

The Bulletin of the UNIVERSITY of MINNESOTA

Class Schedule
Winter Quarter, 1950

Agriculture, Forestry, and Home Economics; Business Administration; Chemistry; Child Welfare; Education; General College; Library Instruction; Medical Departments serving other colleges; Military Science; Naval Science; Physical Education; and Science, Literature, and the Arts



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How to Use the Class Schedule

The *Class Schedule* lists hours and days and room schedules for courses offered by colleges of the University listed on the cover page. Brief course titles and prerequisites are also shown, as well as last-minute changes in course offerings.

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

The following information should appear on your registration blank:

1. The departmental abbreviation listed after each departmental heading (divisional headings are abbreviated in some instances).
2. The course and section numbers for each lecture, recitation or laboratory period for which you are registering.
3. The abbreviated course title listed in the *Class Schedule*.
4. The number of credits shown for the course.
5. The hours and days scheduled for the class.

A list of course fees, including courses requiring deposit cards, may be found on page 45.

Registration Tally Procedure

As part of the registration procedure, you must tally for courses in which class sizes are limited or "controlled." Courses being controlled and college registration offices at which control is maintained are listed on the back cover.

EXPLANATIONS

Course numbering—Courses are designated by department names and numbers.

-A hyphen preceding a course number indicates continuity between that course and the course immediately preceding it in numerical order. Consult the prerequisite to determine whether the course may be taken out of sequence.

Credits—The number of credits is listed in parentheses following the course title.

Prerequisites—Certain courses require for enrolment therein the completion of specific elementary courses, or the possession of some definite qualifications or minimum standing. These are listed in parentheses following the number of credits.

Unless otherwise indicated, courses are numbered as follows: courses primarily for freshmen and sophomores, 1 through 49; for juniors and seniors, 50 through 99, for juniors, seniors and graduate students, 100 through 199; for graduate students only, 200 and over.

The college bulletins list exceptions whereby sophomores with certain minimum grade averages can register for courses normally open only to juniors and seniors.

Work substantially equivalent to courses listed as prerequisites is occasionally accepted in lieu of the prerequisite listed. See your college bulletin for further information.

Information not listed—Course information not listed, or listed as "ar", should be obtained from the department offering the course.

Room changes—When necessary to make them, room changes will be posted on classroom doors.

Building abbreviations—See page 44 for building abbreviations. Maps of the Minneapolis and St. Paul campuses are also included at the back of the *Class Schedule*.

Class hour schedule—Class hours are identified by Roman numerals, and continue for fifty minutes after the beginning time listed below:

| <i>Hour</i> | I | II | III | IV | V | VI | VII | VIII | IX | X |
|-------------------|------|------|-------|-------|-------|-------|------|------|------|------|
| Minneapolis | 8:00 | 9:00 | 10:00 | 11:00 | 12:00 | 1:00 | 2:00 | 3:00 | 4:00 | 5:00 |
| St. Paul | 7:45 | 8:45 | 9:45 | 10:45 | 11:45 | 12:45 | 1:45 | 2:45 | 3:45 | 4:45 |

Symbols—The following symbols are used throughout the bulletin:

* Course may be taken with consent of the instructor irrespective of prerequisites listed.

‡ To receive credit for this course, you must complete all courses listed after the ‡.

§ Credit is not given if the equivalent course listed after the § has been taken for credit.

CALENDAR—WINTER QUARTER

| | |
|--------------|---|
| December 22 | Fees due for students in residence fall quarter in undergraduate colleges |
| January 3, 4 | Registration and payment of fees for new students in all undergraduate colleges who have not already registered |
| January 4 | Classes begin at 8:00 a.m. (7:45 a.m. on St. Paul Campus) |
| January 10 | Last day for registration and payment of fees for the Graduate School, and for teachers in service |
| February 13 | Holiday (February 12, Sunday, Lincoln's birthday) |
| February 22 | Holiday (Washington's birthday) |
| March 10-16 | Final examination period |
| March 16 | Commencement, 8:00 p.m. |

COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS

AGRICULTURAL BIOCHEMISTRY (AGBI)

- 2 Quant Methods (5 cr; prereq 8 cr inorg chem)
VI-IX MWF, 116SnH, Bleidner
- 3 Introd Biochemistry (3 cr; prereq 1)
I TThS, GHAud, Gilles
- 116 Adv Animal Nutrition (3 cr; prereq 6)
III TThS, 116SnH, Schultze
- 118 Lab Probs--Biochemistry (3.5 cr; prereq sr,
cons instr)
Ar
- 120 Proteins (3 cr; prereq* sr, 119)
III MWF, 113SnH, Sandstrom
- 121 Carbohydrates (3 cr; prereq* sr, 119)
II MWF, 113SnH, Smith
- 130 Protein Lab (2 cr; prereq sr, 2, concur regis
120)
VI-VIII TTh, 202SnH, Sandstrom
- 131 Carbohydrate Lab (2 cr; prereq sr, 2, concur
regis 121)
VI-VIII MW, 202SnH, Smith
- 201 Adv Colloids (3 cr; prereq 119, phys chem
103)
Ar, Briggs
- 203 Research Probs (2.5 cr; prereq cons instr)
Ar, Staff
- 205 Spec Topics--Biochem Literature (1.3 cr; pre-
req cons instr)
Ar, Staff
- 208 Cereal Chem Seminar (1 cr; prereq* 108)
Ar, Geddes
- 212 Spec Topics--Nutritional Chemistry (3 cr;
prereq 116, cons instr, read knowl germ)
Ar, Schultze, Boyer
- 213 Seminar--Dairy Chemistry (1 cr; prereq 103,
cons instr)
Ar, Jenness
- 216 Nutrition, Enzymes Seminar (1 cr; prereq
116, cons instr)
Ar, Schultze, Boyer
- 219 Colloid Chem Seminar (1 cr; prereq 119, cons
instr)
Ar, Briggs
- 220 Protein Chem--Seminar (1 cr; prereq 120,
cons instr)
Ar, Sandstrom
- 221 Carbohydrate Chem Seminar (1 cr; prereq
121, cons instr)
Ar, Smith
- 222 Chem of Lipides Seminar (1 cr; prereq 122,
cons instr)
Ar, Briggs
- 224 General Seminar (1 cr; required of agric bio-
chem maj)
Ar, Staff

AGRICULTURAL ECONOMICS (AGEC)

- 1 Prin Economics I (3 cr; †1-2; prereq no fresh,
regis agric, for)
--1, I MWF, 100HH, Lowe, Taylor
--2, III MWF, 109HH, Lowe

- 2 Prin Economics II (5 cr, †1-2; prereq 1)
--1, I MTWThF, 109HH, Lowe, Day
--2, III MTWThF, 100HH, Day, Taylor
- 3 Prin Economics (5 cr; prereq no fresh, maj
HE)
II MTWThF, 109HH, Lowe
- 25 Prin Accounting (4 cr; prereq no fresh, regis
agric, for, HE)
Lect II TThS, 311HH, Koller
Lab VIII-IX Th, 311 HH
- 102 Farm Organization (3 cr; prereq 2)
II TThS, 100HH, Pond
- 131 Market Prices (3 cr; prereq 30, 40)
III TThS, 210HH, Waite
- 141 Market Organiz: Dairy, Poultry Prods (3 cr;
prereq 40)
II MWF, 311HH, Jesness
- 143 Market Organiz: Livestock, Meats (3 cr; pre-
req 40)
III MWF, 311HH, Dowell
- 170 Land Economics (3 cr; prereq 110)
1:30-3:00 WF, 109HH, Dowell
- 191 Adv Agric Statistics (3 cr; prereq 90)
IV MWF, 311HH, Waite
- 206 Seminar--Agric Policy (3 cr)
3:30-5:00 MW, 311HH, Jesness

AGRICULTURAL ENGINEERING (AGEN)

- 3 Mech Drawing (3 cr)
III-IV MWF, 303En, Christopherson
- 11 Appl Mathematics (5 cr; prereq plane geom)
--1, III MTWThF, 103En, Flikke
--2, IV MTWThF, 103En, Allred
- 18 Agric Automotives (3 cr; prereq ME 131,
regis IT)
Lect I TTh, 216En, Strait, Torrance
Lab VIII-X F, 37En
- 23 Gen Physics (5 cr; prereq 11)
Lect III MWF, 101En, Hustrulid
--1, Lab VI-IX T, 102En
--2, Lab VI-IX W, 102En
- 25 Agric Physics II (4 cr; prereq 24)
Lect I TThS, 101En, Hustrulid
--1, Lab VI-VII M, 102En
--2, Lab VI-VII F, 102En
--3, Lab IX-X M, 102En
--4, VI-VII Th, 102En
--5, Lab IX-X Th, 102En
- 31 Prin--Drainage (3 cr)
II MWF, 105En, Larson
- 32 Elem Suppl Irrigation (2 cr)
III TTh, 105En, Allred
- 36 Rural Sanitation, Water Supply (3 cr; prereq
M&M 129, regis IT)
II MWF, 103En, Tyler
- 41 Metal Work (3 cr)
I-II MWF, 106-20En, Dent
- 51 Soil Water Conservation (3 cr; prereq 21,
soils 4, M&M 129 or concur regis, regis IT)
IV MWF, 105En, Manson

- 55 Electricity in Agric (2 cr; prereq 11, 23)
VI TTh, 101En, Hustrulid
- 61 Irrigation (3 cr; prereq 51, regis IT)
I MWF, 105En, Allred
- 73 Steam Boilers, Heat Engines (3 cr; prereq
18, ME 131, regis IT)
Lect VII MF, 105En, Strait
Lab VII-X W, 37, 49En
- 102 Adv Probs in Soil Moist Regulation (2-6 cr;
prereq 61, regis IT)
Ar, Manson, Allred
- 106 Agric Hydrology (3 cr; prereq 51, regis IT)
VI MWF, 105En, Manson
- 112 Farm Building Probs (2-6 cr; prereq 167,
regis IT)
Ar, Otis, Christopherson
- 122 Farm Power, Machinery Probs (2-6 cr; pre-
req sr, 171, regis IT)
Ar, Schwantes, Strait
- 126 Mgt of Agric Machinery (3 cr; prereq 171,
agric econ 102, regis IT)
II TTh and 3 hrs lab ar, Schwantes
- 132 Rural Electrification Probs (2-6 cr; prereq sr,
172, regis IT)
Ar, Hustrulid

AGRICULTURAL JOURNALISM (AGJO)

- 53 Publicity (3 cr; prereq* rhet comm req)
I TThS, 107AgrBot, Swanson

**AGRONOMY AND PLANT GENETICS
(AGRO)**

- 21 Grain Crops (4 cr; prereq no fresh, 1)
Lect VI MWF, 202Ag, Dunham
Lab VII MWF, 201Ag
- 31 Prin Genetics (4 cr; prereq no fresh)
I TThS, 202Ag, Lambert
- 52 Prod, Grad Cereal Crops (4 cr; prereq regis
ME-mill option, 9 cr biol)
Ar, Dunham, Schmid, Lambert, Caldwell
- 121 Grain Crops (4 cr)
Lect VI MWF, 202Ag, Dunham
Lab VII MWF, 201Ag
- 131 Prin Genetics (4 cr)
I TThS, 202Ag, Lambert
- 132 Farm Crops—Pl Breeding (4 cr; prereq 131)
VI-VIII TTh, 202Ag, Rinke

ANIMAL HUSBANDRY (ANHU)

- 1 Livestock Production (4 cr)
—1, II MTWThF, C-St, Harvey
—2, II MTWThF, W-St, Anderson
—3, II MTWThF, E-St, Crane
- 8 Breeds of Livestock (4 cr; prereq no fresh, 1)
III-IV TThS, C-St, Ferrin
- 50 Meat Selection, Utilization (3 cr; prereq regis
agric, HE)
III-IV TThS, MSh, Anderson

- 57 Livestock Feeding II (3 cr; prereq 56)
III MWF, 202Ag, Ferrin
- 112 Animal Breeding (3 cr; prereq agron 31)
IV MWF, 3-St, Winters

DAIRY HUSBANDRY (DYHU)

- 50 Dairy Bacteriology (5 cr; lect only 3 cr;
prereq no fresh, bact 53, cons instr to take
lect separately)
Lect VI MWF, 210HH, Olson
Lab VII-VIII MWF, 212HH
- 103 Dairy Stock Feeding (3 cr; prereq sr, 101,
an husb 56)
II TThS, 9HH, Gullickson
- 106 Seminar II (1 cr; prereq 105)
III F, 210HH, Peterson
- 110 Ice Cream, Frozen Desserts (3 cr; prereq 1, 3)
IV TS, VI-VIII T, 210HH, Combs, Thomas
- 114 Milk By-Products (3 cr; prereq 3)
Lect I TTh, 210HH, Coulter, Morris
Lab VI-VIII Th

**ENTOMOLOGY AND ECONOMIC
ZOOLOGY (ENT)**

- 5 Econ Entomology (5 cr; prereq no fresh,
zool 15)
Lect VIII MWF, 302Hr, Cutkomp
—1, Lab VI-VII MWF, 302Cof, Cutkomp
—2, Lab IX-X MWF, 302Cof, Cutkomp
- 52 Introd Entomology (5 cr; prereq zool 15)
Lect VIII MWF, 313Z, Mickel
—1, Lab VI-VII MWF, 401Z
—2, Lab IX-X MWF, 401Z
- 56 For Entomology (5 cr; prereq zool 15)
Lect VIII MWF, 107AgrBot, Hodson
—1, Lab VI-VII MWF, 307Cof
—2, Lab IX-X MWF, 307Cof
- 64 Introd Fish, Wildlife Mgt (5 cr; prereq zool 3,
bot 50 or for 20)
III MTWThF, 107En, Marshall, Smith
- 118 An Ecology (3 cr; prereq 15 cr zool or ent,
cons instr)
VI-VIII TTh, 307Cof, Hodson
- 126 Adv Gen Entomology (3 cr; prereq 15 cr zool
or ent)
Lect I TTh, 211Z, Mickel
Lab I-III S, 401Z
- 129 Insect Physiology (4 cr; prereq sr, 15 cr zool
or ent, cons instr)
Lect VI WF, 8Cof, Richards
Lab VII-IX WF, 8Cof
- 142 Insects in Relation to Pl Diseases (3 cr; pre-
req 8 cr ent or pl path)
I-II MWF, 302Cof, Christenson, Granovsky
- 145 Parasitic Protozoa (3 cr; prereq 15 cr zool,
cons instr)
VII-IX TTh, 208Z, Wallace
- 165 Wildlife Mgt (3 cr; prereq 63, 64, zool 46-47,
bot 50, pl path 53)
I MWF, 100Cof, Marshall

- 169 Fishery Biology, Mgt (5 cr, †168-169; prereq* zool 53, 118, 119, 121, bot 57, biostat 110, 111)
Lect VI MWF, 100Cof, Smith
Lab VII-VIII MWF, 100Cof
- 176 Legal, Reg Aspects—Pest Control (3 cr; prereq* 15 cr ent incl 5)
III MWF, 307Cof, Aamodt
- 197 Introd Research (ar cr, prereq sr, cons dept)
Ar

FOOD TECHNOLOGY (FOOD)

- 52 Food Analysis (2 cr; prereq agric biochem 2, 3)
VI-VIII TTh, 102SnH, Jenness, Boyer
- 102 Food Technology (3 cr; prereq agric biochem 3, 52, bact 53, course in phys)
II TThS, 113SnH
- 104 Froz Food Processing, Storage (3 cr; prereq bact 53, agric biochem 5 or 6)
IV MWF, 102Hr, Winter

FORESTRY (FOR)

- 3 Dendrology (3 cr)
II MWF, GHAud, Rees
- 8 For Mensuration (3 cr; prereq 6, math 1, 6)
Lect IV MW, GHAud, Brown
—1, Lab VI-VIII M, 206GH, Brown
—2, Lab VI-VIII W, 206GH, Brown
—3, Lab II-IV S, 206GH, Brown
- 20 Grazing (3 cr; prereq no fresh)
II TThS, 203GH, Allison
- 54 Wood Structure, Identification (3 cr; prereq 3, 4)
—1, VI-VIII MW, 211GH, Rees
—2, VI-VIII TTh, 211GH, Rees
—3, IX-X MWF, 211GH, Rees
- 57 Wood Utilization (3 cr; prereq sr, 53, 54)
I MWF, 201GH, Kaufert
- 101 Adv Dendrology (3 cr; prereq 3, 4)
Ar, Rees
- 111 Adv For Mensuration (3 cr; prereq* grad, 9)
VI-X T, 206GH, Brown
- 113 Wood Pulp, Paper (3 cr)
IX MWF, 201GH, Hossfeld
- 115 Mech, Phys Properties of Wood (3 cr; prereq 114)
I-II TThS, 3GH, Rees
- 131 For Policy (3 cr; prereq sr)
I MWF, 203GH, Allison
- 137 Seeding, Planting (3 cr)
Lect IV TTh, 203GH, Hansen
—1, Lab VI-VIII T, Hansen
—2, Lab VI-VIII M, Hansen
- 140 Forest Mgt (5 cr; prereq grad, 128, 132)
III MTWThF, 203GH, Allison
- 141 Prin Silvics (3 cr; prereq grad, 127)
II TThS, 201GH, Hansen
- 143 For Recreation (3 cr; prereq grad)
IV MWF, 202GH, Duncan

- 156 Maj Report (2 cr; prereq grad)
- 157 Maj Report (2 cr; prereq grad)
- 158 For Seminar (1 cr; prereq grad)
3:00-5:00 Th, 202GH, Staff
- 159 For Seminar (1 cr; prereq grad)
3:00-5:00 Th, 202GH

HOME ECONOMICS (HE)

- 1 Choice, Care of Clothing (4 cr, §GC15, no sr in HE or men)
—1, II MTWTh, 313HE, Quist
—2, III MTWTh, 313HE, Morris
- 3 Clothing Construction A (3 cr; prereq 1, 3rd qtr fresh)
—1, VI-VIII TTh, 304HE, Quist
—2, VI-VII MWF, 304HE, Quist
- 4 Clothing Construction B (3 cr; prereq no fresh, 3)
—1, II-III MWF, 305HE, Morris
—2, VI-VIII TTh, 305HE, Gorham
- 6 Institution Experience (3 cr; prereq institution mgt maj, cons instr)
Ar, Scholl
- 17 Personal, Family Living (3 cr, not open to seniors)
—1, IV MWF, 213HE, Studley
—2, VII MWF, 213HE, Studley
- 20 Introd Related Art (4 cr, §56, no sr in HE)
—1, II MTWTh, 203HE, Esteros
—2, III MTWTh, 203HE, Myren
- 21 Color, Design I (3 cr; prereq 20)
—1, VI-VII MWF, 402HE, Myren
—2, VI-VIII TTh, 402HE, Myren
- 22 Color, Design II (3 cr; prereq 1, 20)
—1, II-III MWF, 402HE, Esteros
—2, VI-VIII TTh, 401HE, Myren
- 23 Adv Design (3 cr; prereq no fresh, 21)
II-III TThS, 110HE, Paulsen
- 27 Rel Art Probs (3 cr; prereq jr, 21)
—1, II-III MWF, 401HE, Paulsen
—2, VII-VIII MWF, 401HE, Paulsen
- 31 Introd Nutrition (3 cr, §30, not open to sr)
—1, II MWF, 213HE, Gibler
—2, 9:45-11:00 TTh, 213HE, Gibler
- 35 Nutrition II (4 cr; prereq no fresh, 33)
Lect II MWF, 307HE, Nymon
Lab VI-VIII T, 211HE
- 40 Food Preparation (5 cr; prereq 2 qtrs chem)
—1, III-IV MTWThF, 103HE
—2, VI-VII MTWThF, 103HE, Lawson
—3, VIII-IX MTWThF, 103HE, Lawson
- 41 Food Mgt Marketing (5 cr; prereq no fresh, 31, 40)
—1, III-IV TWThF, V WF, 207HE, Turnbull
—2, III-IV MTWTh, V TTh, 207HE, Turnbull
—3, VII-VIII MTWTh, IX TTh, 207HE, Trammell

- 45 Quantity Cookery (6 cr; prereq 40, 41, maj HE)
Lect V TTh, 213HE, Higgins
—1, Lab 8:00-11:00 TThS, Cafeteria, Higgins
—2, Lab 8:00-11:00 MWF, Cafeteria, Higgins
- 46 Cafeteria Exper (3 cr; prereq no fresh, maj HE)
Lect IV W, Cafeteria, Scholl
—1, Lab IV-V MF, Cafeteria, Scholl
—2, Lab IV-V TTh, Cafeteria, Scholl
- 49 Household Equipment (3 cr; prereq* no fresh, agric engin 35)
—1, VI-VIII TTh, 106HE, Fuller
—2, VII-VIII MWF, 106HE, Fuller
- 50 Textiles (3 cr; prereq 1)
—1, III-IV MWF, 307HE, Gorham
—2, VI-VII MWF, 307HE, Morris
- 53 Adv Clothing (3 cr; prereq 4, 50 or concur regis)
VI-VII MWF, 305HE, Gorham
- 70 Adv Food Preparation (3 cr; prereq agric biochem 1, HE 41)
VI-VIII TTh, 107HE, Turnbull
- 85 Home Mgt Prin (3 cr; prereq 40)
VII MWF, 203HE, Jeary
- 86 Home Mgt Lab (4 cr; prereq 85 or concur regis, PH 52a,b)
—1, I S and ar, Home Mgt House, Studley
—2, I S and ar, Home Mgt House, Jeary
- 89 Spec Probs in Household Equipment (3 cr; prereq agric engin 35, HE 49, cons instr)
Ar, Fuller
- 107 Tex Analysis (3 cr; prereq 50, agric biochem 1, 2)
VI-VIII MWF, 311HE, Phelps
- 120 Art History (3 cr)
VIII MWF, 203HE, Esteros
- 122 Adv Inter Design (3 cr; prereq* 27, 120)
III-IV TThS, 402HE, Esteros
- 125 Adv Costume Design (3 cr; prereq* 3, 22)
IV-V MWF, 402HE
- 142 Exper Cookery (3 cr; prereq maj HE, 40, agric biochem 1)
VI-VIII MW, 107HE, Turnbull
- 170 Family Nutrition (3 cr; prereq 31, 40, agric biochem 1, 3 cr physiol)
III MWF, 213HE, Biester, Nymon
- 171 Child Nutrition (3 cr; prereq 170, HE educ 90)
III MW, 114HE, Leichsenring, and III F (Mpls) or IV ar (Mpls) or V ar
- 176 Adv Nutrition (4 cr; prereq 35 or concur regis, agric biochem 2)
Lect IV MW, 313HE, Biester
Lab II-IV TTh, 211HE
- 178 Clin Probs in Nutrition (2 cr; prereq maj HE, 170, 35 or concur regis)
Lect V M, 313HE, Gihler
—1, Lab VI-VIII T, Mpls campus
—2, Lab VI-VIII Th, Mpls campus
- 179 Read in Nutrition (2 cr; prereq 170)
V WF, 307HE, Gihler

- 180 Home Planning, Furnishings (5 cr; §GC 16, FL 15, HE 24, 57; prereq 27)
IV-V MTWF, 401HE, Ludwig
- 209 Seminar—Textiles, Clothing (1 cr; prereq cons instr)
Ar, Phelps

HORTICULTURE (HORT)

- 1 Gen Horticulture (3 cr)
III MWF, GHAud, Alderman, Weir
- 25 Prin Plant Composition (3 cr; prereq* 21 or 22)
VI-VIII MF, 8Hr, Phillips
- 56 Plant Propagation (3 cr; prereq 6 cr bot)
VI-VIII T, VI-VII Th, 8Hr, Widmer
- 110 Hort Crop Breeding (3 cr; prereq agron 31)
III TThS, 302Hr, Wilcox
- 121 Small Fruit Culture (3 cr; prereq* maj or min hort, 6 or 32, 9 cr bot)
II MWF, Brierley
- 139 Veg Crops II (3 cr; prereq 32, 9 cr bot)
Ar, Nylund
- 191 Spec Probs (2-4 cr; prereq cons instr)
Ar, Alderman, Staff
- 194 Hort Seminar (1 cr; prereq sr, 9 cr hort)
3:00-5:00 W, 106Hr, Alderman, Staff

ORIENTATION (ORIE)

- 1 Col Orientation Lectures (1 cr)
V M, 107AgrBot, McFarland

PLANT PATHOLOGY AND AGRICULTURAL BOTANY (PLPA)

- 9 Seed Technology, Testing (3 cr; prereq no fresh, 9 cr bot)
II-III TThS, 106AgrBot, Larson
- 10 For Pathology (5 cr, §1; prereq no fresh, 6 cr bot)
—1, V-VII MWF, 103, 105PP, C. Christensen
—2, VII-IX MWF, 103, 105PP, C. Christensen
- 102 Physiol of Seeds (3 cr; prereq* 15 cr pl sci)
II MW, 106AgrBot and I F, 202AgrBot, Heggeness
- 104 Industrial Mycology (3 cr; prereq 56 or 1 or 10)
II MWF, III F, 103, 106PP, C. Christensen
- 106 Mycology (3-5 cr; prereq 1 or 10)
VI-VIII TTh, 110PP, Dossdall
- 111 Diseases of Field Crops (4 cr; prereq 1 or 10)
III-IV TThS, 103, 105, 106PP, J. Christensen, Kernkamp
- 114 Adv For Pathology (3 cr; prereq 1 or 10)
VI-VIII T, VII-VIII Th, C. Christensen
- 120 Adv Plant Pathology (3 cr; prereq* 14 cr pl sci)
—1, VII-IX MWF, 103, 105PP, C. Christensen
—2, V-VII MWF, 103, 105PP, C. Christensen

- 142 Insects in Relat to Pl Disease (3 cr; prereq 8 cr ent or pl path)
I-II MWF, 302Cof, J. Christensen, Granovsky
- 162 Temp Relations of Crop Plants (3 cr; prereq* 15 cr pl sci)
Ar, Landon

POULTRY HUSBANDRY (POHU)

- 1 Poultry Prod (4 cr)
IV MTWF, 230TSH, Canfield, Sloan
- 55 Spec Probs (1-3 cr; prereq 9 cr)
Ar, 135TSH, Staff
- 102 Poultry Breeding (4 cr; prereq 1, agron 31)
Lect I MWF, 135TSH, Shoffner
Lab ar

RHETORIC (RHET)

- 1-2-3 Communication I, II, III (3 cr per qtr)
All students registering for rhetoric for the first time will meet in 107 Agricultural Engineering building the first class hour every day for the first week.
Returning students will report to Green Hall auditorium at eight o'clock the first day of class.
Assignments to I MWF or I TThS sections will be made at those times.
- 12 Debate, Discussion (3 cr; prereq no fresh, rhet comm req)
IV TThS, 312En, Shepard
- 22 Pub Speaking (3 cr; prereq no fresh, rhet comm req)
—1, II MWF, 311En, Woods
—2, III MWF, 307En, Nichols
—3, IV MWF, 312En, Nichols
—4, VI MWF, 312En, Sandquist
—5, VII MWF, 312En, Hagen
—6, II TThS, 307En, Hagen
—7, III TThS, 307En, Shepard
—8, IV TThS, 120TSA, Hagen
- 26 Orig Writing (3 cr; prereq no fresh, rhet comm req)
III MWF, 311En, Woods
- 28 Play Production (3 cr; prereq no fresh, rhet comm req)
III TThS, 120TSA, Hagen
- 32 Engl Literature II (3 cr; prereq no fresh, rhet comm req)
II TThS, 312En, Rosegrant
- 33 Amer Life, Literature (3 cr; prereq no fresh, rhet comm req)
II MWF, 307En, Seidenkranz
- 51 Exposition (3 cr; prereq rhet comm req)
—1, III MWF, 312En, Rosegrant
—2, IV MWF, 308En, Thurston
—3, III TThS, 312En, Brown
—4, IV TThS, 307En, Seidenkranz
- 54 Adv Pub Speaking (3 cr; prereq 22)
II MWF, 120TSA, Sandquist

- 60 Contemp Literature (3 cr; prereq rhet comm req)
IV MWF, 307En, Woods
- 91 Amer Spch for Foreign Students (no cr)
Ar, 311En, Woods

SOILS (SOIL)

- 4 Soils (3 cr; prereq no fresh, inorg chem 2 or 5)
II MWF, 204So, Caldwell
- 52 Prod, Grad of Cereal Crops (4 cr; prereq regis ME-mill opt, 9 cr gen biol)
Ar, Caldwell, Lambert, Schmid, Dunham
- 108 Phys Properties of Soils (3 cr; prereq 4)
Lect VI T, 204So, McMiller
—1, Lab VII-IX T, 201So
—2, Lab VII-IX Th, 201So, McMiller
- 110 Chem of Soil (3 cr; prereq 4)
I TThS, 204So, MacGregor

VETERINARY MEDICINE (VET)

- 51 Anat, Physiol, Hyg Dom Animals (3 cr)
I TThS, 103Ve, Sellers
- 102 An Anatomy (5 cr; prereq regis 1st yr vet med, grad with cons instr)
VI-VIII TWThF, IX WF, 103Ve, Kitchell
- 104 Spec Studies in An Anatomy (1-3 cr; prereq 101)
Ar, Kitchell, Weber
- 106 Vet Surg Anatomy (1 cr; prereq* 3rd yr vet med)
VI-IX M
- 109 Anat, Physiol, Hyg of Poultry (3 cr; prereq zool 15, poul husb 1)
VI MWF, 135TSH, Pomeroy
- 112 An Histology, Embryology (5 cr; prereq regis 1st yr vet med, grad with cons instr)
I-III MWF, IV MW, 103Ve, Weber
- 114 Spec Studies in An Histology, Embryology (1-3 cr; prereq 111)
Ar, Kitchell, Weber
- 123 An Bacteriology (5 cr; prereq 10 cr zool, 13 cr chem)
II-IV MWF, 207TEH, Pomeroy
- 136 An Physiology (7 cr; prereq* 103, 113, physiol chem 103)
Lect I MTWThF, 207TEH, Hemingway, Sellers
Lab II-IV TTh
- 151 An Pathology (8 cr; prereq* sr, 135)
VI MTWThF, VII-IX MWF, 207TEH, Kernkamp, Sautter
- 171 Clin Conf (1 cr; prereq* 3rd yr vet med)
VI F
- 173 Spec An Surgery (5 cr; prereq* 3rd yr vet med)
I S, VI-IX TTh
- 178 Lge An Surgery (5 cr; prereq* 3rd yr vet med)
I MTWThF

