 15, 21A, 22A, 23A, 40A—3:30-6:30 S	June 3
Psy 2—7:00-9:00 **pm** S	June 3
QA 5, 51—7:00-9:00 **pm** S	June 3
Span 2, 3, 25—6:30-9:30 **pm** M	June 5

Rooms—Examinations are given in the regularly scheduled classroom unless your instructor arranges for and announces a different room. Instructors note: Requests for special final examination rooms are submitted to the Office of Room Assignments and Scheduling by your department office on Form A123 on or before May 3.

Conflicts and Three Examinations in One Day—Report conflicts with examinations in other courses and situations involving three examinations in one day to your college office.

Schedule Committee Regulations Regarding Examinations

1. There shall be no variations from the University final examination schedule except by concurrence of the dean of the college and the chairman of the University Scheduling Committee. This prohibition precludes also moving a final examination from a scheduled time to the last or earlier meetings of the class, except laboratory final examinations which cannot be held in accordance with the regular final examination schedule.

   All requests for adjustment of final examination hours by departments should be made by May 19 to permit publication and orderly consideration of hardships. Additional common examinations may be requested on Form A163, which is available in department offices. The same form is used to request exceptions to official examination hours.
2. Instructors requesting any variation from the official examination schedule must agree to give a special make-up examination to any student having examination conflicts or three examinations in one calendar day because of the change in hours being requested.
3. Arranged examinations and authorized variations in published hours shall conform with the hour-periods shown in the Examination Schedule.
4. No variations from the University final examination schedule will be considered official until published in the Official Daily Bulletin.
5. Each college shall assume responsibility for making arrangements to spread out examinations for students who have more than two examinations scheduled in one day.
6. **Recommended**—In order to give students an opportunity for thorough review prior to final examinations, instructors are requested not to schedule quizzes or term papers to be due during the last week of class.
7. Since providing adequate seating for final examinations is a continuing and growing problem:
   a. Departments are encouraged to limit final examinations to 2 hours.
   b. Alternate seating should be requested only when it is deemed necessary for proper administration. Some rooms are better than others for adjacent seating. Some departments are giving alternate forms of examinations to students seated in every seat and other departments are encouraged to follow this procedure.

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* Classes meeting four or more days a week may give three-hour examinations provided the instructor notifies the Room Scheduling Office of his intention to do so. Three-hour examinations will be scheduled on the respective morning or afternoon the examination would otherwise be given: June 5 (8:30-11:30 or 1:30-4:30); June 6 (8:30-11:30 or 12:30-3:30); June 7 (8:30-11:30 or 12:30-3:30); June 8 (8:30-11:30 or 1:30-4:30); June 9 (8:30-11:30 or 1:30-4:30).

GRADING SYSTEM

1. There shall be four permanent grades, A (highest), B, C, and D (lowest), which shall be acceptable for the completion of a single course.

2. There shall be a permanent grade of F (failure) given when a student does not complete successfully the work of a course.

3. There shall be a temporary grade of I (incomplete) which may be assigned when there is not sufficient information immediately available to permit the assignment of a permanent grade. This would be the case if the student has not done all the work of the course or the instructor does not know why a student, officially registered for his course, has not appeared or has left. If the instructor is able to ascertain that the student has no adequate excuse or if the student attended beyond the sixth week and was failing, F is the appropriate grade.

   An I which is not turned into a permanent grade or into a W (official cancellation with approval of the student's college) by the end of the sixth week of the next regular quarter of attendance shall become an F. (This does not apply to students in the Graduate School or to students in a Master's degree program in undergraduate colleges; their I grades remain until changed by the instructors to some other grade.) Permission to complete the work must be obtained from the instructor. He may set a makeup deadline of less than 6 weeks.

   An extension of time may be permitted for removal of I grades upon recommendation of the instructor concerned and with approval of the Scholastic Committee of the college in which the student is registered. If the petition is presented after the end of the sixth week of the next quarter of residence, a restoration of the mark of I and the completion of the required work would be considered in the nature of a special examination for which the special examination fee would be required.

