

*The Bulletin of the*  
UNIVERSITY of MINNESOTA

General Information  
1947-1948

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## TABLE OF CONTENTS

	Page
Democracy and education on the forward march .....	3
University calendar .....	4-5
Information for men and women with military service records .....	6-8
Admission .....	9-16
I. Admission to the undergraduate colleges .....	9
A. Application procedure .....	9
B. Time of entrance .....	9
C. Requirements for admission .....	10
1. Admission by examination .....	10
2. Admission by certificate from high school .....	11
3. Admission with advanced standing .....	15
4. Admission as an adult special student .....	16
II. Admission to the Graduate School .....	16
Courses and degrees .....	17-28
Courses open to freshmen .....	17
Courses not open to freshmen .....	22
Other study opportunities of the University .....	25
Regulations governing granting of degrees .....	28
Expenses .....	29
University services to students .....	30-34
Personnel aids .....	30
Speech Clinic .....	30
Students' Health Service .....	30
Cultural and recreational facilities .....	30
Financial aids .....	32
Housing facilities .....	33
University fees .....	35-37
Tuition fees .....	35
Incidental fee .....	35
Matriculation deposit .....	36
Special fees .....	36
Refunds .....	37
Nonresident students .....	37
Accredited Minnesota Public Secondary Schools .....	38
Accredited Minnesota Private Secondary Schools .....	38
Accredited Minnesota Colleges .....	38

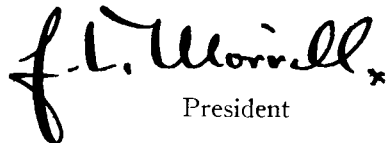
## DEMOCRACY AND EDUCATION ON THE FORWARD MARCH

Students entering the University of Minnesota this year will come to an institution which is devoting its resources—physical, financial, and human—to a task greater in sheer size and numbers than any ever before attempted; one also, perhaps, more important than ever before because of the Nation's pledge of educational opportunity and ongoing for the thousands of World War II veterans who make up the greater part of our student body.

The University feels itself confronted by an inspiring challenge. No post-war fact is more impressive, and none more hopeful, than the upsurge in college attendance the country over. Last fall, on this campus, there were enrolled more than 27,000 men and women, nearly two thirds of them veterans. More than 14,000 applicants from other states had to be turned away under the policy of the University to give priority to Minnesota veterans and civilian students. It is the prediction that college enrolments will rise steadily for the next year or two, thus taxing even more heavily the facilities of the institutions of higher learning in this country.

As the University of Minnesota discharged its responsibilities during the war years, so it must now strive to meet its responsibilities in this postwar world. Peace is the true climate of education. And the postponed obligations of the University to improve its teaching, to carry forward research, to promote the cultural, social, and economic upgrading of the human and material resources of the State, must be faced with new devotion and greater effectiveness.

It is in this spirit that the University of Minnesota welcomes the uncounted thousands of students yet to come, and pledges its most earnest efforts to meet the expanding needs of education and American democracy on the forward march.

A handwritten signature in cursive script, reading "F. L. Merrill". The signature is written in dark ink and is positioned above the printed name "President".

President

## UNIVERSITY CALENDAR, 1947-48

1947

### *Fall Quarter*

August 1 - September 26			Entrance Tests. <sup>1</sup> Fall Registration <sup>2</sup> : Dates for the various colleges will be announced in the press and in mailed instructions. Students who can do so are urged to register early. It is expected that all students who can do so will register before September 1
September	15	Monday	Extension registration, first semester, begins
September	18	Thursday	Fall quarter fees due for students registered through September 11
September	22-26		New student week; program of orientation. Details will be announced in instructions issued at registration. All new students are expected to attend
September	26	Friday	Last day for registration <sup>2</sup> and payment of fees for the undergraduate colleges
September	29	Monday	Fall quarter classes begin 8:00 a.m. <sup>3</sup> First semester extension classes begin <sup>4</sup>
October	2	Thursday	Opening convocation, 11:00 a.m.
October	4	Saturday	Last day for extension registration and for registration and payment of fees for the Graduate School, and for teachers in service
October	13	Monday	(Sunday, October 12, Columbus Day); holiday (except extension)
November	1	Saturday	Dads Day
November	8	Saturday	Homecoming Day
November	11	Tuesday	Armistice Day; holiday (except extension)
November	13	Thursday	Senate meeting, 4:00 p.m.
November	27	Thursday	Thanksgiving Day; holiday
December	12-13 and 15-18		Final examination period
December	18	Thursday	Fall quarter ends 6:00 p.m. <sup>5</sup> ; Commencement, 8:00 p.m.

### *Winter Quarter*

December	26	Friday	Winter quarter fees due for students in residence fall quarter in undergraduate colleges
1948			
January	2	Friday	Entrance tests <sup>1</sup>
January	2-3		Registration <sup>2</sup> in all colleges for new students not already registered. Registration and payment of fees for new students in all undergraduate colleges closes at noon, Saturday, January 3
January	5	Monday	Winter quarter classes begin 8:00 a.m. <sup>3</sup> Extension classes resume
January	10	Saturday	Last day for registration and payment of fees for the Graduate School, and for teachers in service
January	26	Monday	Second semester extension registration begins
February	7	Saturday	First semester extension classes close

February	9	Monday	Second semester extension classes begin <sup>4</sup>
February	12	Thursday	Lincoln's Birthday; holiday (except extension)
February	14	Saturday	Last day for extension registration
February	19	Thursday	Charter Day Convocation, 11:00 a.m.; Senate meeting, 4:00 p.m.
February	23	Monday	(Sunday, February 22, Washington's Birthday); holiday (except extension)
March 12-13 and 15-18			Final examination period
March	18	Thursday	Spring quarter fees due for students in residence winter quarter in undergraduate colleges. Winter quarter ends 6:00 p.m.; Commencement, 8:00 p.m.

*Spring Quarter*

March	26	Friday	Good Friday; holiday (except extension)
March	27	Saturday	Entrance tests <sup>1</sup> ; Registration <sup>2</sup> for new students not already registered. Registration and payment of fees for new students in all undergraduate colleges closes at 4:00 p.m.
March	29	Monday	Spring quarter classes begin 8:00 a.m. <sup>3</sup>
April	3	Saturday	Last day for registration and payment of fees for the Graduate School, and for teachers in service
May	8	Saturday	Mothers Day
May	13	Thursday	Cap and Gown Day Convocation, 11:00 a.m.; Senate meeting, 4:00 p.m.
May	31	Monday	(Sunday, May 30, Memorial Day); holiday (except extension)
June	4	Friday	Second semester extension classes close
June	6	Sunday	Baccalaureate service
June	7-12		Final examination period
June	12	Saturday	Spring quarter ends 6:00 p.m.; Seventy-sixth annual commencement, 8:00 p.m.

*Summer Session*

June	15	Tuesday	Registration <sup>2</sup> for new students not already registered. First term fees due for students in all colleges
June	16	Wednesday	First term Summer Session classes begin 8:00 a.m. <sup>3</sup>
July	5	Monday	(Sunday, July 4, Independence Day); holiday
July	23	Friday	First term closes
July	26	Monday	Registration <sup>2</sup> for new students not already registered. Second term fees due for students in all colleges
July	27	Tuesday	Second term classes begin 8:00 a.m. <sup>3</sup>
August	26	Thursday	Summer commencement, 8:00 p.m.
August	28	Saturday	Second term closes

<sup>1</sup> Applicants are urged to take entrance tests one to two months in advance of the quarter for which admission is desired. Tests may be taken at the Student Counseling Bureau, 101 Eddy Hall.

<sup>2</sup> Registration subsequent to the date specified will necessitate the approval of the college concerned. See privilege fees for late registration or late payment of fees, page 36.

<sup>3</sup> First hour classes begin at 7:45 a.m. at University Farm.

<sup>4</sup> This date does not refer to correspondence study courses, which may be started at any time during the year.

<sup>5</sup> Extension classes end Friday, December 19, and resume Monday, January 5.

# INFORMATION FOR MEN AND WOMEN WITH MILITARY SERVICE RECORDS

## APPLICATION FOR SERVICE—CONNECTED CREDIT

**Application for credit for educational achievement during military service—** Personnel *now on active duty* should submit the United States Armed Forces Institute Form No. 47 provided for this purpose. Form No. 47 may be obtained from your educational officer or from the United States Armed Forces Institute, Madison 3, Wisconsin.

Veterans of World War II *no longer on active duty* should submit a certified copy of W.D., A.G.O. Form 100, Separation Qualification Record, or Notice of Separation from the U. S. Naval Service, NavPers 553; or U.S.M.C. Report of Separation; or Notice of Separation from the U. S. Naval Service—Coast Guard, 553. In the case of Naval commissioned or warrant officers, the Officer's Qualification Record Jacket (NavPers 305), a certified copy thereof, or a statement from the Bureau of Naval Personnel covering the data desired should be submitted.

For amount of credit allowed for various types of training completed see under Admission with Advanced Standing, page 15.

## ADMISSION PROCEDURE FOR VETERANS

Application for admission may be made either in person or by mail. Application blanks are available at the Office of Admissions and Records. **IMPORTANT: Application for admission, and high school, ASTP, V-12, Armed Forces Institute, and previous college records must be filed with the Office of Admissions and Records.**

**Non-high school graduates—**Veterans who left high school before graduation may be considered for admission by examination. Application for admission and test authorization forms may be obtained from the Office of Admissions and Records. The high school equivalence certificate will be accepted in lieu of high school graduation for admission to the General College. Non-high school graduates who are admitted may receive advanced standing to the extent that educational experience in the armed forces has been the equivalent of unduplicated acceptable college courses.

**High school graduates** who meet the requirements for admission either by certificate or examination may receive advanced standing to the extent that educational experience in the armed forces has been the equivalent of college courses, in the judgment of the faculty concerned.

**Students previously enrolled** may be considered for advanced standing resulting from educational experience in the Armed Forces to the extent that work completed is applicable to the curriculum followed, providing such work does not duplicate courses already credited. Write to the Office of Admissions and Records for application for readmission.

**Applicants from other colleges and universities—**Veterans who have attended other colleges or universities, who desire to transfer to the University of Minnesota should file an official transcript of record from the institution attended (if less than one year of college work was completed or university grade work was done while in military service, a high school record should also be submitted). Write to the Office of Admissions and Records for application for admission with advanced standing.

## REGISTRATION PROCEDURE FOR VETERANS

Upon arriving at the University report to the Office of the University Bureau of Veterans' Affairs, 13 Shevlin Hall, for general information and instruction. Bring your Certificate of Eligibility and Entitlement, if enrolling under Public Law 346 (G.I. Bill), or Letter of Authorization, if enrolling under Public Law 16 (Rehabilitation Training

Program), for training obtained from the Veterans Administration. If you have not obtained either the Certificate or Letter upon arriving at the University, report to the Bureau of Veterans' Affairs for information on the procedure to be followed in applying for educational benefits. If enrolling in the College of Agriculture, Forestry, and Home Economics, report to 207 Administration Building, University Farm.

Every quarter for the duration of your training authorization you should proceed as follows:

1. **Register** in the same manner as all other students in your college and obtain statement of fees.
2. **Present fee statement and Veterans Administration authorization for training to Trainee Account Clerk**, Window 18, Office of Admissions and Records, to have statement approved for collection from Veterans Administration. If you are enrolling in the College of Agriculture, Forestry, and Home Economics, present fee statement to Office of Admissions and Records, 203d Administration Building, University Farm.
3. **Obtain fee receipt from bursar**. Turn in your approved fee statement to the bursar, who will give you a receipt showing that your fees are being paid by the Veterans Administration. If you are enrolling in the College of Agriculture, Forestry, and Home Economics, turn in your approved fee statement to the cashier, 203d Administration Building, University Farm, who will give you a receipt showing your fees are being paid by the Veterans Administration.
4. **Present fee receipt and list of courses, signed by your adviser, to Bureau of Veterans Affairs**, 13 Shevlin Hall, to obtain purchase voucher on the basis of which books and supplies may be obtained. **Veterans enrolled in the College of Agriculture, Forestry, and Home Economics should present fee receipt and signed list of courses, at 207 Administration Building, University Farm**. Required books and supplies, including Chemistry Deposit Cards and rental cards for lockers and microscopes are issued on the basis of these vouchers. Each department in the University prepares lists of requirements for each course, and approval is based on these lists.
5. **Cancellation of registration**. Veterans who discontinue attendance must notify the Office of Admissions and Records, the University Bureau of Veterans' Affairs, 13 Shevlin Hall or 207 Administration Building, University Farm (Agriculture, Forestry, and Home Economics students), and Mr. J. G. Pease, Veterans Administration, Minneapolis 6, of this fact as soon as they terminate their attendance.

#### COUNSELING FACILITIES FOR VETERANS

The University, in recognition of the particular problems which many veterans have in becoming adjusted to student life, has established special facilities for the counseling of veterans. The University of Minnesota Bureau of Veterans' Affairs, a department of the Office of the Dean of Students, assists prospective student veterans in securing adequate information concerning registration. Additional help is extended to enrolled veterans in obtaining advice and counseling on all matters. This service is supplementary to the existing facilities provided by the various colleges of the University and other counseling bureaus. All facilities for this work are coordinated by the University's Committee on the Coordination of Advisory Services for Veterans.

Through the Bureau of Veterans' Affairs, referral is made to various faculty members and to such agencies as the Student Counseling Bureau (see University Services to Students, page 30), Speech Clinic, Students' Health Service, Student Activities Bureau, Reading Clinic, Student Union, and others. A close liaison is maintained by this Bureau with the Veterans Administration.

All veterans should make their initial contact with the University through the University Bureau of Veterans' Affairs, 13 Shevlin Hall.

## NON-UNIVERSITY VETERANS' FACILITIES

**Veterans Administration**—The Veterans Administration has been designated by the government as the authorizing agency for training under the Servicemen's Readjustment Act, Public Law 346 (G.I. Bill), and under the Vocational Rehabilitation Act for veterans with service-connected disabilities, Public Law 16 (Rehabilitation Training Program). Veterans approved for training under either act will be provided books, supplies, tuition fees, and allowance for maintenance paid by the government. Application may be made to the Veterans Administration, 1006 West Lake Street, Minneapolis 8, Minnesota (Telephone: Main 7151). Necessary forms and information, however, may be obtained at the University Bureau of Veterans' Affairs.

**Department of Veterans Affairs**—Shubert Building, 488 Wabasha Street, St. Paul (Telephone: Nestor 2771), is the official agency for administration of the State Rehabilitation Law. Veterans who are legal residents of Minnesota should investigate the provisions of this state law for emergency aid and educational rehabilitation.

**Veterans Information and Referral Service**, 414 South 8th Street, Minneapolis (Telephone: Atlantic 4344), is a cooperative venture of several federal, state, and Minneapolis agencies. Counseling and information are provided by trained interviewers. First copies of discharge papers are duplicated without charge; additional copies or duplicates of other important documents are obtainable at a nominal fee. This office is prepared to furnish advice and aid to veterans requesting assistance in housing. Veterans are also given aid in filling out application forms and other papers.



# ADMISSION

## I. Admission to Undergraduate Colleges

### NONRESIDENTS

By action of the Board of Regents, taken because of the present educational emergency, admission of nonresidents to the regular session is restricted, subject to the following exceptions: Veterans whose homes are in Montana, North Dakota, South Dakota, Iowa, Wisconsin, and northern Michigan and who are in the upper 25 per cent of their high school graduating classes, or who have an average of "B" or better if they are applying for admission with advanced standing, may be considered. Non-veterans residing in the same area, to be considered, must be in the upper 10 per cent of their graduating classes or present a "B" average if applying for admission with advanced standing. Sons and daughters of former students are also eligible for consideration. Other exceptions have been established covering a few individual circumstances. It is under all of these rulings that each individual application is reviewed. Any person who considers himself to be a resident of the state of Minnesota, but whose residence status for University purposes may be in doubt, is invited to present his case on the "Application for Resident Classification" form.

#### A. APPLICATION PROCEDURE

All inquiries, credentials, and applications for admission to the undergraduate colleges should be addressed to the Office of Admissions and Records, University of Minnesota, Minneapolis 14, Minnesota.

Application blanks may be obtained at any Minnesota high school or from the Office of Admissions and Records, University of Minnesota.

An admission certificate will be mailed to each applicant who has met the requirements. Students entering from other colleges or universities will also receive a statement of advanced standing. Instructions for registration will either be enclosed with the admission certificate or will be mailed later—usually a month or more before the opening of the quarter. Students must present their admission certificates when they report for registration.

#### B. TIME OF ENTRANCE

The University year is divided into four quarters. The fall, winter, and spring quarters make up the college year from September to June. The fourth quarter includes two summer terms.

Following are the registration dates:

##### *Summer quarter, 1947*

Registration .....	June 17
Classes begin .....	June 18

##### *Fall quarter, 1947*

Registration .....	August 1–September 26
Classes begin .....	September 29

##### *Winter quarter, 1948*

Registration .....	January 2-3
Classes begin .....	January 5

##### *Spring quarter, 1948*

Registration .....	March 27
Classes begin .....	March 29

Admission to the following schools and colleges, unless otherwise provided, requires two or more years of preprofessional work as indicated, either at the University of Minnesota or at some other recognized college or university. The content of the preprofessional course is listed in the bulletin of the college offering the work. This bulletin should be obtained from the Office of Admissions and Records. On entering the University, the applicant is required to meet the admission requirements of the college in which the preprofessional work is to be taken.

**Professional School****Preprofessional Course**

Law School	Two years in Science, Literature, and the Arts
Medical School	Three or more years in Science, Literature, and the Arts
School of Nursing	Five quarters in Science, Literature, and the Arts
School of Dentistry	Two years in Science, Literature, and the Arts
College of Education	Two years in Science, Literature, and the Arts; or in Agriculture, or in Home Economics; or in the General College; or five quarters in Science, Literature, and the Arts and ten quarters in the School of Nursing. Exceptions are the special four-year courses of study in Art Education, Industrial Education, Kindergarten and Primary Education, Music Education, and Physical Education to which qualified students are accepted by the College of Education directly from high school.
School of Business Administration	Two years in Science, Literature, and the Arts; Agriculture, Forestry, and Home Economics; or the Institute of Technology

**ALL FALL QUARTER NEW STUDENTS, INCLUDING FRESHMEN, ARE URGED TO ATTEND DURING NEW STUDENT WEEK, SEPTEMBER 22-26.**

The University recognizes the need of giving newcomers an introduction to the academic and social world which they are entering. The week before the opening of fall quarter classes is set aside as a general orientation period known as New Student Week. Altho the program is concerned primarily with the problems of those who are entering as freshmen, newly entering, advanced standing students will also find much of interest and are invited to attend.

### C. REQUIREMENTS FOR ADMISSION

#### 1. ADMISSION BY EXAMINATION

##### *a. High School Graduates*

High school graduates, regardless of subject-matter pattern in high school, may be considered for admission by examination. These examinations are of the objective type, intended to measure aptitudes for college work rather than specific information in high school fields. No special preparation for the tests is practicable.

##### *b. Non-High School Graduates*

With the concurrence of the Minnesota Council of School Executives and the Minnesota High School Principals Association, provision has been made to consider for admission, high school age non-high school graduates who show evidence of sufficient maturity to adjust to university life and achieve satisfactorily in the college of their choice. Any such person may be considered for admission by examination with decision based on test results, high school records, and student maturity and best interests in admission before the normal time. Judgments are obtained from the high school principal, the parents, the all-University counselor, the dean of the college, and the dean of Admissions and Records.

In cases where opinion differs, the dean of the college may request a decision from the Board of Admissions.

Students desiring to apply for admission to the University before graduation from high school should arrange to come to the campus for a period of two or three days for testing and counseling several weeks in advance of the quarter they desire to enter. At that time application for admission, including high school credits and grades, and letters of recommendation from the school principal and parents should be filed with the Office of Admissions and Records.

## 2. ADMISSION FROM HIGH SCHOOL ON CERTIFICATE BASIS

Applicants must be graduates of an accredited high school and must satisfy the scholarship and subject-matter requirements of their college to be admitted.

The requirements for admission to the various colleges follow.

### *a. Definitions*

In listing the requirements, reference is made to admissions groups, units, majors and minors.

1. Admissions groups referred to include:

Group A: English

Group B: Foreign Languages (major or minor must be in one language)

Group C: History and Social Sciences (major must include at least 2 units in History; a minor, at least 1 unit in History)

Group D: Mathematics

Group E: Natural Sciences (for major or minor in this group, not more than 2 half-unit courses may be included)

Group F: Vocational and Miscellaneous Subjects

2. A unit means a one-year high school subject taken in Grades X, XI, and XII (senior high school).

3. A major means at least 3 units in one admission group.

4. A minor means at least 2 units in one admission group.

5. From either Admission Group B (foreign languages) or Admission Group D (mathematics), *but not from both*, one unit completed in Grade IX may be used toward a major or a minor. If this is done, however, the unit completed in Grade IX may not be counted as part of the minimum of twelve units required from Grades X, XI, and XII nor as part of the units specified in Groups A through E.

### *b. Requirements*

#### **College of Science, Literature, and the Arts—**

1. Applicants for admission to this college by certificate who are in the top 10 per cent of their high school class will be admitted regardless of the pattern of their high school subjects. Such students must meet the regular prerequisites for college subjects they may wish to take.

2. Other applicants for admission by certificate must have a college aptitude rating of at least 40 (the college aptitude rating is the average of the student's percentile rank in his high school graduating class and his percentile rank on the college aptitude test) and present the following pattern of subjects:

a. At least 12 units must have been completed in Grades X, XI, and XII (senior high school) including at least 9 units in standard subjects (Groups A through E).

b. Either 1 major and 2 minors or preferably 2 majors and 1 minor must be presented including:

A major in Group A, English

A major or a minor in Group D, Mathematics

**Institute of Technology—**

1. Applicants must have been in the upper 50 per cent of their high school graduating class. Others will be given individual consideration and may be permitted to take special tests to qualify for admission.

2. At least 12 units must have been completed in Grades X, XI, and XII (senior high school) including at least 9 units in standard subjects (Groups A through E).

3. Either 1 major and 2 minors or preferably 2 majors and 1 minor must be presented including :

A major or a minor in Group A, English

A major in Group D, Mathematics, including Higher Algebra and Solid Geometry.

Students will be accepted without higher algebra or solid geometry (not without both). Such students must register for and complete during their first quarter the course lacking. No university credit is given for either of these courses.

**College of Agriculture, Forestry, and Home Economics—**

**Agriculture**—Applicants who are in the upper 25 per cent of their high school graduating class may be admitted regardless of subjects taken in high school. It is nevertheless recommended that such students select high school courses to conform as nearly as possible with requirements for other students listed below.

1. Other applicants for this college must be in the upper 75 per cent of their high school graduating class and must have completed at least 12 units in Grades X, XI, and XII (senior high school) including at least 9 units in standard subjects (Groups A through E). Eight units in standard subjects will be accepted provided one unit of senior high school agriculture is presented in Group F. Applicants who do not meet these requirements may be considered on the basis of testing and referral to college authorities.

2. Either 1 major and 2 minors or preferably 2 majors and 1 minor must be presented including :

A major or a minor in Group A, English

A major or a minor in Group D, Mathematics, *or* one unit in Group D provided the student registers in one of the following curricula: Technical Agriculture, Agricultural Education, Agricultural Extension, and Agricultural Business Administration, and takes Higher Algebra in the freshman or sophomore year in college.

One unit in Group E *or* one unit in senior high school agriculture.

**Forestry**—Applicants who are in the upper 25 per cent of their high school graduating class may be admitted regardless of subjects taken in high school. It is nevertheless recommended that such students select high school courses to conform as nearly as possible with requirements for other students listed below :

1. Other applicants for this college must be in the upper 75 per cent of their high school graduating class and must have completed at least 12 units in Grades X, XI, and XII (senior high school) including at least 9 units in standard subjects (Groups A through E). Applicants who do not meet these requirements may be considered on the basis of testing and referral to college authorities.

2. Either 1 major and 2 minors or preferably 2 majors and 1 minor must be presented including :

A major or a minor in Group A, English

A major or a minor in Group D, Mathematics

One unit in Group E

**Home Economics**—Applicants who are in the upper 25 per cent of their high school graduating class may be admitted regardless of subjects taken in high school. It

is nevertheless recommended that such students select high school courses to conform as nearly as possible with requirements for other students listed below.

1. Other applicants for this college must be in the upper 75 per cent of their high school graduating class and must have completed at least 12 units in Grades X, XI, and XII (senior high school) including at least 9 units in standard subjects (Groups A through E). Eight units in standard subjects will be accepted providing one unit of senior high school home economics is presented in Group F. Applicants who do not meet these requirements may be considered on the basis of testing and referral to college authorities.

2. Either 1 major and 2 minors or preferably 2 majors and 1 minor must be presented including:

A major or a minor in Group A, English

#### **College of Education—**

##### *Admission to Specialized Curricula:*

1. Applicants for admission as freshmen in one of the specialized curricula in Art Education, Industrial Education, Music Education, and Physical Education must possess a high school percentile rank of 25 or above in their graduating class.

2. Applicants for admission as freshmen in the curricula for Elementary Education, Nursery School, Kindergarten and Primary Education, and Recreational Leadership must possess a high school percentile rank of 40 or above in their graduating class.

3. Applicants for admission by certificate must meet the stated standards and must have completed 12 units in Grades X, XI, and XII (senior high school) including at least 9 units in standard subjects (Groups A through E). Either 1 major and 2 minors or preferably 2 majors must be presented, including:

A major in Group A, English.

##### *Admission to Academic Curricula:*

1. Applicants for teacher training in fields other than the ones mentioned above must meet requirements for admission to the College of Science, Literature, and the Arts where they will be registered during the first two years of the curriculum.

Applicants for admission to the College of Education who do not meet fully the stated requirements may be referred by the Office of Admissions and Records to the admissions committee of the college for consideration on an individual basis.

**General College**—There are no special requirements for admission to the General College. All graduates of accredited high schools who are residents of the state of Minnesota may be admitted without examination.

#### **School of Nursing—**

1. Applicants for the degree curriculum in professional nursing must meet the requirements for admission to the College of Science, Literature, and the Arts where they will be registered during the first five quarters of the curriculum.

2. Applicants for the certificate curriculum in practical nursing must meet the following requirements:

a. Age 18 to 35 years. Applicants over 35 years of age will be considered on an individual basis.

b. Applicants must be high school graduates.

c. Recommendation of high school principal or counselor. Applicants who have been out of school two years or more may submit recommendations from an employer or other suitable person.

d. Health. Applicants must pass a physical examination given by the University Students' Health Service.

**College of Pharmacy—**

1. Applicants for this college must have a college aptitude rating of 40 or better to be admitted unconditionally. Others will be given individual consideration and may be permitted to take special tests to qualify for admission. The college aptitude rating is the average of the student's rank in his high school graduating class and his rank on the college aptitude test. High school graduates in the upper 10 per cent of their class who have had 2 units of mathematics are admitted without examination.

2. At least 12 units must have been completed in Grades X, XI, and XII (senior high school) including at least 9 units in standard subjects (Groups A through E).

3. Either 1 major and 2 minors or preferably 2 majors and 1 minor must be presented including:

A major in Group A, English

A major or a minor in Group D, Mathematics, including one unit of algebra and one unit of plane geometry.

In order to maintain instruction at the necessary professional level, the existing educational emergency has made it imperative to restrict admissions to the sophomore year in the College of Pharmacy. Students interested in entering the sophomore year of this college the fall quarter, 1947, should apply for admission not later than May 15, 1947. Applications should be accompanied by an official transcript of the student's record up to the date upon which the application is filed.\* These applications will be reviewed subsequent to that date and those accepted will be notified on or before August 1. All applicants with honor point ratios of 1.5 (C+) or above, meeting all prerequisites will be assured of admission to the sophomore year. Those students with less than 1.5 (C+) will be considered individually. Those found ineligible will be notified as soon as possible after May 15 with the exception that all will be advised not later than August 1.

Students who will have completed only two quarters of work by the end of the spring quarter and who expect to complete their work in the 1947 Summer Session, should apply prior to May 15 for admission to the sophomore class beginning the fall quarter. In such cases final action upon their applications will be deferred pending examination of the quality of their summer session work.

Application forms for present pharmacy freshmen at the University of Minnesota may be obtained at the college office (WuH101). Other students in the University may obtain forms for change of college at Window 16, Office of Admissions and Records. Students enrolled under the joint registration plan or those requesting admission with advanced standing from other institutions may obtain the necessary application forms from the Office of Admissions and Records, University of Minnesota, Minneapolis 14.

**Course for Dental Hygienists—**

1. Applicants for this course must have a college aptitude rating of 40 or better to be admitted directly. The college aptitude rating is the average of the student's rank in his high school graduating class and his rank on the college aptitude test. Applicants are selected on the basis of scholarship, character, and general fitness. High school graduates in the upper 10 per cent of their class are admitted without examination.

2. At least 12 units must have been completed in Grades X, XI, and XII (senior high school) including at least 9 units in standard subjects (Groups A through E).

3. Either 1 major and 2 minors or preferably 2 majors and 1 minor must be presented including:

A major in Group A, English

\* A more complete official transcript may be requested following the receipt and review of the application.

## 3. ADMISSION WITH ADVANCED STANDING

Students who have completed one or more years of satisfactory work at another college or university of recognized standing may be admitted with advanced standing. Students who have completed less than a year of college work and those who present military service records as the only evidence of post-high school study, must meet the requirements for admission from high school, and must submit high school credits in addition to their official college transcripts or military service records.

Applications for advanced standing should be made, if possible, at least two months before the quarter for which admission is desired. Application blanks may be obtained from the Office of Admissions and Records.

Advanced standing is allowed to the extent that courses completed are acceptable in the curriculum and college entered. The certified record of courses taken in other institutions, including those in ASTP, V-12, and other Armed Forces College Training Programs must be on the official transcript blank of the institution concerned and should include, or be accompanied by, a statement of honorable dismissal from the institution last attended. Students who have attended more than one institution must submit an official transcript of record from each.

As of the present, and subject to change, credit may be allowed for educational achievement during military service as follows:

1. **Basic or boot training**—Upon receipt of certification (see under "Application for credit for educational achievement during military service," page 6) of completion of basic or boot training in the Armed Forces, credit will be allowed as follows provided such work does not duplicate courses already credited, and consistent with normal practices of the college entered.

Basic Military or Naval Science	6 credits
Physical Education	2 credits

2. **Advanced military training**—Students who present evidence of having attained a commission of flight officer, second lieutenant or higher, in the Army or Army Air Forces, will be allowed up to 18 credits in Advanced Military Science provided such work does not duplicate courses already credited.

3. **Formal service courses and schools**—Upon receipt of certification, academic credit as recommended by the American Council on Education, Guide to the Evaluation of Educational Experience in the Armed Services, will be allowed for Armed Services Formal Service Courses and Schools for enlisted men, officers, and officer candidates.

4. **U.S.A.F.I. correspondence courses**—Upon receipt of official certification from the Armed Forces Institute, Madison 3, Wisconsin, credit as recommended by the American Council on Education, Guide to the Evaluation of Educational Experience in the Armed Services, will be allowed for Armed Forces Institute college level correspondence courses on the basis of end-of-course test and/or subject examination.

5. **College or university correspondence courses**—Upon receipt of official transcript of record from the institution from which the correspondence course was taken (the procedure by which civilian course credit is transferred) credit will be allowed for college level correspondence courses taken from colleges and universities in co-operation with the Armed Forces Institute.

6. **Credit for ASTP, V-12, and other programs conducted on college campuses**—Upon receipt of official transcript of record from the institution where course was taken (the procedure by which civilian course credit is transferred) credit will be allowed on the same basis as approved for similar courses offered at the University of Minnesota. Credit will be allowed to the extent that work completed is applicable to the curriculum to be followed provided such work does not duplicate courses already credited.

7. **Credit for other educational experiences**—On the basis of General Educational Development Tests or through advanced standing examinations that may be taken on the campus with approval of the Advanced Standing Committee of the college concerned, credit will be allowed for other educational experience such as independent or group study, or information acquired through travel to the extent that it is demonstrated that the equivalent of courses, not already credited, has been completed.

Each application for admission to a senior professional school or college from a non-resident of Minnesota should be accompanied by a \$5 credential examination fee. Senior professional schools are Medical School, School of Dentistry, Law School, College of Education, except courses admitting freshmen, and School of Business Administration. Remittance should be in the form of check, bank draft, or money order, payable to the University of Minnesota. Please do not send cash.

Candidates wishing to gain advanced standing by examination are allowed examinations without charge, provided they are taken within six weeks after admission dates.

#### 4. ADMISSION IN ADULT SPECIAL STATUS

Persons of mature age and experience (generally 24 years of age or older) who desire a specific and limited course of study and who are not at present candidates for an undergraduate degree, may upon approval of the dean of the college concerned be admitted as adult special students. An adult special student may not become a candidate for a degree without the approval of the college concerned, nor will advanced standing be allowed while the student is in the adult special classification. This status is not intended to set aside residency requirements.

## II. Admission to the Graduate School

Any student with a Bachelor's degree or its equivalent from a recognized college or university may apply to the dean of the Graduate School for admission. An applicant of high scholastic record whose Bachelor's degree was granted by an institution on the list of colleges and universities approved by the Association of American Universities may be admitted, with the approval of the major department concerned, for graduate work involving a major in that department, provided that the department has the facilities necessary for the acceptance of additional graduate students.

College graduates who simply desire to take additional work of undergraduate character without a view to ultimate preparation for an advanced degree should not apply to the Graduate School but should seek admission in the college giving the work by communicating with the Office of Admissions and Records.

All inquiries concerning admission to the Graduate School should be addressed to the dean of that school. Applications for admission must be accompanied by official transcripts in duplicate of undergraduate work and single official transcripts of any graduate work that may have been taken. Applications should be sent to the dean of the Graduate School at least four weeks before matriculation. Later application may result in postponement of matriculation to a subsequent quarter.



## COURSES AND DEGREES

A full outline of each of the courses of study together with descriptions of the subject-matter courses which they include will be found in the announcement of the college or school in which the course of study is offered. These announcements may be obtained by addressing the Office of Admissions and Records, University of Minnesota, Minneapolis 14, Minnesota.

### Courses Open to Freshmen

#### COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

1. **The four-year course leading to the degree of bachelor of arts or bachelor of science**—Fields of specialization include: American Studies, Anthropology, Architecture, Area Studies, Astronomy, Bacteriology, Biostatistics, Botany, Chemistry, Classics, Economics, English, Fine Arts, Geography, Geology and Mineralogy, German, History, Humanities, Journalism, Linguistics and Comparative Philology, Library Training, Mathematics, Music, Philosophy, Physics, Physiology, Political Science, Psychology, Romance Languages, Sociology and Social Work, Speech, Speech Pathology, Public Health, Theological Training (preparation for), Zoology.

2. **Specialized curricula of five or more years**—The following specialized curricula are offered in the College of Science, Literature, and the Arts:

**Public Administration**—A six-year course leading to the degree of bachelor of arts or bachelor of science and the degree of master of arts in public administration.

**Diplomatic and Consular Service**—A five-year course leading to the degree of bachelor of arts and the degree of master of arts.

**Social Work**—A six-year course leading to the degree of bachelor of arts, a special certificate, and the degree of master of arts.

3. **Combined arts and professional courses**—

**Arts and Medicine**—An eight-year course leading to the degrees of bachelor of arts and doctor of medicine.

**Arts and Law**—A seven-year course leading to the degrees of bachelor of arts and bachelor of laws.

**Arts and Dentistry**—A seven-year course leading to the degrees of bachelor of arts and doctor of dental surgery.

**Arts and Dental Hygiene**—A four-year course leading to the degrees of graduate dental hygienist and bachelor of arts.

**Arts and Architecture**—A six-year course in Arts and Architecture leading to the degrees of bachelor of arts and bachelor of architecture.

4. **Preprofessional training**—In this college is given also the academic work required for admission to the Medical School, Law School, School of Dentistry, School of Business Administration, and College of Education; and also the courses preliminary to (1) nursing education and public health nursing in the College of Education and in the Medical School, and (2) training for medical technologists in the Medical School.

5. **A two-year course leading to the degree of associate in liberal arts**—This two-year course is (1) for those who know in advance that they will be in college for only two years; (2) for those who begin college as candidates for a degree in a four-year or longer course of study and find out later that they want formal recognition for the completion of a shorter course. The course of study is elective under certain broad

limitations. With the aid and approval of their adviser, students may choose their courses from the many subjects of study offered by the college to freshmen and sophomores. The only specific requirements are these: (1) normally the work must be completed in six or seven quarters of residence; (2) the student must meet requirements in English and in at least two of these three groups of subjects: foreign languages, social sciences, and natural sciences.

6. **The college welcomes students** who have definite intellectual interests but who do not expect to graduate or enter one of the professional schools. Such students may continue in college as long as they maintain a satisfactory standing in the studies they elect.

### INSTITUTE OF TECHNOLOGY

The Institute of Technology embraces the College of Engineering and Architecture, the School of Chemistry, and the School of Mines and Metallurgy.

The College of Engineering and Architecture offers professional courses of study in: Aeronautical, Civil, Electrical, and Mechanical Engineering; Engineering Prebusiness, Engineering and Business Administration, and Architecture. Agricultural Engineering is offered in co-operation with the College of Agriculture, Forestry, and Home Economics. The School of Chemistry offers professional courses of study in Chemistry, Chemical Engineering, and Physics; Chemistry or Chemical Engineering and Business Administration.

The School of Mines and Metallurgy offers professional courses of study in Mining Engineering, Geological Engineering, Petroleum Engineering, and Metallurgical Engineering.

**Five-year curricula**—All students entering the Institute of Technology for the first time after October, 1946, except veterans, are required to take one of the following five-year curricula:

(1) The five-year course in the various departments of engineering, including subjects in humanities, economics, and social sciences, leading to the degree of bachelor of engineering, or (2) the five-year combination of Engineering and Business Administration leading to the two degrees of bachelor of engineering and bachelor of business administration. Application for this course must be made by petition to the committee in charge within the first ten days of the third quarter of the freshman year. A minimum honor point ratio of 1.5 must be maintained in each field, that is, engineering and business, throughout the course. Or (3) The regular five-year course in Architecture leading to the degree of bachelor of architecture.

**Technical Aide Curriculum**—A two-year course leading to Technical Aide certificate to prepare individuals for subprofessional positions, as in drafting.

### COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS

The College of Agriculture, Forestry, and Home Economics offers (a) four-year courses in the fields of agriculture, forestry, and home economics, leading to the bachelor of science or equivalent degree, and (b) five-year curricula as follows:

**Agriculture**—Five-year curriculum (with College of Education) in Agricultural Education leading to the degree of master of education.

Five-year curriculum in Agricultural Technology leading to the degree of agricultural technologist.

**Forestry**—Five-year professional curricula in Forestry—Forest Management, Range Management; and Forestry—Wildlife Management leading to the degree of master of forestry.

**Home Economics**—Five-year curriculum (with College of Education) in Home Economics Education leading to the degree of master of education.

## ALL-COLLEGE

*Four-Year Curricula*

Food Technology

Fish and Wildlife Management

Science Specialization

## AGRICULTURE

*Four-Year Curricula*

Technical Agriculture

Agricultural Engineering

Pre-theological "major" in agriculture

Agricultural Business Administration

Agricultural Education

Agricultural Journalism

Agricultural Extension

Rural Education

*Five-Year Curricula***Agricultural Education**—leading to the degree of master of education**Agricultural Engineering Business Administration**—leading to the degrees of bachelor of agricultural engineering and bachelor of business administration**Agricultural Technology**—leading to the degree of agricultural technologist*One-Year Preprofessional Curriculum*

Pre-veterinary Medicine

## FORESTRY

*Four-Year Technological Curricula*

Lumber Merchandising and Construction

Wood Technology

*Five-Year Curricula*

Forestry—Forest Management

Forestry—Wildlife Management

Range Management

## HOME ECONOMICS

*Four-Year Curricula*

General Home Economics

Institution Management (cafeteria, tea room, restaurant)

Nutrition and Dietetics

Home Economics Education

Home Economics and Nursery School Education

Home Economics Extension

Home Economics in Business (foods; textiles and clothing; related art)

Preparation for Research in (a) Experimental Foods, (b) Nutrition, (c) Textiles and Clothing

*Five-Year Curriculum*

Home Economics Education—leading to the degree of master of education

## COLLEGE OF EDUCATION

The satisfactory completion of a four-year course as outlined in the College of Education Bulletin leads to the bachelor of science degree and to a certificate for school work from the Minnesota State Department of Education.

Some of the courses of study prepare the student for high school teaching in an academic subject, such as English, Latin, French, German, history, mathematics, and

Spanish, or in one of the special subjects such as agriculture, art, business education, home economics, industrial arts, physical education, health subjects, or music. Some courses of study are outlined not for a one-subject major but for a broad field of specialization, such as natural science, or social studies including history. Other courses of study entitle the graduate to the kindergarten-primary certificate, or to the elementary school or junior high school certificate, with preparation for positions in nursery schools, kindergartens, elementary schools, and junior high schools. There are also four- or five-year courses of study for school librarians, for teachers of handicapped children, for teachers of speech correction, and for those interested in public school health work, public health nursing, nursing education, or recreational leadership.

There are, in addition, five-year courses of study offered by the College of Education leading to the master of education degree in physical education for men, physical education for women, art education, music education, industrial education, home economics education, agricultural education, rural education, English education, natural sciences, and social studies.

### GENERAL COLLEGE

The General College is a new departure in education. Basically it provides a two-year curriculum of general education leading to the degree of associate in arts. A broad program of courses is available from which the individual student, under guidance, plans his own curriculum. General education aims essentially to produce well-rounded individuals who will be able to meet and understand the variety of common activities and problems encountered in the business of earning a living, as a member of a home and family group, as an individual consciously or unconsciously seeking numerous personal values, and as a citizen of a community, a state, a nation, and a world.

Altho the primary purpose of courses in the General College is to provide a broad and basic general education, some of the courses, in combination with those selected from other departments, provide a good preparation for certain occupational areas which do not necessarily require professional training.

The two-year degree, associate in arts, is granted upon the passing of four comprehensive examinations and the earning of 90 academic credits. Eligibility for transfer to other colleges is determined by the scope and quality of work done in the General College. The evaluation of credits accepted for transfer is in the hands of the college to which transfer is requested.

Provision is made for the counseling and guidance of individual students as this is needed in connection with personal, educational, or vocational problems. A carefully developed testing program aids in determining individual needs, interests, and abilities. The satisfaction of these, through a carefully planned program of courses and extra-curricular activities, is worked out with college counselors and program advisers. The counselors and instructors of the General College are available at all times to help students with their many problems and questions, in order that their university study may be made interesting, valuable, and meaningful.

### SCHOOL OF NURSING

**Basic Professional Curricula in Nursing**—Beginning with the spring quarter 1947, all students who wish to enroll in the basic professional curricula in nursing must have at least 75 credits of prenursing courses from an accredited college or university. For description of requirements, see page 22 under "Courses Not Open to Freshmen."

**Certificate Curriculum in Practical Nursing**—Because of the need for a group of workers in the field of nursing of less technical and prolonged preparation than is required for professional nursing, the University of Minnesota School of Nursing is offer-

ing a four-quarter program leading to a certificate in practical nursing. The purpose of the program is to prepare persons to give needed non-professional nursing service in general hospitals, both urban and rural, hospitals for the mentally ill and for the chronically ill, public health agencies and homes.

### COLLEGE OF PHARMACY

The College of Pharmacy offers one undergraduate course of four years' duration leading to the degree of bachelor of science in pharmacy. This course includes one year of work in certain subjects in the College of Science, Literature, and the Arts, or other colleges of equal standing.

### COURSE FOR DENTAL HYGIENISTS

The Course for Dental Hygienists is offered by the School of Dentistry. Admission is based upon the completion of a four-year high school course or its equivalent. It offers to young women a two-year university course leading to the degree of graduate dental hygienist.