SCHOOL OF BUSINESS ADMINISTRATION

BUSINESS ADMINISTRATION (BA)

- 51 Contracts (3 cr, †51 and 52 or 53, §econ 28; prereq econ 7)
Lect VI T, 313Z, Neville, others
—1, I TTh, 113VH
—2, I TTh, 115VH
—3, II TTh, 115VH
—4, II TTh, 205VH
- 52 Agency, Partnership, Corps (3 cr, †51 and 52 or 53; prereq 51)
Lect IV Th, BuAud, Neville, others
—1, I TTh, 205VH
—2, I TTh, 221VH
—3, II TTh, 221VH
—4, II TTh, 308MurH
—5, III TTh, 115VH
—6, III TTh, 205VH
—7, III TTh, 211Z
—8, VI TTh, 1VH
—9, VII TTh, 115VH
—10, VIII TTh, 2VH
- 57 Money, Banking (3 cr, §econ 3)
II TThS, 2VH
- 58 Elem Pub Finance (3 cr, §econ 189, 192; prereq 7)
—1, II TThS, 4VH, Heller, Borak, others
—2, IV MWF, 207VH
—3, VI MWF, 4VH
- 60 Fire, Marine Insurance (3 cr; prereq econ 50)
IV MWF, 205VH, Graves
- 68 Sales Mgt (3 cr; prereq 77)
VI MWF, 115VH, Lewis
- 69 Retail Store Mgt (3 cr; prereq 77)
VIII MWF, 2VH, Canoyer
- 70 Stat Survey (3 cr, §econ 5, soc 45; prereq econ 7)
I TThS, 6VH
- 71 Transport—Services, Charges I (3 cr, §econ 172; prereq econ 7)
—1, II MWF, 4VH, Nightingale, others
—2, VI MWF, 1VH
—3, VIII MWF, 4VH
- 72 Transport—Services, Charges II (3 cr, prereq 71 or econ 172)
I MWF, 4VH, Nightingale
- 77 Survey Marketing (3 cr, §econ 185; prereq econ 7)
Lect III M, 06Bo, Vaile, others
—1, I WF, 115VH
—2, II TTh, 211Z
—3, IV WF, 306VH
—4, VI TTh, 6VH
—5, VII TTh, 113VH
- 86 Office Mgt (3 cr; prereq econ 7)
VII MWF, 2VH, Donaldson
- 87 Advertising Probs (3 cr, §88; prereq jour 18, BA 77, psych 56, open to jour adv majors)
VIII MWF, 115VH, Vaile
- 88 Advertising (3 cr, §87; prereq 77, psych 56)
II MWF, 207VH, Lewis
- 89 Production Mgt (3 cr; prereq econ 7)
—1, II TThS, 207VH, Filipetti, others
—2, III MWF, 1VH
—3, VIII MWF, 113VH
- 91 Tab Equipment Lab (1 cr; prereq econ 5, 23)
Lect VI T, 4VH, Leary
—1, V Th, 307VH
—2, VI Th, 307VH
—3, VII T, 4VH
—4, VII W, 306VH
—5, VIII W, 306VH
- 93 Accounting Lab (1 cr; prereq econ 23)
—1, VII-VIII M, 307VH
—2, VII-VIII T, 307VH
- 94 Cost Accounting Lab (1 cr, to be taken concur with 153)
—1, V-VI T, 307VH
—2, V-VI Th, 301VH
—3, VII-VIII M, 306VH
—4, VII-VIII F, 306VH
- 98 Honors Course (ar cr; prereq cons dean)
Ar
- 112 Bus Statistics (3 cr; prereq econ 5)
—1, I TThS, 1VH, Mudgett, Gaumnitz
—2, IV MWF, 2VH
—3, VI MWF, 6VH
- 118 Auditing Procd (3 cr; prereq 150)
Lect IV M, 306VH, Lund, others
Lab VI-VII TTh, 306VH
- 130 Cost Accounting Survey (3 cr, §152; prereq econ 23)
—1, II MWF, 6VH, Ostlund, Wheeler, others
—2, III TThS, 2VH
—3, VI MWF, 301VH
- 133 Stand Costs (3 cr; prereq 130 or 153)
II TThS, 6VH, Ostlund
- 134 Income Tax Accounting (3 cr; prereq 150)
I MWF, 207VH, Nelson
- 136 Internal Auditing, Account Control (3 cr; prereq 150)
III TThS, 221VH, Reighard
- 139 Analysis Finan Statements (3 cr; prereq econ 23)
—1, III MWF, 6VH, Heilman, others
—2, IV MWF, 6VH
- 146 Investments (3 cr; prereq econ 155)
II MWF, 221VH, Stehman
- 150 Intermed Accounting I (3 cr; prereq 139, math 20)
—1, III MWF, 113VH, Heilman, others
—2, VI MWF, 221VH
- 151 Intermed Accounting II (3 cr; prereq 150)
III TThS, 6VH, Heilman, others
- 152 Cost Accounting (3 cr, §130; prereq econ 23)
VII MWF, 115VH, Wheeler
- 153 Cost Accounting (3 cr; prereq 152)
—1, IV MWF, 221VH, Wheeler
—2, VIII MWF, 6VH
- 156 Finance Mgt (3 cr; prereq econ 155)
III MWF, 221VH, Stehman

- 167 Introd Ind Relations (3 cr; prereq econ 161)
 —1, I TThS, 4VH, Turnbull, others
 —2, VI MWF, 207VH
- 170 Motion Economy (3 cr; prereq 184)
 Lect II T, 301VH, Immer
 —1, II-III Th, 301VH
 —2, II-III S, 301VH
- 173 Market Analysis, Research (3 cr; prereq sr, 77, econ 5)
 IV MWF, 301VH
- 181A Sr Topics—Accounting (3 cr; prereq sr)
 I TThS, 2VH, Reighard
- 181B Sr Topics—Bus Finance (3 cr; prereq sr)
 VII MWF, 205VH, Stehman, Upgren
- 181C Sr Topics—Marketing (3 cr; prereq sr, 77)
 VI-VII½ TTh, 2VH, Lewis
- 181D Sr Topics—Ind Relations (3 cr; prereq sr 180D)
 —1, VII½-VIII TTh, 1VH, Yoder
 —2, VIII-IX½ MW, 207VH
- 181E Sr Topics—Office Mgt (3 cr; prereq sr, 180E)
 IV MWF, 210VH, Donaldson
- 181F Sr Topics—Statistics (3 cr; prereq sr, 180F)
 VI½-VII TTh, 221VH, Mudgett
- 181G Sr Topics—Production Mgt (3 cr; prereq sr, 180G)
 —1, III MWF, 115VH, Filipetti
 —2, VIII MWF, 221VH
- 181I Sr Topics—Transportation (3 cr; prereq* sr, 72)
 VII-VIII½ TTh, 6VH, Nightingale
- 183 Practice Course (ar cr; prereq cons advis)
 Ar
- 4, III MWF, 311MurH
 —5, III TThS, 207VH
 —6, IV MWF, 143Ph
 —7, V MWF, 221VH
 —8, VI MWF, 6F
 —9, VII MWF, 100NH
- 7 Prin Economics (5 cr; †6-7, \$9, 63; prereq 6)
 Lect I TTh, BuAud, Smith, others
 —1, I MWF, 301VH
 —2, I MWF, 311Mur
 —3, II MWF, 9F
 —4, II MWF, 103NH
 —5, II TThS, 306VH
 —6, III MWF, 301VH
 —7, III MWF, 302MurH
 —8, III TThS, 302MurH
 —9, IV MWF, 311MurH
 —10, IV TThS, 221VH
 —11, V MWF, 207VH
 —12, VI MWF, 253TSF
 —13, VI MWF, 107TSMb
 —14, VII MWF, 107TSMb
 —15, VII MWF, 115TSMb
 —16, VIII MWF, 259TSF
- 8 Gen Economics (3 cr, \$6; prereq no fresh)
 —1, II MWF, 211Z, Filipetti, others
 —2, III MWF, 211Z
 —3, IV MWF, 113F
 —4, VI MWF, 100NH
- 9 Gen Economics (3 cr, \$7; prereq 8)
 —1, I MWF, 211Z, Filipetti, others
 —2, II TThS, 420MurH
 —3, IV MWF, 420MurH
 —4, VI MWF, 420MurH
- 22 Prin Accounting (4 cr; prereq no fresh)
 Lect VI T, BuAud, Heilman, others
 —1, I MWF, 306VH
 —2, I TThS, 306VH
 —3, II MWF, 306VH
 —4, III MWF, 306VH
 —5, III TThS, 306VH
 —6, IV MWF, 257TSF
 —7, IV TThS, 306VH
 —8, V MWF, 306VH
 —9, VI MWF, 306VH
 —10, VII MWF, 111C
 —11, VIII MWF, 111C
- 23 Prin Accounting (4 cr; prereq 22)
 Lect II T, MNHAud, Heilman, others
 —1, I MWF, 307VH
 —2, I TThS, 307VH
 —3, II MWF, 307VH
 —4, III MWF, 307VH
 —5, III TThS, 307VH
 —6, IV MWF, 307VH
 —7, IV TThS, 2VH
 —8, V MWF, 307VH
 —9, VI MWF, 307VH
 —10, VI MWF, 257TSF
 —11, VII MWF, 257TSF
 —12, VII MWF, 420MurH
 —13, VIII MWF, 302MurH

ECONOMICS (ECON)

- 2 Bus History (5 cr, †1-2)
 Lect III TTh, NHAud, Heaton, others
 —1, I MWF, 205VH
 —2, I TThS, 301VH
 —3, II MWF, 301VH
 —4, III MWF, 420MurH
 —5, IV MWF, 109TSF
 —6, V MWF, 2VH
 —7, VI MWF, 218P
 —8, VII MWF, 218P
 —9, VIII MWF, 218P
- 5 Elem Statistics (5 cr, §soc 45, BA70; prereq no fresh)
 Lect II F, MNHAud, Kozelka, others
 —1, II MTWTh, 307MNH
 —2, III MTWTh, 307MNH
 —3, IV MTWTh, 307MNH
 —4, VI MTWTh, 307MNH
 —5, VIII MTWTh, 211Z
- 6 Prin Economics (5 cr, †6-7, §8, 62; prereq no fresh)
 Lect VII TTh, NHAud, Smith, others
 —1, I MWF, 221VH
 —2, II MWF, 420MurH
 —3, II TThS, 307VH

- 28 Bus Law (3 cr, §BA51; prereq soph or jr with 6 cr econ, sr)
I MWF, 18ME, Palmer
- 30 Elem Retail Accounting (3 cr; for pharm; prereq 10)
—1, I MWF, 201WuH
—2, II MWF, 201WuH
- 32 Begin Typing (1 cr)
—1, I MTWThF, 209VH, Donaldson, others
—2, VI MTWThF, 211VH
—3, VI MTWThF, 209VH
—4, VII MTWThF, 211VH
- 33 Intermed Typing (1 cr, †33-34; prereq 30 words per min)
—1, I MTWThF, 211VH, Donaldson, others
—2, IV MTWThF, 211VH
—3, VIII MTWThF, 211VH
- 34 Typing Procedures (2 cr, †33-34; prereq no fresh, 33, 45 words per min)
VII MTWThF, 209VH, Peterson
- 35 Office Practice (3 cr; prereq 33)
IV MWF, 209VH, Peterson
- 37 Shorthand (3 cr, †37-38-39; prereq* no fresh, 33)
II MTWThF, 211VH, Donaldson, others
- 38 Shorthand (3 cr, †37-38-39; prereq 37)
—1, II MTWThF, 209VH, Donaldson, others
—2, III MTWThF, 211VH
- 41 Secretarial Procedures (3 cr, †40-41; prereq 40)
III MTWThF, 209VH, Riley
- 50 Insurance Principles (3 cr; prereq 7)
—1, IV TThS, 1VH, Graves
—2, VIII MWF, 1VH
- 63 Money, Cycles, Taxation (3 cr, none towards minor, §7; prereq 62)
I MWF, 113VH
- 80 Intermed Econ Analysis (3 cr, †80-81, §103-104; prereq 20 cr soc sci incl 7)
—1, I MWF, 2VH, Boddy, others
—2, II MWF, 113VH
—3, III MWF, 2VH
—4, VII MWF, 221VH
- 81 Intermed Econ Analysis (3 cr; prereq 80)
—1, I MWF, 6VH, Boddy, others
—2, II MWF, 259TSF
—3, II TThS, 113VH
—4, III MWF, 207VH
—5, III TThS, 113VH
—6, IV MWF, 113VH
—7, VI MWF, 113VH
—8, VII MWF, 207VH
—9, VIII MWF, 205VH
- 98 Honors Course (ar cr; prereq cons maj adv) Ar
- 104 Adv Econ Theory (3 cr; prereq 103)
VII MWF, 113VH, Garver
- 122 Theory—Statistics (3 cr; prereq 121)
II MWF, 205VH, Mudgett
- 127 Compar Banking (3 cr; prereq 142)
IV MWF, 115VH, Myers
- 140 Co-op Movement (3 cr; prereq 7)
VI MWF, 205VH, Canoyer
- 142 Monetary, Bank Policy (3 cr; prereq 3, 7)
—1, III TThS, 1VH, Myers, others
—2, IV MWF, 4VH
—3, VII MWF, 110P
- 149 Bus Cycles (3 cr; prereq* sr, 142)
—1, III MWF, 4VH, Uppgren, others
—2, VII MWF, 1VH
- 155 Corp Finance (3 cr; prereq 3, 7)
—1, II MWF, 1VH, Stehman, others
—2, II TThS, 1VH
—3, VII MWF, 4VH
- 161 Labor Probs, Trade Unionism (3 cr; prereq 7)
Lect III TTh, MNHAud, Yoder, others
—1, I M, 115VH
—2, I M, 153TSF
—3, II S, 308MurH
—4, IV F, 259TSF
—5, VII Th, 205VH
—6, VII Th, 207VH
- 162 Lab, Soc Movements (3 cr; prereq 161)
VI MWF, 2VH, Turnbull
- 164 Lab Legislation, Soc Insurance (3 cr; prereq 161)
III TThS, 4VH, Turnbull
- 175 Govt Reg—Business (3 cr; prereq 80)
—1, I MWF, 1VH, Papandreou, others
—2, IV MWF, 1VH
- 178 Econ of Consumption (3 cr; prereq 7)
II MWF, 2VH, Canoyer
- 185 Econ—Marketing (3 cr, §BA 77; prereq 7)
VII MWF, 6VH, Vaile
- 186 Intl Econ Relations (3 cr; prereq 176)
II MWF, 113VH, Uppgren
- 190 Natl Income Analysis (3 cr; prereq 20 cr econ and/or BA)
IV-V½ TTh, 210VH, Papandreou
- 192 Pub Finance (3 cr, †191-192, §189, BA 58; prereq 191)
III MWF, 205VH, Heller
- 204 Seminar—Econ Theory (3 cr)
VIII½-IX TTh, 210VH, Garver
- 234 Seminar—Public Finance (3 cr; prereq 233)
VII-VIII½ WF, 210VH, Heller
- 244 Seminar—Money, Banking (3 cr; prereq 243)
VIII½-IX MW, 210VH, Uppgren
- 251 Seminar—Ind Relations (3 cr)
VII-VIII½ TTh, 210VH, Yoder
- 257 Seminar—Account Theory (3 cr)
VII-VIII½ MW, 301VH, Heilman

INSTITUTE OF CHILD WELFARE (CW)

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| <p>40 Child Training (3 cr; prereq no fresh, psych 2) —1, V MW, 202Pt, Peterson —2, VI TTh, 202Pt, Fuller</p> <p>80 Child Psychology (3 cr; prereq psych 2) IV MWF, 202Pt, Roff</p> <p>130 Motor, Ling, Intellect Development (3 cr; prereq sr, 12 cr psych) III MWF, 202Pt, Templin</p> <p>131 Person, Emotion, Soc Development (3 cr; prereq sr, 12 cr psych) I MWF, 202Pt, Anderson</p> <p>-134 Research Methods (2 cr; prereq sr, 10 cr psych or educ psych incl stat) VII-VIII TTh, 204E Pt, Roff</p> <p>140 Behavior Probs in Younger Children (2 cr; prereq sr, 12 cr psych, educ psych or soc) VIII-IX Th, 202Pt, Blodgett</p> <p>141 Behavior Probs in Older Children (2 cr; pre- req sr, 12 cr psych, educ psych or soc) III-IV S, 202Pt, Blodgett</p> <p>-151 Child Education (2 cr; prereq sr, 12 cr psych) VIII TTh, 101NH, Fuller</p> <p>-221 Seminar—Cur Research (1 cr) Ar</p> | <p>224 Seminar—Developmental Theory (1 cr; pre- req cons instr) Ar</p> <p>226 Seminar—Proj Methods with Children, Ado- lescents (2 cr; prereq cons instr) Ar</p> <p>-231 Seminar—Rec Literature (1 cr) IX M, 202Pt, Anderson</p> <p>-241 Practicum—Behavior Probs (ar cr; prereq cons instr) Ar</p> <p>250 Internship—Prof Work with Children (ar cr; prereq cons instr) Ar</p> <p>-271 Read, Research in Child Dvelopment (ar cr) Ar</p> <p>274 Technique, Field Work in Parent Education (ar cr; prereq cons instr) Ar</p> <p>290 Mental Exam Preschool Child (4 cr; prereq cons instr) Ar</p> |
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COLLEGE OF EDUCATION

AGRICULTURAL EDUCATION (AGED)

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|---|--|
| <p>1 Introd Agric Education (1 cr) VI M, 301Hr, BJORAKER</p> <p>54 Rural Educ, Commun Leadership (2 cr; no fresh) —1, IV-V T, 301Hr, Peterson —2, IV-V Th, 301Hr, Peterson</p> <p>81 Teach Agriculture (3 cr; prereq educ 55B) IV MWF, 301Hr, Kitts</p> <p>91 Superv Teach Experience (6 cr; prereq sr, 82, c aver in maj) Ar, Kitts</p> <p>101 Young Farmer Educ in Agriculture (2 cr; pre- req* 91) II WF, 301Hr, Kitts</p> <p>102 Adult Educ in Agric (2 cr; prereq* 91) II TTh, 301Hr, Kitts</p> <p>103 Facilities, Materials (3 cr; prereq* 91) III MWF, 301Hr, Peterson</p> <p>104 Planning Programs (2 cr; prereq* sr, 91) Ar</p> <p>145 Integ Course of Study in Agric (2 cr; pre- req sr, 10 cr educ) Ar, Peterson</p> <p>154 Rural Education, Community Leadership (2 cr; prereq 10 cr educ) —1, IV-V T, 301Hr, Peterson —2, IV-V Th, 301Hr, Peterson</p> | <p>232 Research—Agric Education (3-9 cr; prereq 15 cr educ) Ar</p> <p>286 Cur Probs in Agric Education (3-6 cr; prereq cons instr) II-IV S, 301Hr, Peterson, Staff</p> |
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ART EDUCATION (ARED)

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| <p>-18 Survey of Art in Life, Education (3 cr) —1, I-II MWF, 109J, Page —2, VII-VIII MWF, 109J, Gayne —3, VI-VIII TTh, 109J, Page —4, I-II TThS, 109J, Hastie</p> <p>-57 Prin, Exper in Art Education (5 cr) III-IV TTh, 109J, Hastie</p> <p>81B Puppetry in Art Education Programs (2 cr) IX-X WF, 109J</p> <p>84 Teach Art in Elem School (3 cr; prereq 17, 18, 19) VII TTh and ar hr, 207NH, Gayne</p> <p>-87 Teaching, Supervision of Art (4 cr, †86-87-88; prereq 86) IX-X T and hr ar, 109J, Hastie</p> <p>-152 Curric Building in Art Education (3 cr) II-IV S, 109J</p> <p>156 Intercult Education through Art (3 cr; prereq cons instr) IX-XI M, 109J</p> | |
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- 295 Probs in Art Education (ar cr; prereq cons instr)
VIII Th, 109J, Gayne
- 296 Seminar—Art Education (no cr; prereq cons instr)
IX Th, 109J, Gayne

CURRICULUM AND INSTRUCTION (EDCI)

- 63 Child Literature (2 cr)
VI TTh, 2P, Smith
- 64 Teach English in Elem School (3 cr; prereq educ 71B)
VI MWF, 2P, Smith
- 105 Visual Aids in Teaching (3 cr)
III-IV S, 101 WeH, Wendt
- 106 Coord a Visual Educ Program (3 cr; prereq 105)
IX-X Th, 206WeH, Wendt
- 107 Radio in Education (3 cr; prereq 9 cr educ)
IX-X M and 1 hr ar, 302MurH, Tyler
- 109 Aud-Visual Materials and Equipment Lab (3 cr; prereq 105 or concur regis)
Lect IX W and 1 hr ar, 6WeH, Wendt, Luce
—1, VII-VIII M, 6WeH
—2, IX-X M, 6WeH
—3, VII-VIII T, 6WeH
—4, IX-X T, 6WeH
—5, VII-VIII W, 6WeH
—6, VII-VIII Th, 6WeH
—7, IX-X Th, 6WeH
—8, VII-VIII F, 6WeH
—9, IX-X F, 6WeH
- 113 High School Curriculum (3 cr; prereq* sr, educ 55A-B)
IX-X Th, 221Bu, Bossing
- 119 Elem School Curriculum (3 cr; prereq educ 71C)
III-IV S, 209NH, Cook
- 121 Phys Education in Elem School (3 cr)
VIII-IX TTh, 3NGW, Baker
- 125 Occupat Information Lab (1 cr; prereq cons instr)
Ar, Dugan
- 130 Probs of Child Education (2 cr; prereq sr, 9 cr educ incl EdT 55)
VIII WF, 202Pt, Fuller
- 132 Teach Basic Bus Subjects (3 cr)
IX-X W, 213TNUH, Price
- 135 Group Procd in Guidance (3 cr; prereq 9 cr educ)
III-IV S, 112Bu, Dugan
- 138 Superv Training in Distrib Education (3 cr; prereq cons instr)
IX-X M and 1 hr ar, 101NH, Meyer
- 139 Coord Techniques in Bus Education (3 cr; prereq cons instr)
IX-X Th and 1 hr ar, 202TNUH, Meyer
- 144 Teach Reading in Jr, Sr High Schools (3 cr; prereq 9 cr educ)
VII MWF, 111Bu, Bond
- 149 Teach, Superv Arithmetic in Elem School (3 cr)
III-IV S and 1 hr ar, 111NH, Brueckner
- 151 Diagnosis—Treat, Learn Difficulties (3 cr; prereq 150 or basic training counseling or school psych work)
II MWF, 221Bu, Brueckner
- 153 Superv, Teach English in Elem Schools (3 cr; prereq educ 71C)
VIII-IX T and 1 hr ar, 221Bu, Archer
- 168 Cur Develop in Soc Studies (2 cr; prereq grad)
III-IV S, 107NH, West
- 169 Extra-curric Activities (4 cr; prereq* educ 55A-B)
III-IV TTh, 112Bu, Bossing
- 171 Curriculum Lab (2-6 cr; prereq* 170)
Ar, Bossing
- 174 Clin Methods in Spch Pathology (3 cr; prereq spch 61, 67, 85, 162, 163, or concur regis)
VIII WF and hr ar, 306F, Bryngelson
- 175 Clin Methods in Spch Pathology (3 cr; prereq spch 61, 67, 85, 162, 163 or concur regis)
VIII WF and hr ar, 306F, Bryngelson
- 176 Clin Methods in Spch Pathology (3 cr; prereq spch 61, 67, 85, 162, 163 or concur regis)
VIII WF and hr ar, 306F, Bryngelson
- 181 Fund of Elem School Methods (3 cr; prereq 9 cr educ)
IX-X M, 112Bu, Brueckner
- 199E Internship (ar cr)
Ar, Grim
- 201 Probs in Teach Soc Studies (3 cr per qtr; prereq cons instr)
IX-X T, 112Bu, Giles, Wronski
- 205 Probs in Visual Education (ar cr; prereq cons instr)
Ar, Wendt
- 207 Probs in Radio Education (1-3 cr; prereq 107)
Ar, Tyler
- 215 Probs in School Health Educ Program (ar cr; prereq cons instr)
Ar, Grout
- 216 Field Work in School Health Educ Program (ar cr; prereq cons instr)
Ar, Grout
- 217 Seminar School Health Educ Program (ar cr; prereq cons instr)
Ar, Grout
- 222 Seminar—Cur Probs in High School Instruct Techniques (ar cr)
IX-X W, 111Bu, Bossing, Smith
- 225 Spec Probs—Superv, Instruct in Second Schools (ar cr)
Ar, Boardman, Keller
- 226 Seminar—Elem School Probs (no cr)
IX-X Th, 111Bu, Staff Elem Educ
- 227 Probs of Rural Education (ar cr; prereq 117)
Ar, Archer
- 228 Probs in Higher Educ, Teacher Training (ar cr; prereq cons instr)
Ar, Eckert, Grim

- 238 Probs of Distrib Education (ar cr; prereq cons instr)
Ar, Meyer
- 239 Probs of Bus Education (ar cr; prereq cons instr)
Ar, Price
- 250 Higher Education in US (3 cr; prereq* 18 cr educ)
I-II S and 1 hr ar, 221Bu, Eckert
- 251 Curric Trends in Amer Colleges (3 cr; prereq* 18 cr educ)
II TTh and 1 hr ar, 112Bu, Eckert
- 261 Spec Probs in School Supervision (ar cr; prereq cons instr)
Ar, Brueckner
- 263 Research—Arith Instruction (3 cr; prereq 148 or 149)
I-II S, 103NH, Brueckner
- 271 Probs of Curric Construction (ar cr; prereq cons instr)
Ar, Bossing, Cook, Archer
- 273 Probs in Reading (ar cr; prereq cons instr)
Ar, Bond
- 284 Probs in Student Teaching (ar cr; prereq cons instr)
Ar, Grim
- 296 Spec Probs Teach English (ar cr; prereq 294)
Ar, Smith

EDUCATION (ED)

- 55A Introd Second School Teaching (5 cr; prereq 6 cr psych)
Lect I TThS, 201WeH, Swenson
—1, II-III TTh, 210P, Giles
—2, VI-VII TTh, 9F, Stout
—3, II-III MW, 102NH, Hovet
- 55B Introd Second School Teaching (5 cr; prereq 55A)
Lect I MWF, BuAud, Swenson
—1, II-III TTh, 206WeH
—2, II-III TTh, 202Pt, Adolphsen
—3, II-III MW, 257TSF
—4, III-IV TTh, 145Ph, Van Wagenen
—5, III-IV TTh, 257TSF, Hovet
—6, III-IV MW, 259TSF, Adolphsen
—7, VI-VII TTh, 257TSF, Hovet
—8, (core curric majors only) VI-VII TTh, 221Bu, Bossing
—9, VI-VII MW, 202Pt, Van Wagenen
—10, VI-VII TTh, 115Psy
- 71B Introd Elem School Teaching (5 cr; prereq 71A)
Lect III MWF, 211NH, Bond
—1, I-II TTh, 6F, Wardeberg
—2, I-II TTh, 221Bu, Goossen
—3, III-IV TTh, 6F, Wardeberg
—4, III-IV TTh, 115Psy, Flanders
—5, VI-VII TTh, 6F, Wardeberg
- 81 Educ—PH Nurses (3 cr; not open to educ degree candidates)
II MWF, 129MH, Grout

EDUCATIONAL ADMINISTRATION (EDAD)

- 115 Organiz of Elem School (3 cr; prereq 9 cr educ)
I-II S, 111NH, Neale
- 218 Rec Literature in Second Education (ar cr)
IX-X W, 111Bu, Boardman, Bossing
- 227 Teacher, Employee Admin (3 cr; prereq 225)
I MWF, 221Bu, Neale
- 228 Spec Probs, Educ Admin (ar cr; prereq 225)
Ar, Neale
- 235 Seminar—Educ Admin (no cr)
Ar, Neale
- 250 School Survey (3-6 cr; prereq 227)
Ar, Neale
- 264 Admin Instruct Activities in Second School (3 cr)
III MWF, 107NH, Boardman
- 270 Spec Probs in Second Education (ar cr)
Ar, Boardman, Bossing, Keller
- 274 The Jr College (3 cr)
IV MWF, 101NH, Boardman

EDUCATIONAL PSYCHOLOGY (EPSY)

- 114 Psych of Elem School Subjects (2 cr; prereq 9 cr psych, educ)
IX-X W, 109Psy, Van Wagenen
- 140 Instruments, Techniques of Measurement (3 cr; prereq 120)
VII-VIII TTh, 216NH, Cook
- 142 Individ Mental Testing (3 cr; prereq 120)
III-IV S and hr ar, 115Psy, Delp
- 150 Psych—Educ Clinic (sec 1, ar cr; sec 2, 3 cr; prereq 142 or EducCI 145, cons instr)
—1, Ar, Delp
—2, IX-X M and hr ar, 111Bu, Bond
- 208 Methods in Educ Research (3 cr)
VIII MW and hr ar, 106NH, Johnson
- 217 Stat Methods in Education (3 cr)
II MWF, 202Pt, Johnson
- 217a Stat Methods in Educ Lab (2 cr; prereq 216a)
II-III TTh, 5ShH, Moonan
- 220 Adv Theory of Measurement (2 cr; prereq 60 or 120, 216)
IX-X T, 301Psy, Van Wagenen
- 225 Diagnosis, Counsel in Student Personnel Program (3 cr; prereq 133 or psych 130, or concur regis 140)
IV MWF, 202TNUH, Wrenn
- 233 Probs in Guidance, Personnel Work (ar cr; prereq cons instr)
Ar, Edwards, Wrenn, Dugan
- 240 Probs in Measurement (3 cr)
Ar Johnson
- 243 Stat Probs for Students in Educ Psych (3 cr)
Ar, Johnson
- 251 Col Student Personnel Work (1-3 cr; prereq* 250)
VI-VII W, 109Psy, Wrenn