4. There shall be a symbol W to indicate official cancellation from a course without grade. This shall be assigned in all cases of official cancellation during the first 6 weeks of classes irrespective of the student's standing. Whether cancellation is permitted is within the authority of the student's college to determine. After 6 weeks, W shall be posted only if the student is not failing at the time of official cancellation. W is a registration symbol, not a grade, and shall be posted by the Recorder on the basis of the student's registration activity as approved by the student's college.

5. A student who cancels officially or otherwise leaves a class after the sixth week of classes and is failing at the time shall receive an F.

6. There shall be a symbol X which may be reported in continuation courses in which a student is permitted to continue but in which a grade cannot usually be determined until the sequence is completed. The instructor shall submit a grade for each X when the student has completed the entire sequence.

7. In courses numbered 200 and higher, the permanent grade S (satisfactory) may be used to indicate satisfactory work for graduate students. In calculating grade point averages, it counts as a B.

8. In the doctor of medicine program, the permanent grade S (satisfactory) may be used to indicate satisfactory academic work for M.D. candidates. The grade S, when recorded for a course in the standard medical (M.D.) curriculum, carries no implication of a more exact grade level. A medical student's academic standing will be calculated on the basis of a more detailed evaluation available in the college office. A graduate student registered for courses in the standard medical (M.D.) curriculum should be graded in those courses on the standard (A, B, C, or D) system.

9. There shall be a registration symbol V (visitor) to indicate registration as an auditor or visitor.

10. There shall be a symbol T (transferred) indicating credits transferred from another institution, or from one college to another within the University when a revaluation is required. It shall be posted as a preceding supplement to the original grade.

11. For purposes of determining scholarship averages, grade points shall be assigned as follows:

Each credit of A	4 grade points
Each credit of B	3 grade points
Each credit of C	2 grade points
Each credit of D	1 grade point
Each credit of F	0 grade points

A student's scholastic average—or grade point average—shall be the sum of grade points divided by the sum of credits passed and failed. In general, all credits must enter into the grade point average. If a course is repeated, usually both grades should enter into the computation of the grade point average. However, the faculty of a school or college may determine which credits and grade points are to be included in the average.

12. Any college or school may set special scholastic standards or other standards as a condition for registration in particular courses of study, for placing students on probation, for admission to the college or school, for promotion, for honors, for continued residence in the college or school, or for degree, etc.

13. The official grade point average shall be calculated in accordance with paragraph 11 above regardless of when grades were earned.

GRADES

Academic Staff—Grades are due in the Office of Admissions and Records within 72 hours after the examination. Spring quarter grades are due beginning June 6 with last day examination grades due by 5 p.m., Monday, June 12. Messenger service is provided. Please call 373-2153 when grades are ready. Do not put reports in campus mail.

Students—Your spring quarter report will be a blueprint of your current record which will be mailed with registration instructions for fall quarter about July 1 to your home address.

REMOVAL OF INCOMPLETES

Grades of I (incomplete) must be made up by the end of the sixth week of your next regular quarter in attendance. Continuing students must remove fall incompletes by February 10, winter incompletes by May 5, and spring incompletes by November 3. The mid-term dates for removal of incompletes during the summer are June 28 and August 2. Permission to complete the work must be obtained from the instructor who may, and generally will, set the makeup deadline in advance of the above dates. See "Grading System" for further explanation.

DEPOSIT CARDS

Deposit cards may be purchased from the bursar (or from the cashier, Coffey Hall, for Agricultural Biochemistry). Chemistry cards are $10.00; Agricultural Biochemistry, Art, Pharmacy, and Medical Biochemistry cards are $5.00.

Laboratory material and breakage will be charged against your deposit card. Any unused balance will be refunded at the end of the course.

You must present your deposit card to be assigned a laboratory desk. Veterans (P.L. 815 and 894) will receive information from their instructor concerning deposit cards and laboratory assignments.