### CREATIVE ARTS

Courses in the practical arts—painting, drawing, sculpture, architecture, industrial and related arts—as well as their history and theory are given by several different colleges of the University. These may be taken for general educational purposes to broaden the student's background and experience in the cultural fields, as well as for direct vocational preparation in one or more of these arts.

The professional training of architects is provided by various curricula in the School of Architecture. Practical studio courses for the training of creative artists may be had in the departments of Art Education, Drawing and Descriptive Geometry, General College, and the School of Architecture. Curricula for the training of teachers of art, design, and the handicrafts are provided by the Department of Art Education. Practical and theoretical work in the arts of the home—home furnishing, clothing and textiles—is offered by the Department of Home Economics. Curricula for the training of art students in museum and library work are available through the Department of Fine Arts.

### RADIO WORK

A student may undertake training for radio work at the University of Minnesota by any one of four main avenues (advisers in the several divisions offering radio courses will aid him in planning his program) :

1. By a major in the Department of Speech, College of Science, Literature, and the Arts, if he is interested principally in radio announcing, acting and production, radio speech, and the writing of dramatic scripts.
2. By a major in the School of Journalism, College of Science, Literature, and the Arts, if his interest is in the writing and presentation of radio news, radio advertising, radio script and continuity writing, or in radio salesmanship.
3. By a major in the College of Education if his interest is principally in the school use of radio.
4. By a major in the Institute of Technology if his interest is principally in radio engineering.

### SPEECH PATHOLOGY

Students interested in becoming speech correctionists in public schools, hospitals, or child guidance clinics will find the course of study outlined in the College of Education Bulletin. After four years of undergraduate study in Speech Pathology, the student re-

ceives a bachelor of science degree and a certificate in special education.

Graduate study leading to the degrees of master of science and doctor of philosophy in speech pathology is also offered in the Department of Speech.

Vocationally, this field offers excellent opportunities for professional work. Speech clinicians are always in demand.

## Courses Not Open to Freshmen

### MEDICAL SCHOOL

The Medical School offers four principal courses: one for physicians, one for nurses, one for public health nurses, and one for medical technologists.

**The Medical Course** proper leads to the degree of doctor of medicine, and the usual career of graduates is the practice of medicine.

Altho three years of college work constitute the minimum premedical preparation acceptable for admission to the Medical School, a physician should have a thoro and broad education. Hence, students are advised to take four years of college work before beginning the medical course. Other qualifications being approximately equal, the Admissions Committee will give preference to those applicants who have had the better educational background. (See Medical School Bulletin for details of entrance requirements and for suggestions for elective studies.) Four years in the Medical School and one year internship are required for the degree of doctor of medicine.

**Public Health Nursing**—Courses in public health nursing are conducted in the Medical School under the direction of the School of Public Health. Graduate nurses who are eligible and seniors in the five-year nursing course may secure the degree of bachelor of science with a major in public health nursing. Graduate courses in public health leading to a Master's degree are also available for qualified public health nurses. Students who are interested should ask the dean of admissions and records for application blanks and should direct special inquiry to the Director, Public Health Nursing Course, 121 Millard Hall, University of Minnesota, Minneapolis 14, Minnesota.

**The Course in Medical Technology** is a four-year course and leads to the degree of bachelor of science. The first two years are spent in the College of Science, Literature, and the Arts. At the beginning of the third year the student enrolls for the course in the Medical School and completes all theoretical work. The entire fourth year is spent in a practical rotating laboratory service in the University of Minnesota Hospitals and affiliated laboratories. An additional six months for training in X-ray technique may be elected by the student.

**The Course in Physical Therapy**—See special bulletin of the Division of Physical Therapy for the course outline of the four-year program for physical therapists.

**The Course in Applied Mortuary Science**—See the Bulletin of the Course in Applied Mortuary Science. Much of this course is given in the Medical School under the administration of the General Extension Division.

**Short courses for physicians** are offered throughout the year by the medical faculty and other specialists under the administration of the General Extension Division and the Center for Continuation Study.

### SCHOOL OF NURSING

Curricula offered by the School of Nursing include:

1. An eighteen-quarter course leading to degrees of bachelor of science and graduate in nursing. The first five quarters in this course may be spent in any approved college or university where the required biological science, social science, and cultural courses fundamental to nursing are available. The next ten quarters are spent in the School of Nursing

and the last three quarters in the College of Education (Nursing Education major) or the School of Public Health depending upon the student's objective. A list of the required prenursing courses may be found in the Bulletin of the School of Nursing.

2. A two and one-half year course for college graduates leading to the degree of graduate in nursing.

3. Curricula for graduate nurses. Advanced clinical courses for graduate nurses are offered in medical, surgical, pediatric, pediatric and communicable disease, obstetric, tuberculosis, operating room, rural and psychiatric nursing. The nine-quarter curricula in these fields lead to the degree of bachelor of science and the three-quarter curricula lead to certificates.

### SCHOOL OF BUSINESS ADMINISTRATION

The School of Business Administration offers a two-year course leading to the degree of bachelor of business administration. This course requires as a prerequisite the completion of two years of work in the College of Science, Literature, and the Arts, the Institute of Technology, or the College of Agriculture, Forestry, and Home Economics in which certain prebusiness courses are prescribed.

For those whose time is more limited, a certificate in business administration is available after three years of work in a prescribed curriculum in prebusiness and in the School of Business Administration.

In addition to the general course in business, several specialized sequences are offered. Among them are courses in Accounting, Advertising, Agricultural Business, Department Store Training, Finance, Foreign Trade, Industrial Administration, Industrial Management, Industrial Relations, Insurance, Merchandising, Office Management, Secretarial Training, and Traffic and Transportation.

Two special sequences in the fields of economics and statistics leading to the degree of bachelor of science in economics are offered in the School of Business Administration. These sequences aim to meet a demand for economic analysts and statisticians both in the government service and private industry.

Five-year combined courses in the Institute of Technology and the School of Business Administration are available for students preparing for administrative positions in industrial establishments that require technical training in both engineering and business. A student is enabled to obtain degrees in both engineering and business administration upon satisfactorily completing one of the five-year curricula as approved by the official advisers of the School of Business Administration and the Institute of Technology.

A five-year combined program in Pharmacy and Business Administration is available for students who are preparing for administrative positions in pharmaceutical or certain types of chemical plants. This course also affords training for those planning to enter a wholesale or retail pharmacy business.

A seven-year combined curriculum in Business Administration and Law offers training for several types of positions which require a knowledge of these two fields. These positions are found in certain types of law practice which involve appearance before governmental administrative boards and commissions and also in administrative positions in corporations which are subject to governmental regulation.

### SCHOOL OF DENTISTRY

The School of Dentistry offers two principal courses—a four-year course for dentists and a two-year course for dental hygienists.

The course in dentistry leads to the degree of doctor of dental surgery and prepares graduates to engage in the practice of dentistry. The minimum requirement for admission to the School of Dentistry is the successful completion of two full academic years of work

(90 quarter credits—60 semester credits), in an accredited college of liberal arts and sciences. The preidental courses in the Arts College must include one year's credit in each of the following subjects: English, Zoology, Physics, and Inorganic Chemistry, and one-half year's credit in Organic Chemistry. All courses in sciences must include both lecture and laboratory instruction.

After graduation a dentist secures a license to practice by passing the State Board Dental Examination required by the state in which he desires to locate.

## LAW SCHOOL

The Law School offers courses leading to the degree of bachelor of science in law and the degree of bachelor of laws.

The course for the degree of bachelor of science in law is two years. To be admitted as a candidate for this degree a student must have completed two years (90 quarter, 60 semester credits) of college work, with the requisite honor points (see Admission). The college work is elective. No foreign language is required. The prebusiness course in this University will satisfy the college requirement. The law work may be either the regular first two years of the professional course, or selected law work for those who wish training only for business purposes. The degree of bachelor of science in law is conferred upon those candidates who maintain an average of at least 70 in the work of each of the two years in the Law School. This degree does not qualify for admission to the bar, but students who have completed this course may go on to the bachelor of laws degree upon the conditions stated below.

The course for the degree of bachelor of laws—the professional degree required for practice—requires two additional years of study in the Law School. To be admitted as a candidate for this degree, a student must have completed the college work required for the degree of bachelor of science in law, *including*, except for students who have a college degree when they begin the study of law, *the subjects specified in the prelaw course* (see the Bulletin of the College of Science, Literature, and the Arts or the Bulletin of the Law School), or substitutes approved by the dean of the Law School, and must also have completed the two years of law work required for the degree of bachelor of science in law with an average of not less than 75 in one of these two years, or of not less than 73 for all the work of these two years combined. The additional two years of study are devoted to advanced courses in law, including practice, pleading, evidence, judicial administration, administrative law, jurisprudence, and legislation. About half of the work of these two years is prescribed; the remainder is elective. Students are permitted to take some work in other departments of the University. Advanced courses in political science and economics are especially recommended.

Students who have a bachelor of arts or equivalent degree when they enter the Law School may qualify for the bachelor of laws degree in three years.

## DIVISION OF LIBRARY INSTRUCTION

The Division of Library Instruction offers a full year of professional education in librarianship for college graduates and properly qualified students of senior standing, leading to the degrees of bachelor of science and bachelor of science in library science. Students electing work in the division are registered in the College of Science, Literature, and the Arts, the College of Education, or the University College, and certain courses are accepted for credit in the School of Business Administration and the College of Agriculture, Forestry, and Home Economics.



## UNIVERSITY COLLEGE

Any undergraduate student who is unable to find in any of the curricula of the colleges a program of study suited to his special intellectual interests or professional aims may, with the advice and approval of the University College Committee, arrange a course of study best adapted to his needs. Any course offered in the University may be drawn upon in making up such a program. The satisfactory completion of an approved curriculum entitles the student to the degree of bachelor of arts or bachelor of science.

Students who believe their needs are best served by registration in the University College should apply at the University College office in the Physics Building.

## GRADUATE SCHOOL

The Graduate School gathers into a single organization and unites for the purpose of administration all the activities of the University in all its schools and colleges in so far as they relate to advanced instruction offered for the second or higher degrees, namely, master of arts, master of science, master of business administration, electrical engineer, mechanical engineer, civil engineer, chemical engineer, and doctor of philosophy. For admission to the Graduate School, see page 16 of this bulletin.

Inquiries concerning graduate work should be addressed to the Dean of the Graduate School, University of Minnesota, Minneapolis 14, Minnesota.

## Other Study Opportunities of the University

## UNIVERSITY SUMMER SESSION

The University Summer Session is organized for two terms, one of six weeks and one of five weeks, from June to September, as a regular part of the University. Courses in the Colleges of Science, Literature, and the Arts, Agriculture, Forestry, and Home Economics, Education, the Institute of Technology, the Schools of Law, Medicine, Nursing, Dentistry, Business Administration, the Institute of Child Welfare, the Division of Library Instruction, and the Departments of Physical Education are offered.

Nonresidents should consult the Summer Session Bulletin relative to nonresidency restrictions.

## GENERAL EXTENSION DIVISION

The General Extension Division conducts late afternoon and evening extension classes in the Twin Cities, Duluth, and in some other communities for those who are employed during the usual working hours and are, therefore, not able to attend regular day classes. It also conducts correspondence study courses which are available to anyone no matter where he may live. These classes and correspondence study courses cover a wide range of subjects, representing the offerings of the various colleges, schools, and divisions of the University.

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.

The General Extension Division as a part of its services operates the Center for Continuation Study, a small, self-contained residence college unit in which are conducted short courses (mostly on a postgraduate level) for persons in professional fields.

The General Extension Division also provides a number of other educational facilities, such as: lectures by faculty members and others, lyceum courses, concerts and entertainments; it lends lantern slides and films for both entertainment and instruction; it maintains a Municipal Reference Bureau; it holds annual short courses in addition to those at the Center in a number of subjects including a year course for morticians; it gives advice to schools and other organizations on the selection and production of plays; and it administers the university radio broadcasting station for educational purposes.

For further information, address the General Extension Division, 402 Administration Building, University of Minnesota, Minneapolis 14, Minnesota.

### MILITARY SCIENCE AND TACTICS

Courses in Military Science and Tactics as given in the Reserve Officers Training Corps are divided into two sections: the Elementary Course of two years, which is open as an elective subject to any physically qualified male student who is a United States citizen, and the Advanced Course of two years, which is open to selected applicants who have completed the Elementary Course or who have completed over one year's active service in the Army, Navy, Marines, or Coast Guard. Students who have completed the Junior ROTC program of instruction may be exempted from the first year of the Elementary Course. At the completion of the Advanced Course, the student, if recommended by the professor of Military Science and Tactics and the president of the University, receives a commission in the Officers Reserve Corps.

The Elementary Course will consist of formal instruction for a minimum of three hours per week for a period of two academic years. The training given is general and is designed to give the student a background which will be of value to him in any branch of the service; the emphasis being placed on training in the responsibilities of citizenship and leadership. One credit per quarter is given which may be counted toward any degree offered by the University. Students are furnished a complete uniform (including overcoat) without charge to be worn during their period of enrolment.

The Advanced Course offers two years of training leading to a commission in a branch of the Officers Reserve Corps. The branches offered at the University of Minnesota are Anti-Aircraft Artillery, Signal Corps, Quartermaster Corps, Transportation Corps, Medical Corps, and Army Air Forces. The course consists of a minimum of five hours per week for two academic years plus a summer camp of eight weeks which normally comes at the end of the first year of the Advanced Course. Three credits per quarter are given which may be counted toward any degree offered by the University. Certain other emoluments accrue to students pursuing the course, chief of which are the payment of commutation of subsistence and the furnishing of a complete uniform. All benefits received from the course by veterans are in addition to any being received under the G.I. Bill of Rights.

Further information on Military Science and Tactics courses may be obtained from Room 106 in the Armory building.

### NAVAL SCIENCE AND TACTICS

Naval Science is a four-year course consisting of one hour of class three times per week, two hours of drill and requiring certain basic subjects to be included in the civilian curriculum of the student. Instead of supplying a pool of trained civilians available to serve their country in war, the present purpose is, in addition, to train career officers for

the regular Navy. The present-day Navy is too large to draw all of its officer personnel from the Naval Academy. It is hoped that half of the regular naval officers can be obtained from these NROTC units.

However, in pursuing this training, the student is given the maximum freedom of action in the academic field that is possible and still prepare him for duties as a naval officer. He is required to carry a minimum of one Naval Science course a quarter and to complete a one-year course in college physics and mathematics through trigonometry by the end of his sophomore year. Beyond these requirements he may select his course to suit himself and proceed toward a degree of his own choice. In so doing he will find Naval Science courses as acceptable elective courses in almost any field of academic endeavor.

The NROTC student, unlike the wartime Navy trainees, goes to college as a civilian and is not subject to the rigors of naval discipline except during Naval Science classes and drills. He may vary his Naval Science training to a limited extent and become eligible for a commission in the U. S. Marine Corps.

In general, each candidate for enrolment in the NROTC Unit at the University of Minnesota must meet the following requirements:

1. Must be enrolled as a collegiate student in good standing and attending the University of Minnesota.
2. Be an unmarried male citizen of the United States and agree to remain unmarried until commissioned or disenrolled.
3. Have attained his seventeenth birthday on or before September 1, 1946 and be of such age that he will not have attained his twenty-fifth birthday before July 1 of the year he will be commissioned (i.e., not over 21 on July 1 for initial enrolment at the beginning freshman level).

Note: The provisions of sub-paragraphs (2) and (3) above may be subject to modification in certain cases involving NROTC students in special categories.

4. Be morally qualified by character and personality to be a naval officer.
5. Be physically qualified in accordance with the current Manual of the Medical Department requirements for entrance into the Naval Academy.

As an enrollee in the NROTC, a student is given a four-year college education at Navy expense. This includes tuition, books, fees, and a living allowance at the rate of \$600 a year. Upon graduation he will be commissioned an officer in the United States Navy or Marine Corps and will serve on active duty for two years. Following this duty, he may elect to remain on active duty as a career officer, or accept a commission in the Organized Reserve and return to civilian life.

The same excellent opportunity is being offered to all qualified high school seniors and graduates between the ages of 17 and 21. A nationwide competitive examination will be given to select several thousand candidates for the 1948 classes. Those selected, and who meet the college entrance requirements, may attend one of 52 colleges and universities where NROTC Units are established. The nationwide competitive examination for the 1947 classes was given on January 18, 1947.

A student who is selected to participate in the NROTC program and who desires to receive the benefits accorded by this plan must agree to obligate himself to attend three cruises or summer training periods of from six to eight weeks; to accept a commission as ensign, USN, or second lieutenant, USMC, and to serve a minimum of 15 months on active duty after being commissioned.

Students may also elect to enroll under the prewar NROTC plan. Under this plan students are not obligated to go on active duty after graduation but must agree to make one summer practice cruise of approximately three weeks in length and to accept a commission in the Naval or the Marine Corps Reserve on graduation. They may, if they so desire and if vacancies exist, be commissioned after graduation as ensign, USN or second

lieutenant, USMC, and serve for not less than 15 months on active duty. They must pay their tuition and all other expenses the same as any other university student but will be issued textbooks for the naval science courses, and uniforms which will be worn only on special occasions. Juniors and seniors who have completed two years in the NROTC will be allowed commuted rations not to exceed the value prescribed by law for the Navy (currently 65 cents per day). Many individual students, however, will be entitled to financial support under the G.I. Bill.

Further information on Naval Science and Tactics courses may be obtained from the Naval Science Office in the University Armory.

## Regulations Governing Granting of Degrees

The Board of Regents will confer the degree appropriate to the course pursued under the following conditions:

1. **Curriculum requirements**—Certification by the university recorder of the completion of all requirements of the course of study as outlined in the college announcement, or its equivalent as determined by the faculty of the college offering the course.

2. **Recommendation of the faculty.**

3. **Residence requirement**—The student must earn at least one year's credit in residence in this University. If the term of residence is only one year, that year must be the senior year. In any case the student must spend two quarters of the senior year in residence. This last requirement may be waived under such rules as may be established by each college for such exemptions. In addition, special residence requirements must be met in several of the schools and colleges. Extension courses (not correspondence study courses) completed in Minneapolis, St. Paul, or Duluth may apply toward the residence requirement. Work done on the campus of the University of Minnesota in Armed Forces College Training Programs is considered residence credit.

4. **Payment or satisfactory arrangement of all financial obligations due the University.**

5. **Attendance at commencement**—A candidate for a degree is required to be present at the commencement exercises at which his degree is conferred provided the candidate's work is completed at the end of a quarter when such exercises are held.

A student who fails to attend shall not receive his diploma until the expiration of one year, unless in the meantime he attends commencement exercises or unless he is excused from such attendance by the dean of the college.

## EXPENSES

Whether his expenses are met partly by his parents or on the basis of his own earnings, every student will want to know his probable expenses while attending the University. Expenses vary greatly, depending on the type of course taken and the needs and tastes of the students. The following information can be presented only in averages and generalities. In planning his budget, each student should adapt the following information to his own situation.

### ESTIMATED AVERAGE EXPENSES FOR THE YEAR 1947-48 (Fall, Winter, and Spring Quarters)

	General, S., L., A., Education, Ag., F., & H. E., Pub. Health, Dent. Hy., Nursing†	Bus. Adm., I. of T., Grad.	Law, Med. Tech., Phys. Therapy, Library, X-ray Tech.	Den- tistry	Medi- cine	Phar- macy
Tuition .....	\$ 90.00	\$105.00	\$126.00	\$ 225.00	\$ 231.00	\$120.00
Incidental fee .....	31.95	31.95††	31.95	31.95	31.95	31.95
Matriculation deposit .....	5.00	5.00‡	5.00	5.00	5.00	5.00
Course fees .....	10.00	10.00	10.00	10.00	10.00	10.00
Laundry .....	90.00	90.00	90.00	90.00	90.00	90.00
Room rent .....	165.00	165.00	165.00	165.00	165.00	165.00
Board .....	385.00	385.00	385.00	385.00	385.00	385.00
Books and instruments .....	60.00	60.00††	60.00††	300.00*	265.00‡	60.00
<b>Total .....</b>	<b>\$836.95</b>	<b>\$851.95</b>	<b>\$872.95</b>	<b>\$1,211.95</b>	<b>\$1,182.95</b>	<b>\$866.95</b>

\* Of this amount \$235 is for instruments.

† These fees are those estimated for the practical course. Students in the first year of the basic professional course may estimate room rent and board at one third of the amounts listed as these items are furnished without charge after the first quarter in the School of Nursing. Fees for the advanced clinical courses are similar to those listed for Medical Technology.

‡ Matriculation deposit for the Graduate School is \$3.

§ This is the tuition charge for a resident of the state of Minnesota. For additional charges for nonresident tuition see nonresident fees, page 35.

† Of this amount \$175 is for a microscope.

†† Institute of Technology: incidental fee \$33.45, books \$90.

††† Books for Law School, \$90.

All above expenses are comparatively fixed and unavoidable; the real difference in the costs of a year at the University are to be found in the amounts expended for living. Living expenses include maintenance, laundry, clothes, recreation, and other incidentals. Some of these are not included in the above table because they are determined entirely by the individual's tastes and interests and the amount of his resources.

For students who do not live at home or with relatives, the major expense while attending the University will be for room and board; and here there is considerable variation. Out-of-town students live in university dormitories, co-operative cottages, sorority or fraternity houses, a small number in apartments, and the majority in rooming houses near the campus. A few rent rooms with housekeeping privileges and prepare their own meals. At present, rooming house rentals for double rooms average \$18 per month for each student while single rooms, somewhat more expensive, average \$20 per month. Students should select and will benefit by selecting rooms that have been inspected and approved by the University. The director of student housing will assist any student in finding suitable quarters.

## UNIVERSITY SERVICES TO STUDENTS

### PERSONNEL AIDS

In making adjustments to college life many students desire or need assistance with regard to finances, study habits, choice of a vocation, selection of subjects, health and social adjustments. It is obvious that one person may have several of these kinds of problems at the same time and that one kind of problem such as health, may be the cause of the others. Students who wish counsel on different personal problems or need direction to the proper service should go to the office of the dean of students, 213 Administration Building, or to the Student Counseling Bureau, 101 Eddy Hall.

### SPEECH CLINIC

Students desiring help in the correction of speech deviations should register in the Speech Clinic, located in 20 Shevlin Hall. Stuttering, sound substitutions, lispings, foreign accent, voice deviations, deafened speech, and oral inaccuracy are the various types of defects corrected by speech clinicians. Because speech defects are often a handicap to successful college life and also in some vocations, students are invited to seek clinical aid upon entrance to the University. A small fee is charged for these services. Left-handed students whose writing is awkward or lacking in correct slant may receive writing lessons in the clinic.

### STUDENTS' HEALTH SERVICE

Through the Students' Health Service the University makes available to students medical care, medical examinations, and health consultations. General service is provided free of charge, but for services which are specialized and individual in character, such as dentistry, X ray, board and laundry in the student hospital, outpatient calls, minor surgery, etc., special fees are charged. No student, however, will be denied service because of inability to pay these fees. Major surgical operations, or prolonged medical care ordinarily are secured through private physicians selected by the students or their families, but, if necessary, operations may be arranged through the Students' Health Service upon the established basis.

### CULTURAL AND RECREATIONAL FACILITIES

**University Library**—The Library Building on the Mall of the Main Campus houses a collection of well over a million volumes available for use. In addition there are more than 250,000 volumes in the Law Library, the Agriculture Library on the Agriculture Campus, in the branch libraries of Chemistry, Engineering, Mines and Metallurgy, of the Institute of Technology, the Geology Library, the University High School, and the smaller work collections in many important departmental offices where texts specifically applying to their work have been placed for greater convenience.

**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 always preceded by an organ recital. Both the organ recital and the convocation program are broadcast over KUOM.

**University Gallery**—The gallery is located on the third and fourth floors of Northrop Auditorium where new and varied exhibitions are presented for students as well as for the general public.

The University's permanent collection of art works is shown in classrooms, offices, and corridors on the campus.

In Room 308 current art magazines, books on various art subjects, and pictorial material are available to those who wish to use them there.

In Room 306, the student-framed print collections of fine reproductions are available for rental at the beginning of each quarter, twenty-five cents per picture per quarter.

**Music**—The University is proud to be the home of the Minneapolis Symphony Orchestra of which Mr. Dimitri Mitropoulos is the conductor. Regular concerts are held throughout the college year. The office of the Symphony Orchestra is in Room 110 Northrop Memorial Auditorium.

The University regularly brings to the campus internationally known artists for independent concerts including a regular series, known as the University Artists Course. Season tickets may be purchased for this series of concerts at an exceptionally reasonable price. The office is located in Room 109 Northrop Memorial Auditorium.

The Department of Music maintains a large student band with both concert and marching divisions composed of students with either a professional or recreational interest in band membership. The University Band office is in Room 12 Northrop Memorial Auditorium.

The Department of Music has organized and directs a student symphony orchestra for those students interested in orchestral experience. The Student Symphony office is in Room 107 Music Building.

The Department of Music also maintains a large mixed chorus which gives public performances each year. The more proficient sections of the chorus present additional short programs at frequent intervals. The office of the University Chorus is in Room 107 Music Building.

**Theater**—The University Theater is operated through the Department of Speech. Participation is open to all students interested in dramatics. Each school year a number of selected stage plays are presented. The University Theater office is in Room 232 Northrop Auditorium, the ticket office is in Room 110 Music Building.

At weekly intervals throughout the college year the best visual information on current events is presented by the University Newsreel Theater in the Ballroom, Coffman Memorial Union.

**Museums**—In the Minnesota Museum of Natural History, at 17th and University Avenues Southeast, university students and the general public have available habitat exhibits of natural history materials comparing favorably with those in the larger American museums. Extensive study collections in various fields are also accessible to qualified persons.

Elsewhere on the campus are numerous exhibits and collections under the direction of the respective department heads available for examination by both public and students. These collections include rare books in the University Library and displays of scientific and technical interest located in the various departments.

**Physical education, athletics, and sports**—A wide program of sports, dance, aquatics, conditioning exercises, gymnastics, and recreational activities has its headquarters in the Norris Gymnasium for Women. The instructional program is based upon an activity guidance plan in which each woman student is helped to plan her own activity program in terms of her interests, needs, and health status. The Women's Athletic Association, which is open to all registered women students, is a student-run organization under the sponsorship of the Department of Physical Education for Women. The program offers a wide

variety of recreational activities, individual and team sports, including an extensive intramural schedule, and an opportunity for club participation in such activities as aquatics, dancing, tennis and riding where special skill is a basis for membership. Facilities and equipment are available for use every afternoon and certain evenings. Expert leadership is provided for this voluntary participation program.

An extensive plan of physical education and athletics is available for men students. In addition to the regular varsity sports scheduled each year, a broad program of intramural athletics is carried on. Cooke Hall, the Memorial Stadium, and the Field House are occupied by these activities. Besides the several gymnasiums there are two swimming pools, numerous handball and squash courts, as well as the large indoor playing space of the Field House. The outdoor playing fields, the 18-hole university golf course, and tennis courts are under the direction of this department.

**General social program**—The center of much of the student social program is in the Coffman Memorial Union where an active and varied social program under the direction of a full-time social consultant is always in progress. The Union building has numerous meeting rooms for student groups, general lounges, two ballrooms, billiard and pool tables, as well as a 16-lane bowling alley. The Farm Union, located on the Agriculture Campus, offers similar activities for students on that campus.

**Student Activities Bureau**—The University recognizes student activities and organizations as an integral part of its total educational program. The aim of student activities is to give participants experiences which yield: stimulation of interest in current social, political, economic, cultural or religious issues and problems; experience in living and working in group projects with individuals of different races, creeds, and cultural backgrounds; intellectual development in fields related to classroom experiences; development of professional ideals and standards through activities of a professional type; practice in recognizing and exercising the responsibilities of citizenship; development of personal and professional friendships and associations; development of capacities for leadership in group enterprises; and recreational experiences within the cultural environment of the University.

In order to attain these objectives, students have established organizations which carry out programs of a social or professional nature. The Student Activities Bureau exists to aid new groups in organizing on a sound basis, to supervise and guide student groups in matters of program and finance, and to counsel individual students regarding the choice of extra-curricular activities and organizations. Information regarding campus extra-curricular life may be secured from the Student Activities Bureau, 209 Eddy Hall.

### FINANCIAL AIDS

**Student employment**—Any student who needs to earn money to help finance his educational program should report to Room 17 Administration Building, where the Employment Bureau maintains a file of available part-time jobs on the University Campus and in the Twin Cities. All students must apply in person before being considered for any vacancy. Upon arrival at the University, the student should report to the Employment Bureau to file his application as to his need, work experience, work preference, course of training selected, class schedule, and other related information. In order to remain active these applications must, at all times, be kept up to date with such necessary information as post-office box, local address, and class schedule.

**Student loans**—The University of Minnesota has numerous loan funds. They are restricted in their distribution to individuals meeting certain requirements. A loan usually cannot be obtained before two quarters of attendance at the University, during which time the student will have the opportunity to demonstrate his ability and integrity. The only security for the loans made to students is the character of the applicant and



his ability to do college work. Application for loans may be made to the Bureau of Student Loans and Scholarships, 211 Eddy Hall, a department under the office of the dean of students.

**Merit awards for students**—Merit awards giving financial assistance for the undergraduate comprise scholarships and prizes which are usually cash awards allowed in recognition of outstanding scholastic achievement or ability. There are very few scholarships available to beginning freshmen in the University; the majority are restricted to students in the junior and senior years. In addition to cash prizes there are a number of trophies and medals awarded each year to the winners in competitions or in recognition of some unusual achievement. Application for merit awards may be made to the offices of the deans of the colleges and the Bureau of Student Loans and Scholarships.

**Assistantships and fellowships**—A number of assistantships and fellowships are provided for selected graduate students in the different departments. For information, inquiry may be made to the Bureau of Loans and Scholarships, to the Employment Bureau, or to the dean of the Graduate School or the dean of the college concerned.

**Special financial aids**—Under state law, "Any resident who has graduated from the School for the Blind upon compliance with all other requirements shall be entitled to pursue any course of study in the State University without expense for tuition." The Board of Regents of the University has in addition authorized the admission without tuition of blind students who are residents of the states of Minnesota and North Dakota for instruction in courses which they are qualified to receive. Such students, however, are required to pay incidental and special course fees in the same way as other students.

Certain funds are available for the rehabilitation of disabled persons through the State Department of Education, Division of Vocational Rehabilitation. Application for aid should be submitted to the Division of Vocational Rehabilitation, State Office Building, St. Paul 1, Minnesota.

## HOUSING FACILITIES

The University of Minnesota maintains or supervises a variety of housing and eating facilities for out-of-town students. Further information other than that supplied here may be obtained by writing to the Director of the Student Housing Bureau, Room 202, Eddy Hall.

All students while enrolled in the University must abide by certain housing regulations which should be clearly understood before room commitments are made.

### Housing Regulations—

1. All rooms are engaged for a complete quarter unless otherwise specifically arranged with the householder. Payments are to be made on the first, fourth, and seventh week of the quarter. A copy of any special arrangements, other than quarterly, should be filed with the director of the Student Housing Bureau.

2. Students, whether graduate or undergraduate, while attending the University must have their places of residence approved by the director of the Student Housing Bureau. This includes all apartments, rooms in private dwellings, rooming houses, and other residences.

3. The director of the Student Housing Bureau must be informed of every change of address.

4. To reserve a room, each student shall pay a breakage and deposit fee of ten dollars to the householder. This may be applied against the final rent installment or returned at the end of the quarterly residence period. This payment should be acknowledged by a receipt.

5. Each student is expected to assume responsibility for keeping his living quarters in reasonable order.

6. Students planning to change residence at the end of the quarter are required to give the householder ten days' notice.

7. Women are expected to follow the hours regulations established by the Senate Committee on Student Affairs. They may entertain callers in suitable rooms in their residences until eleven o'clock on week nights and until twelve o'clock on Friday and Saturday nights and nights preceding university holidays. If they attend a social function away from the residence, they must return not later than twelve o'clock during the week and not later than two o'clock on Friday and Saturday nights and nights preceding university holidays.

8. Men and women students may not room in the same dwelling unit.

9. Controversies pertaining to housing which cannot be satisfactorily settled between the student and householder, should be referred to the Student Housing Bureau.

**Fraternalities and sororities**—Students expecting to pledge fraternities or sororities should remember that rooms are engaged for a complete quarter. They may not move to a fraternity or a sorority house if a previous room commitment exists. If you are planning to pledge during your first quarter in residence, stay with friends or relatives during the rushing period, or select a rooming house where contracts are made on a quarterly basis. After a quarter of residence you will then be free to move to your fraternity or sorority house.

Information on rush week, pledging, and finance may be obtained at the Student Activities Bureau, Room 209 Eddy Hall.

**Housing for men**—Pioneer Hall, the men's dormitory, supplies room, board, and social program. Veterans and Minnesota residents are given preferential treatment. Emergency barracks-style buildings are available at a minimal cost. Rooms in approved private dwellings are available for men residents. These must meet the standards set by the University.

Information on individual house ratings and those rooming houses also serving board may be obtained from the Student Housing Bureau. Advance reservations cannot be made in rooming houses. Each student should see the available vacancies registered with the Housing Bureau for himself.

In some instances it is possible to exchange services for room, or room and board.

**Housing for women**—Comstock Hall, Sanford Hall, Meredith Hall, and the Cooperative Cottages are university owned and operated dormitories. Preferential treatment is given all applicants who are Minnesota residents. In addition to these facilities maintained by the University, there are numerous private rooming houses for women students. All of these are inspected and must meet minimum standards of operation set by the University.

It is inadvisable to make reservations for a room in a private dwelling before seeing the room. Several of the available vacancies should be seen before definite commitments are made.

**Housing for married students**—Vacancies occurring in housekeeping rooms and sleeping rooms are registered with the Student Housing Bureau. A list of private apartment dwellings housing married students may be obtained in Room 202 Eddy Hall. In addition, the University operates an emergency housing project (trailers, quonset huts, prefabricated houses) for married veterans located between the Main and the Farm Campuses. Space is limited and priority is given to Minnesota veterans. Application should be made to the Como Avenue Housing Project, Room 3, Administration Building.

**Dining facilities**—Comstock Hall, Sanford Hall, Pioneer Hall, fraternities and sororities, and the Cooperative Cottages serve meals only to those students who reside there. Some rooming houses offer board. In addition there are a number of restaurants near each campus, and on the Main Campus meals are served at Coffman Memorial Union every day except Sunday.

## UNIVERSITY FEES

**All University fees are subject to modification without notice**

The university year, extending from October to June is divided into three terms called quarters. On the specific dates (see Calendar, pp. 4-5) prior to the opening of each quarter, the following fees are due from each student: (a) tuition, (b) incidental, and (c) such special fees and deposits as may be required.

### TUITION FEES

School or College†	Quarter Fee		Credit Hour Fee*	
	Resident	Nonresident	Resident	Nonresident
General College .....	\$30.00	\$ 75.00	\$2.50	\$ 6.25
Science, Literature, and the Arts .....	30.00	75.00	2.50	6.25
Agriculture, Forestry, and Home Economics .....	30.00	75.00	2.50	6.25
Public Health .....	30.00	75.00	2.50	6.25
Education .....	30.00	75.00	2.50	6.25
Graduate School‡‡ .....	35.00	75.00	3.00	6.25
Institute of Technology .....	35.00	75.00	3.00	6.25
Law School and Graduate Work .....	42.00	90.00	3.50	7.50
Medical School and Clinical Graduate Work .....	77.00	150.00	6.50	12.50
Medical and X-ray Technology .....	42.00	90.00	3.50	7.50
Physical and Occupational Therapy .....	42.00	90.00	3.50	7.50
Dentistry and Graduate Work .....	75.00	120.00	6.25	10.00
Dental Hygiene .....	30.00	75.00	2.50	6.25
Pharmacy and Graduate Work .....	40.00	85.00	3.50	7.25
Business Administration .....	35.00	75.00	3.00	6.25
Library Instruction .....	42.00	75.00	3.50	6.25
University College .....	Tuition of college in which work is taken			
Nursing, Basic and Practical .....	30.00	75.00	2.50	6.25
Advanced Clinical .....	42.00	90.00	3.50	7.50
Mortuary Science .....	50.00	90.00	4.25	7.50

### INCIDENTAL FEE

An incidental fee of \$10.65 a quarter is charged each student for privileges such as those of the Coffman Memorial Union, the Health Service, the Speech Clinic, the Student Counseling Bureau, the *Minnesota Daily*, including the Official Daily Bulletin and the university post-office service. Students in the Institute of Technology pay \$11.15 per quarter and receive the *Minnesota Technologist* in addition.

All students who are registered for five credits or more in any quarter are required to pay the incidental fee; while students who are registered for less than five credits in any quarter are not charged nor permitted to pay this fee.

\* Students carrying less than the complete schedule of work may pay fees on a credit hour basis.

† All fellows, scholars, assistants, instructors, research associates, and members of the teaching staff and scientific bureaus and experiment stations giving 25 per cent or more of full-time service when regularly enrolled as students in the Graduate School or in the final year of the Master's degree (including agricultural technologist degree) curricula in undergraduate colleges are not required to pay tuition fees. This does not apply to commercial fellowships.

‡‡ Tuition of \$5 per quarter is charged graduate students who have completed all course work and who are registered for thesis work only. Fees for graduate work in Clinical Medicine, Law, Dentistry, and Pharmacy are those charged respectively for undergraduate work.

## MATRICULATION DEPOSIT

At the student's first registration at the University a matriculation deposit of five dollars (\$5) is required to cover locker rental, locker key deposit, laboratory breakages, drawing board rental (Architecture), military equipment (men), library fines, or damage to university property.

The matriculation deposit required of students registered in the Graduate School is three dollars (\$3).

The unused balance of the deposit fee will be returned *by mail* upon cancellation or automatically after the beginning of the first quarter the student fails to return. If, at any time, the charges against a student shall warrant a renewal of the deposit, an additional fee of five dollars (\$5) will be required.

## SPECIAL FEES

<b>Credential fee</b> —required of nonresidents applying for admission to Law, Medicine, Dentistry, Education (Senior College), and Business Administration.....	\$5.00
<b>Course fees</b> —for individual courses. The amounts are specified in the course announcements in the college bulletins.	
<b>Chemistry deposits</b> —A laboratory deposit of five dollars (\$5) is required of students registered for courses in chemistry and agriculture biochemistry to cover the cost of materials. The unused balance will be credited to the student's matriculation deposit at the end of the course.	
<b>Microscope rental fee</b> —	
For partial use of microscope .....	\$3.00 per qtr.
For continuous possession and use .....	6.00 per qtr.
<b>Special examination</b> .....	5.00
<b>Advanced standing examination*</b> .....	5.00
(No fee for such examination on first entering the University, if taken within the first six weeks)	
<b>Large diploma fee</b> —Any graduate may receive the large diploma on payment of the special fee of .....	5.00
<b>Duplicate diploma fee</b> (if original has been lost or destroyed)	
Large duplicate diploma fee .....	7.50
Small duplicate diploma fee .....	5.00
<b>Record service fee</b> —50 cents, deducted from each student's deposit account upon refund, for which record certification service is furnished including three copies of record. Additional copies of records .....	0.50
<b>Graduation fee</b> —	
Graduate School .....	10.00
Other schools and colleges .....	7.50
<b>Placement service fee</b> —required of candidates for degrees from: Institute of Technology .....	10.00
College of Education .....	4.50
<b>Privilege fees</b> —The fee for the privilege of late registration, or late payment of fees is \$2 through the third day of classes; on the fourth day the fee is \$2.50 and then increases 50 cents per day to a maximum of \$5. The fee for late change of registration is \$2.	
<b>Students of one college taking work in another</b> —Where a student of a given college or school elects courses in another, such courses being accepted by the college in	

\* Such an examination may be taken only upon approval of the appropriate committee.

which the student is registered as a part of its curriculum, the tuition shall be that of the college in which he is registered.‡

If, at any time, such student desires credit for this course towards the degree offered by the second college, he shall pay such additional tuition as is required by the second college, charged in accordance with the schedule indicated on page 35.

This is not to be interpreted as applying to students in such combination courses as Arts and Medicine, Arts and Dentistry, Arts and Business, etc., provided such students pay regular quarter fees for the full period of residence in the higher fee college.

### REFUNDS

**Tuition**—Students who cancel their registration before the close of any quarter are entitled to refunds of the tuition fee on the following basis:

After Quarter Opens	Percentage of Refund
No attendance .....	100
One day to one week .....	90
One week to two weeks .....	80
Two weeks to three weeks .....	70
Three weeks to four weeks .....	60
Four weeks to five weeks .....	50
Five weeks to six weeks .....	40

No student who has been in attendance more than six weeks shall receive any refund of tuition.

**Locker rental**—Full rental fee for lockers may be refunded during the first two weeks of a quarter. After that time no reduction is made.

**Incidental fee**—Students in any college of the University, with the exception of the Institute of Technology, who cancel their registration before the end of the quarter, are entitled to a refund of the incidental fee on the same basis as the refund for tuition, except that in no case will more than \$8.15 of the incidental fee be refunded. Students in the Institute of Technology will receive refunds of the incidental fee on the same basis, except that the extra fifty cents of the incidental fee in the institute will be entirely refunded during the first two weeks of the quarter, and none of the extra fifty cents will be refunded after the second week of the quarter.

### NONRESIDENT STUDENTS

The following rules regarding fees of nonresident students, applicable to both men and women, have been approved by the University:

1. No student shall be admitted to the University on a resident basis unless he has been a bona fide domiciliary of the state for at least a year prior to admission. This requirement shall not prejudice the right of a student admitted on a nonresident basis to be placed thereafter on a resident basis provided he acquired a bona fide domicile of a year's duration within the state in the meantime. The fact alone of attendance at the University neither constitutes nor necessarily precludes the acquisition of such a domicile.

2. The responsibility of registering under proper residence classification is placed on the student, and it is the duty of each student at registration if there be any possible question of his right to residence fees, under the rules of the Board of Regents, to raise the question with the dean of admissions and records. This should be done by a written statement of the facts on form A265 of the Office of Admissions and Records.

Persons interested in the rules under which consideration may be given to nonresidents of Minnesota applying for admission to the University are referred to the section of this bulletin entitled "Admission."

‡ A student paying full fees in a given college, electing courses in a lower fee college, shall pay no additional fees for the work so elected, but if electing in a higher fee college, may have the option of paying the pro rata fees for both or the full-time fees of the first and pro rata fees of the second.

## ACCREDITED MINNESOTA PUBLIC SECONDARY SCHOOLS

For a list of accredited Minnesota public secondary schools see the *Minnesota Educational Directory* prepared by the State Department of Education, 301 State Office Bldg., St. Paul 1.