- 253 Research Probs (ar cr; prereq cons instr)
Ar, Staff Educ Psych
- 260 Educ Psych Seminar (no cred; for PhD candidates)
VIII-IX F, 112Psy, Staff Educ Psych
- 281 Pract Personnel Work (sec 1, 3 cr, sec 2, ar cr; prereq 225, 226)
—1, VI-VII F and hr ar, 101EdH, Hagenah
—2, Ar, Edwards, Wrenn
- 293 Psych of Learning (3 cr; prereq 12 cr psych, educ psych)
III MWF, 225C, Swenson

HISTORY AND PHILOSOPHY OF EDUCATION (HED)

- 71 Brief Course—Hist Education (5 cr)
IV MTWThF, 109Psy, Alexander
- 102 Hist of Mod Second, Higher Education (3 cr)
VI MWF, 221Bu, Alexander
- 110 Intercultural Education (3 cr)
I-II S, 102NH, Cary
- 131 Compar Education (3 cr)
IX-X W, 112Bu, Beck
- 178 Educ Probs of Amer Democracy (3 cr)
IX-X T and ar hr, 111Bu, Cary
- 180 School, Soc Order (3 cr; prereq sr, educ 55B or 71C)
—1, VII-VIII T, VII Th, 213NH, Beck
—2, III MWF, 5Lib, Beck
—3, VIII MWF, 111Bu, Carey
- 241 Probs in Hist, Phil of Education (ar cr; prereq cons instr)
Ar, Cary, Beck, Alexander

HOME ECONOMICS EDUCATION (HEED)

- 91 Teaching in HE (5 cr; prereq see col bulletin)
VIII MWF, IX M and 1 hr ar, 114HE, Rose, Kafka, Ford
- 92 Teach Probs in HE (2 cr; prereq sr, 91, 93, concur regis with 94, 192)
Ar, 114HE, Rose
- 93 Superv Teaching in HE (3 cr; prereq see col bulletin)
Ar, Rose, Ford, Kafka, Hassinger, Thomson, Aamodt, Juilfs, others
- 94 Superv Teaching in HE (6 cr; prereq see col bulletin)
Ar, Rose, Ford, Kafka
- 95 Field Exper for H Dem Agents (6 cr; prereq cons dir HE Educ and Agric Ext)
Ar, Rose
- 192 Evaluation in HE Education (3 cr; prereq sr, 91, educ 55A-B)
VIII TTh, 213HE, Army, Rose
- 193B HE Curriculum—Col Level (3 cr; prereq cons instr)
IX-X W, 114HE, Army, Rose
- 194A Adult Educ in HE (3 cr; prereq sr, 91, 93)
Ar, 114HE, Ford

- 199E Internship (ar cr; prereq grad)
Ar, Rose
- 243 Trends in HE (3 cr; prereq cons instr)
III-IV S, 114HE, Rose
- 293 Probs—HE Education (1-3 cr; prereq cons instr)
Ar, Rose, Esteros
- 295 Seminar—HE Education (1 cr)
IX Th, 114HE, Army, Rose, Esteros

INDUSTRIAL EDUCATION (IND)

- 2 Machine Woodwork (3 cr; prereq 1)
VIII-X TTh, 6Pt, Nelson
- 5 Basic Drawing (3 cr)
VIII-X TTh, 201TNUH, Wall
- 6 Appl Gen Drawing (3 cr; prereq 5)
II-IV TTh, 201TNUH, Wall
- 10 Basic Electricity (3 cr)
III-IV MWF, 15TNUH, Nelson
- 11 Spec Class Woodwork (2 cr)
I-IV S, 6Pt, LaBerge
- 21 Craft Work—B (3 cr; prereq 20)
VI-VII MWF, 15TNUH, Nelson
- 42 Course Organization (3 cr; prereq 40)
IX-X W and ar hr, 202TNUH, Micheels
- 50A Dir Teaching (3 cr; prereq 70 and 80, educ 55B)
Ar, Anderson
- 50B Dir Teaching (3 cr; prereq 70 and 80, educ 55B)
Ar, Anderson
- 50C Dir Teaching (3 cr; prereq 70 and 80, educ 55B)
Ar, Anderson
- 61 Pract in Vocat Education (2 cr; prereq 60)
IX-X M, 202TNUH, Widdowson
- 100 Ind Instruction (3 cr, \$70; prereq* grad)
II-IV S, 202TNUH, Smith
- 103 Instruct Aids (3 cr; prereq 70)
II MWF, 202TNUH, Micheels
- 107 Co-ordination (3 cr; prereq cons instr)
IX-X T and hr ar, 116TNUH, Widdowson
- 200 Research Probs (3, 6 or 9 cr)
III MWF, Smith, Micheels
- 251 Ind Educ Literature (3 cr)
I MWF, 202TNUH, Smith
- Dunwoody Shopwork, Drawing (ar cr)
Ar, Smith
- Off-Campus Courses, Services (ar cr)
Ar, Widdowson
- ### METHODS AND DIRECTED TEACHING (EDT)
- 51A Teach Nursing (4 cr; prereq sr, educ 55B)
VI MWF and ar hr, 113MeS, Boyle, Norris
- 51B Teach Nursing (4 cr; prereq 51A)
VII MWF, 113MeS, Boyle, Norris
- 52 Dir Teaching Second School (ar cr; prereq educ 55B, Spec Methods Course)
Ar

- 53A Teach Hand Children (5-8 cr; prereq educ 71C)
Ar, Bond
- 53B Teach Hand Children (5-8 cr; prereq 53A)
Ar, Bond
- 54A Dir Teaching Elem School (4 cr; †54A-B; prereq educ 71C)
Ar, Tuttle School, Staudenmaier
- 54B Dir Teaching Elem School (4 cr; †54A-B; prereq 54A)
Ar, Tuttle School, Staudenmaier
- 54C Dir Teaching Elem School (4 cr; prereq 54B)
Ar, Tuttle School, Staudenmaier
- 57 Nursery School, Kindergarten Lab—Art, Lit Studies (5 cr; prereq 56)
VIII MTWThF, 209NH, Headley
- 66C Teach English (3 cr, †66A-B-C; prereq 66B)
IX TTh and 6 hrs ar, 106NH, Ballet
- 66Cm Teach English, methods only (1 cr; prereq 66B or 66Bm)
IX TTh, 106NH, Ballet
- 67C Teach Mathematics (3 cr, †67A-B-C; prereq 67B)
IX-X Th and 6 hrs ar, 112Bu, Johnson
- 67Cm Teach Mathematics, methods only (1 cr; prereq 67B or 67Bm)
IX-X Th, 112Bu, Johnson
- 68C Teach Nat Science (3 cr, †68A-B-C; prereq 68B)
IX-X M and 6 hrs ar, 106NH, Boeck
- 68Cm Teach Nat Science, methods only (1 cr; prereq 68B or 68Bm)
IX-X M, 106NH, Boeck
- 69C Teach Soc Studies (3 cr, †69A-B-C; prereq 69B)
IX MW and 6 hrs ar, 207NH, West
- 69Cm Teach Soc Studies, methods only (1 cr; prereq 69B or 69Bm)
IX MW, 207NH, West
- 70 Teacher, Parent (3 cr; prereq sr, 55, 56, 57, 58)
V TTh and ar hr, 202Pt, Cummings
- 70C Teach Mod Languages (3 cr, †70A-B-C; prereq 70B)
I MW and 6 hrs ar, 115Psy, Birkmaier
- 70Cm Teach Mod Languages, methods only (1 cr; prereq 70B or 70 Bm)
I MW, 115Psy, Birkmaier
- 71C Teach Latin (3 cr, †71A-B-C; prereq 71B)
I MW and 6 hrs ar, 115Psy, Birkmaier
- 71Cm Teach Latin, methods only (1 cr; prereq 71B or 71Bm)
I MW, 115Psy, Birkmaier
- 72A Dir Teach Dist Educ Subjects (2 cr, †72A-B-C; prereq educ 55B, cons instr)
Ar, Meyer
- 72B Dir Teach Dist Educ Subjects (2 cr, †72A-B-C; prereq 72A)
Ar, Meyer
- 72C Dir Teach Dist Educ Subjects (2 cr, †72A-B-C; prereq 72B)
Ar, Meyer
- 73A Dir Teach Bus Subjects (2 cr, †72A-B-C; prereq educ 55B)
Ar, Price
- 73B Dir Teach Bus Subjects (2 cr, †73A-B-C; prereq educ 55B)
Ar, Price
- 73C Dir Teach Bus Subjects (2 cr, †73A-B-C; prereq educ 55B)
Ar, Price
- 74 Teach Journalism (3 cr; prereq jour 41 or 51)
VII MWF, 311MurH, Kildow
- 77 Teach Nursery School (4 cr; prereq see col bulletin)
IX M and 15 hrs ar, 221Bu, Fuller
- 78 Teach Kindergarten (4 cr; prereq see col bulletin)
IX M and 15 hrs ar, 221Bu, Fuller
- 79 Teach Primary Grades (4 cr; prereq see col bulletin)
IX M and 15 hrs ar, 221Bu, Fuller
- 81 Teach Shorthand (2 cr; prereq educ 55B or concur regis)
IX-X M, 213TNUH, Price
- 83 Methods, Materials School Health Education (3 cr; prereq PH59)
III MWF, NGW, Ericson
- 84A Field Work Recreat Leadership (2 cr)
V W and 3 hrs ar minors, 6 hrs ar maj, 215CH, Giles
- 84B Field Work Recreat Leadership (2 cr)
V W and 3 hrs ar minor, 6 hrs ar maj, 215CH, Giles
- 84C Field Work Recreat Leadership (2 cr)
V W and 3 hrs ar min, 6 hrs ar maj, 215CH, Giles
- 85A Field Work Recreat Leadership (1 cr min, 2 cr maj)
V W and 3 hrs ar min, 6 hrs ar maj, 215CH, Giles
- 85B Field Work Recreat Leadership (1 cr min, 2 cr maj)
V W and 3 hrs ar min, 6 hrs ar maj, 215CH, Giles
- 85C Field Work Recreat Leadership (1 cr min, 2 cr maj)
V W and 3 hrs ar min, 6 hrs ar maj, 215CH, Giles
- 88C Teach Speech (3 cr, †88A-B-C; prereq 88B)
IX TTh and 6 hrs ar, 106NH, Ballet
- 90B Teach Dist Educ Subjects (2 cr; prereq cons instr)
IX-X T, 202TNUH, Meyer

MUSIC EDUCATION (MUED)

- 5 Appl Instrumental Tech (2 cr; prereq* mus educ maj)
VI MTWF, 4NMA, Prescott
- 50A Teach Mus in Prim Grades (2 cr)
VIII-IX T, 4ScH, Winslow
- 50B Teach Mus in Intermed Grades (2 cr; prereq 50A)
III TTh, 4ScH, Winslow

- 59 Choral Lit, Conducting (2 cr sr, 1 cr other)
V TTh, 4SchI, Winslow
- 60 Superv, Teach Music (3 cr, †60-61-62; prereq sr, 50B, 53, educ 55B, cons instr)
IX-X W and 6 hrs ar, 4SchI, Winslow
- 61 Superv, Teach Music (3 cr, †60-61-62; prereq sr, 50B, 53, educ 55B, cons instr)
IX-X W and 6 hrs ar, 4SchI, Winslow
- 62 Superv, Teach Music (3 cr, †60-61-62; prereq sr, 50B, 53, educ 55B, cons instr)
IX-X W and 6 hrs ar, 4SchI, Winslow
- 63 Band Conducting (2 cr; prereq* 4-5-6)
VII TTh, 4NMA, Prescott
- 65 Instrumentation (3 cr; prereq mus 6T)
II TThS, 104SchI, Ivory
- 105E Adv Topics in Instrument Mus Education (3 cr; prereq sr cons instr)
IV MWF, 4SchI, Ivory
- 224E Seminar—Individ Research Probs (2-6 cr)
Ar, Winslow, others
- 225E Adv Appl Music (2-4 cr; prereq entr exam)
Ar

NURSING EDUCATION (NUED)

Students registering in these courses must be registered in the College of Education (major Nursing Education) or in some other nursing sequence.

- 29A Adv Psychiat Nursing (6 cr; prereq 66)
Ar, Lediger
- 33A Adv Med Nursing (6 cr; prereq 66)
Ar, Coe
- 34A Adv Obstetric Nursing (6 cr; prereq 66)
Ar, Kendall
- 40A Adv Operat Room Nursing (6 cr; prereq 66)
Ar, Smelko
- 46A Adv Rural Nursing (12 cr; prereq 66)
Ar, Lowe
- 47A Adv Tbc Nursing (11 cr; prereq 66)
Ar, Einerson
- 52A Adv Surg Nursing (6 cr; prereq 66)
Ar, Hanson
- 57A Field Pract—Psychiat Nursing (11 cr)
Ar, Lediger
- 59 Prin Psychiat Nursing (5 cr)
Ar, Lediger
- 60 Ward Admin (5 cr)
V MTWThF, 111MeS, Grainger
- 61A Adv Pediatric Nursing (6 cr; prereq 66)
Ar
- 72 Prin of Learning, Methods of Teaching (3 cr)
VIII TTh, IX Th, 2309PoH, Boyle, Paske-witz
- 73 Prin Econ in Nurs Service Admin (1 cr; prereq sr)
VIII T, 113MeS
- 74 Sciences in Nurs Curriculum (5 cr; prereq cons instr)
Ar, Coe
- 162 Personnel Work in Nursing (3 cr)
II MWF, 111MeS, Johnston

- 171 Curric of School of Nursing (3 cr; prereq 69, EdT 51A or concur regis, EdT 51B)
VI TTh and hr ar, 129MH

PHYSICAL EDUCATION FOR MEN (PE)

Professional Courses

- 4A Football Fundamentals (1 cr)
VII-VIII TTh, CH, Roning
- 5B Gymnastics (1 cr)
III-IV TTh, CH, Piper, Ostrander
- 6B Intramural Sports (1 cr)
III-IV TTh, CH, Roning, Romnes
- 6C Aquatics (1 cr)
IV MWF, CH, Thorpe
- 7B Boxing, Wrestling (1 cr; prereq no fresh)
II-III TTh, CH, Bartelma, Chisholm
- 9A Folk Dancing (1 cr)
V T, VI TTh, NGW, Piper, Bockstruck
- 11B Survey Recreat Activities (1 cr; prereq recreat students only)
V M, CH, Giles
- 23B Introd Recreat Leadership (1 cr; prereq 11A-B-C)
V F, CH, Giles
- 52 Leadership—Soc Activities (2 cr)
VI TTh, CH, Ostrander
- 55 Methods, Materials—Phys Education (4 cr; prereq 5A-B-C, 6A-B-C, 7A-B-C)
III MWF, CH, Bartelma
- 57 Operation, Conduct—Play Centers (3 cr; prereq no fresh)
VII MWF, CH, Giles
- 60B Athletic Training Lab (1 cr; prereq 60A)
Ar, Stein
- 64A Leadership—Nature Recreation (2 cr; prereq 15 cr nat sci)
IV TTh, CH, Thompson
- 65 Adapt Phys Education (3 cr; prereq 51, anat 57)
II MWF, CH, Osell
- 72 Baseball Coaching (2 cr; prereq* jr, baseball exper)
VI MWF, CH, Siebert
- 73 Dir Teaching (2 cr; prereq see col bulletin)
V M and 5 hrs ar, CH, Bartelma
- 74 Dir Teaching (2 cr; prereq see col bulletin)
V M and 5 hrs ar, CH, Bartelma
- 75 Dir Teaching (2 cr; prereq see col bulletin)
V M and 5 hrs ar, CH, Bartelma
- 78 Scout Leadership (2 cr)
VII MW, CH, Osell
- 101 Prin Phys Education (3 cr; prereq jr, sr, 55)
I MWF, CH, Keller
- 111 Recreat Areas, Facilities (3 cr; prereq sr)
VI MWF, CH, Fitzgerald
- 141 Hospital Recreation (3 cr; prereq* recreat maj)
IX-X M, CH, Fitzgerald
- 173 Internship—Phys Education (cr ar)
Ar, Nordly

- 233 Spec Admin Probs—Phys Educ, Second Schools (3 cr; prereq 63, sr)
II MWF, CH, Nordly
- 241 Admin Superv—Pub Recreation (3 cr)
IV MWF, CH, Fitzgerald
- 247 Probs—Health Education (cr ar)
Ar, Nordly
- 261 Seminar—Contemp Probs Phys Educ, Recreation (cr ar; prereq 236, 247)
Ar, Fitzgerald

PHYSICAL EDUCATION FOR WOMEN (PE)

Professional Courses

Courses above 100 open to both men and women

- 21B Elem Phys Education
—5, Winter Sports (½ cr)
VIII TTh, 201NGW, Larson
—6, Basketball (½ cr)
VII TTh, 151NGW, Hauptfuehrer
—7, Folk Dance (½ cr)
—1, V TTh, 153NGW, Bockstruck
—2, VI TTh, 153NGW, Bockstruck
—8, Posture, Daily Life Skills (½ cr)
I TTh, 153a NGW, Wilson
- 25 First Aid (1 cr)
I MW, 201NGW, Jaeger
- 41B Intermed Phys Education
—3, Recreat Lab (½ cr)
VII WF, 201, 153NGW
—8, Archery—Bowling (½ cr)
III TTh, 60NGW, Jaeger
—9, Intermed Mod Dance (½ cr; prereq 41A—Elem Mod Dance)
VI MW, 153NGW, Bockstruck
—10, Offc Basketball (½ cr; prereq 21B—Basketball)
V TTh, 151NGW, Hauptfuehrer
—11, Adv Stunts, Tumbling (½ cr; prereq 41A—Elem Stunts, Tumbling)
I TTh, 153NGW, Larson

- 12, Gymnastics (½ cr)
II TTh, 153NGW, Bell
- 57A Tech Teach Acquatics (1 cr; prereq 41C—Aquatics)
III TThS, 58, 201NGW, Larson
- 60 Prin of Play (3 cr; prereq psych 2)
VIII MWF (for phys educ maj) 201NGW, Wilson
- 61B Tech Teach Team Sports (1 cr; prereq 41B—Officiating Basketball)
II MWF, 151, 201NGW, Hauptfuehrer
- 65B Tech Teach Indiv, Dual Sports (1 cr; prereq 41B—Archery, Bowling, 41C—Track, Field)
III MWF, 60, 201NGW, Jaeger
- 73C Tech Teach Rhythm (1 cr; prereq 41C—Adv Mod Dance)
I TThS, 151, 201NGW, Bockstruck
- 83 Meth and Materials of Sch Health Education
III MWF, 201NGW, Ericson
- 84 Probs Phys Education (2 cr; prereq sr)
II MW, 3NGW, Jaeger
- 86 Aspects of Sch Health Appraisal (3 cr; prereq sr)
III TThS, 3NGW, Wilson
- 87 Dance Composition (2 cr; prereq cons instr) 3:00-4:15 TTh, 151NGW, Bell, Bockstruck
- 90C Student Teaching (2-3 cr; prereq sr, cons instr)
II TTh and hr ar, 3NGW, Jaeger, Hauptfuehrer
- 113E Phys Education—Elem Schools (3 cr; prereq exper teach elem grades or cons instr)
VIII-IX TTh, 3NGW, Baker
- 116E Probs—Phys Fitness (3 cr; prereq sr 82, 83)
I MWF, 3NGW, Wilson
- 118E Probs—Health, Phys Educ, Recreation (3 cr; prereq cons instr)
IV MWF, 3NGW

GENERAL COLLEGE (GC)

- 1 Individ Orient (4 cr)
—1, II MTWF, 10P, Gamelin
—2, IV MTWF, 103F, Gamelin
—3, VI MTWF, 10P, West
- 2 Voc Orient (5 cr; prereq cons instr)
—1, I MTWThF, 104WeH, Richardson
—2, IV MTWThF, 104WeH, Borow
- 3 Home Life Orient (5 cr)
—1, II MTWThF, 5Lib, Anderson
—2, VII MTWThF, 206WeH, Anderson
- 4 Probs in Contemp Society (5 cr)
II MTWThF, 101WeH, McCune
- 6B Rel Phys Sciences (5 cr; prereq* 6A)
III MTWThF, 166Ph, Harris

- 7A Elem of Physics (5 cr, \$6A)
VIII MTWThF, 133Ph, Vaughan
- 7B Elem of Light, Astronomy (5 cr)
VII MTWThF, 133Ph, Appel
- 7C Elem of Chemistry (5 cr, \$6A)
I MTWThF, 150Ph, Harris
- 8 Fund Mathematics (4 cr; prereq 1 yr elem algebra)
—1, I MTWTh, 215C, Benenson
—2, VII MTWTh, 145Ph, Rassweiler
- 10A Human Biology—Similarities in Living World (3 cr)
—1, I MWF, 201WeH, Resnick
—2, IV MWF, 206WeH, Resnick

- 10B Human Biology—Living Machinery in Man (3 cr; prereq 10A)
 —1, V MWF, 201WeH, Cieslak
 —2, VI MWF, 201WeH, Cieslak
- 11B Basic Wealth—Use, Conserv of Pl Life (3 cr)
 II MWF, 201WeH, Wilcox
- 14 Food Selection, Purchase (3 cr)
 VI MWF, 206WeH, Nymon
- 19A Probs of Bus Transaction (4 cr)
 III MTWTh, 302WeH, Rassweiler
- 19B Probs Invest Transaction (4 cr; prereq* 19A)
 V MTWTh, 14P, Rassweiler
- 21 Gen Arts (3 cr)
 V MWF, 206WeH, Hill
- 22B Art Today (3 cr)
 III MWF, 201WeH, Tallon
- 23A Art Lab (3 cr)
 Lect IV T, 206WeH, Duncan
 —1, III-IV MW, 301WeH, Tallon, Duncan
 —2, VI-VII MW, 301WeH, Tallon, Duncan
 —3, VI-VII TTh, 301WeH, Tallon, Duncan
- 23C Introd Commer Art (3 cr; prereq* 23B)
 III-IV TTh, 301WeH, Tallon
- 24B Music Today (2 cr)
 —1, II TTh, 202WeH, Yohe
 —2, IV TTh, 202WeH, Hill
- 25B Music Today (3 cr)
 VII-VIII MW, 202WeH, Hill
- 25D Music Lab (2 cr)
 VI MWF, 202WeH, Yohe
- 26A Photography (3 cr)
 Lect V T, 311 MurH, Liebling
 —1, VI-IX T, 20MurH, Liebling
 —2, VI-IX Th, 20MurH, Liebling
- 29BX Library Methods: Techniques I (5 cr; prereq 29AX)
 VII MTWThF, 3Lib, Methven
- 30A Lit Today—The Individ, Literature (3 cr)
 VII MWF, 201WeH, Kivits
- 30B Lit Today—Crit Standards in Select Books (3 cr)
 II MWF, 206WeH, Bechtle
- 30D Lit Today—Amer Ideals in Literature (3 cr)
 III MWF, 206WeH, Sheldon
- 30E Lit Today—Introd World Literature (3 cr)
 IV MWF, 101WeH, Appel
- 31A Pract in Desc Writing (3 cr)
 —1, I MF, I-II W, 14P, Appel
 —2, III-IV M, III WF, 14P, Wright
 —3, VI-VII M, VI WF, 302WeH, Draxten
 —4, VIII MF, VII-VIII W, 302WeH, Liebler
 —5, VIII MF, VII-VIII W, 14P, Wright
- 31B Organization, Writing (3 cr; prereq 31A)
 —6, I T, I-II Th, 302WeH, Wright
 —7, I-II M, I W, 302WeH, Hensley
 —8, IV W, IV-V F, 14P, Kivits
 —9, VI-VII M, VI W, 14P, Hensley
 —10, VI T, VI-VII Th, 14P Kivits
 —11, VI-VII T, VI Th, 302WeH, Draxten
- 31C Report Writing (3 cr; prereq 31A)
 —12, IV W, III-IV F, 302WeH, Draxten
 —13, VII-VIII T, VIII Th, 14P, Sheldon
- 31D Bus Writing (3 cr; prereq 31A)
 —14, I-II T, I Th, 14P, Hensley
 —15, II W, I-II F, 302WeH, Sheldon
 —16, III T, III-IV Th, 14P, Liebler
 —17, IV-V M, V W, 302WeH, Bechtle
 —18, IV T, IV-V Th, 302WeH, Bechtle
- 32A Spch Lab—Basic Prin Oral Communication (3 cr)
 —1, I MWF, 306WeH, Unes
 —2, II MWF, 306WeH, Unes
 —3, III MWF, 306WeH, Olson
 —4, IV MWF, 306WeH, Halvorson
 —5, V MWF, 306WeH, Olson
 —6, VI MWF, 306WeH, Olson
 —7, VII MWF, 306WeH, Unes
 —8, VIII MWF, 306WeH, Halvorson
- 32B Spch Lab—Pract Appl Speech (3 cr; prereq 32A)
 —9, II MWF, 202WeH, Olson
- 32C Spch Lab—Spch Organization (3 cr; prereq 32A)
 —10, III MWF, 202WeH, Halvorson
- 32D Spch Lab—Group Discussion (3 cr; prereq 32A)
 —11, IV MWF, 10P, Unes
- 33A Spch Studio (3 cr)
 —12, VI-VII T, VI Th, 306WeH, Halvorson
- 34A Flight Probs (5 cr; prereq 7A, approv committee)
 V MTWThF, 145Ph, Koester
- 37 Soc Trends, Probs (5 cr)
 I MTWThF, 101 WeH, Cox
- 38 Gen Geography (5 cr)
 VIII MTWThF, 201WeH, Jennings
- 39 Gen Anthropology (3 cr)
 III MWF, 213NH, Winchester
- 40B Straight, Crooked Thinking (3 cr)
 III TTh, VI Th, 201WeH, Raab
- 41 Pract Applic of Psychology (5 cr)
 V MTWThF, NHAud, Longstaff
- 42A Human Development (3 cr)
 VII MWF, 4ME, Templin
- 42B Personal Adjustment (3 cr; prereq 42A)
 VIII MWF, 18ME, Templin
- 43B Hist Biography (3 cr)
 I MWF, 206WeH, Moen
- 44B Cur History (2 cr)
 VI TTh, 101WeH, Gluck
- 45A Growth of Amer Democracy (5 cr)
 VII MTWThF, 101WeH, Stout
- 45B Amer Econ, Soc Development (3 cr)
 VI MWF, 101WeH, Gluck
- 45C Minn, Upper Midwest (5 cr)
 V MTWThF, 101WeH, Stout
- 46C Govt Studies—Intl Relations (3 cr)
 IV MWF, 201WeH, Mills
- 47CX Bookkeeping, Accounting Lab (3 cr; prereq cons instr)
 VII-VIII TTh, 301VH

47DX Office Organiz, Procedure (3 cr; prereq
cons instr)
VI T, VI-VII Th, 202WeH, Liebler
48B Our Econ Life—Probs of Prod, Finan,
Credit (3 cr; prereq 48A)
VII MWF, 18ME

49B Retailing, Selling (5 cr; prereq* 49A, soph
only)
Lect II M, 104WeH, Determan
—1, II-III TTh, 104WeH, Determan
—2, II-III WF, 104WeH, Determan
—3, 6:30-10:00 p.m. T, 104WeH, Determan

INSTITUTE OF TECHNOLOGY

For a complete listing of courses see the mimeo-
graphed schedule published by the Institute.