SPECIAL FEES

Supplement to *General Information Bulletin.*

English for Foreign Students

$15.00 per qtr—required of foreign students needing special instruction in English

Late Change of Registration

$2.00 Arts and IT after 1st week of classes

Late Payment Fee

$3.00 through the first week of classes, $5.00 during the second week, and $10.00 thereafter

Music Practice Room

$1.00 per qtr for one, $2.00 for two, 50 cents for each addtl hr per week—all instruments except organ
.25 per hr—small organ
.50 per hr—large organ

Placement Service Fee—Required of degree candidates from:

Duluth	$10.00
Institute of Technology (first certificate or degree)	5.00
College of Education (except Nursing Education Majors)	10.00
Morris (optional)	10.00

Record Service Fee

$1.00 required of all new students. This fee provides three certified copies of student records. When more than three copies of records are requested, a charge of $1.00 will be made for each additional copy

Speech and Hearing Clinic—Students

$5.00 per qtr—spec clinical treatment

Speech and Hearing Clinic—Nonstudents

$ 2.00 per session, Speech Therapy—Days
2.50 per session, Speech Therapy—Evenings
125.00 Summer Session intensive therapy
5.00 Consultation (outpatient)
20.00 Evaluation (outpatient)

FACILITY FEES

Physical education facility fees—Students registered in the following physical education courses must pay the amount indicated to the appropriate facility operator for the use of the facility and/or equipment:

PEM 1B	Bowling, Beginning	$ 8.10	PEW B	Bowling, Beginning	$ 8.10
	Bowling, Intermediate	12.00		Bowling, Intermediate	8.10
	Curling	24.00		Curling	24.00
	Scuba diving	18.00		Riflemarksmanship, Bgn	7.00
	Skiing	35.00		Skiing	35.00

COURSE FEES

All fees are per quarter unless otherwise indicated.

Students taking the following courses will pay course fees in addition to tuition as follows:

Civil Engineering (Summer)
$35.00 per term—23

Composition (Arts)
*$21.00—X Preparatory Composition

English (Duluth and Morris)
*$21.00—X Preparatory English

Health Service (Field Trips and Foreign Study
$14.26 per quarter, $7.13 per Summer Term—Required of students on University Field Trips such as Anthropology, Civil Engineering, Geology, Mines, etc.
Students in University sponsored foreign travel groups are required to enroll in the Blue Cross-Blue Shield program or take out other adequate insurance.

Itasca Biological Station (Summer)
$10.00—Laboratory fee
*$35.00—Research Table fee

Mathematics (IT and Morris)
$21.00—8 Solid Geometry

Mathematics (Arts)
*$35.00—Z Preparatory Mathematics

Mathematics (Duluth and Morris)
*$35.00—X Preparatory Mathematics

Modern Language Institute (Summer)
$40.00 per term—French (22, 56, 106); or German (22, 67, 106); or Spanish (22, 58, 109)

Music
$35.00 for 1 half-hour individual lesson per week—11V through 30V and 61V through 80V (no cr) ¶¶
$35.00 (2 cr) for 1 half-hour individual lesson per week; $70.00 (4 cr) for 2 half-hour lessons or 1 hour lesson per week—11 through 30, 61 through 80, 100 ¶¶. Fee is for individual lessons for all Lower Division students and non-music majors.
No fee for 11A, 11B, 11C, 12A, 12B, 12C (Class Lessons)
$50.00—for 2 half-hour individual lessons per week or 1 hour lesson per week—13B (Summer)
$25.00—60B, 61B, 62B (Summer)
$70.00—for 1 hour lesson per week—204 ¶¶
$15.00—Piano for Children, ages 6-16

Music Education
225E—Same as Music 11-27, 100 ¶¶

Music (Duluth)
$30.00 for 10 half-hour lessons each quarter—21, 22, 23, 24, 25, 26, 27, 51, 52, 53, 54, 55, 57, 58, 204
(This fee is waived for students with an approved major in music, so long as they remain in good standing and until they have completed the required number of credits in applied music. This waiver applies only to fall, winter, and spring quarters)

Music (Morris)
$30.00 for 10 half-hour lessons
$60.00 for 10 hour-lessons—11, 12, 13, 14, 17, 18, 19, 40

Physical Education
Cooke Hall
Locker-Towel rental—$3.00 plus $1.00 deposit per quarter
Gym clothing rental—$3.00 per quarter
Norris Gymnasium
Locker-Towel rental—$3.00 plus $1.00 deposit per quarter
St. Paul Gymnasium
Locker-Towel rental—$3.00 per quarter

Physical Education (Duluth)
$1.25—1 through 49 (except 45), W66, W67
$5.00—9 (Bowling)

Physical Education (Morris)
$2.00—All courses and intramural activities

Public Health
$100.00—138, 169, 190
$251.00—231, 232
*$200.00—230 (September field course)

Rhetoric (AHFE)
*$7.00 per credit for more than 9 credits in Rhet (Communications)

Speech
$25.00—175

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* In lieu of tuition.