## ACCREDITED MINNESOTA PRIVATE SECONDARY SCHOOLS

Corrected to February 17, 1947

Austin St. Augustine High School	Minneapolis—Continued Minnehaha Academy
Bird Island St. Mary's High School	Northrop Collegiate School
Caledonia Loretto High School	St. Anthony High School
Chaska Guardian Angel High School	St. Margaret's Academy
Cold Springs St. Boniface High School	University High School
Collegeville St. John's High School	New Ulm Holy Trinity High School
Crookston Cathedral High School	Owatonna Pillsbury Academy
Mt. St. Benedict	Rochester Lourdes High School
St. Joseph's Academy	Rollingstone Holy Trinity High School
Duluth Cathedral High School	St. Cloud Cathedral High School
Stanbrook Hall	St. Joseph Convent of St. Benedict
Faribault Bethlehem Academy	St. Paul Academy of Concordia College
St. Mary's Hall	Breck School
Shattuck Military Academy	College of St. Catherine (Derham Hall)
Fergus Falls Lutheran Bible School	Cretin High School
Frontenac Villa Maria Academy	Nazareth Hall
Graceville St. Mary's Academy	St. Agnes High School
Lake City Mary E. McCahill Institute	St. Joseph Academy
Little Falls St. Francis High School	St. Paul Academy
Mankato Bethany Lutheran College	St. Thomas Military Academy
High School	Summit School
Good Counsel Academy	Visitation Convent
Loyola High School	Sleepy Eye St. Mary's High School
Minneapolis Academy of the Holy Angels	Wabasha St. Felix High School
Blake School	Waseca Sacred Heart High School
De LaSalle High School	Winona Cotter High School
	St. Thomas Cathedral High School
	Winsted Holy Trinity High School

## ACCREDITED MINNESOTA COLLEGES

Corrected to February 17, 1947

### 1. Four-year colleges

Augsburg College, Minneapolis  
Carleton College, Northfield  
College of St. Benedict, St. Joseph  
College of St. Catherine, St. Paul  
College of St. Scholastica, Duluth  
College of Saint Teresa, Winona  
Concordia College, Moorhead  
Gustavus Adolphus College, St. Peter  
Hamline University, St. Paul  
Macalester College, St. Paul  
St. Johns University, Collegeville  
St. Mary's College, Winona  
St. Olaf College, Northfield  
St. Thomas College, St. Paul

### 2. Minnesota teachers colleges

Bemidji Teachers College  
Duluth State Teachers College  
Mankato State Teachers College  
Miss Woods' Kindergarten—Primary Training School<sup>1</sup>

### Minnesota Teachers Colleges—Continued

Moorhead State Teachers College  
St. Cloud State Teachers College  
St. Paul Diocesan Teachers College  
Winona State Teachers College

### 3. Junior colleges

Austin Junior College  
Bethany Lutheran College, Mankato  
Bethel Institute, St. Paul  
Brainerd Junior College  
Concordia College, St. Paul  
Crosby-Ironton Junior College  
Duluth Junior College  
Ely Junior College  
Eveleth Junior College  
Hibbing Junior College  
Itasca Junior College, Coleraine  
Rochester Junior College  
Virginia Junior College  
Worthington Junior College

<sup>1</sup> Graduates will be admitted to the College of Education with 60 blanket credits provided they meet the standards for admission required of freshmen in the College of Science, Literature, and the Arts.

# The Bulletin of the UNIVERSITY of MINNESOTA

## Combined Class Schedule for 1947-1948

*Room assignments listed are for fall quarter only. Room assignments for winter and spring quarters will be announced in a supplementary schedule.*

One copy of this schedule is issued without charge to each student in Science, Literature, and the Arts; Education; Agriculture, Forestry, and Home Economics; Business Administration; University College; Public Health Nursing; and Graduate School. Additional copies may be purchased at the University of Minnesota Bookstores, Nicholson Hall and 17 Engineering Building.

Price: 35 cents

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July 17, 1947

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## CONTENTS

	Page
University Calendar .....	3
Administrative offices .....	5
Explanations .....	6
Library Instruction .....	9
Military Science and Tactics .....	11
Naval Science and Tactics .....	11
Physical Education for Men .....	12
Physical Education for Women .....	13
College of Science, Literature, and the Arts .....	17
College of Education .....	105
College of Agriculture, Forestry, and Home Economics .....	133
School of Business Administration .....	162
Index .....	176



## UNIVERSITY CALENDAR, 1947-48

1947

### *Fall Quarter*

August 1 - September 26			Entrance Tests. <sup>1</sup> Fall Registration <sup>2</sup> : Dates for the various colleges will be announced in the press and in mailed instructions. Students who can do so are urged to register early. It is expected that all students who can do so will register before September 1
September	15	Monday	Extension registration, first semester, begins
September	18	Thursday	Fall quarter fees due for students registered through September 11
September	22-26		New student week; program of orientation. Details will be announced in instructions issued at registration. All new students are expected to attend
September	26	Friday	Last day for registration <sup>2</sup> and payment of fees for the undergraduate colleges
September	27	Saturday	Last day for extension registration
September	29	Monday	Fall quarter classes begin 8:00 a.m. <sup>3</sup> First semester extension classes begin <sup>4</sup>
October	2	Thursday	Opening convocation, 11:00 a.m.
October	3	Friday	Last day for registration and payment of fees for the Graduate School and for teachers in service
October	13	Monday	(Sunday, October 12, Columbus Day); holiday (except extension)
November	1	Saturday	Dads Day
November	8	Saturday	Homecoming Day
November	11	Tuesday	Armistice Day; holiday (except extension)
November	13	Thursday	Senate meeting, 4:00 p.m.
November	27	Thursday	Thanksgiving Day; holiday
December 12-13 and 15-18			Final examination period
December	18	Thursday	Fall quarter ends 6:00 p.m. <sup>5</sup> ; Commencement, 8:00 p.m.

### *Winter Quarter*

December	26	Friday	Winter quarter fees due for students in residence fall quarter in undergraduate colleges
1948			
January	2, 5	Friday, Monday	Entrance tests. <sup>1</sup> Registration <sup>2</sup> for new students not already registered. Registration and payment of fees for new students in all undergraduate colleges closes
January	5	Monday	Winter quarter classes begin 8:00 a.m. <sup>3</sup> Extension classes resume
January	9	Friday	Last day for registration and payment of fees for the Graduate School, and for teachers in service
January	26	Monday	Second semester extension registration begins
February	6	Friday	First semester extension classes close
February	7	Saturday	Last day for extension registration
February	9	Monday	Second semester extension classes begin <sup>4</sup>

See page 4 for footnotes.

February	12	Thursday	Lincoln's Birthday; holiday (except extension)
February	19	Thursday	Charter Day Convocation, 11:00 a.m.; Senate meeting, 4:00 p.m.
February	23	Monday	(Sunday, February 22, Washington's Birthday); holiday (except extension)
March 12-13 and 15-18			Final examination period
March	18	Thursday	Spring quarter fees due for students in residence winter quarter in undergraduate colleges. Winter quarter ends 6:00 p.m.; Commencement, 8:00 p.m.

*Spring Quarter*

March	26	Friday	Good Friday; holiday (except extension)
March	29	Monday	Entrance tests <sup>1</sup> ; Registration <sup>2</sup> for new students not already registered
			Registration and payment of fees for new students in all undergraduate colleges closes
March	29	Monday	Spring quarter classes begin 8:00 a.m. <sup>3</sup>
April	2	Friday	Last day for registration and payment of fees for the Graduate School, and for teachers in service
May	8	Saturday	Mothers Day
May	13	Thursday	Cap and Gown Day Convocation, 11:00 a.m.; Senate meeting, 4:00 p.m.
May	31	Monday	(Sunday, May 30, Memorial Day); holiday (except extension)
June	4	Friday	Second semester extension classes close
June	6	Sunday	Baccalaureate service
June	7-12		Final examination period
June	12	Saturday	Spring quarter ends 6:00 p.m.; Seventy-sixth annual commencement, 8:00 p.m.

*Summer Session*

June	14, 15	Monday, Tuesday	Registration <sup>2</sup> for new students not already registered. First term fees due for students in all colleges
June	16	Wednesday	First term Summer Session classes begin 8:00 a.m. <sup>3</sup>
July	5	Monday	(Sunday, July 4, Independence Day); holiday
July	22	Thursday	First term commencement, 8:00 p.m.
July	23	Friday	First term closes
July	26	Monday	Registration <sup>2</sup> for new students not already registered. Second term fees due for students in all colleges
July	27	Tuesday	Second term classes begin 8:00 a.m. <sup>3</sup>
August	26	Thursday	Second term commencement, 8:00 p.m.
August	28	Saturday	Second term closes

<sup>1</sup> Applicants are urged to take entrance tests one to two months in advance of the quarter for which admission is desired. Tests may be taken at the Student Counseling Bureau, 101 Eddy Hall.

<sup>2</sup> Registration subsequent to the date specified will necessitate the approval of the college concerned. See privilege fees for late registration or late payment of fees, page 36 in *General Information Bulletin*.

<sup>3</sup> First hour classes begin at 7:45 a.m. at University Farm.

<sup>4</sup> This date does not refer to correspondence study courses, which may be started at any time during the year.

\* Extension classes end Friday, December 19, and resume Monday, January 5.

## ADMINISTRATIVE OFFICES

### ADMINISTRATION

James Lewis Morrill, B.A., LL.D., President .....	Adm202
Malcolm M. Willey, Ph.D., L.H.D., Vice President, Academic Administration .....	Adm202
William T. Middlebrook, B.A., M.C.S., Vice President, Business Administration .....	Adm326
Anne Dudley Blitz, M.A., LL.D., Dean of Women .....	Adm120
Robert E. Summers, M.S., M.E., Dean of Admissions and Records .....	Adm105
T. E. Pettengill, M.S., Recorder .....	Adm119
Edmund S. Williamson, Ph.D., Dean of Students .....	Adm213

### GRADUATE SCHOOL

Theodore C. Blegen, Ph.D., Dean of the Graduate School .....	Adm234
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### COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

T. Raymond McConnell, Ph.D., Dean .....	Adm219
J. William Buchta, Ph.D., Assistant Dean for the Senior College and Professor of Physics .....	Ph146
Russell M. Cooper, Ph.D., Assistant Dean for the Junior College and Chairman of General Studies .....	F106
Royal R. Shumway, B.A., Assistant Dean for Students' Work and Professor of Mathematics .....	Adm219
Roger B. Page, B.A., Administrative Assistant and Assistant Professor .....	F106

### COLLEGE OF EDUCATION

Wesley E. Peik, Ph.D., Dean and Professor of Education .....	Bu204
Marcia Edwards, Ph.D., Assistant Dean and Professor of Education .....	Bu202
Paul R. Grim, Ph.D., Director of Student Teaching and Assistant Professor of Education .....	EdH304
Jean H. Alexander, M.A., Chairman of Students' Work Committee and Assistant Professor of Education .....	Bu206
Clifford P. Archer, Ph.D., Director of the Bureau of Recommendations and Associate Professor of Education .....	Bu208
Willis E. Dugan, Ph.D., Director of Student Personnel and Associate Professor of Education .....	Bu214

### COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS

Clyde H. Bailey, Ph.D., Dean and Director, Department of Agriculture .....	Ad(UF)201
Henry Schmitz, Ph.D., Dean of the College of Agriculture, Forestry, and Home Economics .....	Ad(UF)202

### SCHOOL OF BUSINESS ADMINISTRATION

Richard L. Kozelka, Ph.D., Dean of the School of Business Administration .....	VH127
John J. Reighard, M.A., C.P.A., Assistant Dean and Professor of Accounting .....	VH104
J. Warren Stehman, Ph.D., Chairman of the Curriculum Committee and Professor of Economics and Finance .....	VH204
Bruce D. Mudgett, Ph.D., Chairman of the Graduate Committee and Professor of Economics and Statistics .....	VH320
Harry J. Ostlund, B.A., Chairman of the Students' Work Committee and Associate Professor of Accounting .....	VH104

## EXPLANATIONS

**Course numbering**—A course is designated by a department name, a number, and a letter. It has the same number in whatever quarter it is offered. The quarter is indicated by letter (f, fall; w, winter; s, spring; su, summer).

**Examples:**

- 1f-2w, a two-quarter course given in the fall and winter.
- 1w-2s, the same course given in the winter and spring.
- 3f,w,s, a one-quarter course given each quarter.

Junior College courses in the College of Science, Literature, and the Arts (primarily for freshmen and sophomores) are numbered from 1 to 49. Senior College courses in the College of Science, Literature, and the Arts are numbered as follows: courses primarily for juniors and seniors, from 50 to 99; for juniors, seniors, and graduates, from 100 to 199; for graduates only, from 200 up. This system is not uniformly followed by departments in other colleges than Science, Literature, and the Arts.

**State of credits**—The number of credits stated for two- and three-quarter courses is the number for the entire course, not the number for each quarter.

### OTHER ABBREVIATIONS AND SYMBOLS

#### Class Hour Schedule

	Main Campus	University Farm
I Hour	8:00- 8:50	7:45- 8:35
II Hour	9:00- 9:50	8:45- 9:35
III Hour	10:00-10:50	9:45-10:35
IV Hour	11:00-11:50	10:45-11:35
V Hour	12:00-12:50	11:45-12:35
VI Hour	1:00- 1:50	12:45- 1:35
VII Hour	2:00- 2:50	1:45- 2:35
VIII Hour	3:00- 3:50	2:45- 3:35
IX Hour	4:00- 4:50	3:45- 4:35
X Hour	5:00- 5:50	4:45- 5:35
XI Hour	6:00- 6:50	5:45- 6:35
XII Hour	7:00- 7:50	6:45- 7:35

Ar.	To be arranged or assigned.	MTWThFS	Monday, Tuesday, etc.
Aud.	Auditorium.	Prereq.	Prerequisite.
Créd.	Credits.	Rec.	Recitation.
Lab.	Laboratory.	Sec.	Section.
Lect.	Lecture.		

† To receive credit for any part of this course, a student must complete the parts preceding the dagger.

‡ There is a fee (amount to be specified) for this course.

A parenthetical statement after the title of each course gives the following information: the number of credits the course carries, the class to which it is open, and the courses prerequisite to it. *Abbreviated statement:* (5 cred.; jr., sr.; prereq. 6). *Expanded statement:* This course carries five credits, is open to juniors and seniors only, and has for a prerequisite, Course 6 in the same department.

Room assignments listed are for fall quarter only. Room assignments for winter and spring quarters will be announced in a supplementary schedule.

*Buildings*

- A, Armory  
 Ad, Administration, University Farm  
 Adm, Administration  
 Ag, Agronomy, University Farm  
 Agr Bot, Agricultural Botany, University Farm  
 AH, Appleby Hall  
 BB, Bull Barn, University Farm  
 BCB, Beef Cattle Barn, University Farm  
 BeH, Berry House, University Farm  
 BFH, Botany Field House, University Farm  
 Bo, Botany  
 BoG Botany Greenhouse  
 Bot, Botany, University Farm  
 BrH, Brewster Hall, University Farm  
 Bu, Burton Hall  
 C, Chemistry Building  
 CCS, Center for Continuation Study  
 CH, Cooke Hall  
 CMU, Coffman Memorial Union  
 CoH, Ada Comstock Hall  
 CS, Carpenter Shop, University Farm  
 CSP, Cold Storage Plant, University Farm  
 CSS, Corn Seed Stocks, University Farm  
 CWI, Child Welfare Institute  
 DCB, Dairy Cattle Barn, University Farm  
 DeH, Dexter Hall, University Farm  
 DH, Dining Hall, University Farm  
 DHD, Dining Hall Dormitory, University Farm  
 E, Main Engineering  
 EdH, Eddy Hall  
 EE, Electrical Engineering  
 En, Engineering Bldg., University Farm  
 Ex, Experimental Engineering  
 F, Folwell Hall  
 FCFH, Farm Crops Field House, University Farm  
 FdH, Field House  
 G, Greenhouse (13th and University Ave. S.E.)  
 GH, Green Hall, University Farm  
 Gy, Gymnasium, University Farm  
 HB, Horse Barn, University Farm  
 HE, Home Economics, University Farm  
 HH, Haecker Hall, University Farm  
 HL, Hydraulics Laboratory, Hennepin Island  
 HoB, Home Building, University Farm  
 Hospitals  
 CI, Cancer Institute  
 EH, Eustis Hospital  
 EMH, Elliot Memorial Hospital  
 HS, Health Service  
 PW, Psychiatric Ward  
 TM, Todd Memorial Hospital  
 UD, University Dispensary  
 HP, Heating Plant  
 Hr, Horticulture, University Farm  
 HS, Health Service, University Farm  
 IA, Institute of Anatomy  
 J, Jones Hall  
 L, Law Building  
 Lib, Library Building  
 LsPav, Livestock Pavilion, University Farm  
 MB, Music Building, University Farm  
 ME, Mechanical Engineering  
 MeH, Meredith Hall, University Farm  
 MeS, Medical Sciences  
 MEx, Mines Experiment Station  
 MH, Millard Hall  
 MNH, Museum of Natural History  
 MS, Machinery Shop, University Farm  
 MSh, Meat Shop, University Farm  
 Mu, Music Building  
 MurH, William J. Murphy Hall  
 NGW, Norris Gymnasium for Women  
 NH, Nicholson Hall  
 NMA, Northrop Memorial Auditorium  
 OD, Old Dairy, University Farm  
 OSL, Oak Street Laboratories  
 P, Pillsbury Hall  
 Pe, Pendergast Hall, University Farm  
 PG, Poultry Group, University Farm  
 Ph, Physics  
 PH, Power House, University Farm  
 PiH, Pioneer Hall  
 PoH, Louise M. Powell Hall  
 PP, Plant Pathology, University Farm  
 Psy, Psychology  
 Pt, Pattee Hall  
 S, Stadium  
 SaH, Sanford Hall  
 SB, Swine Barn, University Farm  
 SBH, State Board of Health  
 SH, Seed House, University Farm  
 ShH, Shevlin Hall  
 SnH, Snyder Hall, University Farm

So, Soils, University Farm	TSE, Temporary, South of Engineering
SS, Storehouse and Shops	TSF, Temporary, South of Folwell
St, Stock Pavilion, University Farm	TSH, Temporary, South of Haecker, University Farm
TCH, Temporary, Court of Hospital	TSV, Temporary, South of Vincent
TH, Thatcher Hall, University Farm	UHS, University High School
TNCE, Temporary, North Court of En- gineering	VB, Veterinary Barn, University Farm
TNHS, Temporary, North of Health Service	Ve, Veterinary, University Farm
TNL, Temporary, North of Library	VH, Vincent Hall
TSA, Temporary, South of Administra- tion, University Farm	WeH, Wesbrook Hall
TSB, Temporary, South of Botany	WeiH, Weigley House, University Farm
TSCE, Temporary, South Court of Engi- neering	WuH, Wulling Hall
	Z, Zoology Building

## LIBRARY INSTRUCTION

The fees for Library Science (50-126) are \$3.50 per credit hour or \$42 per quarter (\$6.25 per credit hour and \$75 per quarter for nonresidents). Students with programs in other colleges or divisions (except those registered in Library Methods 1), must pay the special fee for all library instruction courses taken.

1f,w,s§	Use of Books and Libraries (2 cred.; fr., soph. only; no prereq.)				
	Sec. 1	II	MW	3Lib	Mr. Russell, Miss Moen
	2	IV	MW	3Lib	Miss Handahl
	3	VI	MW	3Lib	Miss Hofer

### *Professional Courses*

50f§	Libraries and Society (3 cred.; no prereq.)	IV	MWF	5Lib	Mr. Strout	
51f	Origins of the Book (2 cred.; no prereq.)	Ar		Ar	5Lib	Mr. Strout
52w	History of Publishing (2 cred.; no prereq.)	Ar		Ar		Mr. Strout
53s	School Library Administration (3 cred.; prereq. Ed. 51A-B-C, or Ed.Ad. 263, or Pol. Sci. 121w)	II	MWF			Miss Hayner
54s	Public Library Administration (3 cred.; prereq. Pol.Sci. 121w)	I	MWF			Miss Phillips
55s	College Library Administration (3 cred.; prereq. Pol.Sci. 121w or Ed.Ad. 253w)	II	MWF			Mr. Strout
56s*†	Current Issues (1 cred.; required for degree in library science)	III		Th		Mr. McDiarmid
57s	School Library Problems (3 cred.; prereq. Lib.Sci. 53)	Ar		Ar		Ar
60f*	Sources of Information about Library Materials (3 cred.; no prereq.)	III	MWF	5Lib		Miss Hayner
61f,w,s*†	Library Practice (3 to 4½ cred.; prereq. 15 cred. in library science)	Ar		Ar		Ar
62f*	Reference I (2 cred.; no prereq.)	III		TTh	5Lib	Mr. Strout
63w*	Reference II (3 cred.; prereq. 62)	IV	MWF			Mr. Strout
64s	Reference III (2 cred.; prereq. 62, 63)	I		TTh		Mr. Strout
65w	National and Regional Bibliography (2 cred.; no prereq.)	III		TTh		Mr. Shove
66w	The Literature and Bibliography of Education (3 cred.; no prereq.)	III		TThS		Ar
70f*	Reading Guidance (3 cred.; no prereq.)	I	MWF	5Lib		Miss Hayner
71s	Reading Guidance for Children (3 cred.; prereq. 70)	IV	MWF			Miss Hayner
72s	Reading Guidance for Adolescents (3 cred.; prereq. 70)	III	MWF			Miss Hayner
73w	Reading Guidance for Adults (3 cred.; prereq. 70)	III	MWF			Mr. Strout
74s	Library Materials in the School's Instructional Program (2 cred.; no prereq.)	IV		TTh		Ar

\* Required of all candidates for a degree in library science.

† Not required of students taking the special course in hospital library work.

§ For students in the College of Science, Literature, and the Arts. Others may obtain a special card from the Junior College office.

## LIBRARY INSTRUCTION

76s	Library Service in Hospitals (3 cred.)	I	TThS	Miss Jones and others
77s	Book Selection for Hospital Patients (3 cred.)	IV	MWF	Miss Methven and others
78s	Reading and the Mental Patient (2 cred.)	III	TS	Miss Jones and others
79s	Medical Reference Work (3 cred.)	II	MWF	Mr. Kingsley
80s§	Hospital Library Practice—A six-week internship in approved hospitals (4 cred.)			Miss Methven
81f*	Theory of Bibliography (2 cred.; no prereq.)	I	TTh 5Lib	Mr. Hummel
82w*	Cataloging and Classification (4 cred.; prereq. 81f)	VII-VIII	MWThF	Miss Hayner
84s	Subject Cataloging and Classification (3 cred.; prereq. 82)	III	MWF	Mr. Hummel
85f,w,s	Special Problems (1 to 3 cred.)	Ar	Ar	Mr. McDiarmid, Mr. Strout, Miss Hayner, and others
126s	Subject Bibliography (3 cred.)	II	TThS	Mr. Russell

\* Required of all candidates for a degree in library science.

§ This practice will be a six-week internship in approved hospitals. The specific arrangements will be made by Miss Methven after the close of the class work early in June. This internship is required of all candidates for degrees or certificates.



## MILITARY SCIENCE AND TACTICS

1f	First Year Elementary Course (1 cred.; no prereq.)				
	Sec. 1	III	MWF	A	
	2	VII	MWF	A	
2w	First Year Elementary Course (1 cred.; prereq. 1f)				
	Sec. 1	III	MWF		
	2	VII	MWF		
3s	First Year Elementary Course (1 cred.; prereq 1f, 2w)				
	Sec. 1	III		M	
		IX-X		Th	
	2	VII		M	
		IX-X		Th	
4f	Second Year Elementary Course (1 cred.; prereq 1f, 2w, 3s)*				
	Sec. 1	II	MWF	A	
	2	VIII	MWF	A	
5w	Second Year Elementary Course (1 cred.; prereq. 1f, 2w, 3s, 4f)*				
	Sec. 1	II	MWF		
	2	VIII	MWF		
6s	Second Year Elementary Course (1 cred.; prereq. 1f, 2w, 3s, 4f, 5w)*				
	Sec. 1	II		W	
		IX-X		Th	
	2	VIII		W	
		IX-X		Th	
151f	First Year Advanced Course (3 cred.; prereq. 1-6)*				
	Sec. 1	I	MTWThF	A	
	2	IV	MTWThF	A	
152w	First Year Advanced Course (3 cred.; prereq. 1-6 and 151f)*				
	Sec. 1	I	MTWThF		
	2	IV	MTWThF		
153s	First Year Advanced Course (3 cred.; prereq. 1-6 and 152w)*				
	Sec. 1	I	MWF		
		IX-X		Th	
	2	IV	MWF		
		IX-X		Th	
154f	Second Year Advanced Course (3 cred.; prereq. 153s)*				
	Sec. 1	II	MTWThF	A	
	2	VI	MTWThF	A	
155w	Second Year Advanced Course (3 cred.; prereq 154f)*				
	Sec. 1	II	MTWThF		
	2	VI	MTWThF		
156s	Second Year Advanced Course (3 cred.; prereq. 155w)*				
	Sec. 1	II	MWF		
		IX-X		Th	
	2	VI	MWF		
		IX-X		Th	

## NAVAL SCIENCE AND TACTICS

111f,112w,	Introduction to Naval Science (3 cred.; fall)				
113s	Seamanship and Communication (3 cred.;winter)				
	Communication and Tactics (3 cred.;spring)				
	Sec. 1-3 Lect.	III; IV; VII	MWF	205A	Lt. Troy
	Lab.	VIII-IX	T		
211f,212w,	Ordinance (3 cred.; fall)				
213s	Fire Control (3 cred.;winter)				
	Electronics (3 cred.; spring)				
	Sec. 1-3 Lect.	II; VI; VII	MWF	12A	Lt. Koch
	Lab.	VIII-IX	T		

NOTE—The above schedule does not apply to students enrolled in Medical ROTC. Medical ROTC schedule may be obtained at Room 106, Armory.

\* Students who have completed 6 months prior service in the armed forces (Army, Navy, Marine Corps, or Coast Guard) may receive credit for the First Year Elementary Course.  
 Students who have completed 1 year prior service in the armed forces (Army, Navy, Marine Corps, or Coast Guard) may receive credit for both years Elementary Course.

311f,312w, 313s	Piloting (3 cred.;fall) Navigation (3 cred.;winter) Ship Handling (6 cred.; spring)					
	Sec. 1-2 Lect.	III; VI	MWF	202A	Lt. Comdr.	
	Lab.	VIII-IX	T		Blocker	
411f	Naval Engineering (3 cred.)					
	Sec. 1-2 Lect.	II; IV	MWF	202A	Lt. Towne	
	Lab.	VIII-IX	T			

## PHYSICAL EDUCATION FOR MEN

The status of these courses in the various colleges is:

1. **College of Education**—(All except majors and minors in physical education) Required with credit.
2. **General College**—Required without credit.
3. **Institute of Technology**—Elective with credit.
4. **College of Agriculture, Forestry, and Home Economics**—Elective with credit.
5. **College of Pharmacy**—Required of students low on fitness tests. Credits as recommended by the dean.
6. **University College**—Elective with credit.
7. **Science, Literature, and the Arts**—Elective with credit.
8. **School of Business Administration**—Elective with credit.
9. **All Other Colleges**—Elective without credit.

A towel and locker fee of \$1.25 per quarter is charged all students using physical education facilities for activity. Uniforms for class work or recreational activity are \$1.00 per quarter.

**Note**—For professional courses in major and minor curricula in Physical Education for Men, see College of Education section in this bulletin.

1Af-Bw-Cs	Sports Education (1 cred.* per qtr.; all; no prereq.)					
1Af	Touchball, Volleyball, Boxing, Badminton					
	Sec. 1	II	MWF	215CH	Mr. Ostrander	
	2	III	MWF		and staff	
	3	IV	MWF			
	4	VI	MWF			
	Beginning Swimming (for nonswimmers only)					
	Sec. 5 Beginning Swimming	II	MWF	215CH	Mr. Boyce	
	6 Beginning Swimming	VII	MWF	215CH	Mr. Thorpe	
	7 Beginning Swimming	III	TThS	215CH	Mr. Boyce	
	Adapted Activities (by permission of instructor only)					
	Sec. 8 Adapted Activities	III	MWF	S	Mr. Osell	
	9 Adapted Activities	IV	MWF	S	Mr. Osell	
	10 Adapted Activities	VIII	MWF	S	Mr. Osell	
1Bw	Wrestling, Handball, Squash, Basketball					
	Sec. 1-4	II; III; IV; VI	MWF		Mr. Ostrander	
	Beginning Swimming				and staff	
	Sec. 5-6	II; VII	MWF		Mr. Boyce;	
	Sec. 7	III	TThS		Mr. Thorpe	
	Adapted Activities (by permission of instructor only)				Mr. Boyce	
	Sec. 8-10	III; IV; VIII	MWF	S	Mr. Osell	
1Cs	Swimming, Track, Softball, Tennis					
	Sec. 1-4	II; III; IV; VI	MWF	215CH	Mr. Ostrander	
	Beginning Swimming				and staff	
	Sec. 5-6	II; III	TThS		Mr. Boyce	
	Adapted Activities (by permission of instructor only)					
	7-9	III; IV; VIII	MWF	S	Mr. Osell	

\* For colleges offering credit, see list above.

2Af-Bw-Cs Sports Education (1 cred. per qtr.; all; prereq. 1ABC or permission of department)  
The program in Sports Education 2ABC offers an opportunity to develop proficiency in an elected recreational sport in which the student has had previous experience.

2Af	Sec. 1 Bowling‡	II	TThS	Union	Mr. Young
	2 Intermediate Swimming†	II	TThS	CH	Mr. Boyce
	3 Advanced Swimming‡	III	MWF	CH	Mr. Boyce
	4 Wrestling	VI	MWF	CH	Mr. Bartelma
	5 Boxing	VII	MWF	CH	Mr. Chisholm
	6 Weight Lifting	VIII	MWF	CH	Mr. Haislet
2Bw	Sec. 1 Bowling‡	II	TThS		Mr. Young
	2 Intermediate Swimming†	II	TThS		Mr. Boyce
	3 Advanced Swimming‡	III	MWF		Mr. Boyce
	4 Badminton	IV	MWF		Mr. Brain
	5 Wrestling	VI	MWF		Mr. Bartelma
	6 Weight Lifting	VIII	MWF		Mr. Haislet
	7 Basketball	IV	MWF		Mr. Mohr
2Cs	Sec. 1 Life Saving**	III	MWF		Mr. Thorpe
	2 Track	VI	MWF		Mr. Kelly
	3 Tennis	VII	MWF		Mr. Brain
	4 Golf††	VIII	MWF		Mr. Smith
	5 Softball	VIII	MWF		Ar
	6 Boxing	VII	MWF		Mr. Chisholm
	7 Handball and Squash	IV	MWF		Ar

### PHYSICAL EDUCATION FOR WOMEN

The credit allocation for courses meeting three times a week is one and a half; for those meeting twice a week, one credit is given.

The status of these courses in the various colleges is:

1. **College of Education**—Requirement: 5 credits.
2. **General College**—Requirement: three quarters. Credits upon transferring to Education or Agriculture, Forestry, and Home Economics.
3. **College of Agriculture, Forestry, and Home Economics**—Requirement: 3 credits. Up to three additional credits may be applied to elective work in physical education.
4. **School of Dentistry, Dental Hygienists**—Requirement: three quarters. No credit.
5. **Institute of Technology**—Requirement: one quarter (spring). No credit.
6. **All other colleges**—Elective without credit.

**Note**—For professional courses in major and minor curricula in Physical Education for Women, see College of Education section in this bulletin.

**Statement of fees**—A physical education fee of \$1.75 per quarter is charged for all starred courses. Maximum fee per student, \$3.50 per quarter. For Methods and Directed Teaching courses a fee of \$1.50 per credit is charged as indicated in the footnote.

† Prerequisite, ability to swim 50 yards.

‡ The bowling alleys will charge students the regular cost per game.

§ Prerequisite, ability to swim 100 yards.

\*\* Student must be able to swim 440 yards.

†† Student must furnish his own equipment.

1f,2w,3s,  
4f,5w,6s\*‡ College Program in Physical Education

### Aquatics

Canoeing (classes limited to 15)				
Sec. 1 (spring)	III	MWF		Ar
2 (spring)	VI	TTh		Ar
Swimming, Beginning‡				
Sec. 1 (fall)	II	MWF	51NGW	Ar
2 (fall, winter)	III	MWF	51NGW	Ar
3 (spring)	IV	MWF		Ar
4 (spring)	II	TTh		Ar
5 (fall)	III	TTh	51NGW	Ar
Swimming, Advanced Beginning¶				
Sec. 1 (fall)	IV	MWF	51NGW	Ar
2 (fall)	VI	MWF	51NGW	Ar
3 (winter)	VIII	MWF		Ar
4 (winter)	III	TTh		Ar
5 (spring)	VI	MWF		Ar
6 (spring)	II	TTh		Ar
Swimming, Intermediate				
Sec. 1 (fall, spring)	VIII	MWF	51NGW	Ar
2 (winter)	II	MWF		Ar
3 (spring)	II	MWF		Ar
Swimming, Intermediate and Advanced				
Sec. 1 (fall)	III	MWF	58NGW	Ar
2 (winter)	VIII	MWF		Ar
Swimming, Advanced (fall)				
	VIII	MWF	58NGW	Ar
Swimming, Advanced and Diving (spring)				
	IV	MWF		Ar
Swimming, Advanced and Synchronized (spring)				
	VIII	MWF		Ar
Red Cross Life Saving				
Sec. 1 (fall)	IV	MWF	58NGW	Ar
2 (spring)	IX	MWF		Ar
Water Safety Instructors' Courses** (spring)				
	VII	MWF		Ar

### Body Building

Individual Body Building				
Sec. 1 (fall, winter, spring)	IV	MWF	153ANGW	Ar
2 (winter)	III	TTh		Ar
3 (fall, winter)	VI	MWF	153ANGW	Ar
4 (winter)	II	TTh		Ar
Posture and Conditioning Exercises				
Sec. 1 (fall)	VIII	MWF	153NGW	Ar
2 (fall)	III	MWF	153NGW	Ar

### Individual Sports

Archery, Elementary				
Sec. 1 (fall)	VII	MW	60NGW	Ar
2 (fall)	VI	MWF	60NGW	Ar
Archery, Intermediate (spring)				
	II	TTh		Ar

\* Students must report to the Norris Gymnasium for Women on either of the first two days of the quarter to be placed in the proper class section. This is in addition to the regular registration.

‡ A physical education fee of \$1.75 per quarter is charged for this course.

§ For students with no experience in swimming.

¶ For students with some experience in swimming.

\*\* This course covers all requirements by the Red Cross for candidates for the rank of "Water Safety Instructor."

1f,2w,3s,

4f,5w,6s\*‡

College Program in Physical Education—Continued

Badminton, Elementary					
Sec. 1	(fall)	II	MWF	153-153aNGW	Ar
	2 (fall)	IV	MWF	60NGW	Ar
	3 (winter)	VIII	MWF		Ar
	4 (fall)	III	TTh	60NGW	Ar
	5 (winter)	III	MWF		Ar
	6 (winter)	II	MWF		Ar
Badminton, Intermediate					
Sec. 1	(fall)	I	MWF	60NGW	Ar
	2 (winter)	IV	MWF		Ar
Bowling					
Sec. 1	(fall, winter)	II	MWF	Union	Ar
	2 (fall, winter)	III	MWF	Union	Ar
	3 (fall, winter)	II	TTh	Union	Ar
	4 (fall, winter)	III	TTh	Union	Ar
Fencing					
Sec. 1	(fall)	II	TTh	60NGW	Ar
	2 (winter)	II	TTh		Ar
	3 (winter)	III	TTh		Ar
Golf, Elementary¶					
Sec. 1	(spring)	IV	MWF		Ar
	2 (spring)	I	MWF		Ar
Golf, Intermediate¶					
Sec. 1	(spring)	VII	MWF		Ar
	2 (spring)	VIII	MWF		Ar
Golf, Advanced (spring)§¶					
		Ar	Ar		Ar
Riflemarksmanship (winter)					
		II	TTh		Ar
Riflemarksmanship (winter)					
		III	TTh		Ar
Skating, Elementary (winter)**					
Sec. 1		VII-VIII	T		Ar
	2	VIII-IX	T		Ar
Social Games and Mixers					
Sec. 1	(fall)	III	TTh	153NGW	Ar
	2 (fall)	VI	TTh	153NGW	Ar
Skiing, Elementary (winter)					
		VII-VIII	Th	201NGW	Ar
Tennis, Elementary and Advanced Elementary					
Sec. 1	(fall)	I	TTh	60NGW	Ar
	2 (fall)	VIII	MWF	60NGW	Ar
	3 (spring)	IV	MWF		Ar
	4 (spring)	I	MWF		Ar
	5 (spring)	I	TTh		Ar
	6 (spring)	II	MWF		Ar
	7 (spring)	VI	MWF		Ar
Tennis, Intermediate and Advanced					
Sec. 1	(spring)	III	MWF		Ar
	2 (spring)	III	TTh		Ar
8‡‡	Horseback Riding				
Sec. 1	Elementary (fall)	3:00	T	Ar	Ar
	2 Elementary (fall)	4:00	T	Ar	Ar
	3 Elementary (spring)	3:00	Th		Ar
	4 Intermediate and advanced (spring)	4:00	Th		Ar

\* Students must report to the Norris Gymnasium for Women on either of the first two days of the quarter to be placed in the proper class section. This is in addition to the regular registration.

‡ A physical education fee of \$1.75 per quarter is charged for this course.

¶ Students must supply their own equipment.

§ Intermediate and advanced classes are open only to students having had regular instruction or by permission of the instructor.

\*\* Days for skating to be arranged last week of fall quarter.

‡‡ See instructor for special charge for this course. No course fee is charged.

1f,2w,3s,  
4f,5w,6s\*† College Program in Physical Education—Continued

*Rhythms*

Ballroom Dance, Elementary				
Sec. 1 (fall)	III	TTh	151NGW	Ar
2 (winter)	III	TTh		Ar
Elementary Tap Dance				
Sec. 1 (winter)	II	MWF		Ar
Square and Round Dances				
Sec. 1 (fall)	II	MWF	151NGW	Ar
2 (spring)	II	MWF		Ar
Modern Dance, Elementary				
Sec. 1 (fall, winter)	IV	MWF	151NGW	Ar
2 (fall, winter, spring)	VIII	MWF	151NGW	Ar
3 (spring)	IV	MWF		Ar
4 (fall)	VI	MWF	151NGW	Ar
Modern Dance, Intermediate and Advanced				
Sec. 1 (winter)	VI	MWF		Ar
2 (spring)	VI	MWF		Ar
Rhythmic Analysis Applied to Movement (spring)	VI	TTh		Miss Bock- struck

*Team Sports*

Basketball (winter)				
Sec. 1	I	MWF		Ar
2	VIII	MWF		Ar
Field Hockey (fall)				
	III	MWF	60NGW	Ar
Softball (spring)				
Sec. 1	III	MWF		Ar
2	VIII	MWF		Ar
Volleyball				
Sec. 1 (fall)	I	MWF	151NGW	Ar
2 (winter)	VI	MWF		Ar

*Elective Courses*

25f	First Aid (1 cred.; no prereq.)	I	TTh	201NGW	Ar
54s†	Camp Leadership (2 cred.; no prereq.)	VIII	MWF		Ar
80f	Principles of Rhythm (2 cred.; prereq. some rhythm experience)	VIII	MW	3NGW	Miss Bock- struck
87w	Dance Composition (2 cred.; prereq. consent of instructor)	VIII	TTh		Miss Bock- struck, Mr. Bell
88s	Advanced Problems in Dance Composition (2 cred.; prereq. 87)	VIII & 2 hrs. ar.	TTh		Miss Bock- struck, Mr. Bell

*Recreational Activities for Which No Registration Is Required*

Archery	Fencing	Tennis
Badminton	Modern Dance	Volleyball
Basketball	Softball	
Exercises for Body Building	Swimming	

\* Students must report to the Norris Gymnasium for Women on either of the first two days of the quarter to be placed in the proper class section. This is in addition to the regular registration.

† A physical education fee of \$1.75 per quarter is charged for this course.

## COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

For full information concerning the description of courses, the requirements of the various curricula, and the opportunities and regulations of the college, students must consult the Bulletin of the College of Science, Literature, and the Arts.

### AMERICAN STUDIES

#### *Junior College Courses*

21f-22w-23s	American Life I (The same as Humanities 21-22-23) (3 cred.; no prereq.)				
	Sec. 1	III	MWF 308F	Mr. Bowron	
	2	III	MWF 218P	Miss Turpie	
	3	VII	MWF 216NH	Mrs. Tyler	

#### *Senior College Courses*

71f-72w-73s	Humanities in the United States. This course is similar to American Life 21-22-23 except that it is confined to juniors and seniors. A student may not receive credit for any quarter of this course if he has completed the corresponding quarter of American Life 21-22-23 (9 cred.; jr., sr.; no prereq.) (The same as Humanities 71-72-73)				
		VII	MWF 221Bu.	Mr. Hornberger	
90f-91w-92s	Proseminar in American Studies (6 cred.; sr.; prereq. consent of instructor)	Ar	Ar Ar	Mr. Smith	

#### *For Graduate Students Only*

210f-211w-212s	Seminar in American Studies (9 cred.; grad.; prereq. consent of instructor)	Ar	Ar Ar	Mr. Hornberger and others
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### ANATOMY (HUMAN)

#### MEDICAL SCHOOL

For complete list of courses, see the *Bulletin of the Medical School*.

Students in this college may elect courses in human anatomy other than Courses 3 or 4 (see the *Bulletin of the Medical School*) only by arrangement with the head of the Department of Anatomy.

3f,s	Elementary Anatomy (4 cred.; primarily for 3-yr. nurses (Ext. Div.) and dental hygienists; no prereq.)				
	Lect. and Quiz Sec. A,B	I(f) II(s)	TThS	Ar	Ar
	Lab. and Rec. Sec. A	VIII, IX	T	Ar	
	B	VIII, IX	Th	Ar	
4s	Elementary Anatomy (5 cred.; primarily for 5-yr. nurses and medical technologists)				
	Lect. and Quiz Sec. A	I	MTWF	Ar	Dr. Williams
	Lab. and Rec. Sec. A	VIII, IX	TTh	Ar	Ar

### ANTHROPOLOGY

#### *Junior College Courses*

40f	Introduction to Anthropology (5 cred.; no prereq.)	VI	MTWThF	Aud.MNH	Mr. Greenberg
41w	Introduction to Anthropology (5 cred.; no prereq.)	VI	MTWThF		Mr. Wallis
42s	The Growth of Cultures (5 cred.; no prereq.)	VI	MTWThF		Mr. Cline

*Senior College Courses*

Courses 54, 56, 80, 81 are open to sophomores who have a grade of at least C in Courses 40, 41, or 42. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

54f	Social Organization. An analysis and survey of forms of social life. (3 cred.; jr., sr.; no prereq.)				
		I	MWF	6WeH	Mr. Wallis
56f	Primitive Science. The beliefs and knowledge of primitive man (3 cred.; jr., sr.; no prereq.)				
		VII	MWF	6WeH	Mr. Wallis
80s	The American Indian. (3 cred.; jr., sr.; no prereq.)				
		II	TThS		Mr. Wallis
81w	Archeology of North America. (3 cred.; jr., sr.; no prereq.)				
		III	MWF		Mr. Wilford
106w	European Prehistory (3 cred.; jr., sr., grad.; no prereq.)				
		VIII	MWF		Mr. Cline
109s	General Linguistics (3 cred.; jr., sr., grad.; no prereq.)				
		I	TThS		Mr. Greenberg
110f	Physical Anthropology. (3 cred.; jr., sr., grad.; no prereq.)				
		III	MWF	6WeH	Mr. Wilford
118f	Indian Civilizations of Mexico and Peru (3 cred.; jr., sr., grad.; no prereq.)				
		VIII	MWF	6WeH	Mr. Cline
119s	The Contact of Cultures. (3 cred.; jr., sr., grad.; no prereq.)				
		II	MWF		Mr. Wallis
122f-123w-124s	Problems in Anthropology (Cred. ar.; jr., sr., grad.; prereq. permission of instructor)				
		Ar	Ar	Ar	Mr. Wallis, Mr. Greenberg, Mr. Cline, Mr. Wilford
130f-131w-132s*	Races and Cultures of Arabia, Egypt, and North Africa. (9 cred.; jr., sr., grad.; no prereq.)				
		III	TThS	6WeH	Mr. Cline
133f-134w*	Races and Cultures of the Far East. (6 cred.; jr., sr., grad.; no prereq.)				
		VI	MWF	6WeH	Mr. Cline
140§	Field Trip in Archeology (1 to 8 cred.; jr., sr., grad.; prereq. male students only; permission of instructor required)				
		Ar	Ar	Ar	Mr. Wilford
161s	Primitive Religion. (3 cred.; jr., sr., grad.; no prereq.)				
		VII	MWF		Mr. Wallis
162w	Peoples of Negro Africa. (3 cred.; jr., sr., grad.; no prereq.)				
		IV	MWF		Mr. Greenberg
163w	Ethnology of India. (3 cred.; jr., sr., grad.; no prereq.)				
		VII	MWF		Mr. Greenberg
166w	History of Anthropological Theory and Method. (3 cred.; jr., sr., grad.; no prereq.)				
		II	MWF		Mr. Wallis
167f	Primitive Mythology. (3 cred.; jr., sr., grad.; no prereq.)				
		II	TThS	6WeH	Mr. Wallis
170s	Primitive Art. (3 cred.; jr., sr., grad.; no prereq.)				
		IV	MWF		Mr. Greenberg

*For Graduate Students Only*

204f-205w-206s	Seminar in Anthropology (3 cred. per qtr.; grad.)				
		Ar	Ar	Ar	Mr. Wallis, Mr. Cline, Mr. Greenberg, Mr. Wilford

\* Students may enter any quarter.