CHEMISTRY

Analytical Chemistry (ANCH)

- 1 Quant Analysis (5 cr; prereq no fresh, inorg
chem 13)
Lect, Rec, Quiz VI MWF, 410C, Meehan
—1, Lab VII-IX MWF, 310C
—2, Lab I-III TTh and any 3 consec hrs
from VI-IX T or Th, 310C
—3, Lab VI-X T and VI-IX Th, 310C
- 9 Quant Analysis (3 cr; prereq inorg chem 11
or 12)
Lect, Rec VI TTh, 225C, O'Connor
Lab VII-IX TTh, 310C
- 101 Quant Analysis (5 cr; prereq inorg chem 13)
VI-IX MWF, 310C, Meehan
- 105 Polarizing Microscope (3 cr; prereq phy chem
101)
VI F, 315C, Sandell
Lab ar
- 107 Gen Tech Analysis (2-3 cr; prereq 1, 2)
Ar, Sandell
- 109 Rock Analysis (3 cr; prereq 1, 2)
Ar, Peck
- 132 Electro Measurements, Titrations (3 cr with
lab, 2 cr without lab; prereq anal chem 1,
2, phys chem 103)
VI MW, 111C, Kolthoff
Lab ar
- 134 Voltammetry, Amperometric Titrations Lab
(2 cr; prereq 133 or concur regis)
Lab ar, Kolthoff
- 136 Seminar—Mod Probs in Anal Chemistry (1 cr;
prereq 1, 2, phys chem 103)
IV T, 315C
- 140 Water Analysis (2 cr; prereq 1, 2)
Ar, Sandell
- 202 Sel Topics in Anal Chemistry (3 cr; prereq
1, 2, 123)
Ar, Kolthoff
- 302 Research—Quant Analysis (ar cr)
Ar

Inorganic Chemistry (INCH)

- 1 Gen Inorg Chemistry (4 cr)
Lect II TThS, 100C, Pray
Quiz VII Th, 100C
—1, (for IT, SLA students) Lab I-III M
—2, (for agric students) Lab VII-IX T
- 2 Gen Inorg Chemistry (4 cr)
—1, (for IT students) Lect III TThS, 100C,
Barber
Quiz V Th, 100C
Lab III-V F
—2, (for IT students) Lect VIII MWF,
100C, Pray
Quiz VIII Th, 100C
Lab VII-IX T
—3, (for SLA, agric students) Lect VI
MWF, 100C, Pervier
Quiz VI T, 100C
Lab VI-VIII Th
—4, (for SLA students) Lect VIII MWF,
225C, Lindeke
Quiz VIII T, 225C
Lab VII-IX Th
- 5 Gen Inorg Chemistry (4 cr; prereq entr cr in
chem)
—1, (for IT students) Lect II TThS, 225C,
Heisig
Quiz III F, 455C
Lab I-III W
—2, (for IT students) Lect VII MWF, 410C,
Johnson
Quiz VII Th, 410C
Lab V-VII T
—3, (for SLA students) Lect VII MWF,
100C, Maynard
Quiz VII T, 100C
Lab V-VII Th
—4, (for SLA students) Lect VII MWF,
325C, Brasted
Quiz VII Th, 325C
Lab VIII-X W
—5, (for agric students) Lect VIII MWF,
410C, Johnson
Quiz VI T, 410C
Lab VII-IX T
- 6 Gen Inorg Chemistry (5 cr)
Lect II TThS, 325C, Lindeke
Quiz I M, 325C
Lab II-III M, I-III W

- 7 Gen Inorg Chemistry (5 cr)
Lect II MWF, 325C, O'Brien
Quiz I Th, 410C
Lab I-III T, II-III Th
- 10 Gen Inorg Chemistry (5 cr; prereq entr cr in chem)
Lect II MWF, 100C, Sneed
Quiz I Th, 100C
Lab I-III T, II-III Th
- 11 Semimicro Qual Analysis (4 cr; prereq 2, 5, 7 or 10)
Lect VIII MWF, 325C, Barber
Lab VI-IX T
- 12 Semimicro Qual Analysis (5 cr; prereq 2, 5, 7 or 10)
Lect III MWF, 215C, Maynard
Lab II-IV TTh
- 53 Seminar (1 cr; prereq sr)
III T, 215C
- 97 Sr Thesis (5 cr)
Ar
- 104 Adv Inorg Chemistry (3 cr; prereq anal chem 1, 2, org chem 62)
III TThS, 225C, Brasted
- 109 Synth Inorg Chemistry (3-5 cr; prereq org chem 63)
Ar, Heisig
- 135 Seminar (1 cr; prereq grad)
III T, 215C
- 302 Research—Inorg Chemistry (ar cr)
Ar

Organic Chemistry (ORCH)

- 61 Elem Org Chemistry (4 cr; prereq 12-15 cr chem)
—1, Lect IV MWF, 100C, Koelsch
Lab Conf and Quiz IV TTh, 455C, 325C, Koelsch
—1, Lab VI-IX W, 390C
—2, Lab VI-IX Th, 390C
—3, Lab I-IV Th, 390C
—4, Lab VI-IX F, 390C
—2, Lect IV TThS, 410C, Dodson
Lab Conf IV M, 455C
Quiz IV W, 455, 215, 315C
—5, Lab VI-IX M, 390C
—6, Lab VI-IX T, 390C
—7, Lab VI-IX W, 390C
—8, Lab VI-IX Th, 390C
—9, Lab VI-IX F, 390C
- 62 Elem Org Chemistry (4 cr; prereq 61)
—1, Lect I MWF, 100C, Dodson
Lab Conf II T, 455C
Quiz I T, 100C
—1, Lab VI-IX T, 390C
—2, Lab VI-IX W, 390C
—3, Lab I-IV Th, 390C
—2, Lect III MWF, 100C, Arnold
Lab Conf III S, 410C
Quiz III Th, 410C
—4, Lab VI-IX M, 390C
—5, Lab II-V T, 390C

- 6, Lab VI-IX T, 390C
—7, Lab VI-IX Th, 390C
- 97 Sr Thesis (5 cr; prereq 63, 64)
Ar
- 101 Intermed Org Chemistry (3 cr; prereq 14 cr org chem)
III MWF, 325C, Lauer
- 106 Adv Org Chemistry (3 cr; prereq 105)
IV MWF, 325C, Smith
- 139 Adv Org Chemistry Lab (2.5 cr; prereq 64, read ger, cons instr)
Ar, Arnold
- 142 Chem of Nat Products (3 cr; prereq 64)
I MWF, 315C, Parham
- 152 Org Chem Seminar (1 cr; prereq sr)
7:45 p.m. to 8:45 p.m. W, 325C
- 202 Org Chem Seminar (1 cr)
7:45 p.m. to 8:45 p.m. W, 325C
- 302 Research—Org Chemistry (ar cr; prereq 110, cons instr)

Physical Chemistry (PHCH)

- 102 Phys Chemistry (3 cr; prereq 101)
Lect IV MWF, 410C, Crawford
Rec IV S, 111C
- 105 Phys Chemistry Lab (1-2 cr; prereq 102 or concur regis)
—1, Lect VI M, 325C, Livingston
Lab VII-VIII M, VI-VIII W, 190C
—2, Lect VI Th, 325C
Lab VI-VIII T, VII-VIII Th, 190C
—3, Lect VI M, 325C
Lab III-IV T, II-IV Th
—4, Lect VI Th, 325C
Lab III-IV T or Th, VI-VIII F, 190C
- 108 Elem Phys Chemistry (3 cr; prereq 107)
Lect IV MW, 225C, Lipscomb
Rec IV F, 225, 215C, Lipscomb
—1, Lab II-IV T, 190C
—2, Lab II-IV Th, 190C
- 111 Exper Research Techniques II (2 cr; prereq 110)
Ar, Wertz
- 114 Kinetics of Reactions in Liq and Heterogeneous Systems (3 cr; prereq 113)
Ar, Livingston
- 117 Adv Phys Chemistry (3 cr; prereq 116)
II TThS, 410C, Livingston
- 122 Crystal Chemistry (3 cr; prereq 103)
II MWF, 111C, Lipscomb
- 129 Absorption, Catalysis (3 cr; prereq 128)
IV MWF, 111C, Reyerson
- 133 Colloid Chemistry Lab (1-2 cr; prereq sr, 128)
Ar, Reyerson
- 151 Seminar (1 cr; prereq sr)
IX F, 325C, Livingston
- 162 Nuclear Chemistry, Radioactivity (3 cr; prereq 161)
III MWF, 315C, O'Connor
- 202 Thermodynamics, Chemistry (4 cr; prereq 103, 201, calculus)
II MWF, 225C, MacDougall

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| 212 Adv Phys Chemistry Lab (ar cr; prereq 103) Ar, MacDougall 222 Colloid Seminar (1 cr) Ar, Reyerson 231 Radioactivity Lab (1-2 cr; prereq 161 or con- cur regis) Ar, O'Connor 251 Seminar (1 cr) IX F, 325C, Livingston 254 Molec Vibrations (3 cr) Ar, Crawford | 302 Research—Phys Chemistry (ar cr) Ar DRAWING AND DESCRIPTIVE GEOMETRY (DRAW) 44 Lettering (1 cr) IV T 45 Alphabets (2 cr; prereq 44) III TS |
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LIBRARY INSTRUCTION (LIB)

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| 1 Use of Books, Libraries (2 cr) —1, II MW, 3Lib, Russell —2, IV MW, 3Lib, Moen 61 Lib Practice (3 cr; prereq 15 cr or lib exper) Ar, Shove, Hayner 63 Reference II (3 cr; prereq 62) IV MWF, 5Lib 82 Cataloging, Classification (4 cr) VII-VIII MWThF, 4Lib, Hayner 85 Spec Probs (1-3 cr; prereq cons dir) Ar, McDiarmid, Shove, Hayner 74 Lib Materials—School Instruct Program (2 cr) IV TTh, 5 Lib, Hayner | 152 Hist of Printing to Mod Times (2 cr) Ar, Shove 165 Adv Bibliog (2 cr) III TTh, 5Lib, Shove 173 Prin, Probs in Adult Read Guidance (3 cr; prereq 70) Ar 256 Seminar—Lib Adm (3 cr) Ar 261 Seminar—Adv Bibliog (3 cr) Ar 272 Lib Work with Children, Young People (3 cr) Ar |
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COLLEGE OF MEDICAL SCIENCES

For a complete listing of courses see the *Bulletin of the Medical School*.

BACTERIOLOGY AND IMMUNOLOGY (BACT)

- 1 Elem Bacteriology (4 cr)
I MW, 102IA and I F, 12MeS, Brumfield
- 53 Gen Bacteriology (5 cr; prereq 10 cr chem,
4 cr bot or zool)
Lect VII MWF, 15MeS, Johansson, Schmidt,
Staff
Lab VIII-IX MWF
- 102 Med Bacteriology (5 cr; prereq 53)
III MWF, 15MeS, Staff
- 106 Prin Infect Disease (5 cr; prereq 105)
I TTh, 15MeS, Syverton, others
- 114 General Mycology (4 cr; prereq 113)
Lect VII TTh, 214MH, Christensen, Roth
Lab VIII-IX TTh
- 122 Physiology—Bacteria (3 cr; prereq 121)
III TTh, 214MH, Lones
- 201 Research—Bacteriology, Immunology (ar cr)
Ar
- 203 Seminar (1 cr)
4:30-5:30 Th, 214 MH

PHYSIOLOGICAL CHEMISTRY (PHCH)

- 101 Physiol Chemistry (6 cr; prereq 100)
Lect IV MTWF, 150Ph, Armstrong, Glick,
Barnum, Cohen, Frame, Carr
—1, Lab I-III MW
—2, Lab I-III ThS

PHYSIOLOGY (PHSL)

- 60 Human Physiology (6 cr, §106-107; prereq
physiol chem, human or mam anat)
Lect I MWF, 15MeS and I Th, 12MeS
Conf II F, 15MeS
Lab II-IV W
- 101 Human Physiology (10 cr, §106-107; prereq
physiol chem, human or mam anat)
Lect III S, 12MeS, VI MTWThF, 166Ph,
Staff
Conf VII W, IV S, 12MeS
Lab VII-IX TTh

PUBLIC HEALTH (PH)

- 3 Personal Health (2 cr, §GC 10C)
VI MW, BuAud, Thomson

- 4 Health Probs of Community (2 cr; prereq 3 or GC 10C)
VI TTh, 133Ph, Thomson
- 50 Pub, Personal Health (3 cr; not open to stud who have had 3, 4, 52, 100, GC 10C)
VIII MWF, 129MH
- 52b Health Care of Family Lab (1 cr)
—1, VII-VIII T, 01MeH, Wilson
—2, VII-VIII Th, 01MeH
- 55 Nursing, Social Probs in Control of Gonorrhea, Syphilis (2 cr; prereq 62, 100)
VI MW, 129MH, Taylor
- 58 Maternal, Child Hygiene (3 cr; prereq regis PH nurs)
VII MWF and 1 hr ar, 129MH, Boynton
- 59 Health of School Child (3 cr; prereq 3 and 4 or 50, or 51, or 52, or 100)
IV MWF, BuAud, Anderson, Thomson
- 62 Prin PH Nursing I (3 cr; prereq regis nurs or permis, 100 or concur regis)
—1, I MWF, 214MH, Taylor
—2, VI MWF, 214MH
- 63 Prin PH Nursing II (3 cr; prereq 62, 100 or concur regis)
—1, I MWF, 129MH, Taylor
—2, VI MWF, 12MeS
- 64 Cancer Nursing (3 cr)
VI MWF, 304IA, Maloy
- 65 Field Work—School Nursing (ar cr; prereq regis PH nurs)
Ar
- 66 Field Work—Rur Nursing (ar cr; prereq regis PH nurs)
Ar
- 67 Field Work—Fam Health Agency (ar cr; prereq regis PH nurs)
Ar
- 70 Pract Teach Home Nursing (ar cr; prereq 67, educ 81)
Ar, Vroom
- 80 Elem Vital Statistics (3 cr; prereq regis PH nurs, permis)
VII-VIII TTh, 129MH, Treloar
- 92 Prin Human Function (4 cr)
Lect IV MWF, 129MH, Henschel
Lab VII T, Brozek
- 101 Pub Health Admin, Field Work (2 cr; for sr meds)
Ar, Thomson
- 103 Pub Health Bacteriology (ar cr; prereq cons instr)
II-III MWF, SBH Lab, Kabler
- 105 Epidemiology II (3 cr; prereq* grad physicians in PH)
III TThS, 129MH, Anderson
- 106 Pub Health Admin (3 cr; prereq 53, 100 or concur regis, for physicians, engin, nurs, soc workers)
I TThS, 129MH, Anderson
- 108 Care Handicapped Child (2 cr; prereq 57, 58)
VI TTh, 214MH
- 110 Biometric Prin (3 cr; prereq 18 cr biol, sci, or math; concur with 111)
I TThS, 214MH, Hartman
- 111 Biometry Lab (2 cr; concur with 110)
—1, I-II MWF, 118MH, Hartman
—2, III-IV MWF, 118MH
—3, VIII-IX MWF, 118MH
—4, III-IV TThS, 118MH
- 112 Water Supply Sanitation (4 cr; prereq 102, 100 or 104)
Ar, Pierce, Olson
- 114 Environ Sanitation II (2 cr; for physicians, nurses, veterinarians; prereq 102)
VI-IX W, Pierce, Olson, Whittaker
- 115 Food Sanitation (3 cr; prereq 102, 106 and 100 or 104)
III WF, VI-IX Th, 12MeS, Olson, Adams
- 118 San Biology II (ar cr; prereq cons instr)
Ar, Olson
- 119 Field Pract in Environ Sanitation (ar cr; prereq cons instr)
Ar, Whittaker
- 123 Topics in Pub Health (ar cr; prereq cons instr)
Ar
- 125 Commun Health Educ Program (3 cr; prereq 100 or 104 and 106 or concur regis)
IV TThS, 111MeS, Grout
- 130 Random Sampling Dist (3 cr; prereq 110)
III TThS, 111MeS, Thornton, Treloar
- 131 Sampling Lab (2 cr; concur with 130)
—1, I-II MWF, 118MH, Thornton
—2, III-IV MWF, 118MH
—3, VI-VII MWF, 118MH
—4, I-II TThS, 118MH
—5, VII-IX TTh, 118MH
- 133 Mental Hygiene (3 cr; prereq 62 or exper)
II TThS, 129MH
- 142 Med Economics (2 cr; for sr meds)
VIII MW, 111MeS
- 150 Life Tables (3 cr; prereq cons instr)
Ar, Treloar
- 152 Ind Hyg Engineering (3 cr; prereq cons instr)
Ar, Pierce
- 163 Prin Organiz, Mgt of Hospitals (5 cr; prereq 162)
III TThS, VII-VIII TTh, 105TSP, Stephan, Hamilton
- 165 Hospitals in Commun Organization (1 cr; prereq maj hosp admin)
III-IV M, 105TSP, Stephan, Hamilton
- 166 Hosp Clerkship (1 cr; prereq maj hosp admin)
Ar
- 171 Probs in PH Nursing (ar cr; prereq* 170)
Ar
- 173 Field Work in Supervision (ar cr; prereq* regis PH nurs, 170)
Ar
- 174 Supervision Lab (2 cr; prereq regis PH nurs)
Ar
- 190 Field Work in Commun Health Educ Program (ar cr; prereq 125, 227, cons instr)
Ar

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| <p>191 Sc of Human Nutrition (3 cr; prereq 8 cr org chem and 91, 92 or physiol 103 and cons instr) Ar, Keys, Staff</p> <p>192 Physiol of Exercise (4 cr; prereq 92 or physiol 103, cons instr) Ar, Keys, Staff</p> <p>200 Research (ar cr; prereq cons instr) Ar, Anderson, Diehl</p> <p>201 Topics in Biometry (ar cr; prereq* 120, 130) Ar, Treloar, Thornton</p> <p>202 Nutrition in Pub Health (1 cr; prereq cons instr) Ar, Keys, Staff</p> | <p>206 Gerontology (1 cr; prereq cons instr) Ar, Taylor</p> <p>210 Seminar in Pub Health (ar cr; prereq cons instr) IX M, 129MH</p> <p>211 Seminar in Biometry (1 cr; prereq cons instr) Ar, Treloar</p> <p>220 Read in Probs of Physiol Hygiene (ar cr; prereq cons instr) Ar</p> <p>227 Probs in Comm Health Educ Program (ar cr; prereq cons instr) Ar, Grout</p> |
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AIR SCIENCE AND TACTICS (AIR)

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| <p>32 Air Science I (1 cr; prereq 31) —1, III MWF, 116A —2, VII MWF, 116A</p> <p>35 Air Science II (1 cr; prereq 34) —1, III MWF, 105A —2, VIII MWF, 105A</p> | <p>132 Air Science III (3 cr; prereq 131) —1, I MTWThF, 105A —2, IV MTWThF, 105A</p> <p>135 Air Science IV (3 cr; prereq 134) —1, II MTWThF, 105A —2, VI MTWThF, 105A</p> |
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MILITARY SCIENCE AND TACTICS (MIL)

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| <p>2 First Yr Basic Course (1 cr; prereq 1) —1, III MWF, Drill Floor, Swatosh —2, VI MWF, Drill Floor, Crocker —3, VII MWF, Drill Floor, Crocker</p> <p>5 Second Yr Basic Course (1 cr; prereq 4) —1, III MWF —Artillery, 206A, Pulley —Engineers, 9A, Aliotta —Ordnance, T-1A, Wood —Quartermaster, 201A, Coleman —Transport, 103A, Bitler —Signal Corps, 101A, Copley</p> <p>—2, VIII MWF —Artillery, 206A, Pulley —Engineers, 9A, Aliotta —Ordnance, T-1A, Wood —Quartermaster, 201A, Coleman —Transport, 103A, Bitler —Signal Corps, 101A, Copley</p> <p>152 First Yr Adv Course (3 cr; prereq 151) —1, I MTWThF —Artillery, 206A, Pulley —Engineers, 9A, Aliotta —Ordnance, T-1A, Wood</p> | <p>—Quartermaster, 201A, Coleman —Transport, 103A, Bitler —Signal Corps, 101A, Copley</p> <p>—2, IV MTWThF —Artillery, 206A, Pulley —Engineers, 9A, Aliotta —Ordnance, T-1A, Wood —Quartermaster, 201A, Coleman —Transport, 103A, Bitler —Signal Corps, 101A, Copley</p> <p>155 Second Yr Adv Course (3 cr; prereq 154) —1, II MTWThF —Artillery, 206A, Pulley —Engineers, 9A, Aliotta —Ordnance, T-1A, Wood —Quartermaster, 201A, Coleman —Transport, 103A, Bitler —Signal Corps, 101A, Copley</p> <p>—2, VI MTWThF —Artillery, 206A, Pulley —Engineers, 9A, Aliotta —Ordnance, T-1A, Wood —Quartermaster, 201A, Coleman —Transport, 103A, Bitler —Signal Corps, 101A, Copley</p> |
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NAVAL SCIENCE AND TACTICS (NAV)

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| <p>12 Functions of Navy within Natl Mil Establishment (3 cr) —1, Lect III MWF, 205A, Tracy —2, Lect IV MWF, 205A, Tracy —3, Lect VII MWF, 205A, Tracy Lab VIII-IX T, 116A</p> <p>22 Prin Fire Control (3 cr) —1, Lect II MWF, 202A, Kelsey —2, Lect VI MWF, 202A, Kelsey —3, Lect VII MWF, 202A, Kelsey Lab VIII-IX T, 201A</p> <p>52 Rules of Road; Aerology; Prin of Celest Navigation (3 cr) —1, Lect III MWF, 12A, Holm —2, Lect VI MWF, 12A, Holm Lab VIII-IX T, 12A</p> | <p>54 Prin of War (3 cr) Lect Ar MWF, Lewis Lab VIII-IX T</p> <p>62 Diesel Engine; Ship Stability, Buoyancy (3 cr) —1, Lect II MWF, 12A, Davis —2, Lect IV MWF, 12A, Davis Lab VIII-IX T, 103A</p> <p>65 Anal Amer Battles, 1800 through World War II (3 cr) Lect ar MWF, 205A, Troy Lab IX T, 206A</p> <p>68 Nav Accounting; Supply Afloat (4 cr) Lect ar MTWF, Wells Lab VIII-IX T, 202A</p> |
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PHYSICAL EDUCATION FOR MEN (PE)

Nonprofessional Courses

- 1B Sports Education (1 cr)
 —1, Basketball, Handball, Squash, Wrestling
 II MWF; III MWF; IV MWF; VI MWF,
 CH, MacMillan, Staff
 —2, Begin Swimming
 II MWF; VII MWF; III TThS, CH,
 Boyce
 —3, Adapted Activities
 III MWF; IV MWF; VIII MWF, CH,
 Osell

- 2B Sports Education (1 cr)
 —1, Badminton
 III TThS, CH, Brain
 —2, Basketball
 VII MWF, CH, Vancisin
 —3, Swimming, Intermed
 II TThS, CH, Boyce
 —4, Swimming, Adv
 III MWF, CH, Boyce
 —5, Gymnastics, Weight Lifting
 VIII MWF, CH, Ostrander
 —6, Wrestling
 VIII MWF, CH, Bartelma

PHYSICAL EDUCATION FOR WOMEN (PE)

Nonprofessional Courses

Aquatics

- Swim, Begin
 III MWF, 51NGW
 Swim, Adv Begin
 —1, VIII MWF, 51NGW
 —2, III TTh, 51NGW
 Swim, Intermed
 VI MWF, 58NGW
 Swim, Intermed Adv
 VIII MWF, 58NGW

Body Building

- Indiv Body Building
 —1, II MWF, 153a, 201NGW
 —2, VI MWF, 153a, 201NGW

- 3, II TTh, 153a, 201NGW
 —4, III TTh, 153a, 201NGW
 —5, IV MWF, 153a, 201NGW

Individual Sports

- Badminton, Elem
 —1, II MWF, 60NGW
 —2, III MWF, 153NGW
 —3, VIII MWF, 60NGW
 Badminton, Intermed
 IV MWF, 60NGW
 Bowling
 —1, II MWF, CMU, 201NGW
 —2, III MWF, CMU, 201NGW
 —3, II TTh, CMU, 201NGW
 —4, III TTh, CMU, 201NGW

Fencing

- 1, VI MWF, 60NGW
- 2, II TTh, 60NGW
- 3, VI TTh, 60NGW

Rifle marksmanship

- 1, II TTh, A
- 2, III TTh, A
- 3, I TTh, A, 201NGW

Skating, Elem

- 1, VII-VIII M, 201NGW, Arena
- 2, VIII-IX M, 201NGW, Arena

Skiing, Elem

VII-VIII Th, 201, 153aNGW

Tennis, Elem

- 1, V MWF, 151NGW
- 2, VIII TTh, 60NGW

Rhythms

Elem Ball Dance

III TTh, 151NGW

Folk, Sq Dance

II MWF, 153NGW

Elem Modern Dance

—1, IV MWF, 151NGW

—2, VIII MWF, 151NGW

Intermed Adv Mod Dance

VI MWF, 151NGW

Elem Tap Dance

VII MWF, 151NGW

Team Sports

Basketball

—1, I MWF, 151NGW

—2, VI TTh, 151NGW

Volleyball

III TTh, 153NGW

COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

AMERICAN STUDIES (AMST)

- 91 Proseminar (2 cr; prereq sr, cons instr)
VIII-IX M, 307F, Smith
- 201 Seminar for PhD Cand in Amer Studies (2 cr)
VIII-IX T, 103F, Smith
- 211 Seminar (3 cr; prereq cons instr)
IX-X W, 307F, Hornberger

ANTHROPOLOGY (ANTH)

- 40 Introd Anthropology (5 cr)
VI MTWThF, 102L, Kelly
- 42 Introd World Ethnology (5 cr)
VII MTWThF, 102L, Spencer
- 81 Archeol—N America (3 cr)
III MWF, 106TSMc, Wilford
- 111 Adv Phys Anthropology (3 cr; prereq* 110 or
zool 22 or 175 or course in human anat)
II MWF, 106TSMc, Wallis
- 118 Indian Civilization—Mexico, Peru (3 cr)
IV TThS, 106TSMc, Kelly
- 119 Contact of Cultures (3 cr)
IV MWF, 106TSMc, Wallis
- 123 Probs in Anthropology (ar cr; prereq* 122)
Ar
- 127 Races, Cultures of China (3 cr)
VI MWF, 106TSMc, Spencer
- 161 Prim Religion (3 cr)
VII MWF, 106TSMc, Wallis
- 205 Seminar (3 cr)
Ar

ART (ART)

- 1 Introd Art (4 cr)
Lect III MWF, NHAud, Arnason, others
—1, I-II T, 203, 207TSF

—2, III-IV T, 203, 207TSF

—3, V-VI T, 203, 207TSF

—4, VII-VIII T, 203, 207TSF

—5, IX-X T, 203, 207TSF

—6, I-II Th, 203, 207TSF

—7, III-IV Th, 203, 207TSF

—8, V-VI Th, 203, 207TSF

—9, VII-VIII Th, 203, 207TSF

—10, IX-X, Th, 203, 207TSF

2 Masters in Art—Anc to Renaissance
(3 cr; prereq 1)

III MWF, 207NH, Arnason

4 Gen Design (3 cr; prereq* 1)

—1, I-II TThS, 104J, Collins

—2, VI-VIII TTh, 104J, Collins

-5 Gen Design (3 cr; prereq* 4)

—1, I-II MWF, 104J, Downs

—2, VI-VII MWF, 104J, Downs

—3, III-IV TThS, 104J, Schmidt

10 Photography (3 cr; prereq no fresh)

Lect V T, 311MurH, Liebling

Lab I-IV W, 20MurH, Liebling

11 Drawing, Design (5 cr; prereq 1)

V-VII MWF and ar, 203, 207TSF, Collins

20 Drawing, Painting I (2 cr; prereq* 1)

—1, I-II MW, 207aJ, Rollins

—2, III-IV MF, 207aJ, Rollins

—3, I-II TTh, 207bJ, Parker

—4, VI-VII MF, 207aJ, Rollins

—5, VI-VII TTh, 207aJ

21 Drawing, Painting I (2 cr; prereq* 20)

—1, I-II MF, 417E, Young

—2, II-III TTh, 207aJ, Rollins

—3, IV-V TTh, 207aJ, Whiteside

—4, III-IV MF, 207aJ, Quirt

- 31 Tech Drawing (2 cr; prereq 30)
—1, I-II MW, 207bJ, Doseff
—2, VI-VII MF, 207bJ, Doseff
- 33 Sculpture I, Figure, Portrait Modeling (3 cr; prereq* 1)
I-II MWF, 405E, Sabean
- 34 Sculpture I, Figure, Portrait Modeling (3 cr; prereq* 33)
—1, I-II MWF, 405E, Sabean
—2, III-IV MWF, 405E, Sabean
—3, VI-VII MWF, 405E, Rood
- 43 Design Workshop (3 cr; prereq* 1)
—1, VI-VII MWF, 11J, Adams
—2, VI-VIII TTh, 2J, Adams
- 44 Design Workshop (3 cr; prereq* 43)
—1, I-II TThS, 11J, Morton
—2, I-II MWF, 2J, Rood
—3, VI-VII MWF, 11J, Sabean
- 45 Design Workshop (3 cr; prereq* 44)
III-IV TThS, 11J, Morton
- 60 Drawing, Painting II (3 cr; prereq* 21)
VI-VIII TTh, 207bJ, Schmidt
- 60A Drawing, Painting II (2 cr; prereq 21, architects only)
II-IV ThS, 417E, Young and Whiteside
- 61 Drawing, Painting II (3 cr; prereq 60)
—1, I-II MWF, 200aJ, Arnest
—2, III-IV MWF, 200aJ, Parker
—3, I-II TThS, 200aJ, Doseff
- 61A Drawing, Painting II (2 cr; prereq 60A)
II-IV ThS, 417E, Young and Whiteside
- 62 Drawing, Painting II (3 cr; prereq 61)
VI-VIII TTh, 207bJ, Rollins
- 62A Drawing, Painting II (2 cr; prereq 61A)
II-IV ThS, 417E, Young and Whiteside
- 64 Commer Design (3 cr; journ, advertising students only)
VII-VIII MWF, 203, 207TSF
- 67 Mod Painting, Sculpture (3 cr; prereq* 1)
VII MWF, 207NH, Arnason
- 70 Drawing, Painting III (3 cr; prereq* 52, 62)
—1, I-II MWF, 200bJ, Quirt
—2, III-IV MWF, 417E, Young (watercolor)
—3, VI-VII MWF, 200aJ, Parker
—4, I-III TTh, 200bJ, Arnest
- 71 Drawing, Painting III (3 cr; prereq 70)
—1, I-II MWF, 200bJ, Quirt
—2, III-IV MWF, 417E, Young (watercolor)
—3, VI-VII MWF, 200aJ, Parker
—4, I-III TTh, 200bJ, Arnest
- 72 Drawing, Painting III (3 cr; prereq 71)
—1, I-II MWF, 200bJ, Quirt
—2, III-IV MWF, 417E, Young (watercolor)
—3, VI-VII MWF, 200aJ, Parker
—4, I-III TTh, 200bJ, Arnest
- 74 Present Techniques (3 cr; prereq* 73)
—1, III-IV MWF, 104J, Downs
—2, VIII-IX MWF, 104J, Collins
- 80 Drawing, Painting IV (3 cr; prereq 72)
—1, I-IV S and ar, 200bJ, Quirt
—2, I-IV S and ar, 200aJ, Morris
—3, Ar, Arnest, Parker
- 81 Drawing, Painting IV (3 cr; prereq 80)
—1, I-IV S and ar, 200bJ, Quirt
—2, I-IV S and ar, 200aJ, Morris
—3, Ar, Arnest, Parker
- 82 Drawing, Painting IV (3 cr; prereq 81)
—1, I-IV S and ar, Quirt
—2, I-IV S and ar, Morris
—3, Ar, Arnest, Parker
- 83 Sculpture II (3 cr; prereq 35)
III-IV MWF, 11J, Rood
- 84 Sculpture II (3 cr; prereq 83)
III-IV MWF, 11J, Rood
- 85 Sculpture II (3 cr; prereq 84)
III-IV MWF, 11J, Rood
- 88 Text Design (3 cr; prereq 87)
VIII-IX MWF, 4J, Berglund
- 90 Print Processes (3 cr; prereq* 62)
—1, II-IV MW, 203J, Myers
—2, II-IV TTh, 203J, Myers
—3, VI-VIII TTh, 203J, Myers
- 91 Print Processes (3 cr; prereq 90)
—1, II-IV MW, 203J, Myers
—2, II-IV TTh, 203J, Myers
—3, VI-VIII TTh, 203J, Myers
- 92 Print Processes (3 cr; prereq 91)
—1, II-IV MW, 203J, Myers
—2, II-IV TTh, 203J, Myers
—3, VI-VIII TTh, 203J, Myers
- 94 Ceramics I (3 cr; prereq 93)
—1, I-II TThS, 10J, Forst
—2, III-IV TThS, 10J, Forst
- 95 Ceramics I (3 cr; prereq 94)
—1, I-II TThS, 10J, Forst
—2, III-IV TThS, 10J, Forst
- 98 Leather, Text Design (3 cr; prereq 97)
III-IV MWF, 2J, Berglund
- 107 Roman, Byzant Art (3 cr; prereq 9 cr art or 9 cr hist or lit, cons instr)
II MWF, 207NH, Eitner
- 117 Masters—High Renaissance (3 cr; prereq 9 cr art or 9 cr hist or lit, cons instr)
VI MWF, 207NH, Eitner
- 127 Europ Art—17th, 18th Cent (3 cr; prereq 9 cr art hist or 9 cr hist or lit, cons instr)
IV MWF, 207NH, Torbert
- 134 Adv Design (3 cr; prereq 133)
IX-X T and ar, 104J
- 137 Renaissance, Mod Arch (3 cr; prereq* 136)
I MWF, 207NH, Torbert
- 143 Design in Jewelry (3 cr; prereq 5, 21, 45)
VI-VII TTh, 11J, Morton
- 144 Design in Jewelry (3 cr; prereq 143)
VI-VII TTh, 11J, Morton
- 145 Design in Jewelry (3 cr; prereq 144)
VI-VII TTh, 11J, Morton
- 147 Art in US—19th Cent (3 cr; prereq 9 cr art hist or 9 cr hist or lit, cons instr)
VIII MWF, 207NH, Tselos