¶¶ Number of lessons is doubled per Summer Session term for courses listed in these sections.

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Nursing ..... Owre 125

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Ophthalmology ..... Mayo A684
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Veterinary Physiology and Pharmacology ..... TEH 201
Veterinary Surgery and Radiology ..... VetC 116

Zoology ..... Z 108

UNIVERSITY CALENDAR

SPRING QUARTER

March

1*	Last day to file application for spring admission to undergraduate colleges or for change of college within University.
16	Final payment of spring quarter fees due for students in residence winter quarter in undergraduate colleges.
20-23	Orientation program: registration and final payment of fees for new students in undergraduate colleges (including Adult Special students).
24	Holiday (Good Friday)
27	Spring quarter classes begin.
31	Last day for registration and final payment of fees for the Graduate School and teachers in service.

April

27	Senate meeting.

May

10	Cap and Gown Day Convocation (Minneapolis-St Paul) IV hour classes excused.
15	Graduate School application deadline for first term Summer Session.
24	Cap and Gown Day Convocation (Duluth), VII hour classes excused.
30	Holiday (Memorial Day)
31	Cap and Gown Day Convocation (Morris), VII hour classes excused.

June

1	Senate meeting; last class day.
2	Review begins.
3-9	Final examination period.
4	Baccalaureate Service (Duluth), 8 pm.
9	Baccalaureate Service (Minneapolis-St Paul), 4 pm. Commencement (Duluth), 8 pm.
10	Spring quarter closes. Commencement (Minneapolis-St Paul), 7:30 pm.
12	Commencement (Morris), 8 pm.

SUMMER SESSION

May

15	Graduate School application deadline for first term Summer Session.

First Term

June

12	Orientation and registration.
13	Classes begin.
19	Graduate School application deadline for Second Term.

July

4	Holiday (Independence Day)
14	Classes end at close of VI hour. Commencement, 4 pm.
15	First term closes.

Second Term

July

17	Registration.
18	Classes begin; fees due.

August

18	Classes end at close of VI hour. Commencement, 4 pm.
19	Second Term closes.

* Other application dates are specified for General College, Medicine, Veterinary Medicine, Dentistry, and Dental Hygiene in the admissions section of this bulletin.

COURSES RESERVED IN COLLEGE OFFICES

Accounting

24, 25, 26—CofH 225 for AFHE, and JohH 205 for other students

55D, 75B, 105B, 105C, 115A, 125, 135—BA(W) 225

Aeronautics

All courses under 200—E 136

Aerospace Studies

All courses—A 108

Agricultural Economics

2, 3, 12—CofH 225

Agricultural Engineering

All courses under 200—E 136

Agronomy and Plant Genetics

1—CofH 225

American Studies

202—JohH 205

Analytical Chemistry

57A, 57B—CofH 225 for AFHE, and JohH 205 for other students

All other courses under 143—E 136

Anthropology

1A *and* 2A (lect and lab), 100—JohH 205

Architecture

All courses under 200—E 136

Art Education

All courses under 86 *except* 54—Bu 206

Art History

All courses under 198—CofH 225 for AFHE, and JohH 205 for other students

Astronomy

11—E 136 for IT, and JohH 205 for other students

Biochemistry (BioC) (AFHE)

1, 52, 143, 147, 152—CofH 225 for AFHE, Z 108 or SnH 123 for other students

Biology

1, 1A, 2, 2A, 2H (lect and lab)—CofH 225 for AFHE, AH 115 for Pharm, Owre 125 for Nurs, E 136 for IT, VH 114 for MortSci, Bu 206 for Ed, and JohH 205 for other students