§ This course may be taken for credit only once.



## ART

The new department of Art embraces courses formerly offered in the departments of Architecture, Art Education, Drawing and Descriptive Geometry, and Fine Arts.

ARCHITECTURE  
INSTITUTE OF TECHNOLOGY

*Junior College Courses*

Registration in any of these courses is subject to limitation and approval by the School of Architecture.

Arch.1f-2w-3s	Introduction to Architecture (3 cred.; open only to students intending to major in architecture; prereq. approval of major adviser)	II	W 320E	Ar
Arch.	DP-1f,w,s†‡	Drawing and Painting, Grade I (6 cred., normally 2 cred. per qtr.; no prereq.)		
	Sec. 1	II-III	TTh 417E	
	2	II-III	TTh 417E	
	3	VI-VII	TTh 417E	
	4	VI-VII	TTh 417E	
	5	VIII-IX	TTh 417E	
Arch.	M-1f,w,s†‡	Modeling, Grade I (6 cred.; normally 2 cred. per qtr.; no prereq.)	VI-VIII	MW 405E Ar
Arch.40f,w,s	Graphic Representation (5 cred.; 3rd qtr. soph.; prereq. solid geometry and approval of major adviser.)	VI	MWF 320E	Ar
	Lect.	VII-VIII	MWF	Ar
	Lab.	VI-VIII	TTh	Ar

*Senior College Courses*

Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee

Arch.51f-52w-53s†	History of Architecture(9 cred.; jr., sr.; no prereq.)	IV	MTWF 320E	Ar
Arch.57f	Building Materials and Methods, Part I (4 cred.; jr., sr.; no prereq.)	II	MTThF 320E	Ar
Arch.	61f-62w-63s	Tutorial Work in History of Architecture (6 cred.; jr., sr.; prereq. 53)	Ar	Ar Ar Ar Ar
Arch.104f	City Planning (The same as Economics 111, Political Science 123, and Sociology 104) (3 cred.; sr., grad.; no prereq.)	III	MWF Ar	Ar
Arch.DP-11f,w,s†‡	Drawing and Painting, Grade II (6 cred.; normally 2 cred. per qtr.; soph., jr., sr.; prereq. DP-I.)	I-IV	S Ar	
	Sec. 1	I-IV	S Ar	
	2	I-IV	S Ar	
	3	I-IV	S Ar	
	4	VI-VII	MF Ar	
	5	VI-VII	MF Ar	

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ A fee of \$1 per quarter is charged for this course.

§ Completion of this course is dependent on achievement rather than time. Students will continue their registration until the course is completed and a mark reported. The number of credits earned per quarter may be larger or smaller than the amount indicated as normal.

## Arch.DP-

III f, w, s † §	Drawing and Painting, Grade III (6 cred., normally 2 cred. per qtr.; jr., sr.; prereq. DP-II or equiv.)			
	Sec. 1	II, III	MW 417E	Ar
	2	II, III	MF 417E	Ar
	3	II, III	WF 417E	Ar

## Arch.DP-

IV f, w, s † §	Drawing and Painting, Grade IV (6 cred., normally 2 cred. per qtr.; jr., sr.; prereq. DP-III or equiv.)			
		VI-VIII	MW 417E	Ar

## Arch.IHP-If †

Illustration (2 cred.; jr., sr.; prereq. DP-I or equiv.)	Ar	Ar	Ar	Ar
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## Arch.

IHP-II w, s §	Hand Print Processes (4 cred., normally 2 cred. per qtr.; jr., sr.; prereq. DP-I or equiv.)			
		Ar	Ar	Ar

## Arch.

M-III f, w, s † §	Modeling, Grade II (6 cred., normally 2 cred. per qtr.; jr., sr.; prereq. M-I)			
		VI-VIII	MW 405E	Ar

## Arch.AD-

If, w, s † † §	Architectural Design, Grade I (10 cred., normally 5 cred. per qtr.; jr., sr.; prereq. 40)			
		VI-VIII	MTWThF 402E	Ar

## Arch.AD-

II f, w, s † † §	Architectural Design, Grade II (15 cred., normally 5 cred. per qtr.; jr., sr.; prereq. AD-I)			
		VI-VIII	MTWThF 302E	Ar

## ART EDUCATION

The schedule for the following course offerings in Art Education will be found on page 107.

*Group A—Design*

ArtEd.1,2,3	General Design
ArtEd.50A,50B,50C	Introduction to Commercial Design
ArtEd.51	Introduction to Industrial Design
ArtEd.52A,52B	Interior Design
ArtEd.150-151	Advanced General Design

*Group B—Handcrafts*

ArtEd.31,32,33,34	General Handcrafts. Art Ed. 31, Texture Exercises. Work in metal, wood and clay; 32, Collage, montage, mobiles, three dimensional compositions, combining all materials; 33, Paper, cardboard, papier mache, decorative papers, hand puppets, cords, bells, knitting, crochet, hooking, cardboard weaving; 34, Leather tooling, book binding, basketry, needlework, netting, card weaving, etc.
ArtEd.70A,70B,70C	Wood Sculpture and Carving
ArtEd.73A,73B,73C	Ceramics
ArtEd.74	Bookbinding (Not offered in 1947-48)
ArtEd.75	Metal (Not offered in 1947-48)
ArtEd.76,77	Textiles
ArtEd.78,79	Textile Design
ArtEd.170E	Advanced Wood Sculpture and Carving
ArtEd.173E	Advanced Ceramics

*Group C—Drawing and Painting*

ArtEd.4,6,8	Basic Drawing. ArtEd. 4, Introduction to Materials and Techniques; 6, Introduction to Still Life and Figure; 8, Introduction to Landscape and Figure.
ArtEd.23	Pictorial Composition
ArtEd.24A,24B,24C	Water Color Painting
ArtEd.26A,26B,26C	Oil Painting

† A fee of \$1 per quarter is charged for this course.

§ Completion of this course is dependent on achievement rather than time. Students will continue their registration until the course is completed and a mark reported. The number of credits earned per quarter may be larger or smaller than the amount indicated as normal.

†† A fee of \$2 per quarter is charged for this course.

ArtEd.28A,28B,28C	Advanced Drawing Techniques
ArtEd.61	Figure Drawing and Painting
ArtEd.62	Portrait Drawing and Painting
ArtEd.63	Landscape Drawing and Painting
ArtEd.66A,66B	Fashion Illustration
ArtEd.67A,67B,67C	Illustration for Advertising and Other Purposes
ArtEd.68A,68B,68C	Print Processes: Lithography, silk screen, block print, etc.
ArtEd.124E	Advanced Specialized Drawing and Painting

## DRAWING AND DESCRIPTIVE GEOMETRY

*Junior College Courses*

Draw.41- 42-43f,w,s	Technical Drawing (6 cred.; no prereq.) (Sections limited to 40 each)			
	Sec. 1	I, II	MWF 411C	Mr. Doseff,
	2	III, IV	MWF 411C	Mr. Socha
	3	VI, VII	MWF 411C	
Draw.44f,w,s	Lettering (1 cred.; no prereq.) (Sections limited to 50 each quarter)	IV	T	Ar
Draw.45f,w,s	Alphabets (2 cred.; soph., jr., sr.; prereq. 44) (Sections limited to 50 each qtr.)	III	TS	Ar
<i>Senior College Courses</i>				
Draw.64w	Graphic Arts (3 cred.; jr., sr.; prereq. 15 cred. in econ.)	IV	MWF	Mr. Doseff, Mr. Socha
Draw.81- 82-83f,w,s	Advanced Drawing (3 cred. per qtr.; prereq. 43 or equiv.)	Ar	Ar Ar	Mr. Doseff, Mr. Socha
Draw.86- 87f,w,s†	Anatomical Drawing (3 cred. per qtr.; prereq. 43 or equiv.)	Ar	Ar Ar	Mr. Doseff, Mr. Socha

Other courses offered by the Department of Drawing and Descriptive Geometry and listed in the *Bulletin of the Institute of Technology* are open to students of this college only by special permission of the Students' Work Committee.

## HISTORY OF ART (FORMERLY FINE ARTS)

*Junior College Courses*

F.A.1f	Introduction to Art: Modern Art (3 cred.; no prereq.)	III	TThS JAud	Ar
F.A.2w	Introduction to Art: Ancient and Medieval Art (3 cred.; no prereq.)	III	TThS	Ar
F.A.3s	Introduction to Art: Renaissance and Baroque Art (3 cred.; no prereq.)	III	TThS	Ar
F.A.10f,w,s‡	Photography. (The same as Journalism 10) (3 cred.; soph., jr., sr.; no prereq.)	V	M 105MurH	Ar
	Lect.	III-IV	MW 20MurH	Ar
	Lab. Sec. 1	VI-VII	MW 20MurH	Ar
	2	VI-VII	TTh 20MurH	Mr. Nestler
	3	I-II	WF 20MurH	Mr. Nestler
	4			

*Senior College Courses*

Courses 51-52-53, 57-58-59, and 71, 72, 73 are open to sophomores who have completed 9 credits in Fine Arts, with an average grade of C. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ A fee of \$5 is charged for this course, plus general journalism fee of \$1 required of students taking courses in Journalism.

F.A.57f-58w-59s	Art in the Americas (3 cred. per qtr.; jr., sr.; prereq. 1-2-3 or 51-52-53 or consent of instructor)	VI	MWF	209NH	Ar
F.A.71f	Modern Art: Classicism and Romanticism (3 cred.; jr., sr.; prereq. 1-2-3 or 51-52-53 or consent of instructor)	VII	MWF	MurAud	Mr. Harris
F.A.72w	Modern Art: Realism and Impressionism (3 cred.; jr., sr.; prereq. 1-2-3 or 51-52-53 or consent of instructor)	VII	MWF		Mr. Harris
F.A.73s	Modern Art: Contemporary Art in Europe and America (3 cred.; jr., sr.; prereq. 1-2-3 or 51-52-53 or consent of instructor)	VII	MWF		Mr. Harris
F.A.157f	Baroque Art. The Classic Tradition (3 cred.; jr., sr., grad.; prereq. 9 cred. in fine arts, or 9 cred. in history or literature with consent of instructor)	IV	MWF	2J	Ar
F.A.158w	Baroque Art in Spain (3 cred.; jr., sr., grad.; prereq. 9 cred. in fine arts, or 9 cred. in history or literature with consent of instructor)	IV	MWF		Ar
F.A.159s	Baroque Art in Holland (3 cred.; jr., sr., grad.; prereq. 9 cred. in fine arts, or 9 cred. in history or literature with consent of instructor)	IV	MWF		Ar

*For Graduate Students Only*

F.A.201f- 202w-203s	Seminar. Special Problems in American Art (3 cred. per qtr.; prereq. 18 cred. in Senior College courses in fine arts or consent of instructor)	Ar	Ar	Ar	Ar
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## ART EDUCATION

See page 20.

## ASTRONOMY

### *Junior College Courses*

11f*	Descriptive Astronomy (5 cred.; no prereq.)	IV	MTWF	133Ph	Mr. Luyten
				and one evening a week with the telescope, weather permitting	
11s*	Descriptive Astronomy (See 11f)	IV	MTWF		Mr. Luyten
				and one evening a week with the telescope, weather permitting	

\* No student may receive credit for both Course 11 and Course 51.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

20w†	Astronomy for Celestial Navigation (5 cred.; no prereq.) III MTWF and one 3-hour laboratory period to be arranged	Mr. Luyten
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*Senior College Courses*

Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

51w*	General Astronomy (3 cred.; jr., sr.; prereq. Math. 6) IV§ MWF§	Mr. Luyten
52w	Astrophysics (4 cred.; prereq. 51 or 11 and Math. 6) II§ MTWF§ Ar§	Mr. Luyten
53s	Stellar Astronomy (3 cred.; prereq. 51 or 11 and Math. 6) II§ MWF§ Ar§	Mr. Luyten
101f	Celestial Mechanics (3 cred.; jr., sr., grad.; prereq. Math. 51) II§ MWF§ Ar§	Mr. Luyten
140f	Least Squares (3 cred.; prereq. 51 or 11 and at least Math. 51) II§ MWF§ Ar§	Mr. Luyten

NOTE—Courses 101 and 140 are usually offered in alternate years, and only one will be given in each year, depending largely on the demand.

BACTERIOLOGY

MEDICAL SCHOOL

1f	Elements of Bacteriology (Exclusively for students in the three-year curriculum in Nursing) (4 cred.; no prereq.) Lect. I MWF MH Ar Lab. Sec. A III MWF MH Ar B IV TThS MH Ar C V MWF MH Ar	
1w	Elements of Bacteriology (Exclusively for students in the three-year curriculum in Nursing) (4 cred.; no prereq.) Lect. II MWF MH Ar Lab. Sec. A I MWF MH Ar B IV MWF MH Ar	
1s	Elements of Bacteriology (4 cred.; no prereq.) Lab. III MWF MH Ar Lect. IV MWF MH Ar	

*Senior College Courses*

Course 53 is open to Junior College students who have a grade of at least C in the prerequisite courses. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

53f,w,s†††	General Bacteriology (5 cred.; soph. with a C average in the prerequisite courses, jr., sr.; prereq. 10 cred. in chem. and 4 cred. in bot. or zool.) VII, VIII, IX MWF	Dr. McLimans 10 cred. in chem.) Dr. Green, Dr. Bayliss, and others
101w††**	Medical Bacteriology (5 cred.; jr., sr., grad.; prereq. Zool. 1-2-3 and 10)	

\* No student may receive credit for both Course 11 and Course 51.

† A fee of \$1 per quarter is charged for this course.

†† Microscope required. Students may obtain use of microscope by purchasing \$3 microscope card from bursar.

§ No student should register for this course without first consulting Professor Luyten.

¶ No student may receive credit for both Course 53 and 101.

\*\* The schedule for this course is uncertain. Students wishing to take it should consult the department.

102†‡	Medical Bacteriology (4 cred.; jr., sr., grad.; prereq. 101)			Dr. Green, Dr. Bayliss, and others
103†‡	Soil Microbiology (5 cred.; jr., sr., grad.; prereq. 53, and 15 cred. in chem.)			
	Lect.	I	TThS	Dr. Skinner
	Lab.	II, III	TThS	
104w†	Sanitary Bacteriology (4 cred.; jr., sr., grad.; prereq. 53 and 15 cred. in chem.) (Class limited to 15 students)			
		VI, VII	MWF	Dr. Skinner
114s	Molds, Yeasts, and Actinomycetes (4 cred.; jr., sr., grad.; prereq. 53 or 101)			
		VII, VIII	TTh	Dr. Skinner
		III, IV	S	
116w	Immunity (3 cred.; jr., sr., grad.; prereq. 102)			
		VII, VIII, IX	TTh	Dr. Green
120s	Diseases of Animals Transmissible to Man (3 cred.; jr., sr., grad.; prereq. 102)			
		VI	MWF	Dr. Green
121f-122w†	Physiology of Bacteria (6 cred.; jr., sr., grad.; prereq. Bact. 53 and 8 cred. in org. chem. or biochem.)			
		III	TThS	Dr. Halvorson
123s	Applied Bacteriology (3 cred.; jr., sr., grad.; prereq. 121-122)			
		III	TThS	Dr. Halvorson
124f	Filterable Viruses (4 cred.; jr., sr., grad.; prereq. 102)			
	Lect.	VI	TTh	Dr. Green
	Lab.	VII, VIII	TTh	and others

### BIOSTATISTICS

See Public Health, page 84.

### BOTANY

#### Junior College Courses

1f††-2w††-  
3s\*††

General Botany (10 cred.; no prereq.)

Lect. Sec. 1 (Limited to 400)	III	TTh	150Ph.	Ar
Sec. 2 (Limited to 400)	VI	TTh	150Ph.	Ar
Lab. Sec. 1 (Intended primarily for students in the College of Agriculture, Forestry, and Home Economics) (Limited to 100)				
	III, IV	TTh	Ar	Ar
2 (Intended primarily for students in the College of Agriculture, Forestry, and Home Economics) (Limited to 100)				
	V, VI	TTh	Ar	Ar
3 (Intended primarily for students in the College of Agriculture, Forestry, and Home Economics) (Limited to 100)				
	VII, VIII	TTh	Ar	Ar
4 (Intended primarily for students in the College of Agriculture, Forestry, and Home Economics) (Limited to 100)				
	IX, X	TTh	Ar	Ar
5 (Limited to 100)	I, II	WF	Ar	Ar
6 (Limited to 100)	III, IV	WF	Ar	Ar
7 (Limited to 100)	V, VI	WF	Ar	Ar
8 (Limited to 100)	VII, VIII	WF	Ar	Ar

12w†

Plants Useful to Man (3 cred.; no prereq.)

IV TThS Mr. Lawrence

\* Any student who has had Course 1 given in 1942-43 and earlier years should register for 2-3. If he has had additional courses he should consult the Department of Botany before registering for any other course. He may be permitted to take any one of Courses 50, 51, 52, 53, 54.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ Microscope required. Students may obtain use of microscope by purchasing \$3 microscope card from bursar.

†† A fee of \$1.50 is charged for this course.

‡‡ The schedule for this course is uncertain. Students wishing to take it should consult the department.

††† This course does not satisfy any part of the laboratory science requirement of the College of Science, Literature, and the Arts.

Senior College Courses

Courses 50, 51, 52, 53, 54, 56 are open to sophomores who have an average grade of at least C in Course 1-2-3 or 4-5. Students who wish to enter these courses from Natural Science 7-8-9 must consult the department. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

50f‡	General Plant Ecology (3 cred.; jr., sr.; prereq. 1-2-3 or 4-5)				
	Lect.	III	MW	214Bo	Mr. Cooper
	Lab. Sec. 1 (Limited to 30)	I, II	MW	214Bo	
	2 (Limited to 30)	IV, V	MW	214Bo	
51w‡	General Plant Physiology (3 cred.; jr., sr.; prereq. 1-2-3 or 4-5 and one quarter of general chemistry)				
	Lect.	VI	MW		Mr. Brown
	Lab. Sec. 1 (Limited to 25)	III, IV	MW		
	2 (Limited to 25)	VII, VIII	MW		
52s‡	Elementary Taxonomy (3 cred.; jr., sr.; prereq. 1-2-3 or 4-5)				
	Lect.	VI	MW		Mr. Tryon
	Lab.	VII, VIII	MW		
53f‡	Introductory Plant Anatomy (3 cred.; jr., sr.; prereq. 1-2-3 or 4-5)				
	Lect.	III, IV	TThS	209Bo	Mr. Abbe
54s‡	Survey of the Plant Kingdom (3 cred.; jr., sr.; prereq. 1-2-3 or 4-5)				
	Lect.	III, IV	TThS		Mr. Abbe
56f	Introduction to the Study of Fungi (3 cred.; jr., sr.; prereq. 9 cred. in botany or permission of instructor)				
	Lect.	II	MW	107PP	Mr. C. Christensen
	Lab.	II, III	F		
112w	Aquatic Flowering Plants (4 cred.; prereq. bot. or zool. 10 cred., or consent of instructor)				
	Lect.	Ar	Ar		Mr. Tryon
113f‡	Flora of Minnesota (3 cred.; jr., sr., grad.; prereq. 1-2-3 or 4-5 or consent of instructor)				
	Lect.	VI, VII, VIII	TTh	209Bo	Mr. Tryon
115s‡	Spring Flora of Minnesota (3 cred.; jr., sr., grad.; prereq. 1-2-3 or 4-5 or consent of instructor)				
	Lect.	Ar	Ar	Ar	Mr. Tryon
119f‡	Nuclear Cytology (3 cred.; jr., sr., grad.; prereq. 1-2-3, or 4-5 or equiv. and an elem. course in genetics)				
	Lect.	IV	MW	202Bo	Mr. Dahl
	Lab. Sec. 1 (Limited to 15)	II, III	MW	202Bo	
	2 (Limited to 15)	VI, VII	MW	202Bo	
121f	Developmental Anatomy (5 cred.; jr., sr., grad.; prereq. 1-2-3 or 4-5 and consent of instructor)				
	Lect.	Ar	Ar	209Bo	Mr. Abbe
123w‡‡	Research Methods in Histology (3 to 5 cred.; jr., sr., grad.; prereq. 1-2-3 or 4-5, 121 and consent of instructor)				
	Lect.	II, III, IV	MWF		Mr. Abbe, Miss Hansen
127s‡	Morphology of Vascular Plants (5 cred.; jr., sr., grad.; prereq. 1-2-3 or 4-5)				
	Lect.	II, III, IV	MWF	209Bo	Mr. Abbe
130f‡	General Plant Ecology (In order to receive graduate credit for this course an acceptable term paper must be completed) (3 cred.; jr., sr.; prereq. 1-2-3 or 4-5)				
	Lect.	III	MW	214Bo	Mr. Cooper
	Lab. Sec. 1 (Limited to 30)	I, II	MW		
	2 (Limited to 30)	IV, V	MW		
131f	Field Ecology (5 cred.; jr., sr., grad.; prereq. 50 or For. 2, 3, 4)				
	Lect.	VI, VII, VIII	MWF	214Bo	Mr. Cooper, Mr. Lawrence
132w‡	Morphological Ecology (5 cred.; jr., sr., grad.; prereq. 50 or For. 2, 3, 4)				
	Lect.	VI, VII, VIII	MWF		Mr. Cooper
133s	Ecological Plant Geography (5 cred.; jr., sr., grad.; prereq. 50 or For. 2, 3, 4)				
	Lect.	VI, VII, VIII	MWF		Mr. Cooper

‡ A fee of \$1.50 is charged for this course.

‡‡ A fee of \$3 is charged for this course.

134f†	Research Methods in Ecology (5 cred.; jr., sr., grad.; prereq. 18 cred. in pl. sci. incl. 50 or 130 and consent of instructor)	I, II, III I, II, III, IV	TTh 215Bo S	Mr. Lawrence
137s†	Experimental Ecology (5 cred.; jr., sr., grad.; prereq. 18 cred. in pl. sci. incl. 50 or 130, 51 and consent of instructor)	I, II, III I, II, III, IV	TTh S	Mr. Lawrence
140f	Advanced Survey of Plant Physiology (3 cred.; jr., sr., grad.; prereq. 51 or equiv. and an elementary course in organic chem. or in biochem. or consent of instructor)		1:00-2:15 TTh 214Bo	Mr. Brown
142w	Photosynthesis and Other Effects of Radiation (3 cred.; jr., sr., grad.; prereq. 20 cred. in chem. or biochem.; 51 or 140; phys. chem. 107 or consent of instructor)		9:30-10:45 TTh	Mr. Brown
	Lect.			
	For laboratory see Course 147.			
143s	Plant Metabolism (3 cred.; jr., sr., grad.; prereq. same as for 142)		9:30-10:45 TTh	Mr. Brown
	Lect.			
	For laboratory see Course 148.			
147w††, 148s††	Advanced Physiology Laboratory (2 cred. per qtr.; jr., sr., grad.; to be taken with or after 142, 143 respectively)	VI, VII, VIII, IX, X or VI, VII, VIII, IX, X	T Th	Mr. Brown
165s†	Introduction to Pollen Analysis (3 cred.; jr., sr., grad.; prereq. consent of instructor)	VI, VII	MWF	Mr. Dahl
197f†-198w†- 199s†	Problems (1 to 5 cred. per qtr.; jr., sr., grad.; prereq. 20 cred. in pl. sci. and permission of instructor)	Ar	Ar Ar	Ar

*For Graduate Students Only*

201f-202w-203s	Research Problems in the Morphology of Vascular Plants			Mr. Abbe
205f-206w-207s	Research Problems in Taxonomy and Floristic Plant Geography			Mr. Tryon
221f-222w-223s	Research Problems in Ecology			Mr. Cooper, Mr. Lawrence
225f-226w-227s	Research Problems in Plant Physiology			Mr. Brown, Mr. Frenkel
229f-230w-231s	Research Problems in Cytology			Mr. Dahl
233f-234w-235s	Seminar (Students may register for one credit per quarter in any of the research subjects)			

**PLANT PATHOLOGY AND AGRICULTURAL BOTANY AND  
AGRONOMY AND PLANT GENETICS**

The following courses in the College of Agriculture, Forestry, and Home Economics regularly carry credit in the College of Science, Literature, and the Arts without petition:

Agronomy and Plant Genetics 31, Principles of Genetics.  
Plant Pathology and Agricultural Botany 1, Plant Pathology.

Students in this college may elect other courses in "Plant Pathology and Agricultural Botany" and "Agronomy and Plant Genetics" by arrangement with the departments concerned. See the program of the College of Agriculture, Forestry, and Home Economics in this bulletin.

† A fee of \$1.50 is charged for this course.

†† A fee of \$3 is charged for this course.



## CHEMISTRY

## INSTITUTE OF TECHNOLOGY

## INORGANIC CHEMISTRY

1f,w††-2w,s††	General Inorganic Chemistry (4 cred. per qtr.; no prereq.)				
1f-2w	Sec. 1 (Agr. home economics and nursing students)				
	Fall				
	Lect.	VI	MWF	100C	Mr. Nebergall
	Quiz	VII	MW	410C	
	Winter				
	Lect.	VI	MWF		Mr. Nebergall
	Quiz	VII	W		
	Lab.	VII-X	M		
	Sec. 2 (Premedical, preidental, medical technology, and physical education students)				
	Fall				
	Lect.	VI	MWF	225C	Mr. Pervier
	Quiz	VI	TTh	225C	
	Winter				
	Lect.	VI	MWF		Mr. Pervier
	Quiz	VI	T		
	Lab.	VII-X	W		
	Sec. 3 (S. L. & A. students)				
	Fall				
	Lect.	VIII	MWF	225C	Mr. Lindeke
	Quiz	VII	TTh	225C	
	Winter				
	Lect.	VIII	MWF		Mr. Lindeke
	Quiz	VII	T		
	Lab.	VII-X	Th		
	Sec. 6 (S. L. & A. students)				
	Lect.	X	MWF	100C	Mr. Pray
	Quiz	X	TTh	100C	
	Lab.	VI-VIII	M	ArC	
1w-2s	(Agriculture, Engineering, and S. L. & A. students)				
	Lect.	II	TThS		Mr. Nebergall
	Quiz	VII-VIII	Th		
	Lab.	I-III	W		
4f††-5w††	General Inorganic Chemistry (4 cred. per qtr.; prereq. high school chem.)				
4f-5w	Sec. 3 (Premedical and medical technology students)				
	Lect.	VII	MWF	100C	Mr. Maynard
	Quiz	VII	T	100C	
	Lab.	V-VII	Th	ArC	
	Sec. 4 (Preidental, nursing education, and public health nursing students)				
	Fall				
	Lect.	VII	MWF	325C	Mr. Brasted
	Quiz	VII	Th	410C	
	Winter				
	Lect.	VII	MWF		Mr. Brasted
	Quiz	IX	M		
	Lab.	VIII-IX	WF		
	Sec. 5 (Agriculture and home economic students)				
	Lect.	VIII	MWF	410C	Mr. Barber,
	Quiz	IX	W	410C	Mr. Herr
	Lab.	V-VII	T	ArC	

†† A fee of \$2 per quarter is charged for this course. Non-veterans should purchase a \$5 chemistry deposit card from the bursar in the Administration Building. Veterans will receive information from the instructor concerning purchase card and checking into laboratory. No student will be assigned a desk in the laboratory until he presents this card. The \$2 fee, laboratory material, and breakage will be charged against the deposit.

6f†-7w††	General Inorganic Chemistry (10 cred.; no prereq.) (For chemistry, pharmacy, and S. L. & A. students)				
	Lect.	II	MWF	410C	Mr. O'Brien
	Quiz	I		S 410C	
	Lab.	I, II, III	TTh	ArC	
6w†-7s††	General Inorganic Chemistry (See 6f-7w) (For chemistry and S. L. & A. chemistry majors)				
	Lect.	II	TThS		Mr. Johnson
	Quiz	VIII, IX	Th		
	Lab.	I-II	M	ArC	
		I-III	W	ArC	
9f†-10w††	General Inorganic Chemistry (10 cred.; prereq. entrance cred. in chem.) (For chemistry, pharmacy, and S. L. & A. chemistry majors)				
	Lect.	II	MWF	100C	Mr. Sneed
	Quiz	I	Th	100C	
	Lab.	I, II, III	T	ArC	
		II, III	Th	ArC	
11f††	Semimicro Qualitative Analysis (4 cred.; prereq. Course 2, 5, 7, or 10)				
	Lect. Sec. 1 (For S. L. & A. students)	IV	TThS	410C	Mr. Johnson
	Lab.	V-VI	MF	ArC	
	Lect. Sec. 2 (For S. L. & A. students)	VIII	MWF	325C	Mr. Nebergall
	Lab.	IX, X	MW	ArC	
11w††	Semimicro Qualitative Analysis (4 cred.; prereq. 2, 5, 7, or 10) (For S. L. & A. students)				
	Lect.	VIII	MWF		Mr. Pray
	Lab.	I-IV	S		
11s††	Semimicro Qualitative Analysis (4 cred.; prereq. 2, 5, 7, or 10)				
	Sec. 1 (For Agriculture, Home Economics and nursing students)				
	Lect.	VI	MWF		Mr. Nebergall
	Lab.	VII-VIII	MW		
	Sec. 2 (For premedical, pre dental, medical technology, and physical education students)				
	Lect.	VI	MWF		Mr. Pervier
	Lab.	VII-X	W		
	Sec. 3 (For S. L. & A. students)				
	Lect.	VIII	MWF		Mr. Lindeke
	Lab.	VII-X	Th		
	Sec. 4 (For S. L. & A. students)				
	Lect.	X	MWF		Mr. Pray
	Lab.	VI-VII	MW		
	Sec. 5 (For premedical and medical technology students)				
	Lect.	VII	MWF		Mr. Maynard
	Lab.	V-VIII	Th		
	Sec. 6 (For pre dental, nursing education and public health nursing students)				
	Lect.	VII	MWF		Mr. Brasted
	Lab.	I-IV	S		
12f††	Semimicro Qualitative Analysis (5 cred.; prereq. 2, 5, 7 or 10)				
	Lect. (For S. L. & A. chem. majors)	IV	MWF	225C	Mr. Pray
	Lab.	V-VII	TTh	ArC	

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

† A fee of \$2 per quarter is charged for this course. Non-veterans should purchase a \$5 chemistry deposit card from the bursar in the Administration Building. Veterans will receive information from the instructor concerning purchase card and checking into laboratory. No student will be assigned a desk in the laboratory until he presents this card. The \$2 course fee, laboratory material, and breakage will be charged against the deposit.

†† A fee of \$2.40 per quarter is charged for this course. Non-veterans should purchase a \$5 chemistry deposit card from the bursar, in the Administration Building. Veterans will receive information from the instructor concerning purchase card and checking into laboratory. No student will be assigned a desk in the laboratory until he presents this card. The \$2.40 course fee, laboratory material, and will be charged against the deposit.

12w††	Semimicro Qualitative Analysis (5 cred.; prereq. 2, 5, 7, or 10)				
	Lect. (For chemistry, engineering and S. L. & A students)	III	MWF		Mr. Maynard
	Lab.	IX-X	MWF		
12s††	Semimicro Qualitative Analysis (5 cred.; prereq. 2, 5, 7 or 10)				
	Sec. 1 (For chemistry, pharmacy, and S. L. & A. chemistry majors)				
	Lect.	II	MWF		Mr. Sneed
	Lab.	I, II, III	TTh		
	Sec. 2 (For chemistry, pharmacy, and S. L. & A. chemistry majors)				
	Lect.	II	MWF		Mr. O'Brien
	Lab.	I-III	TTh ArC		
13f††	Semimicro Qualitative Analysis (5 cred.; prereq. 12) (For chemistry students and S. L. & A. chem. majors)				
	Lect.	VI	WF	325C	Mr. Heisig
	Lab.	VI, VII VII, VIII, IX	M WF	ArC	
102s††	Semimicro Qualitative Analysis (3 cred.; jr., sr., grad.; prereq. Anal. Chem. 1-2)	Ar	Ar		Mr. Barber
103f-104w-105s	Advanced Inorganic Chemistry (9 cred.; jr., sr., grad.; prereq. Anal. Chem. 1-2 and Org. Chem. 63)	IV	TThS	325C	Mr. O'Brien, Mr. Reyerson, Mr. Maynard
106w-107s	Chemistry of the Less Familiar Elements (3 cred. per qtr.; prereq. Anal. Chem. 1-2 and Org. Chem. 63)	Ar	Ar	Ar	Mr. O'Brien
108s	Nonaqueous Systems (3 cred.; prereq. Anal. Chem. 1-2 and Org. Chem. 63)	Ar	Ar	Ar	Mr. Pray
109w†-110s†	Synthetic Inorganic Chemistry (3 to 5 cred. per qtr.; jr., sr., grad.; prereq. Org. Chem. 63)	Ar	Ar	Ar	Mr. Heisig

For other courses in Inorganic Chemistry see the *Bulletin of the Institute of Technology*.

ANALYTICAL CHEMISTRY

1w†-2s††	Quantitative Analysis (10 cred.; soph., jr., sr.; prereq. Inorg. Chem. 13)				
	Lect.	VI	M		Mr. Meehan
	Quiz	VI	F		
	Rec. Sec. 1 and 2	VI or VII	W		
	Sec. 3	VI	Th		
	Lab. Sec. 1 Any 9 hrs selected from	VI-IX	MWF		
	2	I-IV I-III I-IV	T Th S		
	3	VI-IX VIII-IX I-IV	T Th S		

† A fee of \$2 per quarter is charged for this course. Non-veterans should purchase a \$5 chemistry deposit card from the bursar in the Administration Building. Veterans will receive information from the instructor concerning purchase card and checking into laboratory. No student will be assigned a desk in the laboratory until he presents this card. The \$2 course fee, laboratory material, and breakage will be charged against the deposit.

†† A fee of \$2.40 per quarter is charged for this course. Non-veterans should purchase a \$5 chemistry deposit card from the bursar, in the Administration Building. Veterans will receive information from the instructor concerning purchase card and checking into the laboratory. No student will be assigned a desk in the laboratory until he presents this card. The \$2.40 course fee, laboratory material, and breakage will be charge against the deposit.

‡ Course 2s may precede 1w, if desired.

7f‡	Quantitative Analysis (4 cred.; primarily for premedical students; prereq. Inorg. Chem. 11 or 12)				
	Sec. 1 and 2				
	Lect.	VI	F	410C	Mr. Meehan
	Rec.	VI or VII	W	115C	
	Quiz	VI	M	Ar	
	Lab. Any other 8 hrs. selected from	VI-IX	MWF	310C	
	Sec. 3				
	Lect.	VI	T	325C	Mr. Norris
	Rec.	VI	Th	325C	
	Lab.	VII, VIII, IX	TTh	310C	
		I, II, III	S	310C	
		or			
		II, III, IV	S	310C	
7s‡	Quantitative Analysis (4 cred.; primarily for premedical students; prereq. Inorg. Chem. 11 or 12)				
	Lect.	VI	T	Ar	
	Rec.	VI	Th		
	Lab.	VII, VIII, IX	TTh		
		I, II, III	S		
		or			
		II, III, IV	S		
9w‡	Quantitative Analysis (3 cred.; prereq. Inorg. Chem. 11, 12, or 16; for dentists, engineers, and miners)				
	Lect.	VI	Th		Mr. Norris
	Rec.	VI	T		
	Lab.	VII, VIII, IX	TTh		
96f‡-97w‡-98s‡	Senior Topics (5 cred. per qtr.; sr.)	Ar	Ar	Ar	Mr. Kolthoff, Mr. Sandell, Mr. Meehan
101w‡-102s‡	Quantitative Analysis (5 cred. per qtr.; jr., sr., grad.; prereq. Inorg. Chem. 13)				
		VI, VII, VIII, IX	MWF		Mr. Meehan
103s‡	Quantitative Inorganic Microanalysis (3 cred.; jr., sr., grad.; prereq. Anal. Chem. 1-2)	Ar	Ar	Ar	Mr. Sandell
104f‡	Qualitative Inorganic Microanalysis (3 cred.; jr., sr., grad.; prereq. Anal. Chem. 1-2)	Ar	Ar	Ar	Mr. Sandell
105w‡	Polarizing Microscope (3 cred.; jr., sr., grad.; prereq. Phys. Chem. 101)				
	Lect.	VI	F		Mr. Sandell
106f‡-107w‡-108s‡	General Technical Analysis (2 or 3 cred.; jr., sr., grad.; prereq. Anal. Chem. 1, 2)	Ar	Ar	Ar	Mr. Sandell
109f,w,s‡‡	Rock Analysis (3 cred.; jr., sr., grad.; prereq. Anal. Chem. 1-2)	Ar	Ar	214P	Mr. Peck
122f‡	Advanced Analytical Chemistry (1 to 2 cred.; jr., sr., grad.; prereq. quantitative chemistry; 1 lecture, 1 recitation, and 3 to 6 laboratory hours to be arranged)	Ar	Ar	Ar	Ar
123f‡	Advanced Analytical Chemistry (3 cred.; jr., sr., grad.; prereq. Anal. Chem. 1-2 or permission of instructor; 1 lect. and 6 lab. hours to be arranged)	Ar	Ar	Ar	Mr. Meehan
127s‡	Optical Methods in Analytical Chemistry (2 to 3 cred.; prereq. Phys. Chem. 103; 2 lect. and lab. hrs. ar.)	Ar	Ar	Ar	Mr. Meehan
131f‡	Application of Indicators in Neutralization Reactions and pH Determinations. (3 cred.; jr., sr., grad.; prereq. Anal. Chem. 1-2 and Phys. Chem. 103)	Ar	Ar	Ar	Mr. Meehan
	Lect.	VI	MW	315C	Mr. Kolthoff
	Lab.	Ar	Ar	Ar	

‡ A fee of \$2 per quarter is charged for this course. Non-veterans should purchase a \$5 chemistry deposit card from the bursar in the Administration Building. Veterans will receive information from the instructor concerning purchase card and checking into laboratory. No student will be assigned a desk in the laboratory until he presents this card. The \$2 course fee, laboratory material, and breakage will be charged against the deposit.

‡ Registration limited. Permission of instructor must be obtained.

132w†	Electrometric Measurements and Titrations (3 cred.; jr., sr., grad.; prereq. Anal. Chem. 1-2 and Phys. Chem. 103)	VI	MW	Mr. Kolthoff
	Lect.	VI	MW	Mr. Kolthoff
	Lab.	Ar	Ar Ar	
133s†	Voltammetry and Amperometric Titrations (2 to 4 cred.; jr., sr., grad.; prereq. Phys. Chem. 103; 2 lect. and lab. hrs. ar.)	Ar	Ar Ar	Mr. Kolthoff
		Ar	Ar Ar	Mr. Kolthoff
134f-135w-136s	Seminar: Modern Problems in Analytical Chemistry (1 cred. per qtr.; jr., sr., grad.; prereq. 1, 2, and Phys. Chem. 103)	IV	T 315C	Mr. Kolthoff
140w†	Water Analysis (2 cred.; jr., sr., grad.; prereq. Anal. Chem. 1-2)	Ar	Ar Ar	Mr. Sandell
		Ar	Ar Ar	Mr. Sandell
<i>For Graduate Students Only</i>				
201f-202w-203s	Selected Topics in Analytical Chemistry (3 cred. per qtr.; prereq. Anal. Chem. 1, 2, and 123)	Ar	Ar Ar	Mr. Kolthoff
301f-302w-303s	Research in Quantitative Analysis (Cred. ar.)	Ar	Ar Ar	Mr. Kolthoff, Mr. Sandell, Mr. Meehan

ORGANIC CHEMISTRY

61ff-62w††	Elementary Organic Chemistry (8 cred; for chemistry, chemical engineers, premedical, preidental and pharmacy students; prereq. 12-15 credits in chemistry)			
	Sec. 1			
	Lect.	I	MWF 100C	Mr. Dodson
	Lab. conference	II	T 410C	
	Quiz	I	T 100C	
	Lab. Sec. 1	VI-IX	T 390C	
	2	VI-IX	W 390C	
	3	I-IV	Th 390C	
	4	I-IV	S 390C	
	Sec. 2			
	Lect.	III	MWF 100C	Mr. Arnold
	Lab. conference	III	S 410C	
	Quiz	III	Th 410C	
	Lab. Sec. 1	VI-IX	M 390C	
	2	II-V	T 390C	
	3	VI-IX	T 390C	
	4	VI-IX	Th 390C	
61w†-62f††	Elementary Organic Chemistry (See 1f-2w)			
	Sec. 1			
	Lect.	IV	MWF	Mr. Koelsch
	Lab. conf.	IV	T	
	Quiz	IV	Th	
	Lab. Sec. 1	VI-IX	W	
	2	VI-IX	Th	
	3	I-IV	Th	
	4	I-IV	S	
	5	VI-IX	F	
	Sec. 2			
	Lect.	IV	TThS	Mr. Dodson
	Lab. conf.	IV	M	
	Quiz	IV	W	
	Lab. Sec. 1	VI-IX	M	
	2	VI-IX	T	
	3	VI-IX	W	
	4	VI-IX	Th	
	5	VI-IX	F	

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

† A fee of \$2 per quarter is charged for this course. Non-veterans should purchase a \$5 chemistry deposit card from the bursar in the Administration Building. Veterans will receive information from the instructor concerning purchase card and checking into laboratory. No student will be assigned a desk in the laboratory until he presents this card. The \$2 course fee, laboratory material, and breakage will be charged against the deposit.