- 150 Probs in Painting, Prints (ar cr; prereq cons instr)
 —1, I-IV S and ar, 200bJ, Quirt
 —2, I-IV S and ar, 200bJ, Morris
 —3, Ar, Faculty
- 151 Probs in Painting, Prints (ar cr; prereq 150)
 —1, I-IV S and ar, 200bJ, Quirt
 —2, I-IV S and ar, 200bJ, Morris
 —3, Ar, Faculty
- 152 Probs in Painting, Prints (ar cr; prereq 151)
 —1, I-IV S and ar, 200bJ, Quirt
 —2, I-IV S and ar, 200bJ, Morris
 —3, Ar, Faculty
- 154 Ind Design (3 cr; prereq 153)
 I-III TTh, 2J, Adams
- 183 Sculpture III (3 cr; prereq cons instr)
 Ar, Rood, Sabean
- 184 Sculpture III (3 cr; prereq 183)
 Ar, Rood, Sabean
- 185 Sculpture III (3 cr; prereq 184)
 Ar, Rood, Sabean
- 193 Ceramics II (3 cr; prereq cons instr)
 Ar, Forst
- 194 Ceramics II (3 cr; prereq 193)
 Ar, Forst
- 195 Ceramics II (3 cr; prereq 194)
 Ar, Forst
- 200 Adv Problems (ar cr; prereq cons instr)
 Ar, Faculty
- 201 Adv Problems (ar cr; prereq cons instr)
 Ar, Faculty
- 202 Adv Problems (ar cr; prereq cons instr)
 Ar, Faculty
- 207 Seminar—Mod Europ Art (3 cr; prereq cons instr)
 Ar, Tselos
- 217 Seminar—Amer Art (3 cr; prereq cons instr)
 Ar, Tselos
- 237 Seminar—Spec Probs in Art History, Criticism (ar cr; prereq cons instr)
 Ar, Tselos
- ### ASTRONOMY (AST)
- 20 Astronomy, Celest Navigation (5 cr)
 III MTWF and 3 hr lab, 358Ph, Luyten
- 51 Gen Astronomy (3 cr; prereq math 6)
 IV MWF, 133Ph, Luyten
- 52 Astrophysics (4 cr; prereq 51 or 11, math 6)
 II MTWF, 358Ph, Luyten
- ### BOTANY (BOT)
- 2 Gen Botany (3 cr; prereq 1)
 —1, Lect III TTh, 150Ph
 —2, Lect VI TTh, 06Bo
 —1, Lab III-IV TTh, 1, 4, 5Bo
 —2, Lab V-VI TTh, 1, 4, 5Bo
 —3, Lab VII-VIII TTh, 1, 4, 5Bo
 —4, Lab IX-X TTh, 1, 4, 5Bo
 —5, Lab I-II WF, 1, 4, 5Bo
- 6, Lab III-IV WF, 1, 4, 5Bo
 —7, Lab V-VI WF, 1, 4, 5Bo
 —8, Lab VII-VIII WF, 1, 4, 5Bo
- 12 Plants Useful to Man (3 cr)
 IV TThS, 214Bo, Lawrence
- 53 Introd Plant Anatomy (3 cr; prereq 3 or 5 or nat sci 9)
 II-IV TTh, 209Bo, Abbe
- 112 Aquatic Flower Plants (3 cr; prereq* 10 cr bot or zool)
 Lect IV MW, 401Bo, Ownbey
 Lab ar
- 114 Phyletic Taxonomy of Angiosperms (3 cr; prereq* 52 or 54)
 VI-VIII TTh, 401Bo, Ownbey
- 118 Extranuclear Cytology (3 cr; prereq* 10 cr bot or zool)
 VI-VII MWF, 202Bo, Dahl
- 127 Morphology of Vascular Plants (5 cr; prereq 10 cr bot)
 II-IV MWF, 209Bo, Abbe
- 132 Morpholog Ecology (5 cr; prereq 50 or 130 or for 2, 3, 4)
 VI-VIII MWF, 214Bo, Cooper
- 177 Photosynthesis (3 cr; prereq* sr, 51 or 140, 20 cr chem or agric biochem, phys chem 103 or 108)
 9:00-10:30 TTh, 110Bo, Brown, Frenkel
- 180 Adv Physiology Lab (2 cr; prereq sr, 177 or concur regis, 179)
 —1, VI-X T, 104Bo, Brown, Frenkel
 —2, VI-X TTh, 104Bo, Brown, Frenkel
- 198 Problems (1-5 cr; prereq 20 cr nat sci, cons instr)
 Ar
- 202 Research Probs—Morphology of Vascular Plants (ar cr)
 Ar, Abbe
- 206 Research Probs—Taxonomy, Flor Plant Geography (ar cr)
 Ar, Ownbey
- 210 Research Probs—Paleobotany (ar cr)
 Ar
- 222 Research Probs—Ecology (ar cr)
 Ar, Cooper, Lawrence
- 226 Research Probs—Plant Physiology (ar cr)
 Ar, Brown, Frenkel
- 230 Research Probs—Cytology (ar cr)
 Ar, Dahl
- 241 Seminar—Morphology (ar cr)
 Ar, Abbe
- 244 Seminar—Taxonomy (ar cr)
 Ar, Ownbey
- 247 Seminar—Paleobotany (ar cr)
 Ar
- 250 Seminar—Ecology (ar cr)
 Ar, Cooper, Lawrence
- 253 Seminar—Plant Physiology (ar cr)
 Ar, Brown, Frenkel
- 256 Seminar—Cytology (ar cr)
 Ar, Dahl

CLASSICS**Classics (CLAS)**

Courses for which no knowledge of Greek or Latin is required.

- 32 Greek, Latin Drama (2 cr; prereq no fresh)
IV MW, 6F, McDonald
- 107 Introd Study of Language (3 cr; prereq 106)
VIII MWF, 103F, Swanson
- 122 Introd to Greek Archeology (3 cr)
VIII MWF, 6F, McDonald
- 192 Class Lit Traditions (3 cr; prereq 9 cr engl
or for lit)
V MWF, 103F, DeWitt

Greek (GRK)

- 2 Begin Greek (5 cr, †1-2; prereq 1)
II MTWThF, 103F, McDonald
- 52 Homer (3 cr; prereq 3)
IX MWF, 108F
- 172 Reading (3 cr; prereq cons dept)
Ar
- 212 Seminar—Greek Epic (3 cr)
III-IV S, McDonald

Latin (LAT)

- 2 Begin Latin (5 cr, †1-2; prereq 1)
IV MTWThF, 108F, Swanson
- 12 Vergil II (5 cr; prereq 11)
III MTWThF, 103F, Forbes
- 51 Read—Prose, Poetry (3 cr; prereq 12)
Ar, Forbes
- 82 Roman Literature (3 cr; prereq 81)
II MWF, 108F, Forbes
- 112 Adv Prose Composition (2 cr, †111-112-113;
prereq 111)
II TTh, McDonald
- 172 Reading (3 cr; prereq cons dept)
Ar, DeWitt
- 202 Seminar—Cicero (3 cr)
Ar, McDonald

ENGLISH

Composition (English) A-B-C does not satisfy prerequisites for courses numbered 100 and above.

Composition (COMP)

- A Fresh English (5 cr; prereq place test)
I MTWThF, 12F
- B Fresh English (5 cr; prereq A)
 - 1, I MTWThF, 204F
 - 2, II MTWThF, 204F
 - 3, III MTWThF, 8F
 - 4, IV MTWThF, 5F
 - 5, V MTWThF, 8F
 - 6, VI MTWThF, 11F
 - 7, VII MTWThF, 213F
 - 8, VIII MTWThF, 209F

- 4 Fresh Composition (3 cr; prereq place test)
 - 1, II TThS, 201F
 - 2, IV TThS, 303F
 - 3, V MWF, 213F
 - 4, VIII MWF, 110F
- 5 Fresh Composition (3 cr; prereq 4)
 - 1, I MWF, 322F
 - 2, II MWF, 305F
 - 3, III MWF, 11F
 - 4, IV MWF, 206F
 - 5, V MWF, 201F
 - 6, VI MWF, 9F
- 6 Fresh Composition (3 cr; prereq 5)
I MWF, 114TSMa
- 7 Comp Review (3 cr; prereq 6 or C with cons
instr or comm 3)
 - 1, V MWF, 206F, Christie
 - 2, VI MWF, 103F, Bean
- 27 Adv Writing (3 cr; prereq C or 6 or comm 3
or exempt)
 - 1, I MWF, 207F, Smith
 - 2, II MWF, 5F, del Plaine
 - 3, III MWF, 204F, Christie
 - 4, IV MWF, 3F, Macdonald
 - 5, VI MWF, 2F, Klein
 - 6, I TThS, 205F, Johnson
- 28 Adv Writing (3 cr; prereq C or 6 or comm 3,
or exempt)
 - 1, I MWF, 205F, Steinmann
 - 2, II MWF, 206F, Bean
 - 3, III MWF, 205F, Buckley
 - 4, IV MWF, 207F, del Plaine
 - 5, V MWF, 205F, Steinmann
 - 6, V MWF, 226F, del Plaine
 - 7, VI MWF, 5F, Englehart
 - 8, VII MWF, 9F, Blum
 - 9, VIII MWF, 205F, Helton
 - 10, II TThS, 207F, Ross
 - 11, VI TTh, VII Th, 207F, Bean
- 29 Adv Writing (3 cr; prereq 27)
II TThS, 304F, Steinmann
- 58 Bus Reports, Letters (3 cr; prereq C or 6 or
comm 3 or exempt, regis BA or cons instr)
 - 1, II MWF, 115TSMb, Guthrie, others
 - 2, IV MWF, 115TSMb
 - 3, VI MWF, 115TSMb
 - 4, VIII MWF, 115TSMb
 - 5, III TThS, 115TSMb
- 65 Writing Term Papers, Theses (3 cr; prereq C
or 6 or comm 3 and 6 addtl cr engl or
comp; or 10 cr engl 21-22-23)
VI TTh and ar, 304F, Buckley
- 68 Probs of Style (3 cr; prereq 67)
VI MWF, 304F, Atkins
- 102 Writing Fiction (3 cr; prereq 101)
 - 1, VIII-IX M, 304F, Blum
 - 2, VIII-IX W, 304F, Ross
 - 3, VIII-IX F, 304F, Cox
- 105 Writing Poetry (3 cr; prereq 104)
VIII-IX Th, 304F, Unger
- 201 Seminar—Writing (3 cr; prereq cons instr)
 - 1, IX-X M, 204F, Warren
 - 2, IX-X W, 204F, Cox

English (ENGL)

- A See Composition A
 B See Composition B
- 22 Introd Literature (5 cr; prereq comp C or 6 or comm 3)
 —1, III MTWThF, 301F, Moore
 —2, VI MTWThF, 301F, Buckley
- 38 20th Cent Literature (3 cr; prereq comp C or 6 or comm 3)
 VII MWF, 206F, Rathburn
- 53 Engl Novel (3 cr; prereq comp 6 or comm 3 and 6 addtl cr; or comp C; or 10 cr in 21-22-23)
 VII MWF, 301F, Moore
- 55 Shakespeare—Comedies (3 cr; prereq comp 6 or comm 3 and 6 addtl cr; or comp C; or 10 cr in 21-22-23)
 —1, II TThS, 205F, Hetton
 —2, III TThS, 303F
 —3, VI MWF, 321F, Steinmann
 —4, VIII MWF, 207F, Turpie
- 56 Shakespeare—Tragedies (3 cr; prereq* 55)
 —1, I TThS, 107F, Atkins
 —2, II MWF, 107F, Hessler
 —3, II TThS, 305F, Marx
 —4, VI MWF, 305F, Buckley
 —5, VII MWF, 303F, Christie
 —6, VIII MWF, 303F, Armstrong
- 66 Lit of the Bible (3 cr; prereq comp 6 or comm 3 and 6 addtl cr; or comp C; or 10 cr in 21-22-23)
 IV MWF, 107F, Unger
- 74 Amer Literature (3 cr; prereq comp 6 or comm 3 and 6 addtl cr; or comp C; or 10 cr in 21-22-23)
 —1, II MWF, 18ME, McDowell
 —2, II MWF, 209NH
 —3, VII MWF, 216NH, Smith
- 75 Chaucer (4 cr; prereq comp 6 or comm 3 and 6 addtl cr; or comp C; or 10 cr in 21-22-23)
 VII MWThF, 103F, Atkins
- 98 Reading (3 cr; prereq 97)
 Ar, Hessler
- 102 Readings—Old Engl Prose, Verse (3 cr; prereq 100)
 II MWF, 307F, Armstrong
- 105 Hawthorne, Melville (3 cr; prereq 6 cr)
 III MWF, 107F, Marx
- 110 Rom Poets—Early 19th Cent (3 cr; prereq 6 cr)
 II TThS, 107F, Erdman
- 121 Interp Poetry (3 cr; prereq 120)
 VI MWF, 206F, Warren
- 124 Technique of the Novel (3 cr; prereq sr, 123)
 IX-X T, 204F, Gray
- 127 Drama 1660-1870 (3 cr; prereq 126)
 IV MWF, 204F, Hillhouse
- 130 Engl Poetry 1832-1914 (3 cr; prereq 6 cr)
 VI MWF, 207F, Blum
- 138 19th Cent Engl Literature (3 cr; prereq 137)
 III TThS, 204F, Erdman

- 140 Adv Chaucer (3 cr; prereq 75)
 VI MWF, 107F, Clark
- 148 Engl Literature—Middle Ages, Excl of Chaucer (3 cr; prereq 147)
 VII MWF, 205F, Clark
- 155 Amer Novel (3 cr; prereq 6 cr)
 III TThS, 205F, Bowron
- 162 Milton (3 cr; prereq 21-22 or 56)
 II MWF, 109F, Brown
- 165 Introd Mod English (3 cr; prereq 6 cr)
 VII MWF, 204F, Allen
- 168 Engl Lit Criticism (3 cr; prereq 167)
 II MWF, 304F, O'Connor
- 170 Shakespeare's Later Contemporaries (3 cr; prereq 56)
 IV MWF, 304F, Brown
- 172 Develop—Stand English (3 cr; prereq 171)
 VII-VIII T, 304F, Allen
- 185 Interp Drama (3 cr; prereq 184)
 IX-X W, 302F, Reisman
- 188 18th Cent Literature (3 cr; prereq 6 cr)
 II MWF, 207F, Monk
- 194 Dr. Johnson—His Circle (3 cr; prereq cons instr, grad 6 cr)
 VI MWF, 303F, Moore
- 198 17th Cent Literature (3 cr; prereq 197)
 III MWF, 303F, Unger
- 229 18th Cent Novel (3 cr)
 IX-X Th, 312Lib, Hillhouse
- 232 Shakespeare's Tragic Comic Art (3 cr; prereq read knowl fren or ger)
 IX-X T, 312Lib, Brown
- 241 Canterbury Tales (3 cr)
 IX-X Th, 339Lib, Clark
- 254 Amer Romanticism I (3 cr; prereq cons instr)
 IX-X F, 103F, McDowell
- 278 Amer Realism (3 cr; prereq cons instr)
 IX-X F, 307F, Smith
- 282 Engl Rom Movement (3 cr)
 IX-X W, 312Lib, Erdman
- 285 Dryden—His Age (3 cr)
 IX-X M, 312Lib, Monk
- 298 Indep Reading (3 cr; prereq 297)
 Ar, Grad Staff

GENERAL STUDIES**Communication (COMM)**

- 1 Communication (4 cr)
 —1, I MTWF, 8TNM
 —2, V MWThF, 8TNM
 —3, VII MWThF, 14TNM
- 2 Communication (4 cr; prereq 1)
 —1, I MWThF, 115TNM
 —2, II MTWF, 115TNM
 —3, III MTWF, 115TNM
 —4, IV MWThF, 115TNM
 —5, V MTWF, 115TNM
 —6, VI MTWF, 115TNM
 —7, VII MTWF, 115TNM
- 3 Communication (4 cr; prereq 2)
 V MTWF, 107TNM

Family Life (FL)

- 1 Prep for Marriage (3 cr)
 - 1, II MWF, 159TSF, Dyer, Koontz, Neubeck, others
 - 2, V MWF, 159TSF
 - 3, VII MWF, 159TSF
 - 4, II TThS, 159TSF
- 14 Nutrition, Food Mgt (5 cr)
 - IX MTWThF, X TTh, 5UHS, Shepard
- 15 The Home—Its Furnishings (3 cr)
 - VIII MWF, 206WeH, Ludwig
- 20 Consumer Education (3 cr)
 - II TThS, 157TSF, Price
- 25 Child Development, Adjustment (3 cr)
 - III MWF, 157TSF, Hansen

Humanities (HUM)

- 1 Humanities—Mod World I (5 cr)
 - 1, III MTWThF, 111NH, Blum
 - 2, IV MTWThF, 111NH, Swanson
 - 3, IV MTWThF, 107NH, Livingston
- 2 Humanities—Mod World II (5 cr; prereq 1)
 - 1, I MTWThF, 111NH, Marsh
 - 2, II MTWThF, 111NH, Marsh
 - 3, III MTWThF, 101WeH, Ramsland
 - 4, IV MTWThF, 211NH, Ames
 - 5, V MTWThF, 11F, Turnbull
 - 6, VI MTWThF, 111NH, Bryan
 - 7, VII MTWThF, 259TSF, Linnell
 - 8, VIII MTWThF, 226F, Neumeier
- 3 Humanities—Mod World III (5 cr; prereq 2)
 - IV MTWThF, 209NH, Bowditch
- 4 Humanities—Mod World IV (5 cr; prereq 1 or 2 or 3)
 - V MTWThF, 211NH, Livingston
- 12 Roman, Medieval Heritage (5 cr)
 - 1, II MTWThF, 9TNM, Ames
 - 2, III MTWThF, 209TSF, Livingston
- 22 Amer Life II (3 cr)
 - 1, II MWF, 308F, Turpie
 - 2, II MWF, 253TSF, Kwiat
 - 3, III MWF, 308F, Bowron
 - 4, VII MWF, 6F, Davies
- 52 Humanities—Mod World (5 cr, §2)
 - 1, II MTWThF, 303F, Wood
 - 2, III MTWThF, 209NH, McClosky
 - 3, VI MTWThF, 209NH, Wolf
- 62 Roman, Medieval Heritage (5 cr, §12)
 - 1, II MTWThF, 301F, DeWitt
 - 2, VI MTWThF, 216NH, Shaw
- 72 Humanities—United States (3 cr, §22)
 - VII MWF, 2P, Hornberger
- 132 Proseminar (2 cr; prereq sr)
 - Ar, Ames

Natural Science (NSCI)

- 2 Orient Nat Sciences (5 cr; prereq 1)
 - Lect II MTWTh, 166Ph, Graubard
 - 1, I F
 - 2, II F

- 3, VI T
- 4, VII T
- 5, VIII T
- 6, IX T
- 7, VIII W
- 8, IX W
- 9, VIII Th
- 10, IX Th
- 5 Phys World (3 cr; prereq 4)
 - Lect IV MWF, 166Ph, Kruglak
 - 1, VI-VII M
 - 2, VIII-IX M
 - 3, III-IV T
 - 4, VI-VII W
 - 5, III-IV Th
 - 6, VI-VII Th
 - 7, VI-VII F
 - 8, I-II S
- 8 Gen Biology (3 cr, †7-8-9; prereq 7)
 - Lect V WF, 06Bo
 - 1, I-II TTh
 - 2, III-IV MW
 - 3, IX-X MF
- 172 Develop of Sciences (3 cr; prereq* 1 yr bio, 1 yr phys sci)
 - VII MWF, 143Ph, Graubard

Personal Orientation (PO)

- 1 How to Study (2 cr)
 - 1, I MWF, 109TSF, Harrell
 - 2, II MWF, 109TSF, Harrell
 - 3, VI MWF, 109TSF, Renzaglia
 - 4, VII MWF, 109TSF, Renzaglia
- 11 Choosing a Vocation (2 cr)
 - II TTh and hr ar, 257TSF, Hewer

Social Sciences (SSCI)

- 1 Introd Soc Science (4 cr)
 - 1, II MWF, 107NH
 - 2, IV MWF, 313Z
 - 3, VI MWF, 157TSF, Wyatt
- 2 Introd Soc Science (4 cr; prereq 1)
 - 1, I MWF, 106NH, Nelson
 - 2, I MWF, 107NH, Albertal
 - 3, II MWF, 210P, Calhoun
 - 4, II MWF, 110P, Nelson
 - 5, III MWF, 253TSF, Prell
 - 6, III MWF, 308MurH, Wyatt
 - 7, IV MWF, 110P, Wyatt
 - 8, V MWF, 107NH, Calhoun
 - 9, VI MWF, 107NH, Calhoun
 - 10, VII MWF, 253TSF, Potter
 - 11, III TThS, 159TSF, Prell
- 3 Introd Soc Science (4 cr; prereq 2)
 - VI TTh, VII T, 110P, Sibley
- 12 Intl Relations (3 cr)
 - III MWF, 100NH, Levi
- 82 Pub Affairs Forum (3 cr)
 - IV MWF, V F, 209F, Ziebarth

GEOGRAPHY (GEOG)

- 11 Human Geography (5 cr)
Lect III MWF, 410C, Kress
—1, Lab I TTh, 103Bu
—2, Lab II TTh, 103Bu
—3, Lab III TTh, 103Bu
—4, Lab IV TTh, 103Bu
—5, Lab V TTh, 103Bu
—6, Lab V MW, 103Bu
—7, Lab VII MW, 103Bu
—8, Lab IX MW, 103Bu
- 41 Geog—Commer Production (5 cr)
Lect IV MWThF, 2P, Weaver
—1, Rec VII Th, 103Bu
—2, Rec V F, 103Bu
—3, Rec VIII Th, 103Bu
—4, Rec VII F, 103Bu
—5, Rec IX Th, 103Bu
—6, Rec IX F, 103Bu
- 102 Trade Routes, Centers (3 cr; prereq 41)
II MWF, 103Bu, Weaver
- 106 Geog Scandinavia (3 cr)
I MWF, 103Bu, Kress
- 107 Geog Soviet Union (3 cr)
IV MWF, 103Bu, Borchert
- 110 Geog—S America (3 cr; prereq* 11)
VI MWF, 103Bu, Borchert
- 143 Pol Geography (3 cr, §43; prereq* 11 or 41)
III MWF, 103Bu, Broek
- 155 Develop of Geog Thought (3 cr; prereq 12 cr
geog)
VIII MWF, 103Bu, Broek
- 252 Seminar (ar cr)
VIII-IX T, 103Bu, Borchert
- 301 Research Probs (ar cr)
Ar, Broek, Weaver

GEOLOGY (GEOL)

- A Gen Geology Lab (2 cr; prereq 2 or concur
regis)
—1, I-II MW, 22P
—2, III-IV MW, 22P
—3, VIII-IX TTh, 22P
- B Gen Geology Lab (2 cr; prereq A)
—1, I-II TTh, 20, 22P
—2, VI-VII MW, 20, 22P
—3, VI-VII TTh, 20, 22P
- 1 Gen Geology (3 cr, †1-2; except forestry stu-
dents)
—1, IV TThS, 210P, Zumberge
—2, VII MWF, 210P, Swain
- 2 Gen Geology (3 cr, †1-2; prereq 1)
—1, III TThS, 110P, Zumberge
—2, VI MWF, 210P, Swain
- 8 Earth Features, Their Meaning (5 cr, §1,
nat sci 6)
III MTWThF, 2P, Thiel
- 24 Mineralogy (5 cr; prereq 23)
Lect I MWF, 110P, Gruner
Rec VIII T, 110P
—1, Lab VI-VII TTh, 100P

- 2, Lab ar
—3, Lab ar
- 61 Blowpipe Analysis (3 cr; prereq 24)
6 hrs ar, 100P, Gruner
- 102 Methods of Study—Sediments (3 cr; prereq
101, 106)
Lect VI T, 210P
Lab VII-VIII TTh, 208P, Thiel
- 103 Micropaleontology (3 cr; prereq 107)
Ar, Swain
- 108 Strat Paleontology (3 cr; prereq 152 or concur
regis with 151-152)
Ar, Bell
- 111 Econ Geology (3 cr; prereq 110)
I TTh, VI F, 110P, Schwartz
- 119A Geomorphology of Eastern US (3 cr; prereq
118 or 125)
IV MWF, 210P, Wright
- 124 Metamor Geology (3 cr; prereq 25)
II MWF, 218P, Schwartz
- 131 Petrology (4 cr; prereq 106)
Lect III F, 218P, Goldich
Lab VI-VII WF, 200P
- 140 Appl Petrography (3 cr; prereq 131)
Lect II F, 200P, Goldich
Lab VIII-IX MW, 200P
- 144 Geol Maps (3 cr; prereq 125)
Lab VII-IX T, VI-VIII Th, 220P, Wright
- 147 Soil Mineralogy (4 cr; prereq 146)
Ar, 100P, Gruner
- 151 Stratigraphy (3 cr; prereq 107)
III MWF, 110P, Bell
- 161 Adv Mineralogy (3 cr; prereq 121)
Ar, 100P, Gruner
- 166 Mineralography (3 cr; prereq sr, 111, 131)
VI-VII MTTh, 207P, Schwartz
- 170 Geol Problems (3 cr; prereq cons maj advis)
Ar

GERMAN (GERM)

- 1 Begin German (5 cr)
—1, I MTWThF, 209F
—2, II MTWThF, 209½F
- 2 Begin German (5 cr; prereq 1)
—1, I MTWThF, 213F
—2, II MTWThF, 213F
—3, III MTWThF, 213F
—4, IV MTWThF, 209½F
—5, VII MTWThF, 209F
- 2a Begin Conver German (5 cr; prereq 1a)
Demonstration III MTWThF, 209F
Lab Drill IV MTWThF, 213F
- 2b Begin Read German (5 cr; prereq 1b)
II MTWThF, 209F
- 3 Begin German (5 cr; prereq 2)
—1, III MTWThF, 209½F
—2, VII MTWThF, 209½F
- 4 Intermed German (5 cr; prereq 3 or 3a or 3b)
—1, I MTWThF, 209½F
—2, VI MTWThF, 209½F
- 20 Read, Speak German (5 cr; prereq 4)
III MTWThF, 207F