49, 50—JohH 205 or SnH 123

61, 71, 82, 101, 110, 111, 120, 121—Z 108 or SnH 123

Botany

10, 12, 52, 91A, 101, 118, 139, 187—Bo 8

Business Finance

56—BA(W) 225

Busines Law

58, 88—BA(W) 225

Chemical Engineering

All courses under 200—E 136

Child Psychology

80, 81—JohH 205

Chinese

3—JohH 205

Civil Engineering

All courses under 228 (lect and lab for 52) except 1, 112, 121, 125, 147, 152—E 136

Classics

48, 68—JohH 205

Communication

All courses—JohH 205

Curriculum and Instruction

60, 61, 62, 63, 64, 65, 104, 107, 141, 142—Bu 206

Economics

C, 1, 1H—JohH 205

2, 2H—AH 115 for Pharm, and JohH 205 for other students

2T—E 136

All other courses under 104A—BA(W) 225 for BA, and JohH 205 for other students

Education

55B—Bu 206

Educational Administration

241—JohH 205

Educational Psychology

116A, 150, 200, 209, 210, 217A, 218, 218A, 256, 257, 281, 282B—Bu 206

Electrical Engineering

All courses under 200—E 136

Engineering Graphics

All courses under 200—E 136

English

B, C—E 136 for IT, and JohH 205 for other students

85C—E 136

All other courses under 213 *except* 90H, 91H, 92H, 100, 103, 160—JohH 205

English Composition

X, 2, 3—E 136 for IT, and JohH 205 for other students

27, 28, 103—JohH 205

Entomology, Fisheries and Wildlife

1, 74—CofH 225

Family Studies

All courses—JohH 205

Forestry

10—CofH 225

French

All courses under 126 *except* 52, 59, 67H, 105, 109—JohH 205

General Chemistry

5, 6—CofH 225 for AFHE, and JohH 205 for other students

General College

7A, 10A, 10B, 26A——CofH 225 for AFHE, and NH 20 for other students

15 (lect and rec)—NH 20

All other courses—NH 20

Genetics

67—CofH 225 for AFHE, SnH 123, Z 108 or JohH 205 for other students

101—SnH 123

Geography

1 (lect and rec)—CofH 225 for AFHE, E 136 for IT, and JohH 205 for other students

4, 41, 71, 78, 81, 106, 122, 137, 184, 193—JohH 205

Geology and Geophysics

1 and 2 (lect and lab)—CofH 225 for AFHE, E 136 for IT, and JohH 205 for other students

62, 142, 162—E 136

German

2A, 3 (lect and rec), 52—E 136 for IT, and JohH 205 for other students

All other courses under 105 *except* 90H—JohH 205

Greek

3—JohH 205

Hebrew

3—JohH 205

History

All courses under 149A *except* 19, 61, 75A, 76, 81, 92A, 94A, 100B, 101B, 102B, 105A, 105B, 108C, 111V, 120J, 123A, 141E, 144C—JohH 205

History and Philosophy of Education

90—Bu 206

Home Economics

All courses under 200 *except* 31—CofH 225

Home Economics Education

49—CofH 225

Horticultural Science

1, 10—CofH 225

Humanities

All courses—JohH 205

Hydromechanics

All courses under 200—E 136

Industrial Education

1, 2—Bu 206

6, 9, 12, 16, 21, 26, 30, 50—TNCD 103

Industrial Engineering

All courses under 200—E 136

Industrial Relations

52—BA(W) 225

Insurance

53—BA(W) 225

Italian

2, 3—JohH 205

Japanese

3—JohH 205

Journalism

1, 5, 6, 14, 18, 41, 50, 51, 57, 66, 79, 82, 106, 112, 115, 142, 143, 158, 163, 164, 177—JohH 205

Latin

3—JohH 205

Management

60, 70, 260—BA(W) 225

Marketing

57—BA(W) 225

Mathematics

T, Z, 10, 10A, 15, 42, 43—CofH 225 for AFHE, and JohH 205 for other students

5A, 44, 55, 60, 63, 80C, 106, 108, 112C, 159, 178C—JohH 205

117C—E 136 for IT, and JohH 205 for other students

All other courses—E 136 for IT, *except* courses over 200, JohH 205

Mechanical Engineering

All courses under 200—E 136

Mechanics and Materials

All courses under 200—E 136

Mechanized Agriculture

3, 4, 12, 12A, 42, 45, 45A—CofH 225

Metallurgical Engineering

All courses under 200—E 136

Methods and Student Teaching

67, 67C, 68, 68C, 69, 70, 75—Bu 206

Microbiology

53—CofH 225 for AFHE, Mayo C205 for Med Tech, Owre 125 for Nurs, AH 115 for Pharm, and JohH 205 for other students