63f,s	Elementary Organic Chemistry. Lecture Course (3 cred.; prereq. Org. Chem. 62. Course 63 is prerequisite to all other advanced courses in organic chemistry)	III	MWF	325C	Mr. Parham
	Lect.	III			
	Quiz	III	Th	325C	
64f,s†	Elementary Organic Chemistry. Laboratory Course (3 cred.; must be accompanied or preceded by 53. Course 64 is prerequisite to all other advanced courses in organic chemistry)				
	Lab. conference	III	S	325C	Mr. Parham
	Lab. Sec. 1	II, III, IV	T	390C	
		VI, VII, VIII	T	390C	
	2	VI, VII, VIII	TTh	390C	
96†-97w†-98s†	Senior Thesis. This course may be taken with any member of the Organic Chemistry Division staff (5 cred. per qtr.; sr.; prereq. 101 and 102 or equiv.)	Ar	Ar	Ar	Ar
101w	Organic Chemistry (3 cred.; jr., sr., grad.; prereq. 14 cred. of Organic Chemistry)	III	MWF		Mr. Lauer
102s†	Organic Chemistry (3 cred.; jr., sr., grad.; prereq. one year of Organic Chemistry)	III	M		Mr. Lauer
	Lect.	III	M		
	Lab.	VI-VIII	M		
		and either			
		VI-VIII	W or F		
105f-106w-107s	Advanced Organic Chemistry (3 cred. per qtr.; jr., sr., grad.; prereq. 63 and 64 or equiv. Ability to read German is assumed)	IV	MWF	325C	Mr. Smith
110f††	Organic Qualitative Analysis (3 cred.; prereq. 102 or equiv.)	Ar	Ar	Ar	Mr. Koelsch
130s†	Organic Quantitative Analysis (3 cred.; prereq. 63 and 64 and Anal. Chem. 1 and 2)				
	Lect.	1 hr. ar	Ar	Ar	Mr. Lauer
	Lab.	6 hrs. ar	Ar	Ar	
139f,w,s†	Advanced Organic Chemistry Laboratory Work (2 to 5 cred.; prereq. 63 and 64. Ability to read German is assumed. Students are advised to take this course during the winter quarter. Permission of instructor is required to take it at any other time)	Ar	Ar	Ar	Mr. Arnold
140f	Aromatic Compounds (3 cred.; prereq. 63 and 64)	II	MWF	325C	Mr. Koelsch

*For Graduate Students Only*

201f-202w-203s	Organic Chemistry Seminar (1 cred. per qtr.) (Required of all students taking graduate work in organic chemistry)				
		1 hr. per week ar	Ar	Ar	
301f-302w-303s	Research in Organic Chemistry (Cred. ar.; prereq. 110 and permission of the Division)	Ar	Ar	Ar	Ar

PHYSICAL CHEMISTRY

101f-102w-103s	Physical Chemistry (9 cred.; jr., sr., grad.; prereq. two years college chemistry, one year college physics, and mathematics through differential and integral calculus)				
	Lect.	IV	MWF	410C	Mr. MacDougall,
	Rec.	IV	S	115C; 215C;	
				225C; 315C	
					Mr. Livingston,
					Mr. Lipscomb

† A fee of \$2 per quarter is charged for this course. Non-veterans should purchase a \$5 chemistry deposit card from the bursar in the Administration Building. Veterans will receive information from the instructor concerning purchase card and checking into laboratory. No student will be assigned a desk in the laboratory until he presents this card. The \$2 course fee, laboratory material, and breakage will be charged against the deposit.

†† A charge of \$10 is made to cover special chemicals in this course.

104ff-105w‡- 106s‡	Physical Chemistry Laboratory (To accompany or follow Course 101-102-103) (1 or 2 cred. per qtr.)				
	Sec. 1				
	Lect.	VI	M	325C	Mr. Livingston,
	Lab.	VII-VIII	M	190C	Mr. Lipscomb
		VI-VIII	W	190C	
	Sec. 2				
	Lect.	VI	Th	410C	Mr. Livingston,
	Lab.	VI-VIII	T	190C	Mr. Lipscomb
		VII-VIII	Th	190C	
	Sec. 3				
	Lab.	VI-VIII	F	190C	
107ff‡	Elementary Physical Chemistry (6 cred.; for premedical students only; prereq. two years college chemistry, one year college physics)				
	Lect.	I	MWFS	325C	Mr. Crawford,
	Rec.	II	S	325C	Mr. Lipscomb
	Lab.	I-III	TTh	190C	
113f	Fundamentals of Reaction Kinetics (3 cred.; jr., sr., grad.; prereq. Phys. Chem. 103)				
		Ar	Ar	Ar	Mr. Livingston
114w	Kinetics of Reactions in Liquid Solutions in Heterogeneous Systems (3 cred.; jr., sr., grad.; prereq. Phys. Chem. 113)				
		Ar	Ar	Ar	Mr. Livingston
116f-117w-118s	Advanced Physical Chemistry (9 cred.; jr., sr., grad.; prereq. Phys. Chem. 103)				
		II	TThS	225C	Mr. Crawford(f)
					Mr. Livingston (w)
					Mr. Lipscomb (s)
122w	Crystal Chemistry (3 cred.; jr., sr., grad.; prereq. Phys. Chem. 103)				
	Lect.	Ar	Ar		Mr. Lipscomb
128f	Colloid Chemistry (3 cred.; sr., grad.; prereq. Phys. Chem. 103)				
		IV	MWF	111C	Mr. Reyerson
129w	Adsorption and Catalysis (3 cred.; jr., sr., grad.; prereq. Phys. Chem. 128)				
		IV	MWF	Ar	Mr. Reyerson
131s	Colloidal Processes (3 cred.; jr., sr., grad.; prereq. Phys. Chem. 128)				
		IV	MWF		Mr. Reyerson
132ff-133w‡- 134s‡	Colloid Chemistry Laboratory (Cred. ar.; sr., grad.; prereq. Phys. Chem. 128)				
		Ar	Ar	Ar	Mr. Reyerson
161f-162w	Nuclear Chemistry and Radioactivity (3 cred. per qtr.; jr., sr., grad.; prereq. Phys. Chem. 103)				
	Lect.	III	MWF	315C	Mr. Norris

## AGRICULTURAL BIOCHEMISTRY

See page 133.

Students in this college may elect courses in Agricultural Biochemistry by arrangement with the division.

## CHILD WELFARE

*Junior College Courses*

10s	Introduction to Child Study (2 cred.; 3rd qtr. fr., soph.; no prereq.)				
		V	TTh		Mrs. Cummings

‡ A fee of \$2 per quarter is charged for this course. Non-veterans should purchase a \$5 chemistry deposit card from the bursar in the Administration Building. Veterans will receive information from the instructor concerning purchase card and checking into laboratory. No student will be assigned a desk in the laboratory until he presents this card. The \$2 course fee, laboratory material, and breakage will be charged against the deposit.

40f*	Child Training (3 cred.; soph., jr., sr.; prereq. Psy. 1-2)	VI	TTh 202Pt	Miss Peterson
40w*	Child Training (See 40f)			
	Sec. 1	V	MW	Mrs. Fuller
	2	VI	TTh	Miss Peterson
40s*	Child Training (See 40f)			
		VI	TTh	Miss Peterson

Note—See also Family Life 25f,w,s (Child Development and Adjustment) under General Studies, page 44.

### Senior College Courses

Course 80 is open to sophomores who have an average grade of at least C in Psychology 1-2. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

80f	Child Psychology (3 cred.; jr., sr.; prereq. Psy. 1-2)			
	Sec. 1	III	MWF 202Pt	Miss Blodgett
	2	VII	MWF 202Pt	Mr. Martin
80w	Child Psychology (See 80f)			
		IV	MWF	Mr. Martin
80s	Child Psychology (See 80f)			
	Sec. 1	IV	MWF	Mr. Martin
	2	III	TThS	Mr. Hansen
90f	Home, School, and Family Relations (2 cred.; jr., sr.; prereq. 80)	II	TTh 202Pt	Mrs. Cummings
130f	Motor, Linguistic, and Intellectual Development of the Child (3 cred.; prereq. 12 cred. in psy. or equiv.)	II	MWF 202Pt	Miss Templin
131w	Personality, Emotional, and Social Development of the Child (3 cred.; prereq. 12 cred. in psy. or equiv.)	II	MWF	Miss Templin
132s	Later Childhood and Adolescence (3 cred.; sr., grad.; prereq. 12 cred. in Psy. or equiv.)	II	MWF	Mr. Harris
133f-134w-135s	Research Methods (2, 4, or 6 cred.; sr grad.; prereq. 10 cred. in psy. or ed. psy.)	VII, VIII	TTh 204F	Mr. Harris
140f	Behavior Problems in Younger Children (2 cred.; sr., grad.; prereq. 12 cred. in psy., ed. psy., or soc.)	III, IV	S 202Pt	Ar
140w	Behavior Problems in Younger Children (See 140f)	VIII, IX	Th	Miss Blodgett
141w	Behavior Problems in Older Children (2 cred.; sr., grad.; prereq. 12 cred. in psy., ed. psy., or soc.)	III, IV	S	Ar
141s	Behavior Problems in Older Children (See 141w)	VIII, IX	Th	Ar
142s	Psychology of Atypical Children (3 cred.; sr., grad.; prereq. 12 cred. in psy.)	II	TThS	Miss Blodgett
150f-151w-152s	Childhood Education (2, 4, or 6 cred.; sr., grad.; prereq. 12 cred. in psy. or equiv.)	VIII	TTh 100Pt	Mrs. Fuller
160s	Physical Growth and Development (3 cred.; sr., grad.; prereq. 12 cred. in psy. or equiv.)	III	MWF	Ar
166f	Maturity and Aging: Developmental Changes and Adjustment (3 cred.; sr., grad.; prereq. 15 cred. in psy., ed., or soc.)	VI	MWF 202Pt	Mr. Harris
170f	Parent Education (3 cred.; sr., grad.; prereq. 15 cred. in child welfare or home econ. or educ. or psy. or soc. or public health)	V	MWF 202Pt	Mrs. Cummings
185s	Children in a Changing World (3 cred.; sr., grad.; prereq. 12 cred. in psy., educ., or soc.)	VI	MWF	Miss Templin

\* Not open to Home Economics students, who should take Home Economics Education 90, which is offered fall and spring on the University Farm campus. See the program of the College of Education in another part of this bulletin.



190f Principles of Mental Measurement of Children (2 cred.; sr., grad.; prereq. 12 cred. in psy., ed. psy., or soc.)

III TTh 100Pt Ar

*For Graduate Students Only*

220f-221w-223s Seminar in Current Research

Ar Ar 202Pt Staff

225s Seminar in Developmental Theory

Ar Ar Mr. Harris

226w Seminar in Projective Methods

Ar Ar Mr. Harris  
and others

230f-231w-232s Seminar in Recent Literature

IX M 202Pt Miss Templin

270f-271w-272s Readings and Research in Child Development

Ar Ar 101Pt Mr. Harris  
and others

274w-275s Technique and Field Work in Parent Education

Ar Ar Mrs. Cummings

290w-291s Mental Examination of Preschool Children

Ar Ar Miss Blodgett

**Note**—See also Courses Ed.T. 55-59, 75, 76A-76B-76C, 77A-77B-77C, and Ed.C.I. 130, offered by the Institute of Child Welfare, and listed under Methods and Directed Teaching and Curriculum and Instruction, page 122.

CLASSICS

GREEK

*Junior College Courses*

1f-2w† Beginning Greek (10 cred.; no prereq.)

I MTWThF 115F Mr. Walton

3s Selection from Attic Prose (5 cred.; prereq. 1-2)

I MTWThF Mr. Walton

*Senior College Courses*

Courses 51, 52, 53, 73 are open to Junior College students who have an average grade of at least C in the prerequisite courses. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee. Students who continue Greek in the Senior College will enroll in Greek 171, 172, 173, "Independent Reading Courses." The subject matter of these courses will be varied to meet the needs of the individual student.

51f Lucian (3 cred.; jr., sr.; prereq. 1-2-3)

IX MWF 205F Mr. Heller

52w Homer (3 cred.; jr., sr.; prereq. 1-2-3)

IX MWF Mr. Heller

53s Plato, Apology and Selections (3 cred.; jr., sr.; prereq. 1-2-3)

IX MWF Mr. Swanson

73s New Testament (3 cred.; jr., sr.; prereq. any two of 51, 52, 53)

Ar Ar Mr. Heller

171f,\*172w,\*

173s\*

Independent Reading Courses (3 cred. per qtr.; open to students of exceptional ability with the consent of the instructor)

Ar Ar 118F Mr. Swanson

*For Graduate Students Only*

221f-222w-223s Graduate Seminar: Greek Drama and Lyric Poetry (9 cred.)

Ar Ar 118F Mr. Walton

\* Since the authors to be read vary from term to term and from year to year, this course may be repeated for credit.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

*Courses for Which No Knowledge of Greek Is Required*

(See below.)

## LATIN

*Junior College Courses*

1f-2w†	Beginning Latin (10 cred.; no prereq.)				
		IV	MTWThF	110F	Mr. Heller
3s	Intermediate Latin (5 cred.; prereq. 1-2, or 1 yr. of high school Latin)	IV	MTWThF		Mr. Heller
11f	Vergil I (5 cred.; prereq. 1-2, 3, or 2 yrs. of high school Latin)	III	MTWThF	17F	Mr. Swanson
12w	Vergil II (5 cred.; prereq. 11, or 3 yrs. of high school Latin)	III	MTWThF		Mr. Swanson

*Senior College Courses*

Courses 51, 52, 53, 63, 73-74-75, 81-82-83 are open to Junior College students who have an average grade of at least C in the prerequisite courses. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

51f	Selected Readings from Prose and Poetry (3 cred.; jr., sr.; prereq. 12, or 3 or 4 yrs. of high school Latin)				
		IX	MWF	110F	Mr. Swanson
52w	Horace (3 cred.; jr., sr.; prereq. 51 or 63)	IX	MWF		Mr. Swanson
63s	Plautus and Terence (3 cred.; prereq. § 12, or 4 yrs. of high school Latin)	II	TThS		Mr. Walton
73f-74w-75s†	Prose Composition (3 cred.; prereq. 12, or 4 yrs. of high school Latin)	Ar	Ar	Ar	Mr. Heller
111f-112w-113s†	Advanced Prose Composition (3 cred.; jr., sr., grad.; prereq. 73-74-75)	VII	T	110F	Mr. Heller
121f	Advanced Vergil (3 cred.; jr., sr., grad.; prereq.*)	II	MWF	118F	Mr. Walton
133s	Vulgar Latin (Development of Latin into Romance) (3 cred.; jr., sr., grad.; open to advanced students of Latin or a Romance language with the consent of instructor)	III	MWF		Mr. Swanson
142w	Tacitus (3 cred.; jr., sr., grad.; prereq.*)	II	MWF		Mr. Walton
171f,172w,173s	Independent Reading Course (3 cred. per qtr.; prereq.*; open to students of exceptional ability with the consent of department)	Ar	Ar	118F	Mr. Walton

*For Graduate Students Only*

241f-242w-243s	Graduate Seminar: Introduction to Classical Philology (9 cred.)	VIII, IX	Th	118F	Mr. Heller
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*Courses for Which No Knowledge of Greek or Latin Is Required*

14f-15w-16s	Basic Readings in Ancient Civilization (6 cred.; prereq. Hist. 14-15-16 or concurrent registration in the same)	VII	MF	209NH	Mr. Heller
24s	Greek and Latin Elements in English. (The same as English 24.) (2 cred.; soph., jr., sr.; no prereq.)	III	TTh		Mr. Swanson

\* Any two of the courses with numbers between 50 and 100.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

§ A student who enters in the spring quarter with three years of high school Latin may, by special permission, take Course 63s.

31f,32w	Greek and Latin Drama. (The same as English 31, 32.) (2 cred. per qtr.; soph., jr., sr.; no prereq.)			
		IV	MW 205F	Mr. Walton
42w	Greek Mythology. The origin and development of myths (2 cred.; soph., jr., sr.; no prereq.)			
		V	MW	Mr. Heller
43s	Ancient Mythology in Relation to Literature and Art (The same as English 43) (2 cred.; soph., jr., sr.; no prereq.)			
		V	MW	Mr. Heller
106f-107w	Introduction to the Study of Language (3 cred. per qtr.; jr., sr., grad.; prereq. any two courses numbered above 50 in a foreign language)			
		VIII	MWF 115F	Mr. Swanson
108s	Cultural Aspects of Language (3 cred.; jr., sr., grad.; prereq. any two courses numbered above 50 in a foreign language)			
		VIII	MWF	Mr. Swanson
192w,193s	Classical Literary Tradition (2 cred. per qtr.; jr., sr., grad.; prereq. 9 cred. in English or a foreign language)			
		Ar	Ar Ar	Mr. Swanson

COMMUNICATION

See General Studies, page 44.

COMPARATIVE PHILOLOGY AND LINGUISTICS

See Linguistics and Comparative Philology, page 61.

DRAWING AND DESCRIPTIVE GEOMETRY

(See Art, page 21.)

ECONOMICS

See page 162.

The courses listed there under the heading "Economics" are regularly open to students of the College of Science, Literature, and the Arts. For freshmen and sophomores, there are courses in industrial history, money and banking, the principles of economics, accounting, statistics, and secretarial training which includes typewriting, shorthand, and secretarial procedure; and for juniors and seniors there is a large variety of advanced courses. The courses under the heading "Business Administration" are normally open only to Business Administration Students.

EDUCATION

The following courses in Education are regularly open to students in the College of Science, Literature, and the Arts:

*Music Education*

Mu.Ed.63	Band Conducting
Mu.Ed.65	Instrumentation
Mu.Ed.68	Conducting of Instrumental Music and Survey of Materials

*Educational Psychology*

Ed.Psy.60	Introduction to Measurements and Statistics
Ed.Psy.120	Basic Principles of Measurement
Ed.Psy.140	Instruments and Techniques of Measurement
Ed.Psy.141	Group Aptitude Testing
Ed.Psy.142	Individual Aptitude Testing

† Students may enter either quarter.

### Physical Education

See pages 12 and 13, under the headings "Physical Education for Men" and "Physical Education for Women."

For hours, days, credits, prerequisites, etc., see the Education section of this *Combined Class Schedule*.

Other courses in Education may be taken by students of the College of Science, Literature, and the Arts only by special permission of the Students' Work Committee and the consent of the College of Education. Requests for the special permission should be submitted by Junior College students to Assistant Dean Cooper in 106 Folwell Hall and by Senior College students to Assistant Dean Buchta in 1946 Physics.

## ENGLISH

### Junior College Courses

A-B-C	Freshman English (See page 41)				
21f-22w-23s**	Introduction to Literature (15 cred.; prereq. *)				
	Sec. 1	III	MTWThF	301F	Miss Jackson
	2	VI	MTWThF	301F	Mr. Moore
22w-23s	Introduction to Literature (2nd and 3rd qtrs. of 21-22-23. See 21f-2w-23s)				
		VII	MTWThF		Mr. Montgomery
24s	Greek and Latin Elements in the English Language (The same as Classics 24) (2 cred.; soph., jr., sr.; no prereq.)				
		III	TTh		Mr. Swanson
31f-32w†	Greek and Latin Drama in English (The same as Classics 31, 32) (2 cred. per qtr.; soph., jr., sr.; no prereq.)				
		IV	MW	205F	Mr. Walton
37f-38w-39s†	Twentieth-Century Literature (9 cred.; soph., jr., sr.; prereq.*)				
		VII	MWF	301F	Mr. O'Connor (f,w) Mr. Bellow (s)
43s	Ancient Mythology in Relation to Literature and Art (The same as Classics 43) (2 cred.; soph., jr., sr.; no prereq.)				
		V	MW		Mr. Heller

Attention of students is called to Humanities 1-2-3, 11-12-13, and 21-22-23 (page 45).

### Senior College Courses

Courses 52-53, 54, 55-56, 62, 66-67, 73-74, and 75 are open to Junior College students who have an average grade of at least C in the prerequisite courses. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

52f-53w†	The English Novel (6 cred.; jr., sr.; prereq.§)				
		VII	MWF	204F	Mr. Hillhouse
54s	Morris, Pater, and Shaw (3 cred.; jr., sr.; prereq.§)				
		VI	MWF		Mrs. Phelan
55f-56w	Shakespeare (6 cred.; jr., sr.; prereq.§)				
	Sec. 1	I	TThS	113F	Mr. Hessler
	2	II	TThS	305F	Mr. O'Connor
	3	VI	MWF	104F	Miss Culhane
	4	VII	MWF	303F	Mr. Dunn
	5	VIII	MWF	303F	Mr. Buckley

\* English A-B-C or Composition 4-5-6 or Communication 1-2-3, or exemption from requirement.

§ Composition 4-5-6 or Communication 1-2-3, and 6 additional credits; or English A-B-C; or 10 credits in 21-22-23.

† Students may enter any quarter.

\*\* Students may enter any quarter. Two quarters are prerequisite to a major sequence; the second and third quarters are required for a teacher's certificate. Three quarters are recommended.

55w-56s	Shakespeare (see 55f-56w) Sec. 1-2	II; III	TThS	Mr. Moore; Miss Christie
	3-4	VI; VIII	MWF	Miss Atkins; Miss Turpie (w) Ar(s)
55s	Shakespeare (1st qtr. of 55-56. See 55f-56w) Sec. 1-2	I; II	TThS	Mr. Hessler; Mr. O'Connor
	3-4	VI; VII	MWF	Miss Culhane; Miss Atkins
	5	VIII	MWF	Mr. Buckley
56f	Shakespeare (2nd qtr. of 55-56. See 55f-56w) Sec. 1	II	MWF 305F	Miss Turpie
	2	II	TThS 311F	Mr. Moore
	3	III	TThS 304F	Ar
	4	VI	MWF 113F	Miss Atkins
62f	Milton (3 cred.; jr., sr.; prereq. 21-22 or 55-56)	IV	MWF 113F	Mr. Dunn
62w	Milton (See 62f)	II	MWF	Mr. Hessler
62s	Milton (See 62f)	VI	MWF	Mr. Dunn
66w-67s¶	The Literature of the Bible (Formerly 40-41, The Bible as Literature) (6 cred.; jr., sr.; prereq.**)	IV	MWF	Mr. Dunn
73f-74w¶	American Literature (6 cred.; jr., sr.; prereq.*)	II	MWF 211NH	Mr. H. N. Smith
75f	Chaucer (4 cred.; jr., sr.; prereq.*)	III	MTWF 113F	Miss Atkins
75w	Chaucer (See 75f)	III	MTWF	Mr. Werness
75s	Chaucer (See 75f)	III	MTWF	Mr. Dunn
97f-98w-99s	Independent Reading Course (9 cred.; jr., sr.; prereq. permission of instructor. Limited to 10 students)	Ar	Ar 111F	Mr. Hessler
100f	Old English (4 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C)	II	TWThF 205F	Mr. Allen
102w	Old English Poetry (3 cred.; jr., sr., grad.; prereq. 100)	II	MWF	Mr. Allen
103s	Beowulf (3 cred.; jr., sr., grad.; prereq. 100)	II	MWF	Mr. Allen
109f-110w	Romantic Poets of the Early Nineteenth Century (6 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C)	II	TThS 311½F	Mr. Monk
113s	American Short Story (3 cred.; jr., sr., grad.; prereq. 73-74)	I	MWF	Miss Turpie
115f-116w	The Development of English Prose Style (6 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C)	VI	MWF 213F	Mr. Brown
118f-119w	Nineteenth-Century Prose (6 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C or consent of instructor)	III	TThS 204F	Mr. O'Connor
120f-121w	The Interpretation of Poetry (6 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C)	IV	TThS 213F	Mr. Unger

\* Composition 4-5-6 or Communication 1-2-3, and 6 additional credits; or English A-B-C; or 10 credits in 21-22-23.

¶ Students may enter either quarter.

\*\* English A-B-C or Composition 4-5-6 or Communication 1-2-3 or exemption from requirement.

123f-124w	The Technique of the Novel (6 cred.; sr., grad.; prereq. 6 cred. in English literature above A-B-C and permission of instructor)	IX, X	T 204F	Mr. Beach
126f-127w	Drama, 1660-1850 (6 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C)	IV	MWF 305F	Miss Jackson
129s	Modern Drama, 1880 to the Present (3 cred.; jr., sr., grad.; prereq. 55-56 or 126-127)	VI	MWF	Mr. Hillhouse
134f	The Origins of American Naturalism (3 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C)	VI	MWF 311½F	Mr. Bowron
135s	Spenser (3 cred.; jr., sr., grad.; 6 prereq. cred. in English literature above A-B-C)	IV	MWF	Mr. Brown
136s	Advanced Shakespeare (3 cred.; jr., sr., grad.; prereq. 55-56)	VI	MWF	Mr. Brown
140w	Advanced Chaucer (4 cred.; jr., sr., grad.; prereq. 75)	VI	MTWTF	Mr. Clark
147f-148w-149s	The Literature of England in the Middle Ages Exclusive of Chaucer (9 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C including 75)	III	MWF 311½F	Mr. Clark
150s	Victorian Poetry (3 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C)	II	TThS	Mr. Montgomery
151s	Recent Poetry (4 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C)	IV	MTWTF	Miss Jackson
152w	Medieval and Early Elizabethan Drama (3 cred.; jr., sr., grad.; prereq. 55-56)	II	MWF	Mr. Brown
154w-155s¶	American Novel (6 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C)	III	TThS	Mr. Bowron
165f	Introduction to Modern English (Formerly the Historical Study of Modern English) (3 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C)	VII	MWF 311½F	Mr. Allen
166w	Historical Backgrounds of Modern English (3 cred.; jr., sr., grad.; prereq. 165)	VII	MWF	Mr. Allen
167w-168s	English Literary Criticism (6 cred.; jr., sr., grad.; prereq. 6 cred. in English Literature above A-B-C)	II	MWF	Mr. Unger
171f-172w-173s	The Rise and Development of Standard English (6 cred.; sr. with consent of instructor, grad.; prereq. 100 or equiv.)	VII, VIII	T 304F	Mr. Allen
174s	American English (3 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C)	VII	MWF	Mr. Allen
181w	Recent Trends in Literary Criticism (3 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C)	I	MWF	Mr. O'Connor
182s	The Far West in Literature (3 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C)	II	MWF	Mr. H. N. Smith
183f	The Poetry of T. S. Eliot (3 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C)	II	MWF 311½F	Mr. Unger
184f-185w-186s	The Interpretation of Drama (Formerly the Technique of the Drama) (The same as Speech 184-185-186) (9 cred.; jr., sr., grad.; prereq. 6 cred. in English Literature above A-B-C, 55-56 recommended)	IX, X	W 311½F	Mr. Bentley
187f-188w-189s	Eighteenth-Century Literature (9 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C)	VII	MWF 253TSF	Mr. Monk
191f	Imagery and Symbolism in English and American Literature (3 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C)	IV	MWF 311½F	Miss Atkins

¶ Students may enter either quarter.

194f Dr. Johnson and His Circle (3 cred.; jr., sr. with permission of instructor, grad.; prereq. 6 cred. in English literature above A-B-C)

III TThS 213F Mr. Moore

197f-198w-199s Seventeenth-Century Literature (9 cred.; jr., sr., grad.; prereq. 6 cred. in English literature above A-B-C)

III MWF 316F Mr. Dunn (f,w)  
Mr. Monk (s)

Attention is also called to: Classics 106, 107, 108; German 73-74-75, 183, 195; Italian 164; Linguistics 176, 177; Scandinavian 161, 171; Humanities 51-52-53, 61-62-63, 71-72-73.

### For Graduate Students Only

231f-232w-233s Shakespeare's Tragic and Comic Art (9 cred.; grad.; prereq. 3 cred. above 100 in Elizabethan literature)

IX, X T 312Lib. Mr. Brown

259f-260w-261s Nineteenth-Century Novel I (9 cred.; grad.; only 259 and 260 open to students who have taken 262-263-264)

IX, X Th 339Lib. Mr. Hillhouse

274f-275w-276s English Literature, 1700-1744 (9 cred.; grad.)

IX, X M 312Lib. Mr. Monk

277f-278w-279s American Realism (9 cred.; grad.; prereq. permission of instructor)

IX, X F 339Lib. Mr. H. N. Smith (f),  
Mr. Hornberger (w, s)

## COMPOSITION

### Junior College Courses

Af-Bw-Cs Freshman English (15 cred.; prereq. placement test. Corresponds to G.E.D. Test No. 1. See the *Bulletin of the College of Science, Literature, and the Arts*)

Af

Sec. 1a	I	MTWThF	6F	Ar	Sec. 5a	V	MTWThF	3F	Ar
Sec. 1b	I	MTWThF	8F	Ar	Sec. 5b	V	MTWThF	4F	Ar
Sec. 1c	I	MTWThF	11F	Ar	Sec. 5c	V	MTWThF	11F	Ar
Sec. 1d	I	MTWThF	12F	Ar	Sec. 5d	V	MTWThF	115F	Ar
Sec. 1e	I	MTWThF	321F	Ar	Sec. 5e	V	MTWThF	124F	Ar
Sec. 2a	II	MTWThF	11F	Ar	Sec. 5f	V	MTWThF	125F	Ar
Sec. 2b	II	MTWThF	306F	Ar	Sec. 6a	VI	MTWThF	11F	Ar
Sec. 2c	II	MTWThF	303F	Ar	Sec. 6b	VI	MTWThF	321F	Ar
Sec. 2d	II	MTWThF	110F	Ar	Sec. 6c	VI	MTWThF	311F	Ar
Sec. 3a	III	MTWThF	11F	Ar	Sec. 6d	VI	MTWThF	304F	Ar
Sec. 3b	III	MTWThF	206F	Ar	Sec. 7a	VII	MTWThF	11F	Ar
Sec. 3c	III	MTWThF	103TSF	Ar	Sec. 7b	VII	MTWThF	115F	Ar
Sec. 4a	IV	MTWThF	321F	Ar	Sec. 7c	VII	MTWThF	311F	Ar
Sec. 4b	IV	MTWThF	311F	Ar	Sec. 7d	VII	MTWThF	306F	Ar
Sec. 4c	IV	MTWThF	227F	Ar	Sec. 8a	VIII	MTWThF	11F	Ar
					Sec. 8b	VIII	MTWThF	124F	Ar

Aw-Bs Freshman English (2 qtrs. of A-B-C. See Af-Bw-Cs)

I MTWThF Ar Ar

Cf Freshman English (3rd qtr. of A-B-C. See Af-Bw-Cs)

Sec. 1 VI MTWThF 303F Ar  
2 VI MTWThF 9F Ar

4f-5w-6s	Freshman Composition (9 cred.; prereq. placement test. Corresponds to G.E.D. Test No. 1)									
Sec. 1a	I	MWF	9F	Ar	Sec. 7a	VII	MWF	227F	Ar	
Sec. 1b	I	MWF	311½F	Ar	Sec. 7b	VII	MWF	213F	Ar	
Sec. 1c	I	MWF	306F	Ar	Sec. 7c	VII	MWF	207F	Ar	
Sec. 2a	II	MWF	322F	Ar	Sec. 8a	VIII	MWF	125F	Ar	
Sec. 2b	II	MWF	311F	Ar	Sec. 8b	VIII	MWF	305F	Ar	
Sec. 3a	III	MWF	107TSF	Ar	Sec. 8c	VIII	MWF	311½F	Ar	
Sec. 3b	III	MWF	109TSF	Ar	Sec. 8d	VIII	MWF	311F	Ar	
Sec. 4a	IV	MWF	11F	Ar	Sec. 9a	IX	MWF	2F	Ar	
Sec. 4b	IV	MWF	2F	Ar	Sec. 9b	IX	MWF	11F	Ar	
Sec. 5a	V	MWF	202F	Ar	Sec. 9c	IX	MWF	311F	Ar	
Sec. 5b	V	MWF	206F	Ar	Sec. 9d	IX	MWF	303F	Ar	
Sec. 5c	V	MWF	207F	Ar	Sec. 10a	I	TThS	311½F	Ar	
Sec. 5d	V	MWF	209½F	Ar	Sec. 10b	I	TThS	316F	Ar	
Sec. 5e	V	MWF	212F	Ar	Sec. 11a	II	TThS	201F	Ar	
Sec. 5f	V	MWF	311½F	Ar	Sec. 11b	II	TThS	304F	Ar	
Sec. 5g	V	MWF	316F	Ar	Sec. 11c	II	TThS	113F	Ar	
Sec. 5h	V	MWF	321F	Ar	Sec. 12a	III	TThS	311½F	Ar	
Sec. 6a	VI	MWF	107TSF	Ar	Sec. 12b	III	TThS	321F	Ar	
Sec. 6b	VI	MWF	109TSF	Ar	Sec. 12c	III	TThS	322F	Ar	
Sec. 6c	VI	MWF	153TSF	Ar	Sec. 13a	IV	TThS	311½F	Ar	
					Sec. 13b	IV	TThS	304F	Ar	
4w-5s	Freshman Composition (2 qtrs. of 4-5-6. See 4f-5w-6s)									
Sec. 1				II		TThS	Ar		Ar	
2				III		TThS				
3				IV		TThS				
4				V		MWF				
5				VIII		MWF				
4s	Freshman Composition (1st qtr. of 4-5-6. See 4f-5w-6s)									
Sec. 1				III		TThS	Ar		Ar	
2				IV		TThS				
3				V		MWF				
4				VIII		MWF				
5f-6w	Freshman Composition (2nd. and 3rd. qtrs. of 4-5-6. See 4f-5w-6s)									
Sec. 1a	I	MWF	311F	Ar	Sec. 1e	I	MWF	205F	Ar	
Sec. 1b	I	MWF	304F	Ar	Sec. 1f	I	MWF	114F	Ar	
Sec. 1c	I	MWF	302F	Ar	Sec. 1g	I	MWF	3F	Ar	
Sec. 1d	I	MWF	209F	Ar	Sec. 1h	I	MWF	2F	Ar	
6f	Freshman Composition (3rd qtr. of 4-5-6. See 4f-5w-6s)									
Sec. 1a	VII	MWF	205F	Ar	Sec. 2f	VIII	MWF	204F	Ar	
Sec. 1b	VII	MWF	203F	Ar	Sec. 2g	VIII	MWF	113F	Ar	
Sec. 1c	VII	MWF	2F	Ar	Sec. 2h	VIII	MWF	2F	Ar	
Sec. 2a	VIII	MWF	316F	Ar	Sec. 2i	VIII	MWF	3F	Ar	
Sec. 2b	VIII	MWF	227F	Ar	Sec. 2j	VIII	MWF	5F	Ar	
Sec. 2c	VIII	MWF	207F	Ar	Sec. 2k	VIII	MWF	12F	Ar	
Sec. 2d	VIII	MWF	206F	Ar	Sec. 2l	VIII	MWF	103TSF	Ar	
Sec. 2e	VIII	MWF	205F	Ar						

Attention is called to Communication 1-2-3 (page 44).

7f,w,s	Composition Review—Not to be confused with Comp. 27 (3 cred.; prereq. Comp. 4-5-6 or Communication 1-2-3; not open to students who have taken Eng. A-B-C)									
				V		MWF	304F	Ar		
27f-28w*	Advanced Writing (6 cred.; prereq. A-B-C or Com. 1-2-3 or exempt. from requirement)									
Sec. 1	I	MWF	207F	Miss Helton	Sec. 9	IX	MWF	316F	Mr. Buckley	
Sec. 2	II	MWF	316F	Miss Culhane	Sec. 10	I	TThS	207F	Mr. R. Smith	
Sec. 3	III	MWF	115F	Ar(f)	Sec. 11	II	TThS	321F	Ar	
				Mr. Cronin(w)	Sec. 12	III	TThS	115F	Miss Bean	
Sec. 4	IV	MWF	316F	Miss Culhane	Sec. 13	IV	TThS	305F	Ar	
Sec. 5	V	MWF	204F	Ar(f)	Sec. 14	VI	TTh	213F	Miss McLaughlin	
				Miss Atkins(w)			VII	T		
Sec. 6	VI	MWF	316F	Mr. Gimmestad	Sec. 15	VII	TTh	311½F	Miss Christie(f)	
Sec. 7	VII	MWF	316F	Ar			VI	Th	Ar(w)	
Sec. 8	VIII	MWF	212F	Mr. Seeley						

\* To receive credit for any part of this course a student must complete 27-28 or 27, 29.



27w-28s*	Advanced Writing (See 27f-28w)					
Sec. 1	I	MWF	Miss MacLachlin	Sec. 6	VII MWF	Mrs. Smith
Sec. 2	II	MWF	Mrs. Rice	Sec. 7	I TThS	Mr. Steinman
Sec. 3	III	MWF	Miss Scallon	Sec. 8	II TThS	Mr. Unger
Sec. 4	IV	MWF	Mrs. del Plaine	Sec. 9	III TThS	Ar(w)
Sec. 5	VI	MWF	Mr. Buckley	Sec. 10	IV TThS	Mr. O'Connor(s) Ar(w) Mr. O'Connor(s)
27s*	Advanced Writing (1st qtr. of 27-28. See 27f-28w)					
Sec. 1	I	MWF	Miss Helton	Sec. 9	IX MWF	Mr. Buckley
Sec. 2	II	MWF	Miss Culhane	Sec. 10	I TThS	Mr. R. Smith
Sec. 3	III	MWF	Ar	Sec. 11	II TThS	Ar
Sec. 4	IV	MWF	Miss Culhane	Sec. 12	III TThS	Miss Bean
Sec. 5	V	MWF	Ar	Sec. 13	IV TThS	Ar
Sec. 6	VI	MWF	Mr. Gimmestad	Sec. 14	VI TTh	Miss McLaughlin
Sec. 7	VII	MWF	Ar		VII T	
Sec. 8	VIII	MWF	Mr. Seeley	Sec. 15	VI TTh VII Th	Miss Christie
28f*	Advanced Writing (2nd qtr. of 27-28. See 27f-28w)					
Sec. 1	I	MWF 213F	Ar	Sec. 6	VII MWF 304F	Mrs. Smith
Sec. 2	II	MWF 321F	Mrs. Rice	Sec. 7	I TThS 213F	Mr. Steinman
Sec. 3	III	MWF 322F	Miss Scallon	Sec. 9	III TThS 305F	Ar
Sec. 4	IV	MWF 322F	Mrs. del Plaine	Sec. 9	III TThS 305F	Ar
Sec. 5	VI	MWF 157TSF	Mr. Buckley	Sec. 10	IV TThS 316F	Ar
29f*	Advanced Writing (3 cred.; prereq. 27)					
Sec. 1			II	TThS	Ar	Mr. Hessler
			2			Mrs. del Plaine
				III	MWF	
29w*	Advanced Writing (See 29f)					
Sec. 1			II	MWF		Mrs. del Plaine
			2	III	MWF	Miss Atkins
			3	III	MWF	Ar
29s*	Advanced Writing (See 29)					
Sec. 1			II	TThS	Ar	Mr. Hessler
			2	III	MWF	Ar
			3	III	MWF	Ar

### Senior College Courses

Course 65 is open to Junior College students who have an average grade of at least C in the prerequisite courses.

Courses 67-68, 69-70-71, 81-82-83 are open to Junior College students who have an average of at least B in two quarters of Courses 27, 28, 29, 65.

Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

65s	The Writing of Term Papers and Theses (3 cred.; jr., sr.; prereq. A-B-C or 4-5-6 or Com. 1-2-3 and 6 additional cred. in English or Composition, or 10 cred. in Eng. 21-22-23)					
			VI	MWF	Ar	Ar
67f-68w	Problems of Style (6 cred.; jr., sr.; prereq. average of B in two qtrs. of 27, 28, 29, 65)					
			IV	MWF	304F	Mrs. Phelan
69f-70w-71s	Short-Story Writing (6 cred.; jr., sr.; prereq. average of B in two qtrs. of 27, 28, 29, 65)					
			VIII, IX	M	304F	Mrs. Phelan
101f-102w-103s	Seminar in Writing (9 cred.; sr., grad.; prereq. permission of instructor and for undergraduates 6 cred. above 50 in composition)					
	Sec. 1		VIII, IX	W	304F	Mrs. Phelan
	2		VIII, IX	F	304F	Mr. Bellow
104s	The Writing of Poetry (See also English 120-121) (3 cred.; sr., grad.; prereq. Eng. 120-121 or 6 cred. above 50 in composition, and permission of instructor)					
			IV	TThS		Mr. Unger

\* To receive credit for any part of this course a student must complete 27-28 or 27, 29.

## FAMILY LIFE

See General Studies, below.

## FRENCH

See Romance Languages, page 85.

## GENERAL STUDIES

## COMMUNICATION

Com.1f†††-  
2w-3s

Communication. This course is regarded as an equivalent of Composition 4-5-6 in satisfying any requirements of the University (Formerly Composition 4-5-6) (9 cred.; prereq. placement test, see *Bulletin of the College of Science, Literature, and the Arts*. Corresponds to G.E.D. Test No. 1)

Sec. 1a	I	MWF	10F	Ar	Sec. 8a	VIII	MWF	10F	Ar
1b	I	MWF	17F	Ar	8b	VIII	MWF	17F	Ar
2a	II	MWF	10F	Ar	9a	IX	MWF	10F	Ar
2b	II	MWF	17F	Ar	9b	IX	MWF	17F	Ar
3	III	MWF	10F	Ar	9c	IX	MWF	8F	Ar
4a	IV	MWF	10F	Ar	10	I	TThS	10F	Ar
4b	IV	MWF	17F	Ar	11a	II	TThS	10F	Ar
5a	V	MWF	10F	Ar	11b	II	TThS	17F	Ar
5b	V	MWF	17F	Ar	11c	II	TThS	8F	Ar
6	VI	MWF	10F	Ar	12	III	TThS	10F	Ar
7	VII	MWF	10F	Ar	13a	IV	TThS	10F	Ar
					13b	IV	TThS	17F	Ar

Com.1w†††-2s	Communication (2 qtrs. of 1-2-3. See 1f-2w-3s)								
	Sec. 1-2		I; VII	MWF	Ar				
Com.1s†††	Communication (1st qtr. of 1-2-3. See 1f-2w-3s)								
	Sec. 1-2		V; VIII	MWF	Ar				
Com.2f-3w	Communication (2nd. and 3rd. qtrs. of Com. 1-2-3. See 1f-2w-3s)								
			V	MWF	8F				
Com.3f	Communication (3rd. qtr. of Com. 1-2-3. See 1f-2w-3s)								
			V	MWF	9F				

## FAMILY LIFE

F.L.1f,w,s	Preparation for Marriage. (Formerly Marriage A) (3 cred.; no prereq.)								
	Sec. 1		II	MWF	6F				Ar
	2		II	MWF	107TSF				Ar
	3		II	TThS	9F				Ar
	4		II	TThS	6F				Ar
	5		V	MWF	6F				Ar
	6		V	MWF	107TSF				Ar
	7		VII	MWF	107TSF				Ar
	8		VII	MWF	9F				Ar
F.L.14f,w,s‡	Nutrition and Food Management (5 cred.; no prereq.) (Limited to 24 students)		VIII	MTWThF	5UHS				Mrs. MacKenzie
			IX		TTh				
F.L.15f,w	The Home and Its Furnishing (3 cred.; no prereq.)		IV	MWF	206WeH				Miss Esteros
F.L.15s	The Home and Its Furnishing (See 15f)		III	MWF					Miss Esteros
F.L.20s	Consumer Education (3 cred.; no prereq.)		II	TThS					Ar
F.L.25f,w,s	Child Development and Adjustment (3 cred.; no prereq.)		IV	MWF	202Pt				Mr. Hansen
	Fall		III	MWF					Mr. Hansen
	Winter		I	TThS					Mr. Hansen
	Spring								

‡ A fee of \$3 is charged for this course.

††† A fee of \$1 is charged for the first quarter of this course.

HUMANITIES

Junior College Courses

Hum.1f†††-	Humanities in the Modern World (15 cred.; each quarter of this course is a prereq. for those following)				
2w-3s					
	Sec. 1	I	MTWThF	305F	Mr. Bryan
	2	II	MTWThF	MNHAud	Mr. Cronin
	3	II	MTWThF	133Ph	Miss Shaw
	4	III	MTWThF	NHAud	Mr. McClosky
	5	III	MTWThF	159TSF	Mr. Bowdich
	6	IV	MTWThF	303F	Mr. Ames
	7	IV	MTWThF	209NH	Mr. Livingston
	8	V	MTWThF	301F	Mr. Loban
	9	V	MTWThF	213NH	Mr. Sylvester
	10	VI	MTWThF	NHAud	Mr. Bellow
	11	VII	MTWThF	166Ph	Mr. Livingston
					(f)
					Mr. Castell
					(w, s)
	12	VIII	MTWThF	150Ph	Miss Woll
Hum.1w†††	Humanities in the Modern World I (See Hum. 1f-2w-3s)				
		IV	MTWThF		Mr. Swanson
Hum.1s†††	Humanities in the Modern World I (See Hum. 1f-2w-3s)				
		V	MTWThF		Ar
Hum.2s	Humanities in the Modern World II (See Hum. 1f-2w-3s)				
		IV	MTWThF		Mr. Swanson
Hum.4f	Humanities in the Modern World IV (5 cred.; prereq. Humanities 1 or 2 or 3)				
		IV	MTWThF	NHAud	Mr. Swanson
Hum.11f†††	The Greek Heritage (5 cred.; no prereq.)				
		III	MTWThF	204F	Mr. Beach
Hum.12w	The Roman and the Medieval Heritage (5 cred.; no prereq.)				
		III	MTWThF		Mr. Beach
Hum.13s	The Renaissance Heritage (5 cred.; no prereq.)				
		III	MTWThF		Mr. Beach
Hum.21f†††-					
22w-23s*	American Life (Formerly Humanities in the United States 21-22-23 (3 cred.; no prereq.) (The same as American Studies 21-22-23)				
	Sec. 1	III	MWF	308F	Mr. Brown
	2	III	MWF	203TSF	Miss Turpie
	3	VII	MWF	6F	Mrs. Tyler

Senior College Courses

Senior College courses in this department are not open to Junior College students except by special permission of the Students' Work Committee.