- 25 Chem German (3 cr; prereq 24)
—1, II MWF, 215C
—2, IV MWF
- 25a Chem German (4 cr; for pharm, agric)
IV MTWF, 107TSMb
- 28 Chem Prose (3 cr; prereq 27)
IV MWF
- 42 Read German Chem Periodicals (2 cr; prereq 41)
IV TTh, 209F
- 51 Composition (2 cr; prereq 50)
VI MF, 209F, Downs
- 54 Conversation (2 cr; prereq 53)
VI TTh, 209F, Menze
- 57 Essay Writing (3 cr; prereq 56)
III TThS, 208F, Pfeiffer
- 59 German Pronunciation, Diction (1-2 cr; prereq 3, cand for ger play)
Ar
- 60 Mod Writers (3 cr; prereq 4)
III MWF, 108F
- 64 19th Cent Drama (3 cr; prereq 3 cr above 59)
IV MWF, 208F
- 71 Survey Literature (3 cr; prereq 3 cr above 59)
III MWF, 208F
- 74 Classics—Engl Translation (2 cr)
VII MF, 208F
- 119 Old High German (3 cr; prereq 118)
VIII-IX W, 208F, Downs
- 151 Ger Literature—19th Cent (3 cr; prereq sr, 72, or 11 cr above 59)
VIII-X T, 208F
- 254 Seminar—Lit Probs (3 cr; prereq 9 cr grad courses ger lit)
VIII-IX M, 208F
- HISTORY (HIST)**
- 1 Civiliz of Mod World (3 cr)
II MW and hr ar, MNHAud, Bowditch
- 2 Civiliz of Mod World (3 cr)
II TTh and hr ar, BuAud, Wolf
- 5 Engl History (3 cr)
II MW and hr ar, NHAud, Burt
- 12 Med History (3 cr; prereq maj music or art)
IV MWF, 221Bu, Krey, Thompson
- 15 Anc Civilization (3 cr)
VII TWTh, 112Bu, Jones
- 15A Read in Anc Civilization (5 cr)
VII MTWThF, 112Bu, Jones
- 21 Amer History (3 cr; prereq no fresh)
—1, II TTh and 1 hr ar, 211NH, Osgood
—2, VIII TTh and 1 hr ar, 211NH, Davies
- 51 Anc Civilization (3 cr, §15)
VII TWTh, 112Bu, Jones
- 54 Civiliz of Mod World (3 cr, §2)
II TTh and 1 hr ar, BuAud, Wolf
- 57 Engl History (3 cr, §5)
Lect II MW, NHAud, Burt
—1, II T, 102NH
—2, II F, 102NH
- 60 Amer History (3 cr, §21)
—1, II TTh and 1 hr ar, 211NH, Osgood
—2, VIII TTh and 1 hr ar, 211NH, Davies
- 63 Cultural Hist China 220 to 906 AD (3 cr)
VII MWF, 207F, Mather
- 66a Renaissance, Reformation (3 cr)
III MWF, 221Bu, Krey
- 68 Amer History since 1900 (3 cr)
VII MWF, 221Bu, Davies
- 71 Engl Constit History (3 cr; prereq see col bulletin)
—1, I MWF, 111Bu, Thompson
—2, I MWF, 145Ph, Willson
- 77 Canad History—Amer Relations (3 cr)
III TThS, 221Bu, Burt
- 87 Amer Colonies (3 cr)
II MWF, 111Bu, Tyler
- 91 Amer West (3 cr)
III TThS, 111Bu, Osgood
- 94 Amer Diplomatic History (3 cr)
VI MWF, 112Bu, Warner
- 98 Minnesota, NW (3 cr)
III MWF, 3F, Jordan
- 101a Hist—Greece to 200BC (3 cr)
I TThS, 112Bu, Jones
- 107 Cont Europe (3 cr)
IV MWF, 111Bu, Steefel
- 110 Europe—20th Cent (3 cr)
I MWF, NHAud, Deutsch
- 113 Econ History of Europe (3 cr)
I TThS, 111Bu, Heaton
- 118 World War II (3 cr)
II MWF, 2P, Deutsch
- 121 Mod France (3 cr)
VI MWF, 111Bu, Bowditch
- 123 Hist Scand Countries (3 cr)
II MWF, 6F
- 126 Russia (3 cr)
IV MWF, 112Bu, Anderson
- 126a Hist Mid East, Persia, Afghanistan, Arabic People, Turkey: 1520-1801 (3 cr; prereq 3)
III MWF, 112Bu, Anderson
- 129 Mod England (3 cr)
II MWF, 112Bu, Willson
- 144 Amer Folklore (3 cr)
I MWF, 112Bu, Jordan
- 147 Amer Econ, Soc History (3 cr)
II TThS, 111Bu, Loehr
- 150 Soc, Intellect History of US (3 cr)
III MWF, 111Bu, Tyler
- 152 Immigrant in Amer History (3 cr)
VIII MWF, 112Bu, Lindgren
- 155 Canad History—Readings (3 cr; prereq sr)
III TThS, 221Bu, Burt
- 158 Survey Lat Amer History (3 cr)
VIII MWF, 221Bu, Allen
- 168 Read—Works of Great Historians (3 cr; prereq sr)
IV TThS, 111Bu, Steefel
- 171 Read Anc History (3 cr; prereq sr)
Ar, Jones
- 174 Read Med, Renais History (3 cr; prereq sr)
VIII-IX W, 339Lib, Krey, Thompson

- 177 Read 17th Cent France (3 cr; prereq sr)
VIII-IX M, 106Bu, Wolf
- 177a Russ History (3 cr; prereq* sr, 125-126-127,
read knowl russ, ger or fren)
VII-VIII M, 312Lib, Anderson
- 177b Scan History (3 cr; prereq sr)
Ar
- 177c Rec Europ History (3 cr; prereq sr)
VI-VII W, 106Bu, Deutsch
- 177d World War II (3 cr; prereq sr)
VI-VII W, 106Bu, Deutsch
- 180 Read Europ Econ History—1300 to 1700
(3 cr; prereq sr)
VI-VII T, 111Bu, Heaton
- 183 Read Engl History (3 cr; prereq sr)
VIII-IX Th, 328Lib, Willson
- 186 Probs 18th Cent Phases of Early Amer Soc,
Intellect History (3 cr; prereq sr)
VI-VII Th, 328Lib, Tyler
- 186a West in Amer History (3 cr; prereq sr)
VIII-IX M, 328Lib, Osgood
- 186c Third Party Movements since Civil War
(3 cr; prereq sr)
VI-VII T, 328Lib, Stephenson
- 186d Minn, NW (3 cr; prereq sr)
VIII-IX W, 219Bu, Jordan
- 189 Amer Econ History (3 cr; prereq sr)
VI-VII Th, 301Lib, Loehr
- 192 Read Canad History (3 cr; prereq sr)
Ar, Burt
- 209 Seminar—Amer History (3 cr)
VIII-IX Th, 301Lib, Loehr; VII-VIII F,
328Lib, Stephenson; ar, Osgood
- 222 Seminar—Econ History (3 cr)
VI Th, 109Bu, Heaton
- 225 Seminar—Mod Europ History (3 cr)
VIII-IX T, 102Bu, Steefel
- 3, Lab III-IV M, 206MurH, Ford
—4, Lab VI-VII M, 207MurH, Wilson
—5, Lab VI-VII F, 207MurH
—6, Lab VIII-IX W, 207MurH, Hage
- 51 News Editing (3 cr; prereq 15 or B aver in
13-14 or 13 and 18)
Lect V T, 308MurH, Patterson
—1, Lab III-IV TTh, 206MurH, Emery
—2, Lab VI-VII TTh, 207MurH
- 52 News Editing (3 cr; prereq 51, 55)
Lect V T, 105MurH, Kildow
—1, Lab III-IV MW, 206MurH
—2, Lab III-IV ThS, 206MurH, Kildow
—3, Lab VI-VII MW, 206MurH, Emery
—4, Lab VIII-IX TTh, 206MurH, Patterson
—5, Lab VIII-IX WF, 206MurH, Duncan
- 55 Advertising, Newspaper Typography (3 cr;
prereq jour maj, sr col stand, for others
11 or 13 and 41)
—1, Lect VII M, 302MurH, Barnhart
—2, Lect V Th, 105MurH, Wilson
—1, Lab VIII-IX MW, 315-320MurH,
Barnhart
—2, Lab I-II MW, 315-320MurH, Wilson
—3, Lab I-II TTh, 315-320MurH, Wilson
—4, Lab III-IV WF, 315-320MurH, Wilson
—5, Lab VI-VII WF, 315-320MurH, Wil-
son
- 58 Adv Typography (2 cr; prereq 55, cons instr)
III-IV TTh, 315-320MurH, Barnhart
- 59 Typog Workshop (2 cr; prereq 55, 65, cons
instr)
VI-VII TTh, 315-320MurH, Wilson
- 66 Pictor Journalism (3 cr; prereq 10, 15, cons
instr)
Lect VIII M, 311MurH, Kildow
—1, Lab VIII-IX WF, 20MurH, Kildow
—2, Lab I-II TTh, 20MurH, Kildow
- 67 Radio News Writing (3 cr; prereq 15)
Lect VII WF, 302MurH, Charnley
Lab III-IV ar, Jensen, others
- 74 Mag Writing, Editing (3 cr; prereq 73, cons
instr)
VI MWF, 302MurH, Charnley
- 86 Advert Copy Writing (3 cr; prereq 51 or 41,
and 55, 65)
VII MWF, 308MurH, Seehafer
- 87 Radio Advertising (3 cr; prereq 18, 120, cons
instr; or 69, BA88, cons instr)
IV MWF, 308MurH, Seehafer
- 94 Newspaper Advertising (3 cr; prereq 51, 55;
or 41, 55, cons instr)
II TThS, 105MurH, Barnhart

JOURNALISM (JOUR)

- 10 Photography (3 cr; prereq no fresh)
Lect V T, 311 MurH, Liebling
Lab VI-IX M, 20MurH, Liebling
- 11 Introd Reporting (3 cr; prereq see col bulletin)
II TThS, 311MurH, Ford
- 13 Introd Reporting for Majors (3 cr; prereq see
col bulletin)
—1, I-II MWF, 212MurH
—2, III-IV MWF, 212MurH, Jensen
—3, VI-VII MWF, 212MurH, Patterson
- 14 Newspaper Reporting (3 cr; prereq see col
bulletin)
—1, III-IV MWF, 210MurH, Duncan
—2, III-IV TThS, 212MurH, Patterson
—3, VI-VIII TTh, 212MurH, Charnley
- 18 Prin Advertising (3 cr; prereq no fresh, 13
with C aver, comp 27-28 or concur regis)
I TThS, MurAud, Seehafer
- 41 Editing for Nonmajors (3 cr; prereq jr, 11 or
13)
Lect VI MW, 308MurH, Ford
—1, Lab I-II T, 207MurH, Hage
—2, Lab I-II Th, 207MurH, Hage
- 101 Reporting Pub Affairs (3 cr; prereq 51)
—1, III TThS, 308MurH, Hage
—2, III TThS, 105MurH
—3, III TThS, 311MurH
- 109 Hist Journalism (3 cr; prereq 13)
—1, II MWF, 105MurH, Ford
—2, II MWF, 311MurH, Emery
- 112 Compar Foreign Journalism (3 cr; prereq*
111)
II MWF, 308MurH, Casey, staff

- 115 Comm Media Analysis (3 cr; prereq 51, cons instr; or econ 5 or psych 70, cons instr)
VI MWF, 311MurH, Swanson
- 118C Sel Read in Journalism (3 cr; prereq jour maj with B aver, cons instr)
Ar, Casey
- 121 The Newspaper in a Dynamic Society (3 cr; prereq* 15)
IV MWF, 105MurH, Gerald
- 131 Comm Agencies, Pub Opinion (3 cr; prereq 130)
III MWF, 105MurH, Casey
- 141 Interp Contemp Affairs (3 cr; prereq 140)
Lect VI TTh, VII T, 105MurH, Staff
- 205 Topics—Intl News Communication (3 cr; prereq cons dir of school)
IV MWF, 405MurH, Swanson
- 208 Comm Agencies as Soc Institutions (3 cr; prereq cons adv)
Ar, Gerald

LINGUISTICS AND COMPARATIVE PHILOLOGY

Chinese (CHI)

- 2 Begin Chinese (5 cr)
V MTWThF, 208F, Mather

Linguistics and Comparative Philology (LING)

- 122 Introd Arabic (3 cr; prereq 121)
V MWF, 302F, Irving
- 129 Read Sanskrit (3 cr; prereq 128)
VII TTh, 2F, Swanson

Japanese (JAP)

- 2 Begin Japanese (5 cr; prereq 1)
V MTWThF, 4F, Syro-Boyarsky
- 52 Adv Japanese (3 cr; prereq 51)
VIII MWF, 107F, Syro-Boyarsky
- 57 Jap Composition (2 cr; prereq 56)
VIII TTh, 108F, Syro-Boyarsky
- 62 Adv Jap Reading (3 cr; prereq 61)
VII MWF, 209TSF, Syro-Boyarsky

Russian (RUSS)

- 2 Begin Russian (5 cr; prereq 1)
VII MTWThF, 5F, Niemi
- 52 Adv Russian (3 cr; prereq 51)
VI MWF, 108F, Blinoff
- 57 Russ Conversation (3 cr; prereq 56)
VII MWF, 108F, Blinoff
- 62 Russ Composition (2 cr; prereq 61)
VI TTh, 108F, Blinoff
- 72 Read in Russ Literature (3 cr; prereq 71)
VIII MWF, 108F, Niemi
- 102 Russ Literature (3 cr; prereq 8 cr lit)
V MWF, 108F, Niemi

MATHEMATICS (MATH)

- 1 Higher Algebra (5 cr; prereq see col bulletin)
—1, I MTWThF, 101F
—2, V MTWThF, 113F
—3, VI MTWThF, 109F
- 6 Trigonometry (5 cr, §16 except with reduced cr; prereq plane geom and 1)
—1, III MTWThF, 113F
—2, VI MTWThF, 114F
- 7 College Algebra (5 cr, §8, 15 except with reduced cr; prereq* 6)
—1, II MTWThF, 104F
—2, VII MTWThF, 114F
- 8 Commerce Algebra (5 cr, §7; prereq 1)
—1, I MTWThF, 109F
—2, VIII MTWThF, 101F
- 15 Elem Math Analysis (5 cr, §7 except with reduced cr; prereq plane geom and 1)
—1, I MTWThF, 104F
—2, V MTWThF, 105F
- 16 Elem Math Analysis (5 cr, §6 except with reduced cr; prereq 15)
—1, III MTWThF, 104F
—2, V MTWThF, 104F
- 20 Math Investment (5 cr; prereq 7 or 8 or 16)
—1, IV MTWThF, 114F
—2, VII MTWThF, 101F
- 30 Anal Geometry (5 cr; prereq 7 or 6-8, or 16)
—1, II MTWThF, 105F
—2, VI MTWThF, 104F
- 50 Differ Calculus (5 cr; prereq 30)
—1, I MTWThF, 105F
—2, IV MTWThF, 109F
- 51 Integ Calculus (5 cr; prereq 50)
—1, III MTWThF, 105F, Hart
—2, VI MTWThF, 105F
- 62 Introd Theory Equations (3 cr; prereq 50 or concur regis, cons instr)
VII MWF, 104F, Gibbens, Hatfield
- 105 Intermed Calculus (5 cr; prereq 51)
I MTWThF, 102F
- 106 Differ Equations (3 cr; prereq 51)
V MWF, 109F, Loud
- 110 Tutorial Course, Adv Math (3-6 cr; prereq 51)
Ar
- 120 Matrices, Groups (3 cr; prereq 119)
II MWF, 101F, Nering
- 122 Math Theory of Statistics (3 cr; prereq 121)
IV MWF, 105F, Hart
- 140 Project Geometry (3 cr; prereq* 51)
III MWF, 102F, Carlson
- 145 Fourier Series, Orthog Functions (3 cr; prereq 144)
IV TThS, 105F, Cameron
- 201 Valuation Theory (3 cr; prereq* 200)
III TThS, 102F, Kalisch
- 204 Adv Topics—Math Statistics (3 cr; prereq* 203)
VIII MThF, 105F, Bearman
- 207 Theory—Functions (3 cr; prereq 206)
II TThS, 101F, Olmsted

- 239 Fourier Transform (3 cr; prereq 245)
IV MWF, 102F, Gelbaum
- 247 Integration to Function Space (3 cr; prereq 245, cons instr)
II TThS, 109F, Cameron

MUSIC (MUS)

- B Piano (no cr; prereq A)
Ar
- E Voice (no cr; prereq D)
Ar
- 1T Mus Theory (3 cr; prereq see col bulletin)
V MTWThF, 3ScH, Feese
- 2T Mus Theory (3 cr; prereq 1T)
-1, II MTWThF, 3, 103ScH, Feese, Fetler
-2, VII MTWThF, 3, 103ScH, Feese, George
- 4T Mus Theory (4 cr; prereq 3T)
V MTWThF, 103ScH, Malcolm
- 5T Mus Theory (4 cr; prereq 4T)
-1, I MTWThF, 103ScH, Malcolm
-2, III MTWThF, 103ScH, Malcolm
-3, VI MTWThF, 3Sch, George
- 1 Fundamentals, Music (2 cr, for non-music maj)
I MTWTh, 3ScH, Berryman
- 7 Counterpoint (3 cr; prereq no fresh, 3T)
IV MWF, 3ScH, Fetler
- 10 Introd Music (4 cr)
Lect II MWF, ScHAud, Nolte
Lab III TTh or ar
- 11 Piano—Individual Lessons (2-4 cr; prereq entr exam, see col bulletin)
VIII TTh and lesson hrs ar, Ferguson, Hunter, Kendall, Lindsay, Rymer, Stephens
- 11C Piano—Class Lessons (2 cr; prereq cons instr)
-1, II TTh, VIII Th, 208ScH, Kendall
-2, III TTh, VIII Th, 205ScH, Hunter
-3, VII MW, VIII Th, 205ScH, Hunter
- 12 Voice—Individ Lessons (2-4 cr; prereq entr exam, see col bulletin)
VIII Th and lesson hr ar, Hull, Schuessler, Birnbach, Sheridan
- 12C Voice—Class Lessons (2 cr; prereq cons instr)
-1, III TTh, VIII Th, 211ScH, Schuessler
-2, VI TTh, VIII Th, 211ScH, Schuessler
-3, VII MW, VIII Th, 211ScH, Schuessler
- 13 Violin (2-4 cr; prereq entr exam, see col bulletin)
VIII Th and lesson hr ar, Cullen, Scheurer, Druian
- 14 Viola (2-4 cr; prereq entr exam, see col bulletin)
VIII Th and lesson hr ar, Barton
- 15 Cello (2-4 cr; prereq entr exam, see col bulletin)
VIII Th and lesson hr ar, Meltzer
- 16 Double Bass (2-4 cr; prereq entr exam, see col bulletin)
VIII Th and lesson hr ar, Fitch
- 17 Flute (2-4 cr; prereq entr exam, see col bulletin)
VIII Th and lesson hr ar, Arnegard, Niosi, Winkler
- 18 Oboe (2-4 cr; prereq entr exam, see col bulletin)
VIII Th and lesson hr ar, Arnelucci
- 19 Clarinet or Saxophone (2-4 cr; prereq entr exam, see col bulletin)
VIII Th and lesson hr ar, Handlon
- 20 Bassoon (2-4 cr; prereq entr exam, see col bulletin)
VIII Th and lesson hr ar, Santucci
- 21 Trumpet (2-4 cr; prereq entr exam, see col bulletin)
VIII Th and lesson hr ar, MacKay, Greco
- 22 French Horn (2-4 cr; prereq entr exam, see col bulletin)
VIII Th and lesson hr ar, Linder
- 23 Trombone (2-4 cr; prereq entr exam, see col bulletin)
VIII Th and lesson hr ar, MacKay
- 24 Tuba (2-4 cr; prereq entr exam, see col bulletin)
VIII Th and lesson hr ar, MacKay
- 25 Percussion (2-4 cr; prereq entr exam, see col bulletin)
VIII Th and lesson hr ar, Segal
- 26 Harp (2-4 cr; prereq entr exam, see col bulletin)
VIII Th and lesson hr ar
- 27 Organ (2-4 cr; prereq entr exam, see col bulletin)
VIII Th and lesson hr ar, Jennings, Berryman
- 32 Mus Literature (2 cr)
II MWF, ScHAud, Ivory
- 35 Hist Music (2 cr; prereq no fresh)
II MWF, 4ScH, Ferguson
- 38 Keyboard Harmony (1 cr; prereq 37)
II TTh, 2ScH, Jennings
- 41 Orchestra (1 cr; prereq cons dir)
7:30 p.m. T, NMA Aud, Oberg
(Strings) IX Th, 4ScH
- 44 Univ Chorus (1 cr, †43, 44, 45; prereq cons dir)
-1, IV MW, 4NMA and 7:30T, NHAud, Aliferis
-2, VIII MW and 7:30 T, NHAud, Aliferis
- 44U Farm Mus Ensembles (1 cr)
4:30-5:45 TTh, 102Hr, Rymer
- 47 Concert Band (1 cr; prereq cons dir)
-1, IX MTTh, 4NMA, Prescott
-2, IX MWF, 5NMA, Prescott
- 51 Mus 18th Cent (2 cr; prereq 50)
III TTh, 104ScH, Ivory
- 54 Romantic Movement (2 cr; prereq 53)
VII WF, 104ScH, Kendall
- 57 Bach, Beethoven (3 cr; prereq 56)
VI-VII TTh, 104ScH, Ferguson
- 61 Instrum Ensemble (2 cr; prereq 60)
VI MWF, 104ScH, Stephens

- 64 Vocal Ensemble (2 cr; prereq 63)
VIII MWF, 104ScH, Hull
- 67 The Chamber Singers (1 cr; prereq cons instr)
VI MWF, 5NMA, Aliferis
- 71 Normal Piano (2 cr; prereq 70)
I WF, 104ScH, Kendall
- 74 Adv Harmony (2 cr; prereq 73)
III MW, 2ScH, Aliferis
- 78 Composition (2 cr; prereq 77)
IV TTh, 103ScH, Fetler
- 81 Adv Normal Piano (2 cr; prereq 80)
VIII-X W, IX M, 103ScH, Kendall
- 84 Adv Composition (2 cr; prereq sr, 83)
Ar, Ferguson, Fetler
- 87 Orchestration (2 cr; prereq 86)
II WF, 4NMA, Aliferis
- 91 Adv Instrum Ensemble (2 cr; prereq 90)
VI MWF, 104ScH, Stephens
- 94 Improvisation (1 cr; prereq 93)
II TTh, 206ScH, Berryman
- 201 Basis Mus Expression (3 cr; prereq 200)
VIII-IX MF and conf hr ar, 103ScH, Ferguson
- 206 Comp—Larger Forms (3 cr; prereq 205)
Ar, Ferguson
- 210 Adv Topics—Mus Analysis (3 cr; prereq 209)
II MWF, 2ScH, Oberg
- 212 Spec Probs—Music (3-9 cr; prereq 202 or 211)
Ar, Oberg, Ferguson

PHILOSOPHY (PHIL)

- 1 Probs of Philosophy (5 cr; prereq fresh with cons advis)
 - 1, II MTWThF, 322F, Swanson
 - 2, V MTWThF, 322F, Hospers
 - 3, VII MTWThF, 106NH, Conger
- 1A Sel Probs of Philosophy (3 cr; prereq fresh with cons advis)
VI MWF, 213NH, Wiggins
- 2 Logic (5 cr; prereq fresh with cons advis)
 - 1, Lect IV MWF, MNHAud
 - 1, IV TTh, 321F
 - 2, V TTh, 321F
 - 2, Lect VIII MTWThF, 321F, Brodbeck
 - 3, Lect V MTWThF, 305F, Hospers
- 3 Ethics (5 cr; prereq fresh with cons advis)
 - 1, II MTWThF, 321F, Swanson
 - 2, VII MTWThF, 321F, Holmer
- 51 Hist Philosophy (5 cr)
III MTWThF, 133Ph, Shaw
- 82 Science, Civilization (3 cr, any qtr may be taken for cr)
VII MWF, 2F, Brodbeck
- 102 Prin Philosophy (2 cr, §1 or 2; prereq sr)
III MTThF, 206F, Feigl
- 107 Plato (3 cr; prereq 106)
VIII MWF, 305F, Sellars
- 111 Empiricism (3 cr; prereq* 52)
VII MWF, 304F, Shaw

- 113 Kierkegaard, Sean Philosophy (3 cr; prereq* 50 or 51 or 52)
VIII MWF, 322F, Holmer
- 114A Amer Phil since James (3 cr; prereq* 114)
VI MWF, 8F, Brodbeck
- 115A 19th Cent Thought (3 cr; prereq* 52)
IV MWF, 205F, Brodbeck
- 118 Read in Rec Philosophy (3 cr; prereq 117)
Ar, Holmer
- 123 Compar Philosophy (3 cr; prereq* 50 or 51 or 52)
VII MWF, 322F, Conger
- 147 Elem Symb Logic, Semantics (4 cr; prereq* 2)
III MTWF, 5F, Sellars
- 159 Prin of Esthetics (3 cr; prereq* 12 hrs of lit, art, music, or phil)
IV MWF, 321F, Hospers
- 165 Pol, Soc Ethics (3 cr; prereq* 50 or 51 or 52)
IV MWF, 303F, Wiggins
- 181 Psych of Religions (3 cr; prereq 6 cr)
VI MWF, 322F, Conger
- 192 Seminar—Philosophy (3 cr; prereq* 9 cr)
Ar, Conger, Feigl, Sellars, others
- 224 Seminar—Phil of Language (3 cr; prereq* 143 or 147)
Ar, Sellars
- 231 Adv Hist Philosophy (3 cr; prereq see col bulletin)
1:30-3:30 TTh, 305F, Hospers
- 245 Seminar—Phil of Biology, Psychology (3 cr; prereq cons instr)
VIII-IX T, 301F, Feigl, Meehl
- 248 Seminar—Logic of Exact Sciences (3 cr; prereq cons instr)
Ar, Feigl, Graves

PHYSICS (PHYS)

- 2 Introd Phys Science (3 cr, †1-2; prereq 1)
III MWF, 150Ph, Kruglak
- 2a Introd Phys Science with Lab (4 cr, †1a-2a; prereq 1a)
Lect III MWF, 150Ph, Kruglak
Lab secs will be assigned during first 2 days of class
- 5 Gen Physics (5 cr; prereq 4)
Lect I MTWThF, 166Ph, Nafe
Lab secs will be assigned during first 2 days of class
- 7 Gen Physics (5 cr; prereq regis in differ calculus)
Lect and Quiz VII MTWThF, 166Ph, Wall, assts
Lab secs will be assigned during first 2 days of class
- 8 Gen Physics (5 cr; prereq 7)
 - 1, Lect II MTWThF, 133Ph, Williams
 - 2, Lect II MTWThF, 150Ph, Ney
 - 3, Lect VI MTWThF, 150Ph, Freier
 Lab secs will be assigned during first 2 days of class

- 9 Gen Physics (5 cr; prereq 8)
—1, Lect and Quiz VII MTWThF, 150Ph
—2, Lect and Quiz IX MTWThF, 150Ph
Lab secs will be assigned during first 2 days of class
- 73 Intermed Thermodynamics (3 cr; prereq 15 cr, math 51)
II MWF, 145Ph, Nier
- 103 Theoret Physics (5 cr; prereq 101)
I MTWThF, 133Ph, Nier
- 109 Mod Physics (3 cr; prereq 107)
VI MWF, 133Ph, Nafe
- 110 Mod Exper Physics (3 cr; prereq 144)
VI-IX TTh, 49Ph, Schmitt
- 114 Elem Phys Investigation (3 cr; prereq 15 cr, math 51, cons dept chair)
Ar
- 116 Elem Phys Investigation (3 cr; prereq 114, cons dept chr)
Ar
- 118 Elem Phys Investigation (3 cr; prereq 116, cons dept chr)
Ar
- 133 Phys Optics (3 cr; prereq 15 cr, math 51)
II TThS, 241Ph, Valasek
- 134 Exper Optics (3 cr; prereq 15 cr)
Lect VII T, 348Ph, Valasek
Lab VIII-IX T, 348Ph
- 136 Spectrum Analysis (3 cr; prereq 15 cr)
VII-IX TTh, 348Ph, Valasek
- 183 Atomistics, Elem Quantum Mechanics (3 cr; prereq* 181)
IV MWF, 145Ph, Tate
- 192 Introd Math Physics (3 cr; prereq 191)
III MWF, 145Ph, Hill
- POLITICAL SCIENCE (POL)**
- B State in Mod World (3 cr, †A-B; prereq A)
—1, III MWF, MNHAud, Lippincott
—2, III TThS, 216NH, Potter
- 1 Amer Govt, Politics (3 cr, †1-2, §5)
II MWF, 4ME, Demetriou
- 2 Amer Govt, Politics (3 cr, †1-2, §5; prereq 1)
—1, IV MWF, NHAud, Christensen
—2, I TThS, 213NH, Warp
- 5 Amer Govt, Politics (5 cr, §1-2)
VI MTWThF, 211NH, deGrazia
- 52 Field Work in Govt, Politics (3 cr, †51-52; prereq 51, res Minn)
IV-V T and ar hr, 102NH, Naftalin
- 92 Honors Work in Sel Fields (ar cr; prereq 18 cr)
Ar
- 102 Prin Amer Constitution II (3 cr; prereq 101)
II TThS, 216NH, Anderson
- 108 Legis Organization Procecd (3 cr; prereq 6 cr)
IV MWF, 216NH, Short
- 117 Local Govt (3 cr, †116-117; prereq* 116)
I MWF, 216NH, Brazier
- 121 Munic Admin (3 cr; prereq* 120)
II TThS, 213NH, Ludwig
- 125 Rec Soc Legislation (3 cr; prereq 124)
VII MWF, 213NH, Christensen
- 126 Govt, Econ Order (3 cr; prereq 9 cr)
IV TThS, 207NH, Warp
- 129 Soc Leg, Soc Institutions in Scan Countries (3 cr; prereq* soc 1)
VI MWF, 209TSE, Skodvin
- 132 Public Admin (3 cr; prereq* 131)
II MWF, 213NH, Short
- 142 Europ Governments (3 cr, †141-142; prereq 141)
IV MWF, 213NH, McClosky
- 154 Chinese Govt, Politics (3 cr; prereq* 6 cr)
II MWF, 216NH, Quigley
- 161 Probs of Democracy (3 cr; prereq 6 cr or 12 cr soc sci)
III TThS, 211NH, Sibley
- 165 Pol Thought—Middle Ages (3 cr; prereq* 6 cr or 12 cr soc sci)
IV TThS, 216NH, Sibley
- 168 Pol Behavior (3 cr; prereq 167)
III MWF, 216NH, deGrazia
- 171 Scan Foreign Policy (3 cr; prereq* 6 cr hist or pol sci)
VII MWF, 10P, Skodvin
- 176 Conduct of Amer Foreign Relations (3 cr, †175-176; prereq 175)
III TThS, 207NH, McLaughlin
- 181 Intl Law (3 cr, †180-181; prereq* 180)
I TThS, 207NH, McLaughlin
- 185 Intl Organization II (3 cr; prereq* 6 cr)
I MWF, 213NH, Levi
- 196 Colonial Govt Probs of Imperialism (3 cr; prereq* 195)
III MWF, 106NH, Mills
- 204 Seminar—Public Law (3 cr, †204-205; prereq* 18 cr)
1:00-2:20 TTh, 107NH, Warp
- 211 Seminar—Public Admin (3 cr, †210-211-212; prereq cons staff)
3:30-5:20 TTh, 13Lib, Ludwig, Short, Warp
- 214 Seminar—Pol Parties (3 cr; prereq* 12 cr)
11:00-12:20 TTh, 100NH, Christensen
- 220 Seminar—Pol Power in Mod World (3 cr; prereq* 12 cr)
VII-VIII M, 101NH, McClosky
- 226 Read in Classics of Politics (3 cr; prereq* 12 cr incl 6 cr pol theory)
VIII-IX TTh, 109TSE, Lippincott
- 236 Seminar—Federalism, Intl Relations (3 cr; prereq* 12 cr)
11:00-12:20 TTh, 214NH, Anderson
- 239 Topics—Intl Law, Diplomacy II (3 cr; prereq* sr with cons instr, 181)
Ar, McLaughlin
- 243 Topics—Colonization, Imperialism (3 cr; prereq* 196)
Ar, Mills
- 246 Seminar—Far East Govt, Politics (3 cr; prereq 153-154)
VII-VIII W, 212NH, Quigley