102—JohH 205

Military Science

All courses—A 108

Mineral Engineering

All courses under 200—E 136

Mortuary Science

All Courses—VH 114

Music

2T, 3T, 4, 5T, 6T, 11C, 12C, 36, 43—JohH 205

Music Education

All courses under 55 *except* 53—Bu 206

Natural Science

3—CofH 225 for AFHE, and JohH 205 for other students

5, 6—JohH 205

Naval Science

All courses—A 203

Norwegian

3—JohH 205

Office Management

34, 39—BA(W) 225

Organic Chemistry

62—JohH 205

All other courses under 200—E 136

Personal Orientation

1—JohH 205

Philosophy

1, 2, 3, 52, 52H—JohH 205

Physical Chemistry

All courses under 200—E 136

Physical Education for Men

1C (open to Men only) sec 4, 7, 19, 20, 26, 30, 31—CofH 225 for AFHE, and JohH 205 for other sections

1C (open to Men and Women), 2C—JohH 205

4B, 4C, 5C, 6C, 7C, 8, 9B, 55, 60A, 67, 81—Bu 206

Physical Education for Women

C (open to Women only) sec 3, 22, 23, 33, 34—CofH 225 for AFHE, and JohH 205 for other sections

C (open to Women and Men)—JohH 205

22A, 22C, 45, 46, 54, 70—Bu 206

Physics

3, 6, 9—E 136 for IT, and JohH 205 for other students

22, 51, 122, 148—E 136

Political Science

B, 2, 25—E 136 for IT, and JohH 205 for other students

26, 30, 35, 109, 118, 122, 131, 138, 143, 157, 161, 162, 166—JohH 205

Portuguese

3—JohH 205

Production

50—BA(W) 225

Professional Courses for Men and Women (Physical Ed) 44, 61—Bu 206

Psychology

2 (sec 10, 12, 13)—CofH 225 for AFHE, and JohH 205 for other sections

4-5, 5, 75, 121, 127, 130, 133, 145, 149, 151, 161, 173, 292C—JohH 205

Public Administration

270C, 282C—JohH 205

Public Health

3, 50—CofH 225 for AFHE, and JohH 205 for other students

52—CofH 225

4, 75, 90, 125—JohH 205

Quantitative Analysis

5—JohH 205

51, 54, 61, 191B, 259—BA(W) 225

Recreation

11, 43, 45, 58, 64B, 111— Bu 206

Rhetoric

All courses under 251—CofH 225

Russian

3, 3H, 6—JohH 205

School Health Education

25, 70, 91B—Bu 206

Social Science

1, 2, 3—E 136 for IT, and JohH 205 for other students

53, 62, 73—JohH 205

Sociology

1A—CofH 225

45 (lect and lab)—JohH 205

All other courses under 299 *except* 99, 289—JohH 205

Soil Science

127—CofH 225

Spanish

All courses under 105 *except* 59, 67, 67H, 76, 79—JohH 205

Speech

50—BA(W) 225 for BA, and JohH 205 for other students

All other courses under 181 *except* 4, 67, 96H, 126, 169—JohH 205

Speech Science, Pathology and Audiology

140, 171—JohH 205

Statistics

41, 90, 123, 133—JohH 205

90E—E 136

Studio Art

20—CofH 225 for AFHE, and JohH 205 for other students

25A, 62A—E 136

All other courses under 210A *except* 183, 186—JohH 205

Swedish

3—JohH 205

Theatre Arts

All courses under 181 *except* 53A, 53B, 96H, 101, 102, 103—JohH 205

Transportation

54—BA(W) 225

Zoology

65, 71, 76, 101, 167—Z 108 or SnH 123

74, 146—CofH 225 for AFHE, Z 108 for other students

STUDENT PROGRAM WORK SHEET

EXAMPLE:

Course	AgEc 1
Section	Sec 2
Room Bldg.	109 HH
Instructor	Lowe

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ORDER OF REGISTRATION

At CLA Class Reservation Office

Order of registration at the CLA Class Reservation Office will be by alphabetical location of last names, in accordance with the schedule below. The alphabet will be rotated in subsequent registrations, to bring each student into the first third once a year. The order begins with "A" this spring to tie in with the alphabetical control of the last two fall registrations (summers 1966, 1965) and with the order in use in Agriculture, Forestry, and Home Economics.

Students must present their Registration Permit and their Registration Card with name entered by ball-point pen (or in ink). Attempts to enter the Reservation Office improperly or obtain class cards improperly will result in immediate cancellation of registration and disciplinary referral.

Students for whom late registration at the CLA Reservation Office poses a serious *educational* problem should present their difficulties to their own college office (or divisional office, for CLA students).

Classes May Be Reserved At or After Times Indicated

	7:45	8:45	9:45	10:45	11:45	12:45	1:45	2:45	3:45
Feb. 16	Aa-Am	Ana-Anderson, L.	Anderson, M -Anz	Ao-Az	Baa-Bal	Bam-Bar	Bas-Beh	Bei-Berg	Berh-Big
Feb. 17	Bih-Bod	Boe-Boy	Boz-Brn	Bro-Bud	Bue-Bur	Bus-Cah	Cai-Car	Cas-Cho	Chp-Cle
Feb. 20	Clf-Coo	Cop-Cul	Cum-Dav	Daw-Dic	Did-Dol	Dom-Dra	Drb-Edb	Edd-El	Em-Er
Feb. 21	Es-Fav	Faw-Fis	Fit-For	Fos-Fri	Frj-Gaf	Gag-Gas	Gat-Gil	Gim-Gor	Gos-Grh
Feb. 23	Gri-Gz	Haa-Hal	Ham-Han	Hao-Har	Has-Haw	Hax-Hei	Hej-Her	Hes-Hjo	Hjp-Hok
Feb. 24	Hol-Hor	Hos-Hur	Hus-Jac	Jad-Johnson, C	Johnson, D-Johnson, J	Johnson, K-Johnson, M	Johnson, N-Jon	Joo-Kam	Kan-Kei
Feb. 27	Kej-Kil	Kim-Kod	Koe-Klu	Klv-Kra	Krb-Kuh	Kui-Lac	Lad-Larson, D	Larson, E-Led	Lee-Leu
Feb. 28	Lev-Lil	Lim-Loh	Loi-Lum	Lun-Mag	Mah-Map	Maq-Mar	Mas-Mca	Mcb-Mck	Mcl-Men
March 1	Meo-Miller, L	Miller, M-Mom	Mon-Mos	Mot-Nac	Nad-Nej	Nek-Nelson, K	Nelson, L-Nic	Nid-Nou	Nov-Oi
March 2	Oj-Olson, R	Olson, S-Os	Ot-Paq	Par-Pea	Peb-Pep	Peq-Petersen	Peterson-Pet	Peu-Poe	Pof-Pre
March 3	Prf-Ral	Ram-Ref	Reg-Ric	Rid-Rob	Roc-Rom	Ron-Ros	Rot-Rya	Ryb-Sat	Sau-Schi
March 6	Schj-Schre	Schrf-Seam	Sean-Shat	Shau-Sig	Sih-Siz	Sj-Sl	Sm-Sod	Soe-Ss	Sta-Stem
March 7	Sten-Ston	Stoo-Sul	Sum-Swe	Swf-Tha	Thb-Thompson, K	Thompson, L-Tik	Til-Tri	Trj-U	Va-Vi
March 8	Vj-Wall	Walm-Web	Wec-Wes	Wet-Wig	Wih-Wilm	Wiln-Wip	Wir-Wr	Ws-Y	Z

REGISTRATION DATES

Students in attendance Winter Quarter must register during the period set for their college and pay fees by March 16.