Hum.51f†††-	Humanities in the Modern World. This course is similar to Humanities 1-2-3 except that it is confined to juniors and seniors. A student may not receive credit for any quarter of this course if he has completed the corresponding quarter of Humanities 1-2-3. (15 cred.; jr., sr.; no prereq.)				
52w-53s					
	Sec. 1	I	MTWThF	322F	Mr. Bentley
	2	VI	MTWThF	133Ph	Mr. Wolf
Hum.61f†††-					
62w-63s	The European Heritage; from Homer to Molière. This course is similar to Humanities 11-12-13 except that it is confined to juniors and seniors. A student may not receive credit for any quarter of this course if he has completed the corresponding quarter of Humanities 11-12-13. (15 cred.; jr., sr.; no prereq.)				
		I	MTWThF	303F	Mr. Clark

\* Students may enter any quarter.

††† A fee of \$1 is charged for the first quarter of this course.

Hum.71f†††- 72w-73s	Humanities in the United States. This course is similar to Humanities 21-22-23 except that it is confined to juniors and seniors. A student may not receive credit for any quarter of this course if he has completed the corresponding quarter of Humanities 21-22-23. (9 cred.; jr., sr.; no prereq.) (The same as American Studies 71-72-73)	VII	MWF	221Bu	Mr. Hornberger
Hum.132w- 133s	Humanities Proseminar. Topic for course: The Place of the Humanities in an Age of Science. (Formerly Humanities 97-98-99) (2 cred. per qtr.; sr., grad.)	Ar	Ar	Ar	Mr. Castell

## NATURAL SCIENCE

*Junior College Courses*

Nat.Sci.1f-2w- 3s*	Orientation in the Natural Sciences (15 cred.; fr., soph.; no prereq. Corresponds to G.E.D. Test No. 3. See the <i>Bulletin of the College of Science, Literature, and the Arts.</i> )	II	MTWThF	166Ph	Ar
Nat.Sci.4f†-5w†- 6s†	The Physical World. Essential elements of astronomy, physics, chemistry and geology, selected to illustrate the methods of science and to acquaint the student with the universe around him. (10 cred.; fr., soph.; no prereq.)	Lect. IV	MWF	166Ph	Mr. Buchta (f,w) Mr. Thiel(s)
	Lab. Sec. 1	VI-VII	M	Ar	Ar
	2	VIII, IX	M	Ar	Ar
	3	III, IV	T	Ar	Ar
	4	VI, VII	W	Ar	Ar
	5	III, IV	Th	Ar	Ar
	6	VI, VII	Th	Ar	Ar
	7	VI, VII	F	Ar	Ar
	8	I, II	S	Ar	Ar
Nat.Sci.7f††-8w††- 9s†††	General Biology (10 cred.; fr., soph., no prereq.)	Lect. II	MW	BoAud	Mr. Dahl, Mr. Minnich
	Lab. Sec. 1 (Limit 125)	I, II	TTh	Ar	Mr. Tryon, Mr. Osterud
	2 (Limit 60)	IX, X	W	Ar	
		I, II	S		
	3 (Limit 60)	IX, X	MF	Ar	

## PERSONAL ORIENTATION

Per.Or.1f,w,s	How To Study (2 cred.; no prereq. Written permission from the Junior College Counseling Office, 108 Folwell Hall, is necessary to take this course.)	Sec. 1	I	MWF	Ar	Mr. Herbert
		2	II	MWF	Ar	Mr. Herbert
		3	VIII	MWF	Ar	Miss Power
		4	IX	MWF	Ar	Miss Power
Per.Or.11f,w,s	Vocational Adjustment (Formerly Vocational Orientation 1) (2 cred.; no prereq.)	II	TTh	Ar	Mr. Page	
	and 1 hr. ar.					

\* Students may enter any quarter.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ A fee of \$1 per quarter is charged for this course.

†† A fee of \$1.50 per quarter is charged for this course.

††† A fee of \$1 is charged for the 1st quarter of this course.

## SOCIAL SCIENCE

*Junior College Courses*

Soc.Sci.1f-2w-3s	Introduction to Social Science. The entire course (12 cred.), but not any part of it, will satisfy the social science requirement for admission to the Senior College of Science, Literature, and the Arts and the College of Education. (12 cred.; no prereq. Corresponds to G.E.D. Test No. 2.)			
	Sec. 1	II	MTWF	104NH Mr. Naftalin
	2	III	MTWF	133Ph Mr. Levi
	3	IV	MTWF	200Pt Mr. Demetriou
	4	IV	MTWF	111NH Mr. Kampelman
	5	V	MTWF	111NH Mr. Berg
	6	VIII	MTWF	221Bu Mr. Kylonen
Soc.Sci.1w-2s	Introduction to Social Science (2nd and 3rd qtrs. of 1-2-3. See 1f-2w-3s)			
		V	MTWF	Ar
Soc.Sci.1s	Introduction to Social Science (1st qtr. of 1-2-3. See 1f-2w-3s)			
		II	MTWF	Ar

*Senior College Courses*

Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee. See the *Bulletin of the College of Science, Literature, and the Arts*.

Soc.Sci.71s	Design for America. (The same as Philosophy 71) (Formerly Philosophy 21) (5 cred.; designed primarily as a senior integrative course, but open to juniors on consent of instructor; no prereq.)			
		VI	MTWThF	Ar

## GEOGRAPHY

*Junior College Courses*

11f	Human Geography (5 cred.; no prereq.§)			
	Sec. 1	I	MTWThF	103Bu Mr. Davis
	2	II	MTWThF	103Bu Mr. Davis
	3	III	MTWThF	103Bu Mr. Brown
11w	Human Geography (See 11f)			
	Sec. 1-3	I; II; III	MTWThF	Ar
11s	Human Geography (See 11f)			
	Sec. 1-2	II; III		Ar
41f,w,s	Geography of Commercial Production (5 cred.; no prereq.§)			
	Sec. 1	V	MTWThF	103Bu Mr. Kress
	2	VI	MTWThF	103Bu Mr. Weaver

*Senior College Courses*

Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

53s	Historical Geography of North America (3 cred.; jr., sr.; prereq. 11, or 15 cred. in history)			
		IV	MWF	Mr. Brown
71f	Geography of North America (3 cred.; jr., sr.; prereq. 11)			
		VII	MWF	103Bu Mr. Weaver
102w	Trade Routes and Trade Centers (3 cred.; jr., sr., grad.; prereq. 41)			
		VII	MWF	Mr. Weaver
104s	Geography of Australasia (2 cred.; jr., sr., grad.; prereq. 11 or permission of instructor)			
		VII	MW	Mr. Weaver

§ There is no prerequisite for either Course 11 or Course 41; but students who intend to take both are advised to take Course 11 first.

110f	Geography of South America (3 cred.; jr., sr., grad.; prereq. 11 or permission of instructor)	IV	MWF	103Bu	Mr. Brown
120s	Geography of Asia (3 cred.; jr., sr., grad.; prereq. 11 or permission of instructor)	I	MWF		Mr. Davis
133w	Climatology (3 cred.; jr., sr., grad.; prereq. 10 cred. incl. 11)	IV	MWF		Mr. Brown

*Primarily for Graduate Students*

251f	Seminar	VII-VIII	T	Ar	Ar
252w	Seminar	VIII-IX	T		Mr. Brown
253s	Seminar	IX-X	T		Mr. Weaver
301f,w,s	Research Problems	Ar	Ar	Ar	Mr. Davis, Mr. Brown, Mr. Weaver

## GEOLOGY AND MINERALOGY

### *Junior College Courses*

There are two beginning courses in geology: Course 1-2 (with or without the laboratory course A-B); Course 8, which is a one-quarter course, without laboratory, for those who do not take geology to meet a laboratory science requirement.

1f-2w†	General Geology (Dynamic and Historical) (6 cred.; no prereq.)				
	Sec. 1	III	TThS	2P	Mr. Wright
	2	VI	MWF	2P	Mr. Swain
Af†-Bw§‡	General Geology Laboratory (Dynamic and Historical). (4 cred.; with or after 1-2)				
	Sec. 1	I, II	TTh	22P	Ar
	2	III, IV	WF	22P	Ar
	3	VI, VII	MW	22P	Ar
	4	VI, VII	TTh	22P	Ar
1w-2s†	General Geology Laboratory (Dynamic and Historical) (See 1f-2w)				
	Sec. 1	IV	TThS		Mr. Wright
	2	VII	MWF		Mr. Swain
Aw†-Bs‡§	General Geology Laboratory (Dynamic and Historical) (See Af-Bw)				
	Sec. 1-2	I, II; III, IV	MW		Ar
	3	VIII, IX	TTh		Ar
1s	General Geology (Dynamic) (1st qtr. of 1-2. See 1f-2w)				
	Sec. 1	III	TThS		Mr. Wright
	2	VI	MWF		Mr. Swain
As†§	General Geology Laboratory (Dynamic) (1st qtr. of A-B. See Af-Bw)				
	Sec. 1	I, II	TTh	Ar	Ar
	2	III, IV	TTh		Ar
	3	VI, VII	TTh		
	4	VI, VII	MW		
2f†	General Geology (Historical) (2nd qtr. of 1-2. See 1f-2w)				
		IV	MWF	110P	Mr. Swain
Bf†§	General Geology Laboratory (Historical) (2nd qtr. of A-B. See Af-Bw)				
		III, IV	TTh	20P	Ar
8f‡	Earth Features and Their Meaning—An Introductory Course (5 cred.; no prereq.)				
		II	MTWThF	2P	Mr. Thiel
8w‡	Earth Features and Their Meaning—An Introductory Course (See 8f)				
		III	MTWThF		Mr. Thiel
8s‡	Earth Features and Their Meaning—An Introductory Course. (See 8f)				
		II	MTWThF		Mr. Thiel
23f†-24w†	Elements of Mineralogy (10 cred.; soph., jr., sr.; prereq. a course in chemistry)				
	Lect.	I	MWF	110P	Mr. Gruner
	Rec.	VIII	T	110P	
	Lab.	VI, VII	TTh	100P	

† To receive credit for any part of this course a student must complete the parts preceding the dagger, except that students in Forestry may take 1 and A for 5 credits without completing 2 and B.

‡ A fee of \$1 is charged for this course.

§ Course A-B must be completed if geology is offered as the required laboratory science.

¶ Not open to students who have had Course 1. Does not satisfy the Junior College requirement for science. Cannot be followed by Course 1 for credit. May be followed by Course 2 or Course A with instructor's permission.

## Senior College Courses

Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

61w	Blowpipe Analysis (3 cred.; jr., sr.; prereq. 24)				
	Lect.	II	TThS		Mr. Gruner
	Lab.	VII, VIII IX	F Th		
91f-92w-93s	Invertebrate Paleontology (9 cred.; jr., sr.; prereq. 2 and 24)				
	Fall	VI, VII, VIII	TTh	105P	Mr. Bell
	Winter	VIII, IX	T		
	Spring	VI, VII VIII, IX VI, VII	WF T TTh		
100**	Field Work in Northern Minnesota—July 15 to 30, approximately. Students interested in this field trip should consult the department. (3 cred.; jr., sr.; prereq. 105)		Ar		Mr. Gruner
101f-102w	Sedimentation (6 cred.; jr., sr., grad.; prereq. 24)				
	Schedule for 101f Lect.	III	TThS	210P	Mr. Thiel
	Schedule for 102w Lect.	VI	T		Mr. Thiel
	Lab.	VII, VIII	TTh	208P	
103w-104s	Micropaleontology (6 cred.; jr., sr., grad.; prereq. 51 or 91)		Ar	Ar	Mr. Swain
105s	Rock Study (2 cred.; jr., sr., grad.; prereq. 24)				
	Lect.	I	TS		Mr. Grout
	Lab.	I, II	Th		
106f	Petrography (2 cred.; jr., sr., grad.; prereq. 105)				
		VI, VII	MW	200P	Mr. Grout
107f-108w-109s	Stratigraphic Paleontology (9 cred.; jr., sr., grad.; prereq. 93)		Ar	Ar	Mr. Bell
110f	Principles of Economic Geology (3 cred.; jr., sr., grad.; prereq. 105)	I	TThS	210P	Mr. Schwartz
111w	Ore Deposits—Metallic and Non-metallic (3 cred.; sr., grad.; prereq. 110)	I	TThS		Mr. Schwartz
112s	Geology of Petroleum (3 cred.; sr., grad.; prereq. 152 and 125)	I	TThS		Mr. Swain
114s	Geology of Minnesota and Adjoining Areas (3 cred.; jr., sr., grad.; prereq. 105)	IV	MWF		Mr. Thiel
118f	Principles of Geomorphology (3 cred.; jr., sr., grad.; prereq. 2)	IV	MW	220P	Mr. Wright
119w	Geomorphology of the United States (3 cred.; jr., sr., grad.; prereq. 2)	Ar	Ar	Ar	Mr. Wright
120s	Glacial Geology (3 cred.; jr., sr., grad.; prereq. 2)	Ar	Ar	Ar	Mr. Wright
121f	Crystallography (3 cred.; jr., sr., grad.; prereq. Math. 7 and Inorg. Chem. 6-7-8 or 9-10)	Ar	Ar	100P	Mr. Gruner
124w	Metamorphic Geology (3 cred.; jr., sr., grad.; prereq. 2 and 105)	II	MWF		Mr. Schwartz
125f	Structural Geology (3 cred.; jr., sr., grad.; prereq. 2 and 105)	II	MWF	218P	Mr. Wright
131w-132s	Advanced Petrology (10 cred.; jr., sr., grad.; prereq. 106)				
	Lect.	I	MWF	200P	Mr. Grout
	Rec.	VI	M	200P	
	Lab.	VI, VII	WF	200P	
137s	Principles of Chemical Geology (3 cred.; jr., sr., grad.; prereq. 105)	Ar	Ar	Ar	Mr. Gruner
140w-141s	Applied Petrography (6 cred.; jr., sr., grad.; prereq. 131)				
	Lect. (winter)	II	F		Mr. Grout
	Lab.	VIII, IX	MW		
	Lect. (spring)	IV	W		
	Lab.	VIII, IX	MW		

\*\* A more comprehensive report will be required for Graduate School credit.

144w	Interpretation of Geological Maps (3 cred.; jr., sr., grad.; prereq. 125)	VI, VII, VIII	WF		Mr. Wright
145s	Use and Interpretation of Aerial Photographs (3 cred.; jr., sr., grad.; prereq. 2)	VI, VII, VIII	TTh		Mr. Sharp
146f,w-147w,s	Soil Mineralogy (8 cred.; jr., sr., grad.; prereq. one year of college chemistry)	Ar	Ar	Ar	Mr. Gruner
150*	Field Geology (Black Hills)—June 15 to July 15, approximately (prereq. 125)	Ar	Ar	Ar	Mr. Gruner
152w-153s	Stratigraphy (6 cred.; jr., sr., grad.; prereq. 91)	III	MWF	110P	Mr. Bell
161w	Crystal Structure (3 cred.; jr., sr., grad.; prereq. 121, elem. phys. and anal. geom.)	Ar	Ar	Ar	Mr. Gruner
166w-167s	Mineralography (6 cred.; sr., grad.; prereq. 111, 131) (Winter) (Spring)	VI, VII	MTTh		Mr. Schwartz
170f,w,s	Geological Problems (3 cred.; jr., sr., grad.; prereq. permission of major adviser)	Ar	Ar	Ar	Ar

#### *Refresher Courses for War Veterans*

The following courses have been designed to fit the needs of students who entered military service before their major work was completed, and for those who took an accelerated program adopted as a war emergency measure. Some students were allowed to receive degrees without certain courses which are essential for competent professional work. These courses will aid in reorienting the student in the field of his major interest. No more than three of the following courses may be taken for credit by any one student. Student should consult a major adviser before registering.

113	Theory of Ore Deposits (3 cred.; sr., grad.; prereq. 112)	Mr. Schwartz
117	Paleontologic Problems (3 cred.; sr., grad.; prereq. 109)	Mr. Bell
122	Problems in Sedimentation (3 cred.; sr., grad.; prereq. 102)	Mr. Thiel
123	Advanced Mineralogy (3 cred.; jr., sr., grad.; prereq. 24)	Mr. Gruner
126	Advanced Structural Geology (3 cred.; sr., grad.; prereq. 125)	Mr. Grout, Mr. Schwartz
142	Petrographic Problems (3 cred.; sr., grad.; prereq. 131)	Mr. Grout

#### *For Graduate Students Only*

211-212-213	Advanced Paleontology	Mr. Bell, Mr. Swain
214	Seminar in Ore Deposits	Mr. Grout, Mr. Schwartz
215	Advanced Principles of Ore Deposits	Mr. Schwartz
216	Geology of the Ore Deposits of the Western Hemisphere	Mr. Schwartz
241	Field Course in Geology	Ar
243-244	Research Course in Geology	Mr. Grout, Mr. Gruner, Mr. Schwartz, Mr. Thiel, Mr. Sharp
245-246	Research Course in Sedimentation	Mr. Thiel

\* A maximum of 6 credits will be granted after field report is completed. The course will not be given for fewer than six students.



251-252	Original Mineralogical Problems	Mr. Gruner
253-254	Research Course in Ore Deposits	Mr. Grout, Mr. Gruner, Mr. Schwartz
263-264	Research Course in Petrology	Mr. Grout

## GEOPHYSICS

See Physics, page 71.

## GERMAN

*Junior College Courses*

1f-2w-3s*	Beginning Course—Standard section (15 cred.; no prereq.)			
Sec. 1a	I	MTWThF	212F	Ar
Sec. 1b	I	MTWThF	307MNH	Ar
Sec. 1c	I	MTWThF	102NH	Ar
Sec. 2a	II	MTWThF	213F	Ar
Sec. 2b	II	MTWThF	209NH	Ar
Sec. 3a	III	MTWThF	207F	Ar
Sec. 3b	III	MTWThF	143Ph	Ar
Sec. 4	IV	MTWThF	212F	Ar
5a	V	MTWThF	205F	Ar
5b	V	MTWThF	209F	Ar
6	VI	MTWThF	209½F	Ar
7	VII	MTWThF	209½F	Ar
8a	VIII	MTWThF	209½F	Ar
8b	VIII	MTWThF	308F	Ar
8c	VIII	MTWThF	301F	Ar
1w-2s	Beginning Course—Standard section (See 1f-2w-3s)			
	I; II	MTWThF		Ar
1s	Beginning Course—Standard section (See 1f-2w-3s)			
	I; II	MTWThF		Ar
1af-2aw-3as*	Beginning Course—Conversational section (15 cred.; no prereq.)			
Sec. 1	Demonstration	III	MTWThF	308MurH Ar
	Plus Laboratory Drill	IV	MTWThF	103TSF Ar
2	Demonstration	VII	MTWThF	209F Ar
	Plus Laboratory Drill	VIII	MTWThF	209F Ar
1bf-2bw-3bs*	Beginning Course—Reading section (15 cred.; no prereq.)			
	I	MTWThF	202NH	Ar
	VI	MTWThF	209NH	Ar
2f-3w	Beginning Course—Standard section (2nd and 3rd qtrs. of 1-2-3. See 1f-2w-3s) (10 cred.; prereq. 1 or more years of high school German)			
Sec. 1a	III	MTWThF	212F	Ar
1b	III	MTWThF	157TSF	Ar
2	VII	MTWThF	8F	Ar
3f	Beginning Course—Standard section (3rd qtr. of 1-2-3. See 1f-2w-3s) (5 cred.; prereq. 2 or two years of high school German)			
Sec. 1a	I	MTWThF	209½F	Ar
1b	I	MTWThF	209NH	Ar
2	II	MTWThF	209½F	Ar
3	V	MTWThF	201F	Ar
4a	VI	MTWThF	207F	Ar
4b	VI	MTWThF	221Bu	Ar
4f§	Intermediate German (5 cred.; prereq. 3 or 3a, or 3b or three years of high school German)			
Sec. 1a	III	MTWThF	209½F	Ar
1b	III	MTWThF	153TSF	Ar
2	IX	MTWThF	209½F	Ar
4w	Intermediate German (See 4f)			
	I; VI	MTWThF		Ar
4s	Intermediate German (See 4f)			
	III; VII	MTWThF		Ar

\* The sequence of courses that must be followed is 1-2-3, or 1a-2a-3a, or 1b-2b-3b.

§ For premedical students, 33 is recommended in place of 4.

20f,w,s	Reading and Speaking German (5 cred.; prereq. German 4, or four years of high school German or equiv.)	III	MTWThF	209F	Ar
24f-25w-26s	Chemical German (9 cred.; chemists, miners; no prereq.)	IV	MWF	209½F	Ar
24af-25aw-26as	Chemical German (12 cred.; pharmacists and agricultural students; no prereq.)	IV	MTWF	124F	Ar
27f-28w-29s	Chemical Prose (9 cred.; chemists, pharmacists, miners; prereq. two years of high school German or one year of college German)	IV	MWF	209F	Ar
33f,w,s§	Medical German (5 cred.; premed.; prereq. 3)	II	MTWThF	207F	Ar
	Sec. 1a	II	MTWThF	157TSF	
	1b	II	MTWThF	153TSF	
	1c	II	MTWThF	153TSF	
41f-42w-43s	Readings from German Chemical Periodicals (6 cred.; sr.; prereq. 26 or equiv.)	IV	TTh	209F	Ar

### Senior College Courses

Senior College courses with numbers less than 100 are open to Junior College students who have an average grade of at least C in the prerequisite courses. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

50f-51w-52s	Composition (6 cred.; jr., sr.; prereq. 4)	VI	MF	2J	Mr. Downs
53f-54w-55s	Conversation (6 cred.; jr., sr.; prereq. 4)	VI	TTh	205F	Mr. Genschmer
56f-57w	Essay Writing (6 cred.; jr., sr.; prereq. 52)	III	TThS	203F	Mr. Pfeiffer
58s	German Pronunciation (2 cred.; jr., sr.; prereq. 4)	III	TTh		Mr. Downs
59w,s	German Pronunciation and Diction (Open only to candidates for the German play) (1 or 2 cred.; jr., sr.; prereq. 3)	Ar	Ar	Ar	Ar
60w	Modern Writers (3 cred.; prereq. 4 or four years of high school German)	III	MWF		Ar
60s	Modern Writers (See 60w)	IV	MWF		Mr. Genschmer
61s	Lyrics and Ballads (3 cred.; jr., sr.; prereq. 3 cred. above 59)	II	MWF		Ar
63f	Classical Drama (3 cred.; jr., sr.; prereq. 60 or 4 with a grade of B)	IV	MWF	207F	Mr. Burkhard
64w	Nineteenth-Century Drama (3 cred.; jr., sr.; prereq. 3 cred. above 59)	IV	MWF		Mr. Burkhard
65s	Modern Drama (3 cred.; jr., sr.; prereq. 3 cred. above 59)	IV	MWF		Mr. Burkhard
70f-71w-72s	Survey of Literature (9 cred.; jr., sr.; prereq. 3 cred. above 59)	III	MWF	213F	Mr. Downs(f), Mr. Burkhard (w,s)
73f-74w-75s	German Classics in English Translation (6 cred.; sr.; no prereq.)	VII	MF	212F	Mr. Downs

For a complete list of graduate offerings see "The Graduate School Announcement."

Courses numbered 100 to 199 are open to seniors upon recommendation of advisers.

### COURSES IN GERMAN LITERATURE

153f-154w-155s	Modern Literature (9 cred.; sr., grad.; prereq. 63 or equivalent and 11 cred. above 59)	Ar	Ar	Ar	Mr. Genschmer
163f-164w-165s	The Nineteenth Century Novel (9 cred.; sr., grad.; prereq. 63 or equivalent and 11 cred. above 59)	VIII, IX, X	F	316Lib	Mr. Pfeiffer

§ For premedical students, 33 is recommended in place of 4.

COURSES IN LINGUISTICS AND PHILOLOGY

110f-111w- 112s	Middle High German. Linguistic introduction and readings in Middle High German literature. (9 cred.; sr., grad.; prereq. 68 and 11 cred. above 59)	Ar	Ar	Ar	Mr. Downs
176f-177w	Problems and Research. Trends in Germanic Philology (6 cred.; sr., grad.; prereq. two Germanic dialects)	VIII, IX, X	W	302F	Ar
183s	Germanic Heroic Poetry (The same as Scandinavian 183) (3 cred.; sr., grad.; prereq. 68 and 9 cred. above 59)	VIII, IX, X	W		Ar

GREEK

See Classics, page 35.

HISTORY

*Junior College Courses*

Most of these courses are announced for f-w-s or w-s; but students may enter any quarter.

1f-2w-3s	Civilization of the Modern World (9 cred.; no prereq.)				
	Lect. Sec. 1	II	TTh	BuAud	Mr. Wolf
	Rec. Sec.*	I	M	218P	
		I	T	114F	
		I	Th	114F	
		I	F	218P	
		II	M	110P	
		II	W	110P	
		II	S	101F	
		IV	T	218P	
		IV	Th	218P	
		VIII	T	210P	
		VIII	Th	210P	
	Lect. Sec. 2	VII	MW	BuAud	Mr. Wolf
	Rec. Sec.	I	W	218P	
		IV	T	210P	
		VI	Th	218P	
		VII	T	218P	
		VII	Th	218P	
		VII	F	110P	
		VIII	T	218P	
		VIII	Th	218P	
		IX	T	218P	
		IX	Th	218P	
1w-2s	Civilization of the Modern World (2 qtrs. of 1-2-3. See 1f-2w-3s)				
	Lect.	II	MW		Mr. Deutsch
	Rec. Sec.	II	T		
		II	Th		
		VI	T		
		VI	Th		
3f	Civilization of the Modern World (3rd qtr. of 1-2-3. See 1f-2w-3s)				
	Lect.	II	MW	206Pt	Mr. Deutsch
	Rec. Sec.	II	T	200Pt	
		II	Th	200Pt	
		VI	T	200Pt	
		VI	Th	200Pt	

\* Recitation sections in Courses 1f, 2w, 3s and 20f, 21w and 22s will not meet until after the first lecture.

4f-5w-6s	English History (9 cred.; no prereq.)			
	Lect.	II	MW	BuAud Mr. Rife
	Rec. Sec.	I	T	9F
		I	Th	9F
		I	S	9F
		II	T	9F
		II	Th	9F
		II	S	9F
		III	T	9F
		III	Th	9F
		V	T	9F
		VII	T	9F
		VII	Th	9F
11f-12w-13s	Medieval History (9 cred.; for music and art students only; no prereq.)			
		IV	MWF	207NH Mr. Krey,
		VII	MWF	112Bu Miss Thompson
14f-15w-16s	Ancient Civilization (9 cred.; no prereq.)			
		VII	TWTh	207NH Mr. Jones
14Af-15Aw-16As	Ancient Civilization with Basic Readings (15 cred.; no prereq. This course is a combination of History 14-15-16 and Classics 14-15-16, see page 36)			
		VII	MF	3MNH Mr. Heller
			TWTh	207NH Mr. Jones
17s	Modern Economic and Social Problems (5 cred.; 3rd qtr. fr., soph., jr., sr.; no prereq.)			
	Lect.	II	TThS	Mr. Heaton
	Rec. Sec.	III; VIII	TTh	
20f-21w-22s	American History (9 cred.; soph., jr., sr.; no prereq.)			
	Lect. Sec. 1	II	TTh	206Pt Mr. Osgood,
	Rec. Sec.*	II	F	103TSF Mr. Loehr
		IV	T	111Bu
		IV	Th	111Bu
		IV	F	104NH
	Lect. Sec. 2	VIII	TTh	206Pt Ar
	Rec. Sec.*	VI	F	108NH
		VII	F	207NH
		VIII	M	9F
		IX	M	111Bu

### Senior College Courses

Except where otherwise stated, there are no prerequisites for the courses numbered 50 to 100. Most of these courses are announced for f-w-s or w-s, but students may enter any quarter.

Course 70-71-72 is open to prelegal sophomores who have completed Course 4-5-6 or Course 1-2-3 with a grade of at least C, and also to prelegal sophomores who have an average grade of C in all their work, even if that work includes no course in history. Senior College courses with numbers less than 100 are open to third quarter sophomores who have an average grade of at least C in 9 credits of history. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

50af-51aw-52as	History of Rome (9 cred.; jr., sr.)			
		I	TThS	112Bu Mr. Jones
53af-54aw-55as	Renaissance and Reformation (9 cred.; jr., sr.)			
		III	MWF	221Bu Mr. Krey
56f-57w-58s	Continental Europe (9 cred.; jr., sr.)			
		IV	MWF	111Bu Mr. Steefel
56af-57aw-58as	Russia (9 cred.; jr., sr.)			
		IV	MWF	102L Mr. Anderson
56bf-57bw-58bs	History of the Middle East (9 cred.; jr., sr.; prereq. 1-2-3)			
		VI	MWF	111Bu Mr. Anderson

\* Recitation sections in Courses 1f, 2w, 3s and 20f, 21w and 22s will not meet until after the first lecture.

65f-66w-67s	Europe in the Twentieth Century (9 cred.; jr., sr.)	I	MWF	211Bu	Mr. Deutsch
67aw-67bs	World War II (6 cred.; jr., sr.; prereq. senior standing or Hist. 66-67)	II	MWF	Ar	
68w-69s	American History since 1900 (6 cred.; jr., sr.)	VII	MWF		Mr. Stephenson
68af-69aw	The Immigrant in American History and Life (6 cred.; jr., sr.)	III	MWF	111Bu	Mr. Stephenson
70f-71w-72s	English Constitutional History (9 cred.; open to prelegal soph. with at least a C average in Courses 4-5-6, 1-2-3, or in all their college work, and to all jrs. and srs.)	I	MW	BoAud	Mr. Willson
	Lect. Sec. 1	I	F	216NH	
	Rec. Sec.*	I	F	202Pt	
		III	Th	106NH	
		VI	F	143Ph	
		VIII	F	9F	
	Sec. 2	I	MWF	111Bu	Miss Thompson
70w-71s	English Constitutional History. (1st. and 2nd. qtr of 70-71-72. See 70f-71w-72s)	I	TThS		Miss Thompson
72f	English Constitutional History (3rd. qtr. of 70-71-72. See 70f-71w-72s)	I	TThS	202Pt	Miss Thompson
73f-74w-75s	Modern England (9 cred.; jr., sr.)	II	MWF	111Bu	Mr. Willson
76f-77w-78s	Canadian History and Canadian-American Relations (9 cred.; jr., sr.)	III	TThS	221Bu	Mr. Warner
79af-79bw-79cs	Foundations of National Power (9 cred.; jr., sr.; no prereq.)	VII	MWF	211Bu	Mr. Loehr
80f-81w-82s	Introduction to Economic History of Europe (9 cred.; jr., sr.; no prereq.)	I	TThS	111Bu	Mr. Heaton
83f-84w-85s	American Economic and Social History (9 cred.; jr., sr.)	I	TThS	100NH	Mr. Loehr
83as	American Agricultural History (3 cred.; soph., jr., sr.)	II	MWF		Mr. Loehr
86f-87w-88s	American Colonies (9 cred.; jr., sr.)	II	MWF	112Bu	Mrs. Tyler
86af-87aw-88as	Social and Intellectual History of the United States. (9 cred.; jr., sr.)	III	MWF	209Bu	Mrs. Tyler
89w	Economic History of Modern War (3 cred.; jr., sr.)	III	TThS		Mr. Heaton
90f-91w-92s	The American West (9 cred.; jr., sr.)	III	TThS	111Bu	Mr. Osgood
93f-94w-95s	American Diplomatic History (9 cred.; jr., sr.)	VI	MWF	112Bu	Mr. Beatty
93af-94aw-95as	Survey of Latin-American History (9 cred.; jr., sr.)	VIII	MWF	112Bu	Mr. Beatty
97f-98w-99s	Minnesota and the Northwest (9 cred.; jr., sr.)	III	MWF	301Lib	Mr. Jordan

Courses numbered 150 to 200 are open to seniors, and to graduate students upon recommendation of advisers; prerequisites are appropriate lecture courses and consent of the department.

130f-131w-132s	Intellectual and Social History of Western Europe (9 cred.; jr., sr., grad.)	VII	MWF	2J	Mr. Wolf
143f-144w-145s	American Folklore (9 cred.; jr., sr., grad.)	I	MWF	112Bu	Mr. Jordan
150f-151w-152s	Selected Readings in Ancient History. (9 cred.; sr., grad.) (The same as Anthropology 150-151-152)	Ar	Ar	Ar	Mr. Jones
153f-154w-155s	Selected Readings in Medieval and Renaissance History. (9 cred.; jr., sr., grad.)	VIII, IX	W	328Lib	Mr. Krey

\* Recitation sections in Courses 1f, 2w, 3s and 20f, 21w and 22s will not meet until after the first lecture.

156f-157w-158s	Selected Readings in European History (9 cred.; sr., grad.)						
	Recent European History	Ar		Ar Ar			Mr. Deutsch
	Seventeenth Century France (prereq. reading knowledge of French)		VIII, IX		M	106ABu	Mr. Wolf
	Russian History (prereq. 56a- 57a-58a and reading knowl- edge of Russian, German, or French, or consent of instruc- tor)	Ar		Ar Ar			Mr. Steefel
170f-171w-172s	Selected Readings in English History. Tudor and Stuart periods (9 cred.; sr., grad.)		VIII, IX		Th	314Lib	Mr. Willson
180f-181w-182s	Selected Readings in European Economic History Since 1700 (9 cred.; sr., grad.)		VI, VII		T	111Bu	Mr. Heaton
183f-184w-185s	Selected Readings in American Economic History (9 cred.; sr., grad.)		VI, VII		Th	301Lib	Mr. Loehr
190f-191w-192s	Selected Readings in American History (9 cred.; sr., grad.)						
	Third Party Movement since the Civil War		VI, VII		T	328Lib	Mr. Stephenson
	Some Phases of Early American Social and Intellectual History		VI, VII		Th	328Lib	Mrs. Tyler
	The Mississippi Valley		VIII, IX		W	339Lib	Mr. Osgood

*For Graduate Students Only*

201f-202w-203s	Historical Bibliography and Criticism (Required of candidates for advanced degrees in history who do not present evidence of similar training elsewhere) (1 cred. per qtr.)		IV		S	339Lib	Mr. Steefel and others
208f-209w-210s	Seminar in American History (9 cred.)						Mr. Osgood, Mr. Loehr
221f-222w-223s	Seminar in Economic History (9 cred.)						Mr. Heaton
224f-225w-226s	Seminar in Modern European History (9 cred.)						Mr. Steefel
240f-241w-242s	Seminar in Latin-American History (9 cred.)						Mr. Jones, Mr. Beatty

### HOME ECONOMICS

See page 148.

### HOW TO STUDY

See General Studies, page 46.

### HUMAN PHYSIOLOGY

See Physiology, page 73.

### ITALIAN

See Romance Languages, page 85.

### JAPANESE

1f-2w-3s	Beginning Japanese (15 cred.; no prereq.)		VII		MTWThF	103TSE	Mrs. Syro- Boyarsky
51f-52w-53s	Advanced Japanese (3 cred.; jr., sr.; prereq. 3)		VIII		MWF	101NH	Mrs. Syro- Boyarsky
61f-62w-63s	Advanced Japanese Reading (9 cred.; jr., sr.; prereq. 51-52-53)		Ar		Ar		Mrs. Syro- Boyarsky

JOURNALISM

Junior College Courses

5s	The American Newspaper (3 cred.; 3rd. qtr. fr., soph., with average of C, jr., sr.; not open to journalism majors; no prereq.)	II	TThS	Mr. Ford
10f,w,s,††	Photography (The same as Fine Arts 10) (3 cred.; soph., jr., sr.; no prereq.)	V	T 311MurH	Mr. Nestler
	Lect.	VI, VII	MW 20MurH	Mr. Nestler
	Lab. Sec. 1	I, II	WF 20MurH	Mr. Nestler
	2			
11f	Introduction to Reporting (for journalism minors in the College of Agriculture, Forestry and Home Economics, College of Education, Institute of Technology, and the School of Business Administration). (3 cred.; soph., jr., sr., with average of C; prereq. Eng. A-B-C or Comp. 4-5-6 or Com. 1-2-3 or Rhetoric 1-2-3 or exemption from English requirement)	I	MWF 311MurH	Mr. Janson
	Sec. 1	I	TThS 311MurH	Mr. Ford
	2	IV	MWF 311MurH	Mr. Haapa
	3			
13f	Introduction to Reporting (for majors) (3 cred.; soph., jr., sr., with average of C; prereq. Eng. A-B-C or Comp. 4-5-6 or Com. 1-2-3 or exemption from English requirement)	I, II	MWF 212MurH	Mr. Hage
	Sec. 1	III, IV	MWF 212MurH	Mr. Gerald
	2	VI, VII	MWF 212MurH	Mr. Haapa
	3	VIII, IX	MWF 212MurH	Mr. Charnley
	4	I, II	TThS 212MurH	Mr. Duncan
	5	III, IV	TThS 212MurH	Mr. Emery
	6	VI, VII, VIII	TTh 212MurH	Mr. Jensen
	7	III, IV	MWF 210MurH	Mr. Duncan
	8			
13w	Introduction to Reporting. (See 13f)	I, II; III, IV; VIII, IX	MWF	Mr. Duncan; Mr. Duncan; Mr. Hage
	Sec. 1-3			
	4	I, II	TThS	Mr. Kearl
	5	VI, VII, VIII	TTh	Mr. Kildow
14w	Newspaper Reporting (for majors) (Students must complete 15 to receive credit for 14) (3 cred.; soph., jr., sr.; prereq. C average in 13 and in all work, or consent of instructor, and Comp. 27-28§)	I, II; III, IV; VI, VII; VIII, IX	MWF	Mr. Hage; Mr. Janson; Mr. Haapa; Mr. Jensen
	Sec. 1-4			
	5-6	I, II; III, IV	TThS	Mr. Emery; Mr. Sabine
	7	VI, VII, VIII	TTh	Mr. Charnley
14s	Newspaper Reporting (See 14w)	I, II; III, IV; VIII, IX	MWF	Mr. Haapa; Mr. Janson; Mr. Sabine
	Sec. 1-3			
	4	I, II	TThS	Mr. Kearl
15f	Newspaper Reporting (for majors) (3 cred.; soph., jr., sr.; prereq. C average in 13-14 and in all work, or consent of instructor, and Comp. 27-28§)	I, II	MWF 210MurH	Ar
	Sec. 1	VI, VII	MWF 210MurH	Mr. Emery
	2	VIII, IX	MWF 210MurH	Mr. Gerald
	3	I, II	TThS 210MurH	Mr. Haapa
	4	VI, VII, VIII	TTh 210MurH	Mr. Hage
	5			

§ May be taken at the same time.

†† A fee of \$5 is charged for this course.

15a	Newspaper Reporting (See 15f) Sec. 1-4	I, II; III, IV; VI, VII; VIII, IX	MWF	Mr. Emery; Mr. Duncan; Mr. Haapa; Mr. Jensen
	5	I, II	TThS	Mr. Charnley
	6	VI, VII, VIII	TTh	Mr. Hage
41w‡	Editing for Nonmajors (not open to director of the School of Journalism) (3 cred.; jr., sr.; prereq. 11 or 13)	S. L. and A. students	without permission of the	
	Lect. Sec. 1-2	I; IV	MW	Mr. Ford
	Lab. Sec. 1	VI, VII	Th	Mr. Haapa
	2	VIII, IX	M	Mr. Ford
	3	VIII, IX	F	Mr. Ford
	4	VI, VII	T	Mr. Haapa
	5	I, II	Th	Mr. Haapa
	6	VIII, IX	W	Mr. Wilson
	7	I, II	T	Mr. Haapa

### Senior College Courses

Senior College courses in the School of Journalism are open to Junior College students only by special permission of the Students' Work Committee.

51f‡‡	News Editing (3 cred.; jr., sr.; prereq. 14 and Senior College standing)			
	Lect.	V	T	105MurH Mr. Kildow
	Lab. Sec. 1	VI, VII	M	320MurH Mr. Janson
	2	VI, VII	W	320MurH Mr. Janson
	3	VIII, IX	M	320MurH Ar
	4	VIII, IX	W	320MurH Ar
	5	I, II	T	320MurH Mr. Janson
	6	I, II	Th	320MurH Mr. Janson
	7	III, IV	T	320MurH Mr. Eddy
	8	III, IV	Th	320MurH Mr. Eddy
	9	VI, VII	Th	320MurH Mr. Janson
	10	VII, VIII	T	320MurH Ar
51w‡‡	News Editing (See 51f)			
	Lect.	V	Th	Mr. Emery
	Lab. Sec. 1	VIII, IX	T	Mr. Emery
	2	VIII, IX	Th	Mr. Emery
	3	III, IV	T	Mr. Ford
51s‡‡	News Editing (See 51f)			
	Lect.	V	T	Mr. Janson
	Lab. Sec. 1	III, IV	W	Mr. Eddy
	2	VI, VII	Th	Mr. Janson
	3	III, IV	T	Mr. Janson
52f‡‡‡	News Editing (3 cred.; jr., sr.; prereq. 51 and 55)			
	Lect.	V	T	308MurH Mr. Emery
	Lab. Sec. 1	VIII, IX	TTh	206, 315MurH Mr. Janson
	2	VIII, IX	TTh	315, 206MurH Ar
	3	VI, VII	MF	315, 206MurH Ar
	4	VIII, IX	WF	206, 315MurH Ar
	5	III, IV	MW	206, 315MurH Mr. Eddy

‡ A fee of \$3 is charged for this course per quarter.

‡‡ A fee of \$2 is charged for this course.

‡‡‡ A fee of \$1 per credit is charged for this course.