- 249 Seminar—Intl Organization (3 cr; prereq cons instr)
Ar, Levi

PSYCHOLOGY (PSY)

- A Elem Psychology (5 cr; prereq see col bulletin)
V MTWThF, NHAud, Longstaff, MacCorquodale
- 1 Gen Psychology (3 cr, †1-2; prereq no fresh)
—1, II MWF, BuAud, MacCorquodale
—2, VIII MWF, BuAud, Heron
- 2, Gen Psychology (3 cr, †1-2; prereq 1)
—1, III MWF, BuAud, Elliott, others
—2, V MWF, BuAud
- 4 Psych Lab (2 cr, †4-5; prereq no fresh, 1 or concur regis)
I-II MW, 211Psy
- 5 Psych Lab (2 cr, †4-5; prereq 4)
—1, I-II TTh, 211Psy, Tinker, others
—2, V-VI TTh, 211Psy
—3, VII-VIII TTh, 211Psy
—4, V-VI MW, 211Psy
—5, VII-VIII MW, 211Psy
—6, III-IV MW, 211Psy
—7, IX-X TTh, 211Psy
—8, IX-X MW, 211Psy
- 56 Psych of Advertising (3 cr; prereq 2, econ 7)
VII MWF, NHAud, Longstaff
- 91 Read in Psychology (ar cr; prereq 2, 3 addtl cr, cons intr)
Ar, Elliott, Bird, Paterson, Tinker, Heron, Longstaff, Clark, Meehl, MacCorquodale, Gough
- 102 Exper Psychology (3 cr, †101-102; prereq 101)
VII MWF, VIII WF, 115Psy, Tinker
- 114 Human Behavior (3 cr; prereq sr, 2; 5 or zool 3 or phil 1)
II TThS, 2P, Elliott
- 126 Psych of Individ Differences (3 cr; prereq 125)
—1, II MWF, 115Psy, Paterson
—2, II MWF, 306F
- 127 Projects—Individ Differences (3 cr; prereq sr; 126)
Ar, Paterson, Longstaff
- 129 Psych of Learning (3 cr; prereq 128)
II MWF, 100NH, Heron
- 130 Vocat, Occupat Psychology (3 cr; prereq 9 cr)
Lect IV T, IX F, 211Psy, Paterson
—1, Lab V-VI F, 211Psy
—2, Lab VII-VIII F, 211Psy
- 136 Occupat Counseling (2 cr; prereq* sr, 9 cr)
VIII-IX M, 115Psy, Stone
- 140 Soc Psychology (3 cr; prereq 2, 5, 9 cr soc sci)
II TThS, 201WeH, Bird
- 145 Abnor Psychology (3 cr, †144-145; prereq 144)
—1, IV TThS, MurAud, Bird
—2, IV TThS, 133Ph, Rosen

- 148 Physiol Psychology (3 cr; prereq* 2, 5 or zool 3)
IV MWF, 115Psy, Hathaway
- 152 Individ Investigation in An Psychology (3 cr; prereq 151)
Ar, Heron
- 160 Psych in Personnel Work (3 cr; prereq* 2, 5, or 3 cr stat, econ 7)
—1, III MWF, 115Psy, Longstaff
—2, III MWF, 153TSF
- 167 Techniques—Pub Opinion Analysis (3 cr; prereq for sr, 140 or 147; for grad, course in statistics)
VIII MWF, 216NH, Clark
- 172 Clin Psychology (3 cr, †171-172; prereq 171)
VI MWF, 115Psy, Meehl

ROMANCE LANGUAGES

French (FREN)

- 1 Begin French (5 cr)
—1, III MTWThF, 226F
—2, VII MTWThF, 226F
- 2 Begin French (5 cr; prereq 1)
—1, I MTWThF, 201F
—2, IV MTWThF, 305F
—3, VI MTWThF, 226F
- 2a Begin French—Convers Sec (5 cr; prereq 1a)
Demonstration III MTWThF, 227F
—1, VI MTWThF, 307F
—2, VII MTWThF, 4F
- 3 Intermed French (5 cr; prereq 2)
III MTWThF, 202F
- 4 Intermed French (5 cr; prereq 3, 3a)
—1, III MTWThF, 304F
—2, VII MTWThF, 107F
- 50 Fren Pronunciation (3 cr; prereq 4)
II TThS, 203F, Guinotte
- 54 Fren Conversation (3 cr; prereq 53 or 20)
VI MWF, 201F, Fermaud
- 64 Adv Fren Composition (3 cr; prereq 63)
III MWF, 2F, Guinotte
- 71 Survey of Fren Literature (3 cr; prereq 70)
IV MWF, 201F, Clepton
- 73 Survey of Fren Literature (5 cr; prereq 4)
III MTWThF, 307F, Brackney
- 76 Fren Civilization, Culture (3 cr; prereq 75)
III MWF, 6F, Fermaud
- 104 Fren Syntax, Composition (3 cr; prereq 103)
VI F, 203F, Barton
- 116 17th Cent Literature (3 cr; prereq 115)
IV MWF, 4F, Fermaud
- 119 18th Cent Literature (3 cr; prereq 118)
IV TTh, V Th, 201F, Sirich
- 146 Contemp Dramat Literature (3 cr; prereq 72 or 74)
II MWF, 201F, Barton
- 158 Contemp Fren Novel I (3 cr; prereq 72 or 74)
VII MWF, 202F, Fermaud
- 182 Movement Ideas in Fren Literature (2 cr; prereq 72 or 74, cons instr)
IX-X W, 203F, Desgranges

- 202 Old Fren Phonology, Morphology (2 cr)
Ar, Brackney
- 205 Read in Old Fren Literature (2 cr)
Ar, Brackney
- 208 Old Provencal (2 cr)
Ar, Brackney

Italian (ITAL)

- 2 Begin Italian (4 cr; prereq 1)
IV MTWF, 302F, Nissen
- 5 Read Italian (5 cr, \$1; prereq knowl of fren,
lat, or span)
III MTWThF, 302F, Nissen
- 71 Mod Poetry (3 cr; prereq 3, or 2 with cons
instr)
II MWF, 302F, Nissen

Portuguese (PORT)

- 2 Begin Portuguese (5 cr; prereq 1)
VII MTWThF, 302F, Luckey
- 70 Braz Literature, Culture in English (3 cr;
prereq 9 cr any lit)
VI MWF, 302F, Luckey

Spanish (SPAN)

- 1 Begin Spanish (5 cr)
—1, III MTWThF, 201F
—2, VII MTWThF, 201F
- 2 Begin Spanish (5 cr; prereq 1)
—1, I MTWThF, 226F
—2, IV MTWThF, 227F
—3, VI MTWThF, 202F
- 2a Begin Spanish—Conver Sec (5 cr; prereq 1a)
Demonstration II MTWThF, 8F
—1, Lab VI MTWThF, 4F
—2, Lab VII MTWThF, 10F
- 3 Intermed Spanish (5 cr; prereq 2)
—1, II MTWThF, 202F
—2, VII MTWThF, 8F
- 4 Intermed Spanish (5 cr; prereq 3 or 3a)
—1, II MTWThF, 102F
—2, IV MTWThF, 202F
—3, VI MTWThF, 204F
- 20 Oral, Writ Spanish (5 cr; prereq 4)
VII MTWThF, 227F
- 52 Span Pronunciation, Diction (1-2 cr; prereq*
4, cand span play)
Ar, Cuneo
- 54 Span Conversation (3 cr; prereq 53 or 20)
—1, II MWF, 3F
—2, III MWF, 4F, Mills
- 57 Commer Spanish (5 cr; prereq 53 or 20)
VII MTWThF, 3F, Cuneo
- 61 Adv Span Conversation (3 cr; prereq 60)
II MWF, 10F, LeFort
- 66 Lit of Spain (3 cr; prereq 65)
VI MWF, 205F, Pattison
- 68 Lit of Spain (5 cr; prereq 4)
VI MTWThF, 208F, Grismer

- 71 Lat Amer Civilization, Culture (3 cr; prereq*
70)
—1, IV MWF, 226F, LeFort
—2, VI MWF, 227F, Cuneo
- 75 Lit of Lat America (3 cr; prereq 74)
II MWF, 208F, Irving
- 104 Span Syntax, Composition (1 cr; prereq 103)
IV T, 307F, Pattison
- 116 17th Cent Literature (3 cr; prereq 115)
VII MWF, 307F, Grismer
- 141 Contemp Lat Amer Literature (3 cr; prereq
140)
VIII MWF, 302F, LeFort
- 175 Contemp Span Literature (3 cr; prereq 174)
IV MWF, 307F, Pattison
- 245 Read—Old Span Literature (2 cr)
IX-X Th, 203F, Irving
- 251 Span Seminar (2 cr)
VIII-IX W, Irving
- 254 Seminar—Lat Amer Literature (2 cr)
Ar

SCANDINAVIAN (SCAN)

- 2 Begin Norwegian (5 cr; prereq 1)
VI MTWThF, 12F, Clausen
- 5 Adv Norwegian (3 cr; prereq 4)
VII MWF, 12F
- 8 Begin Swedish (5 cr; prereq 7)
II MTWThF, 12F, Lorenzen
- 11 Adv Swedish (3 cr; prereq 10)
III MWF, 109Psy, Lorenzen
- 22 Scan Life Today, Yesterday (3 cr; prereq 11)
V MWF, 12F, Gustafson
- 162 Scan Novel II (3 cr; prereq 6 or 12 or 8 cr
lit)
III MWF, 12F, Gustafson
- 172 Strindberg—Drama in Revolt, Transition (3
cr; prereq 6 or 12 or 8 cr lit)
IV MWF, 12F, Gustafson
- 192 Read in Scan Literature (3 cr; prereq 6 or
12)
Ar, Gustafson
- 216 Studies in Scan Romanticism (3 cr)
Ar, Gustafson
- 222 Dram Interp Probs in Strindberg (3 cr)
Ar

SOCIOLOGY AND SOCIAL WORK

Sociology (SOC)

- 1 Introd Sociology (5 cr)
Lect II TThS, NHAud, Monachesi, others
—1, I WF, 100NH
—2, II MW, 143Ph
—3, IV MW, 102NH
—4, VI MW, 102NH
—5, VII MW, 102NH
—6, III TTh, 153TSF
- 1 Introd Sociology (3 cr, for H E students)
III TThS, 102Hr, Cleveland

- 2 Intermed Sociology (5 cr; prereq 1)
Lect I TThS, 211NH, Caplow
—1, I WF, 103NH
—2, II TTh, 103NH
—3, IV MW, 103NH
—4, IV TTh, 218P
- 7 Urban Sociology (3 cr; prereq 1)
VI MWF, 106NH, Caplow
- 14 Rural Sociology (3 cr; prereq 1)
IV TThS, 213NH, Deininger
- 45 Soc Statistics (5 cr, §econ 5; prereq 1)
Lect IV MWF, 106NH, Ball
—1, VI-VII MW, 122NH
—2, VI-VII TTh, 122NH
- 49 Social Probs (3 cr; prereq 1)
II MWF, 211NH, Martindale
- 50 Areas of Soc Work (3-4 cr; prereq 49 for seq D students)
II TThS and 3 hrs observ, 209NH, Winslow
- 51 Areas of Soc Work (3-4 cr; prereq 50)
III TThS and 3 hrs observ, 106NH, Winslow
- 53 Elem Criminology (3 cr; prereq 1)
III MWF, 4ME, Vold
- 98 Tutorial—Sel Fields (3 cr; prereq cons maj advis)
Ar
- 104 Police Probs, Practices in US (3 cr; prereq* 1, 53, 15 cr soc sci, CW, educ, phil, or psych)
VII MWF, 107NH, Vold
- 111 Pop Trends (3 cr; prereq* 1, 15 cr soc sci, CW, educ, phil, or psych)
VII MWF, 111NH, Marshall
- 115 Soc Aspects of Housing, Stand of Living (3 cr; prereq sr, 1, 15 cr soc sci, CW, educ, phil, or psych)
II TThS, 101NH, Caplow
- 120 Soc Psychology (3 cr; prereq* 1, 15 cr soc sci, CW, educ, phil, or psych)
II TThS, 207NH, Rose
- 122 Soc of Conflict (3 cr; prereq* 1, 15 cr soc sci, CW, educ, phil, or psych)
II MWF, 106NH, Vold
- 140 Soc Organization (3 cr; prereq* 1, 15 cr soc sci, CW, educ, phil, or psych)
II TThS, 106NH, Chapin
- 141 The Family (3 cr; prereq* 1, 15 cr soc sci, CW, educ, phil, or psych)
IV TThS, 106NH, Quackenbush
- 144 Soc Stratification (3 cr; prereq* 140, 15 cr soc sci, CW, educ, phil, or psych)
II TThS, 100NH, Gross
- 162 Rural Soc Institutions (3 cr; prereq* 1, 15 cr soc sci, CW, educ, phil, or psych)
I MWF, 211NH, Nelson
- 171 Theories of Soc Order (3 cr; prereq* 1, 15 cr soc sci, CW, educ, phil, or psych)
IV MWF, 100NH, Martindale
- 183 Probs in Soc Measurement (3 cr; prereq 45 or 182)
III TThS, 218P, Gross
- 185 Field Work, Soc Research (2 cr; prereq 184)
Ar, Gross

- 200 Seminar—Probs in Criminology
VII-IX Th, Vold
- 202 Seminar—Urban Sociology
VIII-IX W, 103NH, Caplow
- 204 Seminar—Soc Theory
VI-VII W, 103NH, Martindale
- 207 Seminar—Stat Theory, Relation to Soc Theory, Practice
VIII-IX F, 122NH, Chapin
- 210 Seminar—Pop Research
Ar, Marshall
- 216 Seminar—Rural Life in Sel Europ Countries (ar cr)
Ar, Nelson
- 218 Methodological Prob in Soc Research (ar cr)
VI-VII Th, 101NH, Gross
- 219 Probs of Mod Mass Society (ar cr)
2:30-4:30 T, 120NH, Rose
- 239 Prin—Sociology (ar cr, †238-239; prereq 238)
3:00-5:30 M, 104bNH, Monachesi

Social Work (SW)

- 201 Hist, Theory of Soc Work (3 cr)
III TThS, 102NH, Doyle
- 206 Spec Topics in Soc Work (ar cr)
Ar, Staff
- 209 Seminar—Soc Agencies, Institutions (ar cr)
Ar, Doyle
- 211 Initial Field Training (ar cr; prereq 220 or 282A or concur regis)
Ar MWF, Staff
- 215 Adv Field Training (ar cr; prereq 221 or 282B)
Ar, Staff
- 216 Adv Field Training (ar cr; prereq 221 or 282B)
Ar
- 217 Adv Field Training (ar cr; prereq 221 or 282B)
Ar
- 219 Seminar—Field Training Supervisors (ar cr; prereq super of students in field work)
VI-VII T, 100NH, Staff
- 221 Case Work II (3 cr; prereq 220, 236, concur regis in 211)
—1, III TThS, 103NH, Whitmore
—2, IV TThS, 103NH, Whitmore
- 222 Adv Family Case Work (3 cr; prereq 221 or 282B)
III TThS, 101NH, Dyer
- 225 Seminar—Family Case Work (ar cr; prereq* 221 or 282B)
IX-X T, 101NH, Dyer
- 226 Seminar—Case Work in Health Probs (ar cr; prereq* 221 or 282B)
IX-X Th, 103NH, Mueller
- 227 Seminar—Case Work in Psychiatric Setting (ar cr; prereq 221 or 282B, concur regis in 215-216-217)
VII-VIII Th, 103NH, Shea
- 252 Adv Med Soc Work (3 cr; prereq 251)
III TThS, 100NH, Mueller

- 259 Seminar—Med Soc Work (ar cr; prereq 221, concur regis in 251-252-253)
VI-VII Th, 100NH, Mueller
- 260 Child, the State (3 cr)
IV TThS, 101NH, Guilford
- 266 Seminar—Child Welfare (ar cr)
IX-X Th, 101NH, Guilford
- 268 Pub Welfare II (3 cr; prereq 267)
I TThS, 107NH, Guilford
- 269 Seminar—Pub Welfare Admin (ar cr; prereq 268)
IX-X F, 103NH, Kidneigh
- 275 Soc Work Administration (3 cr; prereq 200)
II TThS, 107NH, Kidneigh
- 282B Prin of Group Work II (2 cr; prereq 211 plus 282A, 236 or concur regis)
III-IV T, 109TSF, Konopka
- 283 Use of Program—Groups I (2 cr; prereq 282A)
III-IV Th, 109TSF, Konopka
- 287 Superv, Admin in Group Work I (2 cr; prereq 285)
VI-VII T, 109TSF, Konopka
- 289 Seminar—Group Work (ar cr)
VI-VII Th, 109TSF, Konopka
- 293 Spec Studies in Soc Work (ar cr)
Ar
- 300 Gen Seminar (ar cr)
Ar, Staff

SPEECH (SPCH)

- 1 Fund of Speech (3 cr, †1-2; prereq* no fresh)
—1, II MWF, 311F
—2, III MWF, 109TSF
—3, IV MWF, 311F
—4, VII MWF, 15TNM
—5, VIII MWF, 204F
—6, II TThS, 306F
- 2 Fund of Speech (3 cr, †1-2; prereq 1)
—1, I MWF, 311F
—2, II MWF, 205F
—3, III MWF, 103NH
—4, IV MWF, 10F
—5, VI MWF, 101NH
—6, VII MWF, 311F
—7, VIII MWF, 311½F
—8, I TThS, 311F
—9, II TThS, 311F
—10, III TThS, 311F
- 3 Fund of Speech (3 cr; prereq 2, no fresh)
III MWF, 311F
- 5 Fund of Speech (5 cr; prereq* no fresh)
—1, IV MTWThF, 8TNM
—2, VI MTWThF, 311F
—3, VII MTWThF, 311½F
—4, II MTWThF, 311½F
- 6 Fund of Speech (5 cr; prereq 5)
—1, I MTWThF, 311½F
—2, III MTWThF, 311½F
—3, IV MTWThF, 311½F
—4, VI MTWThF, 311½F
- 32 Begin Acting (3 cr; prereq 31, no fresh)
—1, II MWF, 19ScH, Whiting
—2, II TThS, 3rd Floor NH
—3, III MWF, 3rd Floor NH
- 33 Begin Acting (3 cr; prereq 32)
II TThS, 19ScH, Moulton
- 56 Spch Writing, Plat Speaking (3 cr)
—1, III MWF, 305F, Gilkinson
—2, VII MWF, 308F, Gilkinson
- 65 Radio Speech (3 cr; prereq 3 or 6)
II MWF, 302MurH, Ziebarth
- 66 Radio Drama (3 cr; prereq 3 or 6)
IV MWF, 302MurH
- 67 Phonetics (3 cr; prereq 3 or 6)
I MWF, 306F, Irwin
- 72 Play Production (3 cr, §34, 92, 112; prereq 71)
IV MWF, 3rd Floor NH, Graham
- 78 Adv Acting (3 cr; prereq 33)
II TThS, 3rd Floor NH, Graham
- 79 Adv Acting (3 cr; prereq 78)
II MWF, 3rd Floor NH, Graham
- 81 Interp Reading (3 cr; prereq 3 or 6)
I TThS, 306F, Thompson
- 82 Interp Reading (3 cr; prereq 81)
—1, IV MWF, 308F, Thompson
—2, VI MWF, 308F, Thompson
- 91 Stage Design (3 cr, §71; prereq 31)
III TThS and IV TS, 3rd Floor NH
- 97 Intercolleg Oratory, Debate (1-3 cr; by petition)
Ar, Howell
- 102 Argumentation, Persuasion (3 cr; prereq 101)
—1, III MWF, 306F, Howell
—2, VI MWF, 306F, Howell
- 106 Discussion (3 cr; prereq 3 or 6)
VII MWF, 305F, Howell
- 112 Stage Direction (3 cr; prereq sr, 111)
III MWF, 19ScH, Whiting
- 116 Playwriting, Production (3 cr; prereq 115)
II MWF, ScH Seminar, Thompson
- 124 Exper—Gen Speech (3 cr; prereq sr, 3 or 6, psych 2)
II TThS, 308F, Gilkinson
- 132 Child Theater (3 cr; prereq* 113)
VI MWF, 3rd Floor NH, Graham
- 142 Phys Bases of Speech (3 cr; prereq 3 or 6, 67, psych 2, 5)
VII MWF, 306F, Irwin
- 153 Probs of Hearing (3 cr; prereq 152)
IV MWF, 306F
- 162 Spch Pathology (3 cr, †162-163; prereq 3 or 6, 61, 67, 85)
VI T and VI-VII Th, 306F, Bryngelson
- 165 Clin Methods in Spch Pathology (3 cr; prereq sr, 164)
VIII WF, 306F, Bryngelson
- 169 Spch, Lang in Human Behavior (3 cr; prereq cons instr)
VIII MWF, 311F, Henrikson
- 175 Theater Backgrounds (3 cr; prereq sr, 174)
VII M and VII-VIII W, ScH Seminar, Whiting

- 182 Read in Speech (ar cr; prereq 181)
Ar, Bryngelson, Gilkinson, Howell, Irwin,
Thompson, Whiting, Ziebarth
- 201 Gen Seminar
Ar, Staff
- 208 Seminar—Rhetoric, Persuasion
Ar, Howell
- 212 Seminar—Drama Theory
Ar, Thompson
- 222 Seminar—Oral Interp of Literature
Ar
- 232 Seminar—Adv Spch Probs
Ar, Gilkinson
- 242 Seminar—Radio Research
Ar, Ziebarth
- 262 Seminar—Spch Pathology
Ar, Henrikson
- 292 Research—Spec Probs
Ar, Bryngelson, Gilkinson, Howell, Irwin,
Thompson, Whiting, Ziebarth

ZOOLOGY (ZOO)

- 2 Gen Zoology (3 cr, †1-2-3; prereq 1)
—1, Lect II TTh, 06Bo, Minnich
—2, Lect IV WF, 06Bo, Wodsedalek
—3, Lect VII TTh, 06Bo, Olson
—1, Lab I-II MF, 101, 107Z
—2, Lab III-IV MF, 101, 107Z
—3, Lab V-VI MF, 101, 107Z
—4, Lab VII-VIII MF, 101, 107Z
—5, Lab III-IV TTh, 101, 107Z
- 15 Gen Zoology (3 cr, †14-15; prereq 14)
—1, Lect V TTh, 06Bo, Dawson
—2, Lect VIII TTh, 06Bo, Dawson
—1, Lab VI-VII TTh, 101, 107Z
—2, Lab IX-X TTh, 101, 107Z
- 22 Compar Anatomy (5 cr; prereq 3, no fresh)
Lect III TThS, 313Z, Eddy
—1, Lab VI-VIII TTh, Sub3Z
—2, Lab VI-VIII MW, Sub3Z
—3, Lab III-IV MWF, Sub3Z
- 52 Introd Entomology (5 cr; prereq 3)
Lect VIII MWF, 313Z, Mickel
—1, Lab VI-VII MWF, 401Z
—2, Lab IX-X MWF, 401Z
- 57 Introd Ornithology (3 cr; prereq 3 or 15)
VII-IX TTh, 307MNH, Warner
- 59 Compar Embryology (5 cr; prereq 21)
Lect I TThS, 313Z, Spratt
Lab II-III TThS, 201Z, Spratt
- 82 Organic Evolution (3 cr; prereq 3 or bot 3)
II MWF, 313Z, Dawson
- 101 Zool Techniques (ar cr; prereq grad)
Ar
- 109 Sense Organs (3 cr; prereq 15 cr, cons instr)
IV MWF, 211Z, Minnich
- 113 Adv Gen Physiology (3 cr; prereq 15 cr, cons instr)
Lect VI MF, 211Z, Steinbach
Lab VI-IX W, 18Z
- 118 Animal Ecology (3 cr; prereq 15 cr zool or ent, cons instr)
Lect VI TTh, 307Cof, Hodson
Lab VII-VIII TTh, 307Cof
- 126 Adv Entomology (3 cr; prereq 125)
Lect I TTh, 211Z, Mickel
Lab I-III S, 401Z
- 129 Insect Physiology (4 cr; prereq 128)
Lect VI WF, 8Cof, Richards
Lab VII-IX WF, 8Cof
- 145 Parasit Protozoa (3 cr; prereq 15 cr, cons instr)
VII-IX TTh, 208Z, Wallace
- 161 Cytology (3 cr; prereq 160)
Lect and lab VI-VIII TTh, 204Z, Wodsedalek
- 171 Genetics of Speciation (3 cr; prereq* 15 cr incl 83)
VII MWF, 211Z, Reed, Merrell
- 198 Problems (ar cr; prereq 197)
Ar
- 202 Research—Entomology (ar cr)
Ar
- 212 Research—Ecology (ar cr)
Ar
- 218 Research—Physiology (ar cr)
Ar
- 222 Research—Biophysics (ar cr)
Ar
- 230 Research—Histology (ar cr)
Ar
- 234 Research—Embryology (ar cr)
Ar
- 238 Research—Cytology (ar cr)
Ar
- 242 Research—Protozoology (ar cr)
Ar
- 252 Research—Genetics (ar cr)
Ar
- 262 Research—Parasitology (ar cr)
Ar
- 292 Gen Seminar (ar cr)
Ar
- 297 Seminar—Spec Research Fields (ar cr)
Ar

BUILDING ABBREVIATIONS

| | |
|--------------------------------------|---|
| A, Armory | Psy, Psychology |
| Ag, Agronomy (St. P.) | Pt, Pattee Hall |
| AgrBot, Agricultural Botany (St. P.) | ScH, Scott Hall |
| AE, Aeronautical Engineering | ShH, Shevlin Hall |
| AH, Appleby Hall | SnH, Snyder Hall (St. P.) |
| Bo, Botany | So, Soils (St. P.) |
| Bu, Burton Hall | St, Stock Pavilion (St. P.) |
| C, Chemistry Building | TCH, Temporary, Court of Hospital |
| Cof, Coffey Hall (St. P.) | TEH, Temporary, East of Haecker Hall, (St. P.) |
| CH, Cooke Hall | TNCE, Temporary, North Court of En- gineering |
| E, Main Engineering | TNM, Temporary, North of Mines (AH) |
| EE, Electrical Engineering | TNUH, Temporary, North of University High School |
| En, Engineering Bldg. (St. P.) | TSA, Temporary, South of Administra- tion (St. P.) |
| Ex, Experimental Engineering | TSCE, Temporary, South Court of Engi- neering |
| F, Folwell Hall | TSE, Temporary, South of Engineering |
| GH, Green Hall (St. P.) | TSF, Temporary, South of Folwell |
| HE, Home Economics (St. P.) | TSH, Temporary, South of Haecker Hall (St. P.) |
| HH, Haecker Hall (St. P.) | TSMa, First Temporary, South of Mines (AH) |
| Hr, Horticulture (St. P.) | TSMb, Second Temporary, South of Mines (AH) |
| IA, Institute of Anatomy | TSMc, Third Temporary, South of Mines (AH) |
| J, Jones Hall | TSP, Temporary, South of Powell Hall |
| L, Law Building | UHS, University High School |
| Lib, Library Building | Ve, Veterinary (St. P.) |
| ME, Mechanical Engineering | VH, Vincent Hall |
| MeH, Meredith Hall (St. P.) | WeH, Wesbrook Hall |
| MeS, Medical Sciences | WuH, Wulling Hall |
| MH, Millard Hall | Z, Zoology Building |
| MNH, Museum of Natural History | |
| MSh, Meat Shop (St. P.) | |
| MurH, William J. Murphy Hall | |
| NGW, Norris Gymnasium for Women | |
| NH, Nicholson Hall | |
| NMA, Northrop Memorial Auditorium | |
| P, Pillsbury Hall | |
| Ph, Physics | |
| PoH, Louise M. Powell Hall | |
| PP, Plant Pathology (St. P.) | |

 DIRECTORY OF DEPARTMENTAL OFFICES

| | | |
|------------------------------------|--------------------------------|--------|
| Admissions and Records, Office of: | Agricultural Engineering | 201En |
| Minneapolis Campus | Agricultural Journalism | 107Cof |
| St. Paul Campus | Agronomy, Plant Genetics | 308Ag |
| Agricultural Biochemistry | Air Science and Tactics | 5A |
| Agricultural Economics | American Studies | 227F |
| Agricultural Education | Anatomy | 201 IA |

| | | | |
|-------------------------------------|---------|------------------------------------|---------|
| Animal Husbandry | 8LsPav | Journalism | 111MurH |
| Anthropology | 112TSMc | Library Instruction | 7Lib |
| Art | 108J | Linguistics and Philology | 317F |
| Art Education | 105J | Mathematics | 119F |
| Astronomy | 359Ph | Methods, Directed Teaching | 204Bu |
| Bacteriology | 228MH | Military Science and Tactics | 106A |
| Botany | 8Bo | Music | 107ScH |
| Business Administration | 127VH | Music Education | 107ScH |
| Chemistry | 127C | Naval Science and Tactics | 203A |
| Child Welfare | 101Pt | Nursery School | 100CWI |
| Classics | 118F | Nursing | 125MeS |
| Curriculum and Instruction | 204Bu | Nursing Education | 125MeS |
| Dairy Husbandry | 207HH | Philosophy | 323F |
| Drawing, Descriptive Geometry | 208E | Physical Education for Men | 220CH |
| Economics | 127VH | Physical Education for Women | 101NGW |
| Education | 204Bu | Physics | 148Ph |
| Educational Administration | 204Bu | Physiology | 318MH |
| Educational Psychology | 204Bu | Plant Pathology and Botany | 304PP |
| English | 219F | Political Science | 210NH |
| Entomology, Economic Zoology | 300Cof | Poultry Husbandry | 120TSH |
| Forestry | 110GH | Psychology | 112Psy |
| General Studies | 101TSF | Public Health | 121MH |
| Geography | 101aBu | Rhetoric | 309En |
| Geology and Mineralogy | 108P | Romance Languages | 200F |
| General College | 108WeH | Scandinavian | 13F |
| German | 210F | Sociology and Social Work | 108J |
| History | 102Bu | Soils | 100aSo |
| History of Education | 204Bu | Speech | 309aF |
| Home Economics | 215HE | Student Counseling Bureau | 101EdH |
| Home Economics Education | 215HE | Veterinary Medicine | 203TEH |
| Horticulture | 111Hr | Zoology | 108Z |
| Industrial Education | 101TNUH | | |