Orientation and registration for new students will be on March 20-21, 21-22 or March 22-23 with fees due March 23. (March 1 last day for new undergraduate students to file application for admission for spring quarter.)

Students returning to the University who were not in attendance winter quarter may register during the period set for their college or during the period for new students and will obtain registration material at the Office of Admissions and Records.

Students approved for change of college may also register during either period. Such students should pick up their permit card from their previous college (Duluth and Morris students only if convenient) and present it with their Authorization for Change of College at the office of their new college to obtain registration material. Those planning to enroll in another college of the University, who have not yet applied for transfer at the Admissions Office, should do so immediately or not later than March 1 to receive consideration.

Agriculture, Forestry, Home Economics (225 Coffey)
  Issue of material starts Feb. 13
  Class reservations begin Feb. 16
Biological Sciences (307 Zoology)
  Issue of material starts Feb. 13
  Class Reservations Feb. 16-Mar. 9
Business Administration (225 BA) (West Bank)
  Issue of material, Feb. 15
  Class Reservations start Feb. 16
Dental Hygiene (106 Owre)
  Feb. 16, 17
*Dentistry (136 Owre)
  Mar. 21, 22, 23
Education (206 Burton)
  Issue of material starts Feb. 15
  Class reservations, Feb. 16-Mar. 9
General College (20 Nicholson)
  Class reservations, Feb. 14-Mar. 9
Returning students Mar. 13-17, 20-23
Graduate School (316 Johnston)
  Feb. 16-Mar. 31 (Fees due March 31)
  It is expected that all graduate students who can do so will register by Mar. 9
*Law (125 Fraser)
  Mar. 15-17
Liberal Arts
  Lower Division, 216B Johnston
  Upper Division:
    Honors, 115 Johnston
    Humanities, 206 Folwell
    Science and Math (and Central), 223 Johnston
    Social Sciences, 214 Social Science Bldg.
  Special Students:
    With degree, 225 Johnston
    Without degree, 216B Johnston
    Students should complete registration by Mar. 9 because advisers will not be available after that date.
    Registration will generally not be permitted after Mar. 23
    Issue of material starts Feb. 13
    Class reservations begin Feb. 16 (see schedule, p 127)
Medical Technology (C-205 Mayo)
  Feb. 16-Mar. 3
*Medicine (1360 Mayo)
  Mar. 21-23
Mortuary Science (114 Vincent)
  Feb. 15-17
Nursing (125 Owre)
  Feb. 16-24
Occupational Therapy (860 Mayo)
  Feb. 16-24
Pharmacy (115 Appleby)
  Feb. 16-Mar. 1
Physical Therapy (860 Mayo)
  Feb. 16-24
Public Health (1325 Mayo)
  Feb. 16-Mar. 9
Technology, Institute of
  Issue of material, 133 Main Eng, Feb. 14, 15
  Class reservations
    Engineering Intern students, Feb. 15
    Other students, Feb. 16-24 (see schedule)
University College (106 Nicholson)
  Issue of material Feb. 15
  Class Reservations begin Feb. 16
*Veterinary Medicine (220 Coffey)
  March 21-23
Education and Graduate Students taking Saturday classes only may also register on Saturday, April 1, at 206 Burton (8 a.m.-12 noon)

Institute of Technology

The alphabetical schedule for the early registration is as follows:

Hours —→	8-9	9-10	10-11	11-12	1-2	2-3	3-4
Feb. 16	N-My	Mu-Mer	Men-Mar	Man-Lis	Lis-Lar	Lan-Kol	Koi-Kap
Feb. 17	Kan-Jer	Jen-Hom	Hol-He	Ha-H	Z-Wi	Wh-W	V-To
Feb. 20	Ti-Su	St-So	Sn-Se	Sc-San	Sam-Ro	Ri-Po	Pl-Pat
Feb. 21	Pas-O	Gu-Gr	Go-Ga	Fu-Fj	Fi-Ens	Eng-Dr	Do-Dah
Feb. 23	Dag-Cl	Ci-Car	Cam-Bri	Bre-Bl	Bj-Be	Ba-Ang	And-Aa
Feb. 24	Completion of Tally						

Engineering Intern students register Wednesday February 15.

* Students in these colleges have normally already registered for the entire year.