52w†††	News Editing (See 52f)				
	Lect.	V	T		Mr. Kildow
	Lab. Sec. 1-2	VIII, IX	TTh		Mr. Janson; Mr. Haapa
	3	III, IV	ThS		Mr. Eddy
	4	VI, VII	MW		Mr. Janson
	5-6	VI, VII; VIII, IX	WF		Mr. Janson
	7	III, IV	MW		Mr. Eddy
52s†††	News Editing (See 52f)				
	Lect.	V	T		Mr. Emery
	Lab. Sec. 1-2	VIII, IX	TTh		Mr. Janson; Mr. Haapa
	3	VI, VII	WF		Mr. Eddy
55f,w,s†††	Advertising and Newspaper Typography (3 cred.; jr., sr., prereq. for journalism majors, Senior College standing; for minors, 11 or 13 and 41)				
	Lect. Sec. 1	VII	M 308MurH		Mr. Barnhart
	2	II	F 308MurH		Mr. Wilson
	Lab. Sec. 1	VIII, IX	MW 315MurH		Mr. Barnhart
	2 (fall only)	VI, VII	WF 315MurH		Mr. Wilson
	3	I, II	MW 315MurH		Mr. Wilson
	4	III, IV	MF 315MurH		Mr. Wilson
	5	I, II	TTh 315MurH		Mr. Wilson
	6 (fall only)	III, IV	TS 315MurH		Mr. Wilson
	7	VI, VII	TTh 315MurH		Mr. Barnhart (f) Mr. Wilson (w,s)
	8 (fall only)	Ar	Ar 315MurH		Mr. Wilson
58w††	Advanced Typography (2 cred.; jr., sr.; prereq. 55 and consent of instructor)	Ar	Ar		Mr. Barnhart
63f	Development of Radio Broadcasting (3 cred.; jr., sr. journalism majors and speech-radio majors; prereq. 15 for journalism majors, 13 for speech-radio majors, or consent of instructor)				
		III	TThS 302MurH		Mr. Charnley
65f,s*	Graphic Arts: Processes (3 cred.; jr., sr.; prereq. consent of major adviser in the School of Journalism or in the School of Business Administration)				
		IV	MWF 105MurH		Mr. Barnhart
66f,w,s†	News Photography (3 cred.; jr., sr.; prereq. consent of instructor)				
	Lect.	VIII	M 311MurH		Mr. Kildow
	Lab. Sec. 1	VIII, IX	WF 20MurH		Mr. Kildow
	2	I, II	TTh 20MurH		Mr. Kildow
67f,w,s††	Radio News Writing (3 cred.; jr., sr.; prereq. 15)				
	Lect.	VII	WF 302MurH		Mr. Janson; (f,s), Mr. Charnley(w)
	Lab.	III, IV	Ar 202MurH		Mr. Jensen
68s††	Problems in Radio Writing (3 cred.; jr., sr.; prereq. for journalism majors, 51 and consent of instructor; for speech-radio majors, 13 and consent of instructor)				
		VI	MWF		Mr. Charnley
69s	Newspaper and Magazine Articles. (For minors only) (3 cred.; jr., sr.; prereq. 41)				
		I	MWF		Mr. Hage
73f-74w	Magazine Writing and Editing (6 cred.; jr., sr.; prereq. for 73, 15; for 74, 73 and consent of instructor)				
	Lab. Sec. 1	VI	MWF 105,302MurH		Mr. Charnley
	2 (fall only)	VI	MWF 105MurH		Mr. Hage
	3 (fall only)	VI	MWF 105,311MurH		Mr. Sabine

\* This course is one of the three related courses of special interest to students of journalism and advertising. The other two, listed elsewhere in this bulletin, are Drawing 64w, Graphic Arts, and Business Administration 194s, Advanced Advertising Procedure.

† A fee of \$5 is charged for this course.

†† A fee of \$2 is charged for this course.

††† A fee of \$1 per credit is charged for this course.

73s	Magazine Writing and Editing (See 73f) Sec. 1-2	I	MWF	Mr. Kildow
76f	Critical Writing (3 cred.; jr., sr.; prereq. consent of instructor)	II	TThS 311MurH	Mr. Ford
78f	Public Relations (3 cred.; jr., sr.; prereq. 15 or 69)	I	MWF 308MurH	Mr. Kildow
82s	Supervision of School Publications (3 cred.; jr., sr.; prereq. 41 or 51)	VI	MWF	Mr. Kildow
86f,w,s	Advertising Copy Writing (3 cred.; jr., sr.; prereq. 51 or 41, and 55, 65)	VI	MWF 308MurH	Ar
93f	Weekly Editorial Administration (3 cred.; jr., sr.; prereq. 51 or concurrent registration in 51)	II	TThS 308MurH	Mr. Barnhart
94w,s	Newspaper Advertising (3 cred.; jr., sr.; prereq. 51 and 55, or 41, 55, and consent of instructor. Enrolment of non-majors is sharply limited) Schedule for winter Schedule for spring	II II I	TThS TThS TThS	Mr. Barnhart Mr. Barnhart Mr. Gerald
95s	Circulation and Newspaper Management (3 cred.; jr., sr.; prereq. 51)	II	TThS	Mr. Barnhart
99f,w,s	Readings in Journalism (Cred. ar., not to exceed 3; sr. journalism majors only; prereq. B average in journalism courses and consent of the director of the school)	Ar	Ar Ar	Staff
101w,s	The Reporting of Public Affairs (3 cred.; jr., sr., grad.; prereq. 51) Sec. 1	III	TThS	Mr. Nafziger (w) Mr. Duncan (s)
	2 (winter only)	III	TThS	Mr. Gerald
	3 (spring only)	III	MWF	Mr. Hage
103s	Literary Aspects of Journalism (3 cred.; jr., sr., grad.; prereq. consent of instructor)	IV	MWF	Mr. Ford
104s	Advanced Newspaper Advertising (2 cred.; jr., sr., grad.; prereq. 51, 94, and consent of instructor)	VIII	TTh	Mr. Barnhart
109w-110s	History of Journalism (6 cred.; jr., sr., grad.; prereq. 13 and Senior College standing)	II	MWF	Mr. Ford
111f	International Communications and the Foreign Press (3 cred.; jr., sr., grad.; prereq. 51 and a history or political science course in international relations, or consent of instructor)	II	MWF 311MurH	Mr. Nafziger
112s	Current Newspaper Problems (3 cred.; sr., grad.; prereq. 51) Sec. 1-5	VI, VII	TTh	Ar
115s	Communication Media Analysis (3 cred.; jr., sr., grad.; prereq. 51 or consent of instructor, or Econ. 5 or Psy. 70 or equivalent and consent of instructor)	III	MWF	Mr. Nafziger
121w	The Newspaper in a Dynamic Society (3 cred.; jr., sr., grad.; prereq. 15 and consent of instructor)	I	MWF	Mr. Gerald
130f-131w	Communication Agencies and Public Opinion (6 cred.; jr., sr., grad.; prereq. 15 cred. in the social studies)	III	MWF 105, 311MurH	Mr. Casey
140f-141w	Interpretation of Contemporary Affairs (6 cred.; sr., grad.; prereq. 51 and 10 cred. in the social studies or consent of major adviser in journalism) Lect. Lab. Sec. 1 2 3 4	VI IV VII VII VII	TTh 105MurH T 302MurH T 311MurH T 308MurH T 206MurH	Staff Mr. Duncan Mr. Emery Mr. Gerald Mr. Kearl (f) Mr. Hage (w)
150s	Public Relations in Community Services (2 cred.; sr., grad.; prereq. consent of major adviser and instructor; not open to those who have had journalism 78, nor ordinarily to journalism majors)	VIII-IX	Th	Mr. Emery
177s	Freedom of the Press and Communication Law (3 cred.; jr., sr.; prereq. 51 and consent of instructor)	III	TThS	Mr. Gerald

*For Graduate Students Only*

205f,w,s	Topics in International News Communications (3 cred.; seminar for grad. students; prereq. consent of director of the school)	Ar	Ar 405MurH,	Mr. Nafziger
210f,w,s	Research in Newspaper Problems (2 or 3 cred.; seminar course for grad. students; prereq. consent of director of the school)	Ar	Ar 405MurH	Mr. Casey, Mr. Nafziger, Mr. Gerald

## LATIN

See Classics, page 36.

## LIBRARY INSTRUCTION

See pages 9, 10.

## LINGUISTICS AND COMPARATIVE PHILOLOGY

## GENERAL COURSES

Ling.106f,107w	Introduction to the Study of Language (The same as Classics 106, 107) (3 cred. per quarter; jr., sr., grad.; prereq. any two courses numbered above 50 in a foreign language)	VIII	MWF 115F	Mr. Swanson
Ling.108s	Cultural Aspects of Language (The same as Classics 108) (3 cred.; jr., sr., grad.; prereq. any two courses numbered above 50 in a foreign language)	VIII	MWF	Mr. Swanson
Ling.109s	Analysis of Languages. Special attention will be given to Non-Indo-European languages (The same as Anthropology 109) (3 cred.; jr., sr., grad.; no prereq.)	I	TThS	Mr. Greenberg

## CELTIC

134f-135w-136s	Introduction to Celtic Philology; Old Irish Phonology, Morphology, and Text Interpretation. (9 cred.; sr. with consent of instructor, grad.; prereq. at least two Senior College courses in early Indo-European languages, preferably Ling. 131-132 or German 113-114)	VIII, IX, X	T 302F	Ar
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## CLASSICS

Classics133s	Vulgar Latin (Development of Latin into Romance) (3 cred.; jr., sr., grad.; open to advanced students of Latin or a Romance language with the consent of the instructor)	III	MWF	Mr. Swanson
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## ENGLISH

English100f	Old English (4 cred.; jr., sr., grad.; prereq. 6 cred. above 50)	II	TWThF 205F	Mr. Allen
English102w	Old English Poetry (3 cred.; jr., sr., grad.; prereq. 100)	II	MWF	Mr. Allen
English103s	Boewulf (3 cred.; jr., sr., grad.; prereq. 100)	II	MWF	Mr. Allen
English 165w	Introduction to Modern English (3 cred.; jr., sr., grad.; prereq. 6 cred. above 50; not open to students who have taken 100)	VII	MWF	Mr. Allen
English171f-172w-173s	The Rise and Development of Standard English (6 cred.; sr. with consent of instructor, grad.; prereq. 100)	VII	TTh 304F	Mr. Allen
English174s	American English (3 cred.; jr., sr., grad.; prereq. 6 cred. above 50)	VII	MWF	Mr. Allen

## FRENCH

French171f- 172w-173s†	History of French Language (3 cred.; jr., sr., grad.; prereq. one year of Latin or permission of instructor)	Ar	Ar	Ar	Mr. Brackney
French201f- 202w-203s	Old French Phonology and Morphology (6 cred.; grad.)	Ar	Ar	203F	Mr. Brackney
French204f- 205w-206s	Reading in Old French Literature (6 cred.; grad.)	Ar	Ar	203F	Mr. Brackney

## GERMAN

German110f- 111w-112s†	Middle High German (9 cred.; sr., grad.; prereq. 68 and 11 cred. above 50)	Ar	Ar	Ar	Mr. Downs
German176f- 177w	Problems and Research Trends in Germanic Philology (6 cred.; sr., grad.; prereq. at least two medieval Germanic dialects)	VIII, IX, X	W	302F	Ar

## SANSKRIT

Ling.128f- 129w-130s	Readings in Sanskrit Texts (9 cred.; sr. with consent of instructor, grad.; prereq. at least two Senior College courses in early Indo-European languages, preferably Greek, Gothic, or Latin)	Ar	Ar	Ar	Mr. Swanson
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## SEMITIC

Ling.124f- 125w-126s	Introduction to Biblical Hebrew (9 cred.; jr., sr., grad.; prereq. two courses above 50 in any foreign language)	Ar	Ar	Ar	Mr. Greenberg
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## MARRIAGE

See General Studies, page 44.

## MATHEMATICS

*Junior College Courses*

1f*	Higher Algebra (5 cred.; prereq. one yr. of elem. algebra§; open for credit to any student offering not more than one-half yr. of high school higher algebra for entrance)									
Sec. 1a	I	MTWThF	206Pt	Ar	Sec. 2g	III	MTWThF	202NH	Ar	
Sec. 1b	I	MTWThF	104F	Ar	Sec. 3a	VI	MTWThF	166Ph	Ar	
Sec. 1c	I	MTWThF	105F	Ar	Sec. 3b	VI	MTWThF	102F	Ar	
Sec. 1d	I	MTWThF	124F	Ar	Sec. 3c	VI	MTWThF	124F	Ar	
Sec. 2a	III	MTWThF	JAud.	Ar	Sec. 3d	VI	MTWThF	125F	Ar	
Sec. 2b	III	MTWThF	124F	Ar	Sec. 3e	VI	MTWThF	204NH	Ar	
Sec. 2c	III	MTWThF	104F	Ar	Sec. 4a	VIII	MTWThF	JAud	Ar	
Sec. 2d	III	MTWThF	110F	Ar	Sec. 4b	VIII	MTWThF	102F	Ar	
Sec. 2e	III	MTWThF	102NH	Ar	Sec. 4c	VIII	MTWThF	105F	Ar	
Sec. 2f	III	MTWThF	125F	Ar						

In choosing one of the sections of the above course the student should be guided by the schedule of hours for its winter quarter continuation. The fall-winter sequences are: At I hour, 1f-8w, and 1f-15w; at III hour, 1f-6w; at VI hour, 1f-6w; at VIII hour 1f-8w.

\* Prebusiness students who elect mathematics to meet the requirement of 10 credits in mathematics or laboratory science, should take 1 and 8 if they have not had high school higher algebra, and 8 and 20 if they have had high school higher algebra.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

§ Read the announcement about placement tests which precedes the heading Junior College Courses in the *College of Science, Literature, and the Arts Bulletin*.

1w*	Higher Algebra (See 1f) Sec. 1-4	I; V; VI; VIII	MTWThF	Ar			
1s*	Higher Algebra (See 1f) Sec. 1-3	I; V; VII	MTWThF	Ar			
6f**	Trigonometry (5 cred.; prereq. plane geometry and Course 1 or high school higher algebra§; open for credit even to students offering high school trigonometry for entrance)						
	Sec. 1a II MTWThF 105F	Ar	Sec. 2a VII MTWThF 105F	Ar			
	Sec. 1b II MTWThF 101F	Ar	Sec. 2b VII MTWThF 101F	Ar			
	Sec. 1c II MTWThF 102F	Ar	Sec. 2c VII MTWThF 102F	Ar			
	Sec. 1d II MTWThF 114F	Ar	Sec. 2d VII MTWThF 125F	Ar			
	Sec. 1e II MTWThF 125F	Ar	Sec. 2e VII MTWThF 124F	Ar			
6w**	Trigonometry (See 6f) Sec. 1-2	III; VI	MTWThF	Ar			
6s**	Trigonometry (See 6f) Sec. 1-3	I; V; VI	MTWThF	Ar			
7f**	College Algebra (5 cred.; prereq. 6, or high school trigonometry if approved by the department chairman)						
	Sec. 1a II MTWThF 124F	Ar	Sec. 2a VI MTWThF 105F	Ar			
	Sec. 1b II MTWThF 202NH	Ar	Sec. 2b VI MTWThF 101F	Ar			
	Sec. 1c II MTWThF 100NH	Ar					
7w**	College Algebra (See 7f) Sec. 1-2	II; VII	MTWThF	Ar			
7s**	College Algebra (See 7f) Sec. 1-2	III; VI	MTWThF	Ar			
8f*§	Commerce Algebra (5 cred.; primarily for prebusiness students* but open also to others; prereq. 1, or high school higher algebra§)						
	Sec. 1a IV MTWThF JAud	Ar	Sec. 2a VII MTWThF JAud	Ar			
	Sec. 1b IV MTWThF 101F	Ar	Sec. 2b VII MTWThF 204NH	Ar			
	Sec. 1c IV MTWThF 125F	Ar	Sec. 2c VII MTWThF 202NH	Ar			
8w*§	Commerce Algebra (See 8f) Sec. 1-2	I; VIII	MTWThF	Ar			
8s*§	Commerce Algebra (See 8f) Sec. 1-3	V; VI; - VIII	MTWThF	Ar			
15f-16w**	Elementary Mathematical Analysis (10 cred.; prereq plane geometry and Course 1 or high school higher algebra§)						
	Sec. 1a III MTWThF 105F	Ar	Sec. 2a V MTWThF JAud	Ar			
	Sec. 1b III MTWThF 114F	Ar	Sec. 2b V MTWThF 105F	Ar			
	Sec. 1c III MTWThF 100NH	Ar	Sec. 2c V MTWThF 104F	Ar			
	Sec. 1d III MTWThF 107NH	Ar					
15w-16s**	Elementary Mathematical Analysis (See 15f-16w) Sec. 1-2	I; V	MTWThF	Ar			
20w*	Mathematics of Investment (5 cred.; prereq. 8, or 6 and 7, or 15 and 16) Sec. 1-2	IV; VII	MTWThF	Ar			
20s*	Mathematics of Investment (See 20w) Sec. 1-2	I; VIII	MTWThF	Ar			
21s	Introduction to the Mathematics of Life Insurance (3 cred.; prereq. 20) IV MWF			Ar			
30f	Analytic Geometry (5 cred.; prereq. 6 and 7 or 6 and 8, or 15 and 16)						
	Sec. 1a I MTWThF 101F	Ar	Sec. 2a IV MTWThF 105F	Ar			
	Sec. 1b I MTWThF 125F	Ar	Sec. 2b IV MTWThF 107NH	Ar			
30w	Analytic Geometry (See 30f) Sec. 1-2	II; VI	MTWThF	Ar			
30s	Analytic Geometry (See 30f) Sec. 1-2	II; VII	MTWThF	Ar			

\* Prebusiness students who elect mathematics to meet the requirements of 10 credits in mathematics or laboratory science, should take 1 and 8 if they have not had high school higher algebra, and 8 and 20 if they have had high school higher algebra.

§ Read the announcement about placement tests which precedes the heading Junior College Courses in the *College of Science, Literature, and the Arts Bulletin*.

§ No student may receive credit for both Courses 7 and 8.

\*\* No student may receive credit for both Course 6-7 and Course 15-16. If a student has taken Course 6 and wants more mathematics, he should take Course 7; if he has taken Course 15-16 and wants more mathematics, he should consult the chairman of the department, Room 119 Folwell Hall.

G.E.70f,w,s The Slide Rule (1 cred.; prereq. Math. 6 or 8, or 15 and 16) (For the schedule of hours and days see General Engineering 70 in the *Bulletin of the Institute of Technology*)

*Senior College Courses*

Courses 50, 51, 105 are open to Junior College students who have an average grade of at least C in the prerequisite courses. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

50f	Calculus I. Differential Calculus (5 cred.; jr., sr.; prereq. 30)							
	Sec. 1a	III	MTWThF	102F	Ar	Sec. 2a	VI	MTWThF 145Ph Ar
	Sec. 1b	III	MTWThF	204NH	Ar			
50w	Calculus I. Differential Calculus (See 50f)							
	Sec. 1-2		I; IV	MTWThF				Ar
50s	Calculus I. Differential Calculus (See 50f)							
	Sec. 1-2		II; VI	MTWThF				Ar
51w	Calculus II. Integral Calculus (5 cred.; jr., sr.; prereq. 50)							
	Sec. 1-2		III; VI	MTWThF				Ar
51s	Calculus II. Integral Calculus (See 51w)							
	Sec. 1-2		I; IV	MTWThF				Ar
60f	Synthetic Metric Geometry (3 cred.; jr., sr.; prereq. 30)							
			VII	MWF	104F			Miss Carlson
62w	Introduction to the Theory of Equations (3 cred.; jr., sr.; prereq. 50 or registration in 50 and consent of instructor)							
			VII	MWF				Miss Carlson
105f	Intermediate Calculus (5 cred.; jr., sr., grad.; prereq. 51)							
	Sec. 1a	I	MTWThF	102F	Ar	Sec. 1b	I	MTWThF 110F Ar
105s	Intermediate Calculus (See 105f)							
			III	MTWThF				Ar
106f	Differential Equations (3 cred.; jr., sr., grad.; prereq. 51)							
	Sec. 1a	IV	MWF	104F	Miss Gibbens	Sec. 1b	IV	MWF 204NH Ar
107w-108s	Advanced Calculus (6 cred.; jr., sr., grad.; prereq. 105 and either some acquaintance with solid analytic geometry or consent of instructor)							
			IV	MWF				Miss Gibbens
109f	Theory of Numbers (3 cred.; jr., sr., grad.; prereq. 51)							
			II	MWF	104F			Mr. Bussey
110f,w,s	A Tutorial Course in Advanced Mathematics (3 to 6 cred.; jr., sr., grad.; prereq. 51)							
			Ar				Ar	Ar
119w-120s	Matrices and Groups (6 cred.; jr., sr., grad.; prereq. 51)							
			III	MWF				Mr. Kalisch
121f-122w-123s	Mathematical Theory of Statistics (9 cred.; jr., sr., grad.; prereq. 51)							
			IV	TThS	202NH			Mr. Bearman
125s	Theory of Geometrical Constructions (3 cred.; jr., sr., grad.; prereq. 30)							
			II	MWF				Mr. Bussey
136f	Solid Analytic Geometry (3 cred.; jr., sr., grad.; prereq. 50 or registration in 50)							
			III	MWF	101F			Mr. Olmsted
137s	Advanced Theory of Equations (3 cred.; jr., sr., grad.; prereq. 51, 62)							
			VII	MWF				Miss Carlson
140w	Projective Geometry (3 cred.; jr., sr., grad.; prereq. 51 or consent of instructor)							
			II	MWF				Mr. Bussey
144f-145w-146s	Topics in Analysis (9 cred.; jr., sr., grad.; prereq. 51)							
			III	TThS	101F			Ar

*For Graduate Students Only*

206f-207w-208s	Theory of Functions (9 cred.; grad.; prereq. 108 or consent of instructor)							
			II	TThS	104F			Mr. Cameron
209f	Advanced Modern Algebra (3 cred.; grad.; prereq. 137 or consent of instructor)							
			IV	MWF	102F			Mr. Kalisch

212w-213a	Point Set Topology (6 cred.; grad.; prereq. 206)	IV	MWF	Mr. Olmsted
245f-246w-247s	Advanced Theory of Functions (9 cred.; grad.; prereq. 208)	IV	TThS 102F	Mr. Cameron

NOTE—Some of the courses listed in the *Graduate School Bulletin* are open to properly qualified juniors and seniors. For further information consult the chairman of the Department of Mathematics.

MILITARY SCIENCE AND TACTICS

See page 11.

MUSIC

Course Fees—

Music 11 to 27 inclusive, Mu.Ed.225E:	
1. One individual lesson per week, 2 credits .....	\$30.00
2. Two individual lessons per week, 4 credits .....	60.00
3. Class lessons in Courses 11C, 12C, 2 credits .....	15.00
Music A-B-C and D-E-F:	
1. One individual lesson per week, no credit .....	30.00

Practice fees for rent of pianos, organs, and rooms for practice purposes:

Piano and practice room 1 hr. per week .....	\$1.00 per quarter
2 hrs., per week .....	2.00 per quarter
Each additional hr. 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 hrs. per week .....	2.00 per quarter

Students may enter courses in practical music (private lessons) any quarter.

Courses numbered from 11 to 27,\* inclusive, carry either 2 or 4 credits a quarter. The first twelve credits in any one of these courses count as Junior College credits; additional credits count as Senior College credits.

No student may count for graduation more than 36 credits in practical music.

Junior College Courses

1Tf-2Tw-3Ts	Music Theory (9 cred.; primarily for music majors and minors. Students must make arrangements for a placement test in the office of the Department of Music)				
	Sec. 1	II	MTWThF	3Mu	Mr. Aliferis
	2	VII	MTWThF	3Mu	Miss Malcolm
1Tw-2Ts	Music Theory (1st two qtrs. 1T-2T-3T. See 1Tf-2Tw-3Ts)	V	MTWThF		Ar
4Tf-5Tw-6Ts	Music Theory. (Continuation of Music Theory 1T-2T-3T) (12 cred.; prereq. 3T)				
	Sec. 1	I	MTWThF	103Mu	Ar
	2	III	MTWThF	3Mu	Miss Malcolm
	3	VI	MTWThF	3Mu	Miss Malcolm
1f,w,s	Fundamentals of Music (2 cred.; for non-music majors; no prereq.)	I	MTWTh	3Mu	Mr. Berryman
7w-8s	Counterpoint (6 cred.; soph., jr., sr.; prereq. 1T-2T-3T)	III	MWF		Mr. Ferguson

\* Students may not take special examinations in practical music (Music 11-27) for work done elsewhere while they are in residence at the University.

31f-32w-33s¶	Music Appreciation (6 cred.; no prereq.)	III	MWF		Mr. Oberg, Mr. Ivory
34f-35w-36s¶	History of Music (6 cred.; soph., jr., sr.; no prereq.)				
	Lect.	II	MW	4Mu	Mr. Ferguson
	Rec.	II	F		
37f-38w-39s	Keyboard Harmony (3 cred.; prereq. 3T)	II	TTh	2Mu	Mr. Jennings
40f-41w- 42s§††	Orchestra (3 cred.; prereq. consent of director)				
	Sec. 1	7:00 p.m.	T	NMA	Mr. Oberg
	Strings	IX	M	4Mu	
	WW & Brass	IX	W	4Mu	
	Full Orchestra	IX	F	4Mu	
	Sec. 2	VI	TTh	4NMA	Ar
43f-44w-45s¶**	University Chorus (3 cred.; prereq. consent of director)				
	Sec. 1	IV	MTWF	5NMA	Mr. Alferis
	2	VIII	MTWF	5NMA	Mr. Alferis
	3	7:00 p.m.	W	5NMA	Ar
43Uf-44Uw- 45Us	University Farm Music Ensembles—Vocal and Instrumental. For students in Agriculture, Forestry, and Home Economics only (3 cred.; no prereq.)	X	TTh	102Hort	Mr. Rymer
46f-47w-48s§§¶	Concert Band (3 cred.; prereq. consent of director)				
	Sec. 1	IX	MTTh	4NMA	Mr. Prescott
	2	IX	MWF	4NMA	Mr. Prescott

### Courses in Practical Music§

For a statement about credits and prerequisites for courses in practical music other than Courses 40-41-42 and 43-44-45, see the *Bulletin of the College of Science, Literature, and the Arts*.

The first twelve credits in any one of Courses 11 to 27 count as credits in Junior College courses; additional credits count as credits in Senior College courses.

Af-Bw-Cs‡§	Piano (No cred.; for students without entrance requirements for piano; no prereq.)				
	Private Lesson	Ar	Ar	Mu	Ar
Df-Ew-Fs‡§	Voice (No cred.; for students without entrance requirements in voice; no prereq.)				
	Private Lesson	Ar	Ar	Mu	Ar
11f,w,s‡	Piano—Individual Lessons (2 to 4 cred.; per qtr.)	VIII	Th	MuAud	Ar
					and lesson hrs. to be ar
11Cf,w,s‡	Piano—Class Lessons* (2 to 4 cred. per qtr.)	VIII	Th	MuAud	Ar
					and one of the following sections
	Sec. 1	II	TTh	Mu	Ar
	2	III	TTh	Mu	Ar
	3	VI	TTh	Mu	Ar
12f,w,s‡	Voice—Individual Lessons (2 to 4 cred. ptr qtr.)	VIII	Th	MuAud	Ar
					and lesson hrs. to be ar

\* Science, Literature, and the Arts major students must take individual rather than class lessons in their major instrument. Music Education majors will take individual lessons in their major and may take class lessons in their minor instrument. No student may take class lessons for more than 6 credits. Classes in piano will be composed of 4 students; classes in voice may be composed of 6 students.

‡ See statement of fees in the *College of Science, Literature, and the Arts Bulletin*.

§ May be taken only with the consent of director.

¶ Students may enter any quarter.

\*\* Students may receive credit for two years of chorus.

†† Students majoring in music may earn twelve credits in orchestra.

‡‡ Students may receive credit for two years of concert band.



12Cf,w,s‡	Voice—Class Lessons* (2 cred. per qtr.)	VIII	Th	MuAud	Ar
		and one of the following sections			
	Sec. 1	III	TTh	Mu	Ar
	2	VI	TTh	Mu	Ar
	3	VII	MW	Mu	Ar
13f,w,s‡	Violin (2 to 4 cred. per qtr.)	VIII	Th	MuAud	Ar
		and lesson hrs. to be ar.			
14f,w,s‡	Viola (2 to 4 cred. per qtr.)	VIII	Th	MuAud	Ar
		and lesson hrs. to be ar.			
15f,w,s‡	Cello (2 to 4 cred. per qtr.)	VIII	Th	MuAud	Ar
		and lesson hrs. to be ar.			
16f,w,s‡	Double Bass (2 to 4 cred. per qtr.)	VIII	Th	MuAud	Ar
		and lesson hrs. to be ar.			
17f,w,s‡	Flute (2 to 4 cred per qtr.)	VIII	Th	MuAud	Ar
		and lesson hrs. to be ar.			
18f,w,s‡	Oboe (2 to 4 cred. per qtr.)	VIII	Th	MuAud	Ar
		and lesson hrs. to be ar.			
19f,w,s‡	Clarinet or Saxophone (2 to 4 cred. per qtr.)	VIII	Th	MuAud	Ar
		and lesson hrs. to be ar.			
20f,w,s‡	Bassoon (2 to 4 cred. per qtr.)	VIII	Th	MuAud	Ar
		and lesson hrs. to be ar.			
21f,w,s‡	Trumpet (2 to 4 cred. per qtr.)	VIII	Th	MuAud	Ar
		and lesson hrs. to be ar.			
22f,w,s‡	French Horn (2 to 4 cred. per qtr.)	VIII	Th	MuAud	Ar
		and lesson hrs. to be ar.			
23f,w,s‡	Trombone (2 to 4 cred. per qtr.)	VIII	Th	MuAud	Ar
		and lesson hrs. to be ar.			
24f,w,s‡	Tuba (2 to 4 cred. per qtr.)	VIII	Th	MuAud	Ar
		and lesson hrs. to be ar.			
25f,w,s‡	Percussion (2 to 4 cred. per qtr.)	VIII	Th	MuAud	Ar
		and lesson hrs. to be ar.			
26f,w,s‡	Harp (2 to 4 cred. per qtr.)	VIII	Th	MuAud	Ar
		and lesson hrs. to be ar.			
27f,w,s‡	Organ (2 to 4 cred. per qtr.)	VIII	Th	MuAud	Ar
		and lesson hrs. to be ar.			

### Senior College Courses

Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee. See a statement in the *Bulletin of the College of Science, Literature, and the Arts*.

\* Science, Literature, and the Arts major students must take individual rather than class lessons in their major instrument. Music Education majors will take individual lessons in their major and may take class lessons in their minor instrument. No student may take class lessons for more than 6 credits. Classes in piano will be composed of 4 students; classes in voice may be composed of 6 students.

‡ See statement of fees in the *College of Science, Literature, and the Arts Bulletin*.

50f-51w-52s	Music of the Eighteenth Century (6 cred.; jr., sr.; prereq. 35)	III	TTh	104Mu	Mr. Ivory
53f-54w-55s	Romantic Movement (6 cred.; jr., sr.; prereq. 35)	VII	WF	104Mu	Miss Kendall
56f-57w-58s	Bach and Beethoven (9 cred.; sr.; prereq. 34-35-36)	VI, VII	TTh	104Mu	Mr. Ferguson
60f-61w-62a	Instrumental Ensemble (6 cred.; jr., sr.)	VI	MWF	104Mu	Mr. Stephens
63f-64w-65s	Vocal Ensemble (6 cred.; jr., sr.; prereq. 6 cred. in Course 12 or 12C)	VIII	WF	209Mu	Miss Hull
66f-67w-68s	Choral Chamber Group (3 cred.; jr., sr.; prereq. consent of instructor)	Ar	Ar	Ar	Ar
70f-71w-72s	Normal Piano (6 cred.; jr., sr.; prereq. 2 years of piano)	I	MWF	2Mu	Miss Kendall
73f-74w-75s	Advanced Harmony (6 cred.; jr., sr.; prereq. 6T)	IV	ThS	103Mu	Mr. Aliferis
76f	Form and Analysis (3 cred.; jr., sr.; prereq. 6T)	II	MWF	103Mu	Mr. Stephens
77f-78w-79s	Composition (6 cred.; jr., sr.; prereq. 6T, 7-8)	Ar	Ar	Ar	Mr. Ferguson
80f-81w-82s	Advanced Normal Piano (6 cred.; sr.; prereq. 70-71-72)	VIII	MWF	103Mu	Miss Kendall
83f-84w-85s	Advanced Composition (6 cred.; sr.; prereq. 77-78-79)	Ar	Ar	Ar	Mr. Ferguson
86f-87w-88s	Orchestration (6 cred.; jr., sr.; prereq. 6T)	IV	ThS	3Mu	Ar
90f-91w-92s	Advanced Instrumental Ensemble (6 cred.; sr.; prereq. 60-61-62)	VI	MWF	104Mu	Mr. Stephens
93f-94w-95s	Improvisation (3 cred.; jr., sr.; prereq. 6T and 12 credits in organ, Mu 27 or consent of instructor)	II	TTh	206Mu	Mr. Berryman

*For Graduate Students Only*

200f-201w-202s	Basis of Musical Expression (9 cred.; grad.; prereq. 56-57-58)	VIII, IX	MF	104Mu	Mr. Ferguson
	Conference hour	Ar	Ar	Ar	
205f-206w-207s	Composition in Larger Forms (9 cred.; grad.; prereq. 83-84-85)	Ar	Ar	Ar	Mr. Ferguson
209f-210w-211s	Advanced Topics in Musical Analysis (9 cred.; grad.; prereq. 76)	II	MWF	104Mu	Mr. Oberg
212f,w,s	Special Problems in Music (3 to 9 cred.; grad.; prereq. 202 or 211)	Ar	Ar	Ar	Mr. Oberg, Mr. Ferguson

Attention is called to Philosophy 59f (Esthetics), see page 70.

MUSIC EDUCATION

See Education, page 37.

NATURAL SCIENCE

See General Studies, page 46.

NAVAL SCIENCE AND TACTICS

See page 11.

NORWEGIAN

See Scandinavian, page 90.

PERSONAL ORIENTATION

See General Studies, page 46.

PHILOSOPHY

*Junior College Courses*

2Af-1Aw-3As	Selected Problems of Logic, Selected Problems of Philosophy, Selected Problems of Ethics. A special sequence of courses in philosophy especially for prelegal freshmen, but open to other students. Only by special permission of the instructor will prelegal students be admitted to 1Aw-3As without 2Af, or to 3As without 1Aw. (3 cred. per qtr.; open to prelegal fr., some other fr.,* and to soph., jr., sr.; no prereq.)				
1f	Problems of Philosophy (5 cred.; open to some fr.* and to soph., jr., sr.; no prereq.)	VI	MWF	216NH	Mr. Sellars
	Sec. 1	III	MTWThF	211NH	Mr. Swanson
	2	VII	MTWThF	102Law	Mr. Conger
1Af	Selected Problems of Philosophy (3 cred.; open to some fr.* and to soph., jr., sr.; no prereq.)				
		II	MWF	216NH	Mr. Wiggins
1w	Problems of Philosophy (See 1f)				
	Sec. 1	V	MTWThF		Mr. Cerf
	2	VI	MTWThF		Mr. Holmer
1s	Problems of Philosophy (See 1f)				
		IV	MTWThF		Mr. Wiggins
1As	Selected Problems of Philosophy. (See 1Af)				
	Sec. 1	III	MWF		Mrs. Brodbeck
	2	VIII	MWF		Mr. Holmer
2f	Logic (5 cred.; open to some fr.* and to soph., jr., sr.; no prereq.)				
	Sec. 1	IV	MTWThF	213NH	Mr. Cerf
	2	VI	MTWThF	213NH	Mr. Cerf
2w	Logic (See 2f)				
		III	MTWThF		Mr. Swanson
2Aw	Selected Problems of Logic (3 cred.; open to some fr.* and to soph., jr., sr.; no prereq.)				
	Sec. 1	III	MWF		Mrs. Brodbeck
	2	VIII	MWF		Mr. Cerf
2s	Logic (See 2f)				
	Sec. 1	V	MTWThF		Mr. Cerf
	2	VII	MTWThF		Mr. Holmer
2As	Selected Problems of Logic (See 2Aw)				
		II	MWF		Mr. Wiggins
3f	Ethics (5 cred.; open to some fr.* and to soph., jr., sr.; no prereq.)				
		V	MTWThF	166Ph	Mr. Wiggins
3Af	Selected Problems of Ethics (3 cred.; open to some fr.* and to soph., jr., sr.; no prereq.)				
	Sec. 1	III	MWF	213NH	Mr. Wiggins
	2	VIII	MWF	322F	Mr. Holmer
3w	Ethics (See 3f)				
	Sec. 1	IV	MTWThF		Mr. Wiggins
	2	VII	MTWThF		Mr. Holmer
3Aw	Selected Problems of Ethics (See 3Af)				
		II	MWF		Mr. Wiggins
3s	Ethics (See 3f)				
	Sec. 1	III	MTWThF		Mr. Swanson
	2	VI	MTWThF		Mr. Holmer
10f	Science and Religion (2 cred.; soph., jr., sr.; no prereq.)				
		IV	TTh	322F	Mr. Holmer

*Senior College Courses*

Course 70 is open to sophomores who have an average grade of at least C in all their work. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

50f-51w-52s§	General History of Philosophy (15 cred.; jr., sr.; no prereq.)	III	MTWThF	216NH	Miss Shaw
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\* Courses 1, 2, 3 and 1A, 2A, 3A are open in any quarter to a limited number of freshmen with the approval of their advisers.

§ Students may enter any quarter.

59w	Esthetics (3 cred.; jr., sr.; no prereq.)	VII	MWF	Mr. Cerf
70f	Philosophies of Social Reform I: from the French Revolution to 1848 (3 cred.; jr., sr.; no prereq.)	IV	MWF 301F	Miss Shaw
71s	Design for America. (The same as Social Science 71) (5 cred.; designed primarily as a senior integrative course, but open to juniors on consent of instructor; no prereq.) (Formerly Philosophy 21s)	VI	MTWThF	Ar
106f-107w	Plato (6 cred.; jr., sr., grad.; prereq. one course from 50-51-52 or consent of instructor)	VIII	MWF 321F	Mr. Sellars
108s	Aristotle (3 cred.; jr., sr.; prereq. one course from 50-51-52 or consent of instructor)	VIII	MWF	Mr. Sellars
110f	Rationalism (3 cred.; jr., sr., grad.; prereq. one course from 50-51-52 or consent of instructor)	VII	MWF 322F	Mr. Cerf
112w	Kant (3 cred.; jr., sr., grad.; prereq. one course from 50-51-52 or consent of instructor)	VII	MWF	Mr. Sellars
113w	Kierkegaard and Scandinavian Philosophy (3 cred.; jr., sr., grad.; prereq. one course from 50-51-52 or consent of instructor)	VIII	MWF	Mr. Holmer
114w	American Philosophy from Puritanism to Pragmatism (3 cred.; jr., sr., grad.; especially for students of American history and literature)	VI	MWF	Mr. Castell
115s	Contemporary Philosophy (3 cred.; jr., sr., grad.; prereq. one course from 50-51-52 or consent of instructor)	VII	MWF	Mr. Cerf
116s	Philosophy of John Dewey (3 cred.; jr., sr., grad.; prereq. one course from 50-51-52 or consent of instructor)	III	MWF	Mr. Wiggins
123w	Comparative Philosophy (3 cred.; jr., sr., grad.; prereq. one course from 50-51-52 or consent of instructor)	VII	MWF	Mr. Conger
135s	Philosophy in Modern Literature (3 cred.; jr., sr., grad.; prereq. consent of instructor)	VI	MWF	Mr. Castell
143f	Theory of Knowledge (3 cred.; jr., sr., grad.; prereq. 2 or consent of instructor)	IV	MWF 213F	Mrs. Brodbeck
147s	Elements of Symbolic Logic and Semantics (3 cred.; jr., sr., grad.; prereq. Course 2 or consent of instructor)	IV	MWF	Mrs. Brodbeck
153w	Philosophy of Science (3 cred.; jr., sr., grad.; prereq. course 2 or consent of instructor)	IV	MWF	Mrs. Brodbeck
155s	Metaphysics (5 cred.; jr., sr., grad.; prereq. one course from 50-51-52)	VII	MTWThF	Mr. Conger
165w	Political and Social Ethics (3 cred.; jr., sr., grad.; prereq. one course from 50-51-52 or consent of instructor)	III	MWF	Mr. Wiggins
170f	Philosophy of History (3 cred.; jr., sr., grad.; prereq. 5 cred. in phil. or 10 cred. in his <sup>o</sup> )	VII	MWF 305F	Mr. Holmer
180f	History of Religions (3 cred.; jr., sr., grad.; prereq. 6 cred.)	VI	MWF 111NH	Mr. Conger
181w	Psychology of Religion (3 cred.; jr., sr., grad.; prereq. 6 cred.)	VI	MWF	Mr. Conger
182s	Philosophy of Religion (3 cred.; jr., sr., grad.; prereq. 6 cred.)	VI	MWF	Mr. Conger
191f-192w-193s	Seminar in Philosophy. Topics to be arranged according to students' interests, e.g., see courses marked Ar. (9 cred.; sr., grad.; prereq. 9 credits or consent of instructor)	Ar	Ar Ar	Mr. Conger, Mr. Castell, Mr. Sellars, and others

*Courses Primarily for Graduate Students*

191f-192w-193s See above

230f-231w-232s History of Philosophy, Advanced (9 cred.; primarily for graduate students in other departments who have had no previous courses in philosophy. Philosophy majors who have taken 50-51-52 may enroll with consent of instructor)

VII, VIII T 322F Mr. Sellars  
and 1 hr. ar

241f-242w-243s Seminar: Philosophy of the Physical Sciences (3 cred. per qtr.; prereq. consent of instructor)

Ar Ar Ar Mrs. Brodbeck

244f-245w-246s Seminar: Philosophy of Biology and Psychology (3 cred. per qtr.; prereq. consent of instructor)

Ar Ar Ar Mrs. Brodbeck

PHYSICAL EDUCATION FOR MEN

See page 12.

PHYSICAL EDUCATION FOR WOMEN

See page 13. Of the courses listed there, Course 54 "Camp Leadership" (2 credits, no prerequisite) is regularly open to S. L. and A. students for credit. The other courses are elective without credit.

PHYSICS

*Junior College Courses*

1f-2wf-3s Introduction to Physical Science (9 cred.; prereq. high school algebra and plane geometry)

III MWF 150Ph Mr. Kruglak

1af-2awf-3as† Introduction to Physical Science—with laboratory included. Fulfills the laboratory-science group requirement in Science, Literature, and the Arts. (12 cred.; prereq. high school algebra and plane geometry)

Lect. III MWF 150Ph Mr. Kruglak  
Lab. Sec. 1 (Pharmacy students I, II M Ar Mr. Wall  
only) and assistants

2 V-VI T Ar

3 IX, X T Ar

4 (Pharmacy students I, II Th Ar  
only)

5 IX, X F Ar

4f-5w-6s† General Physics (primarily for premedical students). (15 cred.; prereq. Math 15-16, Elementary Mathematical Analysis; or with permission of department chairman Math. 6, Trigonometry, and either Math. 7 or 8. Premedical students should take Math. 15-16).

Lect. and quiz I MTWThF 166Ph Mr. Wall

Lab. Sec. 1 III, IV M Ar Mr. Wall

2 V, VI M and assistants

3 VII, VIII M

4 VII, VIII T

5 IX, X T

6 VII, VIII Th

7 VII, VIII F

8 I, II S

9 III, IV S

4s† General Physics (See 4f-5w-6s)

Lect. and quiz III MTWThF Mr. Valasek

Lab. Sec. 1 V, VI M Ar Mr. Wall

2 VII, VIII M and assistants

3 I, II T

4 VII, VIII Th

5 IX, X F

6 I, II S

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ A fee of \$2 per quarter is charged for this course.

6f‡	General Physics (See 4f-5w-6s) This course on sound and light was previously numbered Physics 5.					
	Lect. and quiz	III	MTWThF	166Ph		Mr. Schmitt
	Lab. Sec. 1	IX, X	M	Ar		Mr. Wall
	2	I, II	T			and assistants
	3	V, VI	Ta			
	4	VII, VIII	Ta			
	5	I, II	S			
	6	III, IV	S			
7f-8w-9s‡	General Physics (primarily for students majoring in physics, mathematics, or chemistry and for students in the Institute of Technology). (15 cred.; prereq.§ Math. 15-16 or equivalent or registration in differential calculus).					
	Lect. Sec. 1	II	MTWThF	150Ph		Mr. Williams
	2	IV	MTWThF	150Ph		Mr. Lofgren
	3	VI	MTWThF	150Ph		Mr. Kruglak
	Lab. Sec. 1	III, IV	M	Ar		Mr. Wall
	2	VII, VIII	M			and assistants
	3	IX, X	M			
	4	I, II	T			
	5	III, IV	T			
	6	VII, VIII	T			
	7	V, VI	W			
	8	VII, VIII	W			
	9	V, VI	Th			
	10	IX, X	Th			
	11	VII, VIII	F			
	12	I, II	S			
	13	III, IV	S			
7w‡	General Physics (See 7f-8w-9s)					
	Lect. and quiz	V	MTWThF			Mr. Valasek
	Lab. Sec. 1	III, IV	M	Ar		Mr. Wall
	2	VII, VIII	M			and assistants
	3	I, II	T			
	4	VII, VIII	T			
	5	IX, X	Th			
	6	VII, VIII	F			
	7	IX, X	F			
	8	I, II	S			
7s‡	General Physics (See 7f-8w-9s)					
	Lect.	VII	MTWThF			Mr. Lofgren
	Lab. Sec. 1	V, VI	M	Ar		Mr. Wall
	2	I, II	T			and assistants
	3	V, VI	Th			
	4	IX, X	Th			
	5	III, IV	F			
	6	III, IV	S			
8f-9w‡	General Physics (See 7f-8w-9s)					
	Lect. and quiz Sec. 1	VII	MTWThF	150Ph		Mr. Oppenheimer
	2	VIII	MTWThF	150Ph		Ar
	Lab. Sec. 1	IX, X	M	Ar		
	2	I, II	T			
	3	III, IV	T			
	4	VI, VII	F			
	5	IX, X	F			
	6	I, II	S			
	7	III, IV	S			

‡ A fee of \$2 per quarter is charged for this course.