COURSE FEES

The following courses require payment of course fees as indicated.

| | |
|--|---------------------|
| Aeronautical Engineering Laboratory fee, required of all sophomores, juniors, and seniors in aeronautical engineering | \$ 3.00 per quarter |
| 46, Orientation Course in Link Flying | |
| No fee for Aero Engineers; other students | 42.00 per quarter |
| 47, Basic Instrument Course, all students | 7.00 per hour |
| 48, Advanced Instrument Course, all students | 98.00 per quarter |
| 49, Refresher Course, all students, Minimum 6 hours or \$42 | 7.00 per hour |
| Agricultural Education 82, 91, 199E | 1.50 per credit |
| Agricultural Engineering 5, 7, 13, 14, 19, 20, 21, 23, 24, 25, 33, 35, | |
| 40, 72 | 1.00 per quarter |
| 41, 43 | 6.00 per quarter |
| 42 | 3.00 per quarter |

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|--|-------------------|
| Architecture 160, 262, IHPI-II..... | 1.00 per quarter |
| AD I-II-III, Arch. 40..... | 3.00 per quarter |
| AD IV | 10.00 per quarter |
| Art 1, 4, 5, 11, 12, 20, 21, 30, 31, 32, 50, 51, 52, 53, 54, 55, 60, 60A, 61, 61A, 62, 62A, 63, 64, 65, 70, 71, 72, 73, 74, 75, 80, 81, 82, 90, 91, 92, 103, 133, 134, 135, 150, 151, 152, 153, 154, 155, 200, 201, 202..... | 1.00 per quarter |
| 33, 34, 35, 43, 44, 45, 83, 84, 85, 87, 88, 89, 93, 94, 95, 97, 98, 99, 183, 184, 185, 193, 194, 195..... | 2.00 per quarter |
| 10, 143, 144, 145..... | 5.00 per quarter |
| Art Education 84, 86, 87, 88, 184, 185..... | 1.50 per credit |
| Astronomy 20 | 1.00 per quarter |
| Bacteriology 53, 102, 103, 104, 113, 114, 116, 123, 124..... | 3.00 per quarter |
| Biological Station, Laboratory fee..... | 5.00 per term |
| Biostatistics (see Public Health) | |
| Botany 1, 2, 3, 50, 51, 52, 53, 54, 112, 113, 114, 115, 118, 119, 121, 127, 130, 132, 134, 137, 165, 196, 197, 198, 199..... | 1.50 per quarter |
| 4, 5 | 2.25 per quarter |
| 120, 123, 154, 173, 174, 175, 179, 180, 181..... | 3.00 per quarter |
| Business Administration | |
| 112, 130, 139, 150 | 2.00 per quarter |
| 170, 171 | 1.00 per quarter |
| Civil Engineering 51, 52, 53, 137, 146..... | 2.00 per quarter |
| 23 | 10.00 per quarter |
| Communications I | 1.00 per quarter |
| Drawing 65 (Jour. 65) | 1.00 per quarter |
| Economics 32, 33, 34, 35, 37, 38, 39, 40, 41, 42, 43—(for one or more of these courses) | 2.50 per quarter |
| Education 51A-B-C, 55A-B, 71A-B-C | 1.50 per credit |
| Ed.C.I., Curriculum and Instruction. All courses..... | 1.50 per credit |
| Ed.Psy. 142, 143, 144, 150..... | 1.50 per credit |
| Ed.T., Methods and Directed Teaching. All courses..... | 1.50 per credit |
| Electrical Engineering 12, 14, 112, 114, 116, 118, 120, 127, 128, 129..... | 1.00 per quarter |
| 16, 122, 124, 126, 164, 165, 166..... | 2.00 per quarter |
| English 4 (Engineering English)..... | 1.00 per quarter |
| Entomology 5, 21, 51, 52, 56, 63, 64, 114, 117, 118, 119, 120, 121, 125, 126, 127, 141, 142, 144, 145, 146, 150, 164, 165, 166, 170, 175, 176, 179, | 1.50 per quarter |
| 55, 128, 129, 140, 168, 169, 177..... | 5.00 per quarter |
| Family Life 14 | 3.00 per quarter |
| General College 10A | 1.00 per quarter |
| 22A-B-C, 22X, 23AX-BX-CX-DX, 24A-B-C, 24AX-BX-CX, 25A- B-C-D, 25X, 28, 32A-B-C-D, 32AX-BX-CX, 33A-B-C, 33AX-BX- CX | 1.50 per quarter |
| 23A-B-C-D | 2.00 per quarter |
| 47A | 2.50 per quarter |
| 26A, 26B | 5.00 per quarter |
| Geology A, B, 23, 24 | 1.00 per quarter |
| 100, 150 | 10.00 per quarter |
| Home Economics Education 91, 93, 94, 197, 199E..... | 1.50 per credit |
| Humanities 1, 11, 21, 51, 61, 71..... | 1.00 per quarter |

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|--|-------------------|
| Industrial Education 1, 2, 3, 5, 6, 7, 10, 11, 12, 15, 16, 20, 21, 25, 26, 50A-B-C, 70, 75 | 1.50 per credit |
| Journalism, general fee | 1.00 per quarter |
| The general fee of \$1 is charged students registered for courses in Journalism with the exception of Journalism 5. The fee is \$1 per quarter regardless of the number of courses taken. | |
| The following courses have fees in addition to the \$1 general fee: | |
| 51, 58, 59, 67, 68 (in addition to general fee) | 2.00 per quarter |
| 41, 52, 55 (in addition to general fee) | 3.00 per quarter |
| 10, 66 (in addition to general fee) | 5.00 per quarter |
| Library Tuition (for all Library courses except Lib. 1) | |
| Students taking 12 credits or more of library courses will pay full tuition rate for Library—\$42 (resident), \$75 (nonresident) and may take other courses with no college tuition charge. Students taking less than 12 credits of library courses will pay the library rate for library courses and the college rate for other courses except that no student will be charged more than \$42 (resident), \$75 (nonresident) regardless of courses pursued. | |
| Mathematics and Mechanics 87, 141, 143 | 1.00 per quarter |
| Mechanical Engineering 1-9, 12-18, 33, 34, 35, 61, 110-114, 118, 149, 159, 169, 189, 198 | 2.00 per quarter |
| Methods and Directed Teaching. All courses | 1.50 per credit |
| Mortuary Science Course Fees | |
| Anatomy | 1.00 per quarter |
| Bacteriology | 3.00 per quarter |
| Embalming | 1.00 per quarter |
| Restorative Art | 1.00 per quarter |
| Music 11-27, Mu.Ed. 225E, one individual lesson per week, 2 credits | 30.00 per quarter |
| Two individual lessons per week, 4 credits | 60.00 per quarter |
| Class lessons in courses 11C, 12C, 2 credits | 15.00 per quarter |
| A, B, C, D, E, F, one individual lesson per week, no credit | 30.00 per quarter |
| Music Education 4-6, 50-65, 50A-B, 112E | 1.50 per credit |
| Natural Science 4, 5, 6 | 1.00 per quarter |
| 7, 8, 9 | 1.50 per quarter |
| Physical Education (men) 1A-B-C, 2A-B-C | 1.00 per credit |
| 4A-B-C, 5A-B-C, 6A-B-C, 7A-B-C, 8, 9A-B, 53, 54, 55, 60A-B, 73, 74, 75, 199 | 1.50 per credit |
| A towel and locker fee of \$2.50 per quarter, payable at the department, is charged all students using physical education facilities for activity. Uniforms for class work or recreational activity are \$2 per quarter. | |
| Physical Education (women) Nonprofessional Courses, 21A-B-C, 41A-B-C, 54, 87, 88 | 2.50 per quarter |
| Maximum course fee of \$5.00 per quarter on the above courses regardless of the number of courses taken. | |
| 50, 51 (one or both) | 2.00 per quarter |
| 57A-B, 61A-B-C, 62, 64, 65, 65A-B, 66, 73A-B-C, 83, 90A-B-C | 1.50 per credit |
| Physical Therapy 75 | 3.00 per quarter |
| Physics 1a, 2a, 3a, 4-9, 52, 110, 112, 134, 136, 144, 145, 146, 154 | 2.00 per quarter |
| Psychology 4, 5, 135, 136, 137 | 1.00 per quarter |
| 130 | 2.00 per quarter |

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| Public Health 65, 66, 67, 119, 129, 138, 139, 173, 190 | 1.00 per credit |
| 80, 140, 150 | 1.00 per quarter |
| 121, 131 | 1.50 per quarter |
| 111 | 2.00 per quarter |
| 184, 185, 186, 187, 188 | 3.00 per quarter |
| 169 | 100.00 per course |
| Rhetoric I (Communications) 12, 22, 28, 54, 59 | 1.00 per quarter |
| Social Work 210-217 | 3.50 per quarter |
| Soils 108 | 2.00 per quarter |
| Speech 1, 2, 3, 5, 6, 51, 55, 56, 57, 61, 65, 67, 81, 82, 83 | 1.00 per quarter |
| 31, 32, 33, 34, 66, 71, 72, 73, 78, 79, 91, 92, 93, 111, 112, 113, 131, 132, 133 | 2.00 per quarter |
| Zoology 22, Lab. | 7.00 per quarter |
| 1, 2, 3, 14, 15, 21, 50, 51, 52, 53, 55, 57, 58, 59, 75, 81, 100, 101, 102, 107, 108, 109, 110, 111, 112, 113, 115, 116, 117, 118, 119, 120, 121, 125, 126, 127, 132, 143, 144, 145, 146, 149, 150, 155, 156, 157, 160, 161, 162, 170, 180 | 1.50 per quarter |
| 128, 129, 140 | 5.00 per quarter |

Courses Requiring Deposit Cards

Nonveterans should purchase Agricultural Biochemistry, Chemistry, Pharmacy, or Physiological Chemistry deposit cards as appropriate. Chemistry, Pharmacy, and Physiological Chemistry cards may be purchased from the bursar, Administration Building, Minneapolis Campus. Agricultural Biochemistry cards may be purchased from the cashier, Coffey Hall, St. Paul Campus. Chemistry deposit cards are \$10 each. Other deposit cards are \$5 each. Veterans will receive information from the instructor concerning cards and checking into laboratory. No student will be assigned a desk in the laboratory until he presents his card. The course fee, laboratory material, and breakage will be charged against the card. The unused balance will be credited to the student's matriculation deposit at the end of the course.

| | |
|--|-------------------|
| Agricultural Biochemistry 2 | 2.00 per quarter |
| 103, 110, 117, 118, 129, 130, 131, 132, 133, 202, 203, 212 | 5.00 per quarter |
| Analytical Chemistry 1, 2, 7, 9, 96, 97, 98, 101, 102, 103, 104, 105, 106, 107, 108, 109, 122, 123, 127, 131, 132, 134, 138, 140 | 3.00 per quarter |
| Chemical Engineering 76, 77, 105, 106, 111, 112, 113, 151, 152, 153, 154, 155, 156, 160, 176, 177, 179 | 3.00 per quarter |
| Food Technology 51, 52 | 5.00 per quarter |
| Inorganic Chemistry 1, 2, 4, 5, 6, 7, 9, 10, 11, 12, 13, 96, 97, 98, 102, 109, 110 | 3.00 per quarter |
| Organic Chemistry 61, 62, 64, 96, 97, 98, 102, 130 | 3.00 per quarter |
| 110, 139 | 10.00 per quarter |
| Pharmacy Deposit (\$5) required of all sophomores, juniors, and seniors in Pharmacy. | |
| Pharmacognosy 55, 56 | 3.00 per quarter |
| 162, 163 | 5.00 per quarter |
| Physical Chemistry 96, 97, 98, 104, 105, 106, 107, 108, 110, 111, 112, 113, 132, 133, 134, 211, 212, 213, 231 | 3.00 per quarter |
| Physiological Chemistry 100, 101, 102, 103 | 3.00 per quarter |

Special Fees

Supplement to General Information Bulletin

Music Practice fees:

| | |
|--|------------------|
| Piano and practice room 1 hr. per week | 1.00 per quarter |
| 2 hours per week | 2.00 per quarter |
| Each additional hour per week | .50 per quarter |
| Small organ and practice room | .20 per hour |
| Large organ and practice room | .40 per hour |
| Practice room for other instruments, 10 hours per week | 2.00 per quarter |

Speech Clinic fees:

Special Clinical Treatment (for students) 5.00 per quarter

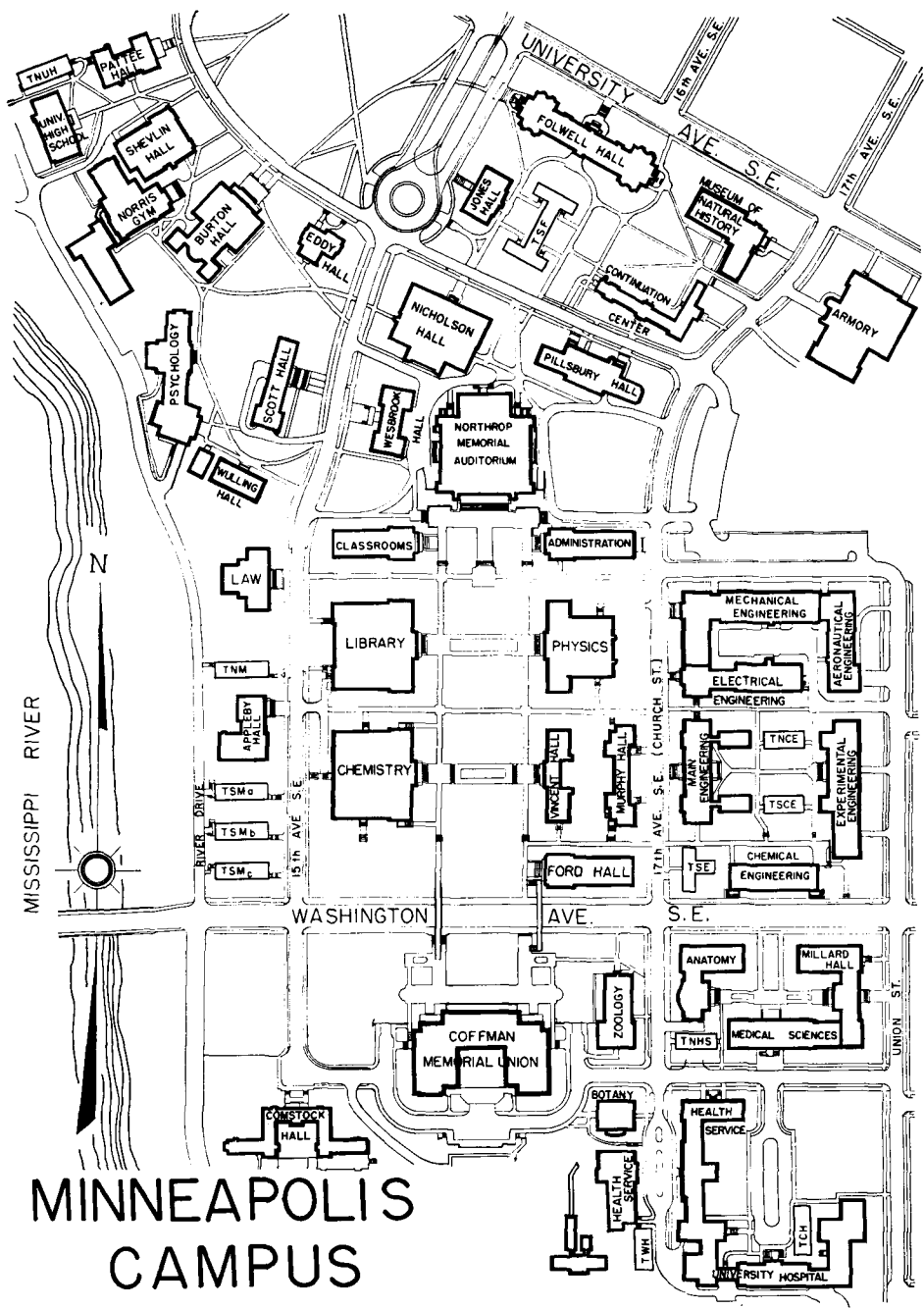
Special Clinical Treatment (for non-students)

Articulatory cases

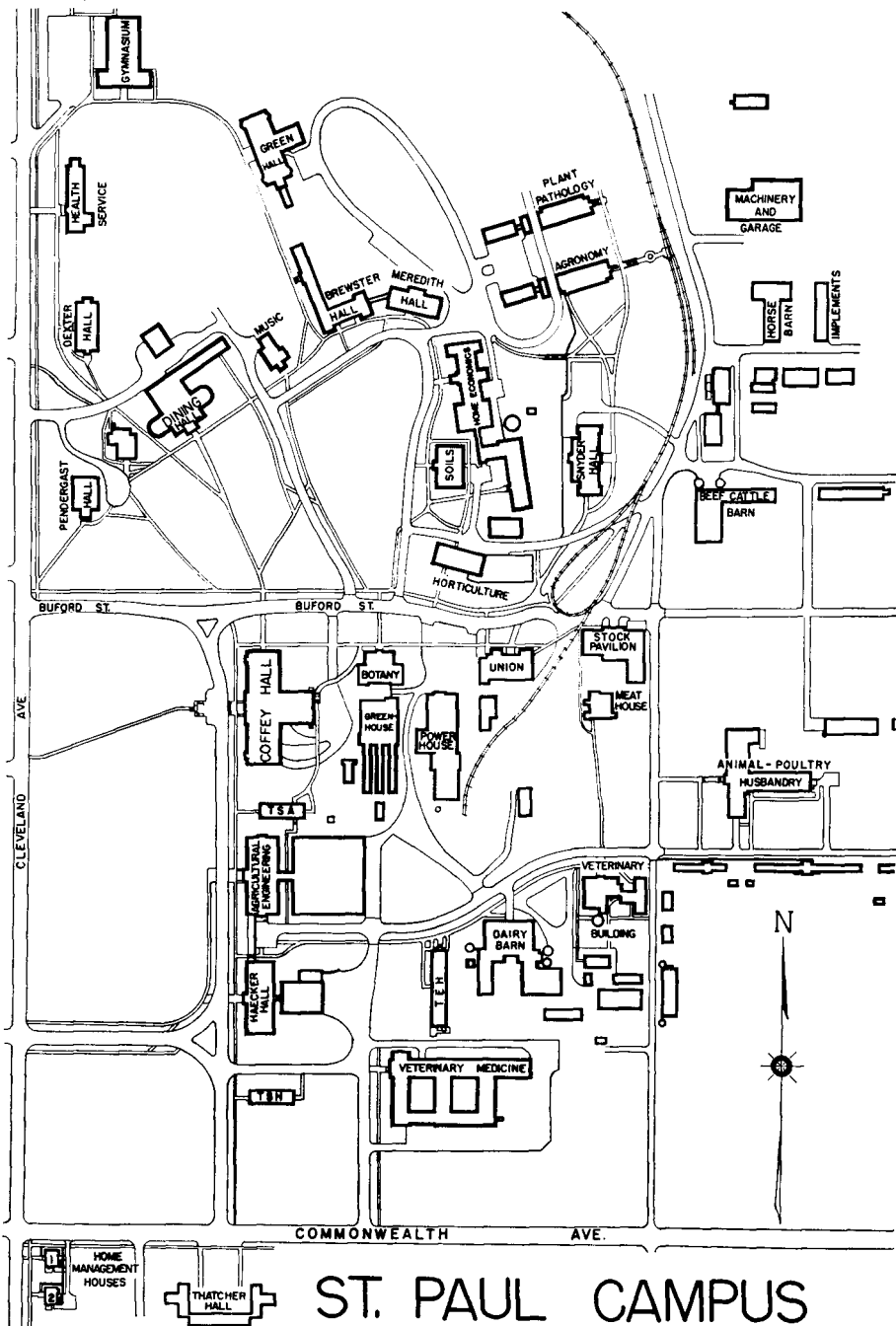
| | |
|--------------------------|-------------------|
| 1 lesson per week | 15.00 per quarter |
| 2 lessons per week | 25.00 per quarter |
| 3 lessons per week | 30.00 per quarter |
| 4 lessons per week | 35.00 per quarter |
| 5 lessons per week | 40.00 per quarter |

Stutterers

| | |
|------------------------------------|--------------------|
| Full-time remediation | 100.00 per quarter |
| Half-time remediation | 50.00 per quarter |
| One-quarter time remediation | 30.00 per quarter |



MINNEAPOLIS CAMPUS



ST. PAUL CAMPUS

INTER-CAMPUS CAR SCHEDULE

For the school year 1949-50, September 26 to June 10, inclusive, except during the Christmas and spring vacations.

| Leaving Minneapolis Campus | | | | | Leaving St. Paul Campus | | | | |
|----------------------------|------|-------|-------|------|-------------------------|-------|-------|-------|------|
| 7:05 | 8:40 | 10:10 | 11:40 | 1:10 | 7:20 | 8:55 | 10:25 | 11:55 | 1:25 |
| 7:20 | 8:55 | 10:25 | 11:55 | 1:25 | 7:35 | 9:10 | 10:40 | 12:10 | 1:40 |
| 7:40 | 9:10 | 10:40 | 12:10 | 1:40 | 7:55 | 9:25 | 10:55 | 12:25 | 1:55 |
| 7:55 | 9:25 | 10:55 | 12:25 | etc. | 8:10 | 9:40 | 11:10 | 12:40 | etc. |
| 8:10 | 9:40 | 11:10 | 12:40 | Last | 8:25 | 9:55 | 11:25 | 12:55 | Last |
| 8:25 | 9:55 | 11:25 | 12:55 | car | 8:40 | 10:10 | 11:40 | 1:10 | car |
| | | | | 6:40 | | | | | 6:55 |

Half hour schedule Saturday afternoons, beginning Minneapolis Campus at 1:10; last car at 6:40. Beginning St. Paul Campus at 1:25; last car at 6:55. No cars on Sundays. Holiday schedule will be announced.

Passes for those who have classes on both campuses are issued at the University Post Office on the Minneapolis Campus and the Admissions and Records Office on the St. Paul Campus.

Tickets for the Inter-Campus car may be purchased at the Cashier's Office on either campus, twenty rides for one dollar.

CONVOCATIONS

At 11:00 o'clock each Thursday morning, except for holidays and examination periods, an established authority on some subject of general interest, or a cultural attraction of equal general interest, is presented at Northrop Memorial Auditorium to students, staff, and faculty members of the University of Minnesota. Such programs not only offer a liberal education in adventure, art, foreign news, music and dance, science, and world affairs, but they are at the same time highly entertaining. While classes are not dismissed for convocation hour, it is possible for any student to attend convocations of his or her choice. It is, of course, intended that the students, staff, and faculty should attend these convocations. The general public is likewise invited. The convocations are usually preceded by an organ recital. The convocation program is broadcast over KUOM.

GENERAL EXTENSION DIVISION

Instruction, by both class and correspondence study methods, is also open to, and employed by, regularly matriculated students as a means of earning credits toward degrees. Extension classes conducted in Minneapolis, St. Paul, or Duluth are classed as residence work; credits earned in them satisfy residence as well as credit requirements. Credits earned by correspondence study do not classify as residence, but are accepted for a part of the credit requirements for most undergraduate degrees. (The Institute of Technology has special requirements which students must follow.) Students, therefore, who are temporarily out of residence (except dropped students) are privileged to register for either form of instruction.

For further information, address the General Extension Division, Nicholson Hall, University of Minnesota, Minneapolis 14, Minnesota.

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Student's Copy of Winter Quarter Classes

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|------|--------|---------|-----------|----------|--------|----------|
| I | | | | | | |
| II | | | | | | |
| III | | | | | | |
| IV | | | | | | |
| V | | | | | | |
| VI | | | | | | |
| VII | | | | | | |
| VIII | | | | | | |
| IX | | | | | | |
| X | | | | | | |

HAVE
YOU
CHECKED
ALL
SECTION
NUMBERS

Course—Section
Room—Building
Instructor

*Ed.Ad 264
107 NH
Boardman*

JANUARY

| S | M | T | W | T | F | S |
|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

FEBRUARY

| S | M | T | W | T | F | S |
|---|---|---|---|----|----|----|
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| | | | | 16 | 17 | 18 |
| | | | | 19 | 20 | 21 |
| | | | | 22 | 23 | 24 |
| | | | | 25 | 26 | 27 |
| | | | | 28 | | |

MARCH

| S | M | T | W | T | F | S |
|---|---|---|---|---|----|----|
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| | | | | | 19 | 20 |
| | | | | | 21 | 22 |
| | | | | | 23 | 24 |
| | | | | | 25 | 26 |
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| | | | | | 29 | 30 |
| | | | | | 31 | |

REGISTRATION TALLY PROCEDURE

To tally for a course in which class sizes are limited or "controlled," you must obtain an IBM class reservation card at the appropriate tally office listed below. A manual tally is maintained at 136 Main Engineering, and IBM cards are not issued for courses tallied at that office.

AGRICULTURE, FORESTRY, AND HOME ECONOMICS

Tally at 203d Cof for all courses except the following (Courses numbered 200 and over are not tallied):

Agric Engin 18, 36, 51, 61, 73, 102, 106, 112, 122, 126, 132 tallied at 136E
HE 1, 20, 31, 120 tallied at 107 TSF for SLA students

BUSINESS ADMINISTRATION

Tally at 106VH for all courses except the following:

BA 98, 183 not tallied
Econ 8, 9, 28 tallied at 136E
Econ 30 tallied at 101 WuH
Econ 34, 35, 37, 41 not tallied
Other Econ courses tallied at 107 TSF for all students except those registered in the School of Business Administration

EDUCATION

The courses listed below are tallied at 204Bu unless otherwise indicated. Other courses are not tallied.

Agric Educ, all courses are tallied at 203d Cof
Art Educ 18, 57, 81B
Educ 55A, 55B, 71B
Educ CI 109, 125
Educ Psych 150, 217a, 281
Hist Educ 180
HE Educ, all courses are tallied at 203d Cof
Ind Educ 2, 5, 6, 10, 11, 21
Mus Educ 50A, 50B, 59

GENERAL COLLEGE

Tally at 108WeH for all courses.

INSTITUTE OF TECHNOLOGY

All courses tallied at 136E unless otherwise indicated. Courses numbered 200 and over are not tallied.

Registration tally instruction for courses not listed in the *Class Schedule* may be obtained at 136E.

Draw, Desc Geom 44, 45 tallied at 107TSF
Inorg Chem 1, 2, 5 tallied at 203d Cof for Agric, For, and HE students
Inorg Chem 1, 2, 5, 6, 7, 10, 12 tallied at 107TSF for SLA students and 136E for IT students
Inorg Chem 6, 7, 10 tallied at 101 WuH for Pharm students
Inorg Chem 11 tallied at 107TSF
Org Chem 61 tallied at 107TSF for SLA students and 101WuH for Pharm students
Phys Chem 108 tallied at 107TSF

MEDICAL SCIENCES

The courses listed below are tallied as indicated. Other courses are not tallied.

Bact 53 tallied at 107TSF for SLA students, 203d Cof for Agric, For, and HE students and 101 WuH for Pharm students
PH 111, 131 tallied at 107TSF

SCIENCE, LITERATURE, AND THE ARTS

Courses listed below are tallied at 107TSF unless otherwise indicated. Other courses are not tallied.

Art 1, 4, 5, 10, 11, 20, 21, 31, 33, 34, 43, 44, 45, 51, 60, 61, 62, 64, 70, 71, 72, 74, 80, 81, 82, 83, 84, 85, 88, 90, 91, 92, 94, 95, 98, 134, 143, 144, 145, 150, 151, 152, 154
Art 60A, 61A, 62A tallied at 136E
Bot 2, 12, 53, 112, 114, 118, 127, 180
Bot 2 tallied at 203d Cof for Agric, For, and HE students
Comm 1, 2, 3
Comp A, B, 4, 5, 6, 7, 27, 28, 29, 102, 201
Comp 58 tallied at 106VH
CW 40
Engl 22, 55, 56, 74, 98, 229, 232, 241, 254, 278, 282, 285
FL 1, 14, 15, 20, 25
Fren 1, 2, 2a, 3, 4
Geog 11, 41, 102, 107, 110, 143, 155
Geol A, B, 1, 2, 24
Geol 24, 166 tallied at 136E for IT students
Germ 1, 2, 2A, 2B, 3, 4, 20
Germ 25, 28, 42 tallied at 136E
Germ 25a tallied at 203d Cof
Hist 21, 60, 71
Hum 1, 2, 3, 4, 12, 22, 52, 62, 72, 132
Jour 10, 11, 13, 14, 41, 51, 52, 55, 58, 59, 66, 67, 74, 86, 87, 101, 109, 141
Lib Sci 1
Math 1, 6, 7, 8, 15, 16, 20, 30, 50, 51, 62, 105, 106
Mus 1, 1T, 2T, 4T, 5T, 11C, 12C, 44, 47
Mus 44U tallied at 203d Cof
Nat Sci 2, 5, 8
PO 1, 11
Phil 1, 1A, 2, 3, 51
Phys 2, 2A, 110, 133, 134, 136
Phys 7, 8, 9, 73 tallied at 136E
Pol B, 2
Psych A, 1, 2, 4, 5, 56, 102, 114, 126, 130, 136, 140, 145, 148, 160, 172
Soc 1, 2, 45
Soc 1 (3 cr) tallied at 203d Cof
Soc Sci 1, 2, 3, 12, 82
SW 221
Span 1, 2, 2a, 3, 4, 54, 71
Spch 1, 2, 3, 5, 6, 32, 33, 56, 65, 66, 67, 72, 79, 81, 82, 102, 106, 132
Zool 2, 15, 22, 52, 57, 59, 82, 113, 126, 145
Zool 15, 118, 129 tallied at 203d Cof for Agric, For, and HE students