§ See a statement about prerequisites in the *Bulletin of the College of Science, Literature, and the Arts*.

9f‡	General Physics (See 7f-8w-9a)				
	Lect. and quiz Sec. 1	II	MTWThF	166Ph	Ar
	2	V	MTWThF	150Ph	Mr. Weinberg
	Lab. Sec. 1	IX, X	M	Ar	Mr. Wall
	2	I, II	T		and assistants
	3	V, VI	Th		
	4	VII, VIII	Th		
	5	I, II	S		
	6	III, IV	S		

Senior College Courses

Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

73w	Intermediate Thermodynamics (3 cred.; jr., sr.; prereq. 15 cred. in Physics, Math. 51)	II	MWF		Mr. Nier
101f-103w-105s	Theoretical Physics (15 cred.; jr., sr., grad.; prereq. 15 cred. in physics, Math, 106 or registration in 106)	I	MTWThF	133Ph	Mr. Nier
107f-109w-111s	Modern Physics (9 cred.; jr., sr., grad.; prereq. 15 cred. in physics, Math. 51)	VII	MWF	Ar	Mr. Wall
110w-112s‡	Modern Experimental Physics (3 cred. per qtr.; jr., sr., grad.; prereq. 144)	VI-IX	TTh		Mr. Schmitt
114f-116w-118s¶	Elementary Physical Investigation (9 cred.; jr., sr., grad.; prereq. 15 cred. in physics, Math. 51 and permission of department chairman)	Ar	Ar	Ar	Ar
131f	Geometrical Optics (3 cred.; jr., sr., grad.; prereq. 15 cred. in physics, Math. 51)	II	TThS	Ar	Mr. Valasek
133w	Physical Optics (3 cred.; jr., sr., grad.; prereq. 15 cred. in physics, Math. 51)	II	TThS	Ar	Mr. Valasek
134f,w‡	Experimental Optics (3 cred.; jr., sr., grad.; prereq. 15 cred. in physics)	VII, VIII, IX	TTh	348Ph	Mr. Valasek
136w,s‡	Spectrum Analysis (3 cred.; jr., sr., grad.; prereq. 15 cred. in physics)	VII, VIII, IX	TTh		Mr. Valasek
144f‡	Electricity Measurements (3 cred.; jr., sr., grad.; prereq. 15 cred. in physics, Math. 51)	III	TThS	133Ph	Mr. Wall
	Lect.	VI, VII, VIII, IX	Th	231Ph	
	Lab. Sec. 1	VI, VII, VIII, IX	M	231Ph	
	2				
181f-183w-185s	Atomistics and Elementary Quantum Mechanics (9 cred.; sr., grad.; prereq. 101-103-105 or permission of instructor)	II	TThS	143Ph	Mr. Tate
191f-192w-193s	Introduction to Mathematical Physics (9 cred.; sr., grad.; prereq. Phys. 101-103-105, registration in Math. sequence 106-107-108 or equivalent)	III	MWF	145Ph	Mr. Hill

PHYSIOLOGICAL CHEMISTRY

MEDICAL SCHOOL

Senior College Courses

Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

50f	Physiological Chemistry (4 cred.; primarily for phys. ed., dental hygiene, and nursing students‡; jr., sr.; prereq. inorganic chemistry)	VI	MTWThF	Ar	Dr. Frame, Dr. Carr, and others
57w	Physiological Chemistry (2 cred.; primarily for dental students; jr., sr.; prereq. 100)	VI	MW	Ar	Dr. Armstrong, Dr. Glick

‡ A fee of \$2 per quarter is charged for this course.

§ Others may be admitted by special permission.

¶ Students may enter any quarter.

100f	Physiological Chemistry (7 cred.; jr., sr.; prereq. org. chem. and physics)					
	Lect.	IV	MTWF	Ar		Dr. Armstrong,
	Quiz	I		F		Dr. Barnum
	Lab. Sec. 1	I, II, III	MW	310MH		Dr. Carr,
	2	I, II, III	ThS			Dr. Cohen,
						Dr. Glick
100aw	Physiological Chemistry Laboratory (2 cred.; primarily for dental students; jr., sr.; prereq. org. chem. and physics)					
	Lab.	VII, VIII, IX		W	310MH	Dr. Armstrong,
		and				Dr. Carr
		VI, VII, VIII		F		
101w	Physiological Chemistry (6 cred.; jr., sr.; prereq. 100)					
	Lect.	IV	MWF	Ar		Dr. Armstrong,
	Quiz	I		F		Dr. Barnum,
	Lab. Sec. 1	I, II, III	MW			Dr. Carr,
	2	I, II, III	ThS			Dr. Cohen,
						Dr. Glick

For other courses see the bulletin and programs of the Medical School.

## PHYSIOLOGY

### MEDICAL SCHOOL

#### Junior College Courses

2f*	Elements of Physiology. (4 cred.; primarily for students of nursing§; no prereq.)					
	Lect. and quiz	II	TThS	Ar		Dr. Reinecke and others
	Lab. Sec. A	VIII, IX		Th	301MH	
	B	VIII, IX		F	301MH	
4f*	Human Physiology (4 cred.; prereq. 1 qtr. zool., 1 qtr. chem.)					
	Lect.	III	MWF	301MH		Dr. Hemingway and others
	Conference	IV		F		
4s*	Human Physiology (See 4f)					
	Lect.	VIII		T		Dr. Hemingway and others
		VII, VIII		Th		
	Conference	VII		T Ar		

#### Senior College Courses

Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

58w*	Human Physiology (5 cred.; primarily for dental students§; sr.; prereq. zool. and Physiol. Chem. 56, 57)					
	Lect.	Ar	Ar	Ar		Dr. King
	Quiz	Ar	Ar	Ar		and others
	Lab.	Ar	Ar	Ar		
59s*	Human Physiology (5 cred.; sr.; prereq. 58 or equiv.)					
	Lect.	Ar	Ar	Ar		Dr. King
	Quiz	Ar	Ar	Ar		and others
	Lab.	Ar	Ar	Ar		
60s	Human Physiology (6 cred.; primarily for Medical Technology and 5-year nursing students)					
	Lect.	IV	MWF	Ar		Dr. Lifson
		and II		S		and others
	Conference	II		T		
	Lab. (Med. Tech.)	VII, VIII, IX		F		
	(5-yr. nurses)	II, III, IV		Th		

\* Will not count for credit for admission to the Medical School except by permission of the dean of that school.

§ Others may be admitted by special permission.



103ff	Physiology of Circulation, Respiration, etc. (9 cred.; jr., sr.; prereq. zool. and org. chem.; primarily for medical and graduate students)				
	Lect.	I	MTWThFS		Dr. Visscher,
	Conference	III	TS		Dr. Hemingway, Dr. King,
	Lab.				and others
	Div. A	VI, VII, VIII	MW		
	B	II, III, IV	MW		
104w	Physiology of Endocrines, Nervous System, etc. (6 cred.; lect. only, 4 cred.; jr., sr.; prereq. 103 or org. chem. and neurology; primarily for medical and graduate students)				
	Lect.	IV	MTWF	Ar	Dr. Visscher,
	Conference	VII	F		Dr. Gellhorn,
	Lab.				Dr. Bittner,
	Div. A	9:00-11:20	MW		and others
	B	1:30- 4:00	MW		

For other courses see the bulletin and programs of the Medical School.

POLITICAL SCIENCE

Junior College Courses

1f-2w†-3s	American Government and Politics. (9 cred.; no prereq.)				
	Sec. 1	IV	MWF	BuAud	Mr. Christensen
	2	I	TThS	JAud	Ar
1w-2s†	American Government and Politics (6 cred.; no prereq.)				
		II	MWF		Ar
5f,w,s‡	American Government and Politics (Covers most of Course 1-2) (5 cred.; no prereq.)				
		VI	MTWThF	JAud	Ar(f) Mr. Weidner(w) Ar(s)
7f,w,s	Comparative European Government. (3 cred.; no prereq.)				
	(Fall)	III	MWF	202WuH	Ar
	(Winter)	VI	MWF		Ar
	(Spring)	II	TThS		Ar
9f-10w†*	Fundamentals of Government and Politics. (6 cred.; no prereq.)				
		III	MWF	225C	Ar
15f,w,s	Elements of Political Science. (3 cred.; no prereq.)				
	(Fall)	VI	MWF	211Bu	Ar
	(Winter)	II	TThS		Ar
	(Spring)	III	MWF		Ar
25f,s	World Politics. (3 cred.; no prereq.)				
	(Fall)	II	TThS	JAud	Mr. Mills
	(Spring)	VI	MWF		Mr. Mills

Senior College Courses

Senior College courses in this department are open to Junior College students who have an average grade of C in the prerequisite courses, subject to the general rule that courses which carry graduate credit may not be taken earlier than the third quarter of the student's sophomore year.

51f-52w†-53s	Field Work in Government and Politics (9 cred.; jr., sr.; prereq. 9 cred.) (Registration limited to Minnesota residents)				
	Lect.	II	TTh	216NH	Ar
	Sec. 1 (25 Mpls. residents)	II	S	101NH	Ar
	2 (25 Mpls. residents)	III	T	311MurH	Ar
	3 (25 St. Paul residents)	III	Th	311MurH	Ar
	4 (25 other Minnesota residents)	IV	T	101NH	Ar

\* Students who receive credit for this course may not receive credit for Political Science 7 or 15.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ This course covers most of Political Science 1-2. No student will be given credit for both courses 1-2 and 5. Course 5 may be substituted for 1-2 whenever 1-2 is required.

§ Students may register for lectures without laboratory.

80f	National Government in the United States—with special reference to current problems and developments (3 cred.; jr., sr.; no prereq. Not open to sophomores or to students who have had Pol. Sci. 1-2 or equiv.)	IV	MWF	211Bu	Mr. Short
85s	Problems of World Politics (3 cred.; jr., sr.; prereq. 25 or Hist. 1-2-3 or consent of instructor)	II	MWF		Mr. Mills
91f-92w-93s	Honors Work in Selected Fields (Cred. ar.; jr., sr.; prereq. 18 cred.; consult major advisers)	Ar	Ar	Ar	Ar
97s	American and European Colonies of Today (3 cred.; jr., sr.; prereq. 6 cred. or consent of instructor)	III	MWF		Mr. Mills
101f	Principles of the American Constitution I (3 cred.; jr., sr., grad.; prereq. Pol. Sci. 1-2 or equiv.)	II	TThS	209Bu	Mr. Latham
102w	Principles of the American Constitution II (3 cred.; jr., sr., grad.; prereq. 101 or equiv.)	II	TThS		Mr. Latham
103s	Principles of the American Constitution III (3 cred.; jr., sr., grad.; prereq. 101 or 102 or equiv.)	II	TThS		Mr. Latham
104f-105w-106s	American Constitutional Development (9 cred.; jr., sr., grad.; prereq. 9 cred. or Hist. 20-21-22)	III	TThS	209Bu	Mr. McLaughlin
108w	Legislative Organization and Procedure (3 cred.; jr., sr., grad.; prereq. 6 cred.)	IV	MWF		Mr. Short
116f	Local Government: Areas and Organization (3 cred.; jr., sr., grad.; prereq. 9 cred. or consent of instructor)	I	MWF	209Bu	Mr. Weidner
117w	Local Government: Politics, Major Functions, Administration, and Central Supervision (3 cred.; jr., sr., grad.; prereq. 116 or consent of instructor)	I	MWF		Mr. Weidner
118s	Local Government: Legal Status, Powers, and Responsibilities (3 cred.; jr., sr., grad.; prereq. 116)	I	MWF		Mr. Anderson
120f	Municipal Functions (3 cred.; jr., sr., grad.; prereq. 6 cred.)	II	TThS	111Bu	Mr. Ludwig
121w	Municipal Administration (3 cred.; jr., sr., grad.; prereq. 120 or consent of instructor)	II	TThS		Mr. Ludwig
122s	Municipal Problems (3 cred.; jr., sr., grad.; prereq. 121 or consent of instructor)	II	TThS		Mr. Ludwig
123f	City Planning. (The same as Architecture 104, Economics 111, and Sociology 104) (3 cred.; sr., grad.; no prereq.)	III	MWF	320E	Mr. Jones, Mr. Anderson, Mr. Filippetti, Mr. Vaile, Mr. Sletto
124w-125s	Recent Social Legislation (6 cred.; jr., sr., grad.; prereq. 6 cred.)	VII	MWF		Mr. Christensen
126w-127s	Government and the Economic Order (6 cred.; jr., sr., grad.; prereq. 9 cred.)	IV	TThS		Mr. Latham
131f	Public Administration: Organization and Areas, Administrative Responsibility (3 cred.; jr., sr., grad.; prereq. 6 cred.)	II	MWF	221Bu	Mr. Short
132w	Public Administration: Personnel Administration (3 cred.; jr., sr.; grad.; prereq. 131 or consent of instructor)	II	MWF		Mr. Short
133s	Public Administration: Financial Administration (3 cred.; jr., sr., grad.; prereq. 131 or consent of instructor)	II	MWF		Mr. Short
137w	American Political Parties (3 cred.; jr., sr., grad.; prereq. 6 cred. or 12 cred. in soc. sci.)	II	MWF		Mr. Christensen

141f-142w†	European Governments: Theory and Practice (6 cred.; jr., sr., grad.; prereq. 6 cred. or 12 cred. in soc. sci.)	IV	MWF 2P	Mr. McClosky
143s	Government of the U.S.S.R. and Adjacent States (3 cred.; jr., sr., grad.; prereq. 9 cred.)	IV	MWF	Mr. McClosky
155s	Government in Latin America (3 cred.; jr., sr., grad.; prereq. 6 cred. or consent of the instructor)	III	MWF	Mr. Christensen
160f	American Political Thought (3 cred.; jr., sr., grad.; prereq. 6 cred. in pol. sci. or 12 cred. in soc. sci. or consent of instructor)	III	MWF 211Bu	Mr. Kirkpatrick
161w	Problems of Democracy (3 cred.; jr., sr., grad.; prereq. 6 cred. in pol. sci. or 12 cred. in soc. sci. or consent of instructor)	III	MWF	Mr. Kirkpatrick
162s§	Recent Political Thought (3 cred.; jr., sr., grad.; prereq. 6 cred. in pol. sci. or 12 cred. in soc. sci. or consent of instructor)	III	MWF	Mr. Kirkpatrick
164f	Development of Political Thought: Greece and Rome (3 cred.; jr., sr., grad.; prereq. 6 cred. in pol. sci. or 12 cred. in soc. sci. or consent of instructor)	IV	MWF 112Bu	Mr. Kirkpatrick
165w	Development of Political Thought: the Middle Ages (3 cred.; jr., sr., grad.; prereq. 6 cred. in pol. sci. or 12 cred. in soc. sci. or consent of instructor)	IV	MWF	Mr. Kirkpatrick
166s	Development of Political Thought: Early Modern (3 cred.; jr., sr., grad.; prereq. 6 cred. in pol. sci. or 12 cred. in soc. sci. or consent of instructor)	IV	MWF	Mr. Kirkpatrick
171s	Political Psychology (The same as Psychology 141) (3 cred.; jr., sr., grad.; prereq. Psy. 140)	III	TThS	Mr. Bird
180f-181w†- 182s	International Law (9 cred.; jr., sr., grad.; prereq. 9 cred.)	I	TThS 221Bu	Mr. McLaughlin
184f	International Organization I (3 cred.; jr., sr., grad.; prereq. 6 cred. or consent of instructor)	I	MWF 213NH	Mr. Levi
185w	International Organization II (3 cred.; jr., sr., grad.; prereq. 6 cred. or consent of instructor)	I	MWF	Mr. Levi
186s	International Organization III (3 cred.; jr., sr., grad.; prereq. 6 cred. or consent of instructor)	I	MWF	Mr. Levi
191f	Far Eastern Politics I (3 cred.; jr., sr., grad.; prereq. 6 cred. or consent of instructor)	II	MWF 209Bu	Mr. Quigley
192w	Far Eastern Politics II (3 cred.; jr., sr., grad.; prereq. 6 cred. or consent of instructor)	II	MWF	Mr. Quigley
193s	Far Eastern Politics III (3 cred.; jr., sr., grad.; prereq. 6 cred. or consent of instructor)	II	MWF	Mr. Quigley
195f	Colonial Government and the Problems of Imperialism (3 cred.; jr., sr., grad.; prereq. 6 cred. or consent of instructor)	III	MWF 209NH	Mr. Mills
196w	Colonial Government and the Problems of Imperialism (3 cred.; jr., sr., grad.; prereq. 195 or consent of instructor)	III	MWF	Mr. Mills

*Courses Primarily for Graduate Students*

The following courses may be taken by seniors and adult special students with consent of the instructor:

204w-205s†	Seminar in Public Law (6 cred.; grad.; prereq. 18 cred. in pol. sci. or consent of instructor)	1:00 to 2:20	TTh	Mr. Latham
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† To receive credit for any part of this course a student must complete the parts preceding the dagger.

§ No student may receive credit for both Political Science 162 and Philosophy 70.

210f-211w- 212sf	Special Seminar in Public Administration (9 cred.; grad.; admission only with consent of the staff)	3:30 to 5:20	TTh	13Lib	Mr. Latham, Mr. Ludwig, Mr. Short
214w	Seminar in Political Parties (3 cred.; prereq. 12 cred. or consent of instructor)	11:00 to 12:20	TTh		Mr. Christensen
216f-217w-218s	Seminar in Comparative Modern Government (9 cred.; grad.; prereq. 12 cred. or consent of instructor)				
		VII-VIII	M	207NH	Mr. McClosky
222f-223w-224s	Seminar in Recent Political Thought, American and Foreign, with Special Reference to the Problems of Democracy (9 cred.; grad.; prereq. 12 cred. or consent of instructor)				
		VII-VIII	T	112Bu	Mr. Kirkpatrick
229f	Scope and Methods of Political Science (3 cred.; grad.; prereq. 12 cred. or consent of instructor)				
		I	MWF	316F	Mr. Anderson
236f-237s	Seminar in Federalism and Intergovernmental Relations (6 cred.; grad.; prereq. 12 cred. or consent of instructor)				
		11:00-12:20	TTh		Mr. Anderson
238f-239w-240s	Topics in International Law and Diplomacy (3 cred. per qtr.; sr. with consent of instructor, grad.; prereq. 175-176 or 180-181, or consent of instructor)				
		Ar	Ar	Ar	Mr. McLaughlin
242f-243w-244s	Topics in Colonization and Imperialism (9 cred.; grad.; prereq. 195-196 or consent of instructor)				
		Ar	Ar		Mr. Mills
245f-246w-247s	Seminar in Far Eastern Government and Politics (9 cred.; grad.; prereq. 191-192-193 or equivalent)				
		VII-VIII	W		Mr. Quigley

## PSYCHOLOGY

### Junior College Courses

Af,w,sf	Elementary Psychology. Intended for students who do not intend to take Senior College courses in Psychology or a professional curriculum which requires Psy. 1-2. See important footnotes to this course and to Psy. 1-2 (5 cred.; fr.,* soph.; no prereq.)				
		V	MTWThF	BuAud	Mr. Longstaff
1f-2w†§	General Psychology (6 cred.; soph., jr., sr.; no prereq.)				
	Sec. 1	I	MWF	BuAud	Mr. Elliott
	2	III	MWF	BuAud	and others
	3	V	MWF	MNHAud	
1w-2st§	General Psychology (See 1f-2w)				
	Sec. 1	VIII	MWF		Mr. Heron
	2	IX	MWF		Mr. MacCorquodale
1s-2st§	General Psychology (6 cred.; soph., jr., sr.; no prereq.)				
	Sec. 1	II	MTWThFS		Ar
	2	IV	MTWThFS		Ar
3s	Psychology Applied to Daily Life (3 cred.; prereq. 1-2)				
		III	MWF		Mr. Paterson, Mr. Longstaff, and others

\* This course is open to a limited number of first and second quarter freshmen with the approval of their advisers and to third quarter freshmen with a C average.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

§ Psychology 1-2 is intended to be the normal beginning course in psychology. It is a prerequisite for all advanced courses in psychology. It is the course prerequisite to Business, Education, Law, Medicine, and Social Work. Psychology 1-2, together with Psy. 4-5, meets the natural science requirement for entrance to the Senior College.

¶ Psychology A is not a course which can be taken in place of Psy. 1-2 where the latter is required. It is intended primarily for students in home economics, dental hygiene and the three-year course in nursing. Not for students who expect to take Senior College courses in psychology later. Psychology A can not be counted toward meeting the natural science requirement for entrance to the Senior College. No credit will be given for any part of Psy. 1-2 if a student has received credit for Psy. A.

4f‡-5w†‡	Introductory Laboratory Psychology (4 cred.; soph., jr., sr.; prereq. may be taken with or after 1-2) (Sections limited to 48)				
	Sec. 1	I, II	TTh	211Psy	Mr. Tinker
	2	V, VI	TTh	211Psy	and others
	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	
	9	III, IV	TS	211Psy	
	10	I, II	FS	211Psy	
4w‡-5st‡	Introductory Laboratory Psychology (See 4f-5w)	I, II	MW		Ar
4s‡-5st‡	Introductory Laboratory Psychology (See 4f-5w)				
	Sec. 1	V, VI	MTThF		Mr. Tinker
	2	VII, VIII	MTThF		and others
	3	IX, X	MTThF		
	4	I, II	TThFS		

Senior College Courses

In this department courses numbered between 50 and 65 are open to sophomores who have an average grade of at least C in all their courses and an average of B in the prerequisite courses.

52s	Genetic Psychology (3 cred.; jr., sr.; prereq. 1-2)	IV	MWF		Mr. Heron
55s	Psychology of Sensation (3 cred.; jr., sr.; prereq. 1-2)	IV	MWF		Mr. Tinker
56f,w	Psychology of Advertising (3 cred.; jr., sr.; prereq. 1-2 and Principles of Economics)	II	MWF	JAud	Mr. Longstaff
	(Fall)	II	MWF		Mr. Longstaff
	(Winter)	VII	MWF		
65f	Advanced General Psychology (3 cred.; jr., sr.; prereq. 1-2)	II	TThS	115Psy	Mr. MacCorquodale
70f,s	Principles of Psychological Measurement (3 cred.; jr., sr.; prereq. 1-2, 4-5)	VI	MWF	115Psy	Mr. Clark
	(Fall)	VI	MWF		Mr. Clark
	(Spring)	VI	MWF		
86s	Biographical Psychology (3 cred.; jr., sr.; prereq. 6 cred. in psy.)	II	TThS		Mr. Elliott
90f,91w,92s	Readings in Psychology (Cred. ar.; jr., sr.; prereq. 1-2 and 3 additional cred., and written permission of instructor)	Ar	Ar	Ar	Mr. Elliott, Mr. Bird, Mr. Paterson, Mr. Tinker, Mr. Heron, Mr. Longstaff, Mr. Clark, Mr. Meehl
101f-102w†-					
103s	Experimental Psychology (3 cred. per qtr.; jr., sr., grad.; prereq. 1-2; and 4-5 or equiv. in another science)	VII	MWF	116Psy	Mr. Tinker
		VIII	WF	116Psy	
108f	Systems of Psychology (3 cred.; jr., sr., grad.; prereq. 1-2 and consent of instructor)	Ar	Ar	Ar	Mr. Elliott
114w	Human Behavior (3 cred.; sr., grad.; prereq. 1-2; 4-5 or Zool. 1-2-3, or Phil. 1)	II	TThS		Mr. Elliott

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ A fee of \$1 per quarter is charged for this course.

125f-126w	Psychology of Individual Differences (6 cred.; sr., grad.; prereq. 1-2; 4-5 or 5 cred. in statistics)					
	Sec. 1	II	MWF	115Psy	Mr. Paterson	
	2	II	MWF		Mr. McClelland	
125s-126s	Psychology of Individual Differences (6 cred. See 125f-126w)	II	MTWThFS		Mr. McClelland	
127f,w,s	Projects in the Psychology of Individual Differences (3 cred.; sr., grad.; primarily for majors in Sequence C; prereq. 125-126)	Ar	Ar	Ar	Mr. Paterson, Mr. Longstaff, Mr. McClelland	
128f-129w	Psychology of Learning (6 cred.; jr., sr., grad.; prereq. 9 cred. in psy.)	II	MWF	109Psy	Mr. Heron	
130f†	Vocational and Occupational Psychology (3 cred.; jr., sr., grad.; prereq. 9 cred. in psy.)	I	MW	211Psy	Mr. Clelland	
	Lect.	I				
	Lab.	V, VI		F 211Psy		
130w†	Vocational and Occupational Psychology (See 130f)					
	Lect.	IV		TS	Mr. Paterson	
	Lab. Sec. 1	V, VI		F		
	2	VII, VIII		F		
130s†	Vocational and Occupational Psychology (See 130w)					
	Lect.	IV		TS	Mr. Paterson	
	Lab. Sec. 1	VI, VII		W		
	2	VIII-IX		W		
135f†-136w†- 137s†	Occupational Counseling (6 cred.; sr., grad.; prereq. for 135-136, 9 cred. or consent of instructor; for 137, 130)	VIII, IX	M	115Psy	Mr. McClelland	
140w	Social Psychology (3 cred.; jr., sr., grad.; prereq. 1-2, 4-5, and 9 credits in Social Science)	III	TThS		Mr. Bird	
141s	Political Psychology (The same as Political Science 171) (3 cred.; jr., sr., grad.; prereq. same as for 140)	III	TThS		Mr. Bird	
144f-145w†	Abnormal Psychology (6 cred.; jr., sr., grad.; prereq. 9 cred. in psy.; or 6 cred. in psy. and either Zool. 1-2-3 or 12 cred. in soc. sci.)	IV	MWF	MNHAud	Mr. Bird	
146s	Advanced Abnormal Psychology (3 cred.; sr., grad.; prereq. 144-145 and 171)	IV	MWF		Mr. Bird	
148w	Physiological Psychology (3 cred.; jr., sr., grad.; prereq. 1-2; 4-5 or Zool. 1-2-3, or consent of instructor)	IV	MWF		Mr. Hathaway	
151f	Animal Psychology (5 cred.; jr., sr., grad.; prereq. 1-2; 4-5 or equiv. in another science)	VI	MTWThF	109Psy	Mr. Heron	
152w,153s	Individual Investigations in Animal Psychology (3 cred. per qtr.; jr., sr., grad.; prereq. 151)	Ar	Ar	Ar	Mr. Heron	
160f,w	Psychology in Personnel Work (3 cred.; jr., sr., grad.; prereq. 1-2, 4-5, or 3 cred. in statistics, and Principles of Economics or permission of instructor)					
	Fall Sec. 1	III	MWF	206Pt	Mr. Longstaff	
	2	III	MWF	111NH	Mr. John	
	Winter	III	MWF		Mr. John	
167w	Techniques and Problems of Public Opinion Analysis (3 cred.; sr., grad.; prereq. 140 or 141)	VIII	MWF		Mr. Clark	
168s	Research Project in Public Opinion Analysis. Students in journalism will be assigned to problems in cooperation with technical advisers in journalism. (3 cred.; sr., grad.; prereq. 167)	Ar	Ar	Ar	Mr. Clark	

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ A fee of \$1 per quarter is charged for this course.

171w-172s†	Introduction to Clinical Psychology (6 cred.; sr., grad.; prereq. 144, either 125 or Educ. Psy. 120 or 5 credits in statistics and 6 additional cred. in psy. or child welfare, or ed. psy. Students intending to use this course professionally should postpone taking it until they are in the Graduate School)	VI	MWF	Mr. Meehl
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*For Graduate Students Only*

200-201-202	History of Psychology I			
203-204-205	History of Psychology II			
210-211-212	Research Problems			
215-216-217	Basic Seminar in Psychology			
220	Personality, Its Structure and Dynamics			
225	Seminar in Contemporary Research			
230-231-232	Field Work in Psychometrics and Applied Psychology			
250-251-252	Topics in Psychology			
256	Advanced Psychology of Advertising			
260-261-262	Seminar in the Applications of Psychological Methods to the Study of Nervous and Mental Diseases			
265-266-267	Seminar in Clinical Psychology			
270-271-272	Seminar in Recent Literature of Psychology			
281-282-283	Clinical Practice in the Student Counseling Bureau			
286	Advanced Biographical Psychology			
291	Practicum in Use and Interpretation of Projective Techniques			
295-296-297	Seminar in Individual Differences and Applied Psychology			

## PUBLIC HEALTH

## MEDICAL SCHOOL

*Junior College Courses*

3f,w,s§	Personal Health (2 cred.; fr., soph., no prereq.; not open to students who have taken Human Biol. G.C. 10C in the General College)	VI	MW	Dr. O'Brien
4w,s§	Health Problems of the Community (2 cred.; prereq. 3)	VI	TTh *	Dr. Thomson

*Senior College Courses*

Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

50w§	Public and Personal Health (3 cred.; open to jrs. and srs. who have not taken Courses 3, 4, 52, 53, or 100; no prereq.)	III	MWF *	Ar
50s§	Public and Personal Health (See 50f)	II	MWF *	Ar
51f§	Community Hygiene (3 cred.; jr., sr.; prereq. 3; not open to students who have taken 4, 50, 52, 53, or 100)	II	MWF *	Dr. Cowan
51s§	Community Hygiene (See 51f)	IV	MWF *	Dr. Cowan
52af,s§	Health Care of the Family (2 cred.; soph., jr., sr.; prereq. Bact. 53, Physiol. 4; not open to students who have taken Course 50 or 51)	VI	MW 313HE	Dr. Todd
52bf,w,s§	Health Care of the Family—Laboratory (1 cred.; soph., jr., sr.; prereq. Bact. 53; Physiol. 4; not open to students who have taken Course 50 or 51) (Sections limited to 20)	Sec. 1	VII, VIII	T 01MeH(UF) Ar
	Sec. 2	VII, VIII	Th 01MeH(UF)	Ar

\* Classroom schedule will be posted on bulletin board outside of Room 121 Millard Hall at the beginning of each quarter.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

§ No credit is granted for this course in the major sequence in Public Health Nursing.

55w	Nursing and Social Problems in the Control of Gonorrhoea and Syphilis (2 cred.; prereq. 53 or 100, and 62. Soc. 90 or 109 may be substituted by pre-social work students. Course 55 may be taken concurrently with any of these prerequisites)	VI	MW *	Dr. Sullivan
56s	First Aid and Safety for Nurses (3 cred.; nurses only)	VI, VII, VIII	TTh *	Dr. Kernan
57w§	Health of Infant and Preschool Child (2 cred.; jr., sr.; prereq. 4, or 50, or 51, or 52, or 53, or 100)	VII	TTh *	Dr. Boynton
58w	Maternal and Child Hygiene (For nurses only) (3 cred.; prereq. 53 or 100 and 62)	VII	MWF *	Dr. Boynton
59f,w,s	Health of the School Child (3 cred.; jr., sr.; prereq. 3 and 4, or 3 and 51, or 50, or 52, or 53, or 100; will be waived for teachers and school nurses, but credit granted only after completion of prereq.)	I	MWF *	Miss Grout,
	Schedule for 59f	IV	MWF *	Dr. Thomson
	Schedule for 59w	VII	MWF *	
60f,s	Tuberculosis and Its Control (For nurses; others may be admitted by special permission) (2 cred.; prereq. 4, or 50, or 51, or 52, or 53, or 100 and 62)	IV	TS *	Dr. Myers
62f,w**	Principles of Public Health Nursing I (Primarily for nurses; others admitted by special permission) (3 cred.; jr., sr.; prereq. 53 or 100 or equivalent, but may be taken concurrently)	IV	MWF *	Miss Mickey
	Schedule for 62f Sec. 1†	VI	MWF *	Miss Mickey
	2†	III	MWF *	Miss Mickey
63w,s**	Principles of Public Health Nursing II (Primarily for nurses; others admitted by special permission) (3 cred.; jr., sr.; prereq. 53 or 100 or equivalent, but may be taken concurrently)	IV	MWF *	Miss Mickey
	Schedule for 63w Sec. 1†	VI	MWF *	Miss Mickey
	2†	IV	MWF *	Miss Mickey
65,66,67f,w,s‡	Field Practice in Public Health Nursing†† (For public health nurses only) (Cred. ar.; jr., sr.; prereq. 53 or 100, 62) The credits are to be allowed, according to experience, to these special fields: P.H. 65—School Nursing (prereq. 67) P.H. 66—Rural Nursing (prereq. 67) P.H. 67—Family Health Agency	Ar	Ar *	Miss Taylor
70w,s‡	Practice Teaching in Home Nursing for Public Health Nurses (Cred. ar.; jr., sr.; prereq. 67, Ed. 81, or permission of instructor) (Enrolment is limited)	Ar	Ar *	Miss Taylor
80w‡‡	Elementary Vital Statistics (3 cred.; public health nurses only; prereq. special permission of instructor)	VII, VIII	TTh *	Mr. Treloar
95f	Principles of Human Nutrition—with Particular Reference to Public Health (3 cred.; prereq. 8 cred. in chemistry and 10 cred. in biology)	II	TThS *	Dr. Mickelson
100f,s	Elements of Preventive Medicine and Public Health (4 cred. for soph. medical students; 5 cred. for nurses and others; prereq. 3 or 50, or equiv. and a course in bacteriology)	II	MWF *	Dr. Anderson
	Lect.	III	TTh	
	Rec. Sec. 1	VI	TTh	
	2			

\* Classroom schedule will be posted on bulletin board outside of Room 121 Millard Hall at the beginning of each quarter.

‡ A fee of \$1 per credit is charged for this course.

‡‡ A fee of \$1 is charged for this course.

§ No credit is granted for this course in the major sequence in Public Health Nursing.

† Sec. 1 is for students who have not had practical experience in public health nursing. Sec. 2 is for students who have had such experience.

\*\* To receive credit for this course the student must complete both Courses 62 and 63.



102f	Environmental Sanitation I (3 cred.; sr., grad.; prereq. 50 or 51 or 53 or 100 or permission of instructor. This course may be taken concurrently with any of these prerequisites)	I	TThS *	Mr. Whittaker, Mr. Pierce, Mr. Olson
103f,w,s	Public Health Bacteriology (Cred. ar.; grad.; prereq. Bact. 101-102, 116 and permission of instructor)	II, III	MWF SBH	Dr. Kabler
104f	Epidemiology I (3 cred.; jr., sr., grad.; prereq. 53 or 100 and consent of instructor. This is a course for physicians, others by permission only. 140 must be taken in conjunction with this course unless student has already had 110, 140 or equiv.)	IV	MWF *	Dr. Anderson
105w	Epidemiology II (3 cred.; sr., grad.; prereq. 104)	III	TThS *	Dr. Anderson
106w	Public Health Administration (3 cred.; physicians, engineers, nurses, social workers, and others by arrangement; prereq. 53, 100 or equiv. Course 106 may be taken concurrently with any of the prerequisites)	I	MWF *	Dr. Anderson
107f	Child and Adult Hygiene (3 cred.; physicians; graduate students in public health nursing or medical social work; prereq. 53 or 100)	VI, VII, VIII	TTh *	Dr. Boynton
108w	Care of the Handicapped Child (2 cred.; prereq. 53, 57, 58 or 100)	VI	TTh *	Dr. Simons
122s	Public Health Administration Problems (3 cred.; prereq. 106)	III	MWF *	Dr. Anderson
125w	The Community Health Education Program (3 cred.; prereq. 53, or 100, or 104, and 106 or to be taken concurrently with 106)	VIII, IX	WF *	Miss Grout
126f,s	Industrial Health Problems I (3 cred.; prereq. 53 or 100, Chem. 1-2 or equiv., or permission of department)	IX, X	TTh *	Dr. Foker
127f	Industrial Health Problems. Nursing Aspects (1 cred.; to be taken in conjunction with 126)	IX	TTh *	Ar
128w	Industrial Health Problems II (3 cred.; prereq. 126)	Ar	Ar *	Dr. Foker
129f,w,s‡	Field Work in Industrial Nursing (Cred. ar.; prereq. 67)	Ar	Ar *	Ar
133w	Mental Hygiene Aspects of Public Health Nursing (3 cred.; jr., sr., grad.; prereq. 62 or experience)	I	TThS *	Dr. Clarke
135s	Conservation of Hearing (1 cred.; jr., sr., grad.; prereq. 53 or 100 and 62 or to be taken concurrently)	I	F *	Dr. Boies and associates
136s	Sight Conservation (1 cred.; jr., sr., grad.; prereq. 53 or 100 and 62 or to be taken concurrently)	I	W *	Dr. Hanson and associates
137s	Dental Health (For nurses only) (1 cred.; jr., sr., grad.; prereq. 53 or 100 and 62 or to be taken concurrently)	I	M *	Dr. Irwin, Dr. Jordan
138f,w,s‡	Field Work in Child Hygiene (Cred. ar.; sr., grad.; prereq. 67)	Ar	Ar *	Dr. Aldrich, Miss Mouw, and associates
141s	Social and Economic Aspects of Medical Care (3 cred.; sr., grad.; prereq. permission of instructor)	IV	TThS *	Dr. Weaver

\* Classroom schedule will be posted on bulletin board outside of Room 121 Millard Hall at the beginning of each quarter.

‡ A fee of \$1 per credit is charged for this course.

170s	Supervision in Public Health Nursing (3 cred.; sr., grad.; prereq. 53, 61 or 133, 63 and experience in public health nursing or by permission of instructor)	IV	MWF *	Miss Taylor
171f,w,s	Problems in Public Health Nursing (For public health nurses only) (Cred. ar.; sr., grad.; prereq. 170, or permission of instructor)	Ar	Ar *	Miss Taylor
173f,w,s††	Field Work in Supervision (For public health nurses only) (Cred. ar.; sr., grad.; prereq. 170 or permission of instructor)	Ar	Ar *	Miss Taylor
174f,w,s	Supervision Laboratory (For public health nurses only) (2 cred.; to be taken concurrently with 170)	Ar	Ar *	Miss Taylor
190f,w,s††	Field Work in the Community Health Education Program (Cred. ar.; prereq. 125, 227)	Ar	Ar *	Miss Taylor
200f,w,s	Research (Cred. ar.)	Ar	Ar *	Dr. Anderson, Dr. Diehl, and others
210f,w,s	Seminar in Public Health (By permission)	Ar	Ar *	Dr. Anderson and staff
227f,w,s	Problems in the Community Health Education Program (Cred. ar.; prereq. consent of instructor)	Ar	Ar *	Miss Grout

For courses in public health offered to physicians and engineers, see the *Bulletin of the Graduate School*, or the *Bulletin of the School of Public Health*.

#### BIOSTATISTICS

110f	Biometric Principles (3 cred.; jr., sr., grad.; prereq. 18 cred. in biol. sci. or math. through anal. geom.; to be taken with 111)	III	TThS *	Mr. Treloar
110s	Biometric Principles (See 110f)	I	TThS *	Mr. Treloar
111f†	Biometry Laboratory (2 cred.; to be taken with 110)	I, II	TThS 118MH	Ar
	Sec. 1	VI, VII, VIII	TTh	
	2	I, II	MWF	
	3	III, IV	MWF	
111s†	Biometry Laboratory (See 111f)	II, III	TThS	Ar
	Sec. 1	I, II	MWF	
	2	III, IV	MWF	
120s	Correlation Analysis (3 cred.; sr., grad.; prereq. 110 or consent of instructor; to be taken with 121)	III	TThS *	Mr. Treloar
121s†	Correlation Laboratory (2 cred.; to be taken with 120)	I, II	MWF	Ar
	Sec. 1	VI, VII, VIII	MW	Ar
130w	Random Sampling Distributions (3 cred.; sr., grad.; prereq. 110 or consent of instructor)	III	TThS *	Mr. Treloar
131w†	Sampling Laboratory (2 cred.; to be taken with 130)	I, II	TThS	Ar
	Sec. 1	VI, VII, VIII	MW	Ar
140f†	Vital Statistics (3 cred.; sr., grad.; prereq. permission of instructor; to be taken in conjunction with 104)	VII	WF *	Mr. Treloar
	Lect.	VIII, IX	WF	
	Lab.			

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† A fee of \$1 per quarter is charged for this course.

†† A fee of \$1 per credit is charged for this course.

150w‡	Life Tables (3 cred.; prereq. permission of instructor)	Ar	Ar *	Mr. Treloar
200f,w,s	Research (Cred. ar.; prereq. permission of instructor)	Ar	Ar *	Dr. Anderson, Dr. Diehl, and others
201f,w,s	Topics in Biometry (Cred. ar.; prereq. 120, 130, or consent of instructor)	Ar	Ar *	Mr. Treloar
211f,w,s	Seminar in Biometry (1 cred.)	Ar	Ar *	Mr. Treloar

RADIO

Courses relating to radio are offered by the School of Journalism and the Department of Speech to juniors and seniors who have had the fundamental prerequisite courses.

ROMANCE LANGUAGES

**Admission to advanced courses**—No student will be allowed to elect courses more advanced than intermediate French or Spanish unless he has received an average grade of C in the intermediate courses.

FRENCH

*Junior College Courses*

1f-2w	Beginning French (10 cred.; no prereq.)								
Sec. 1a	I	M-F	227F	Ar	Sec. 2c	VI	M-F	5F	Ar
Sec. 1b	I	M-F	202F	Ar	Sec. 2d	VI	M-F	2F	Ar
Sec. 1c	I	M-F	201F	Ar	Sec. 3a	VIII	M-F	201F	Ar
Sec. 1d	I	M-F	204F	Ar	Sec. 3b	VIII	M-F	104F	Ar
Sec. 2a	VI	M-F	226F	Ar	Sec. 3c	VIII	M-F	226F	Ar
Sec. 2b	VI	M-F	206F	Ar	Sec. 3d	VIII	M-F	213F	Ar
1af-2aw§	Beginning French—Conversational Section (10 cred., no prereq.)								
	Demonstration			III	MTWThF	227F		Mr. Sirich	
	Plus Laboratory Drill			Sec. 1	VI	MTWThF	115F		Ar
				2	VI	MTWThF	17F		
				3	VII	MTWThF	17F		
				4	VII	MTWThF	157TSF		
1w-2s	Beginning French (See 1f-2w)								
				III	MTWThF			Ar	
				VII	MTWThF			Ar	
1s	Beginning French (1st qtr. of 1-2. See 1f-2w)								
				III	MTWThF			Ar	
				VII	MTWThF			Ar	
2f	Beginning French (2nd qtr. of 1-2. See 1f-2w)								
Sec. 1a			III	MTWThF	202F			Ar	
1b			III	MTWThF	205F			Ar	
2			VI	MTWThF	6F			Ar	
3f-4w	Intermediate French (10 cred.; prereq. 1-2, or two years of high school French. Students who have had three years of high school French will omit Course 3 and take Course 4)								
Sec. 1a			III	MTWThF	226F			Ar	
1b			III	MTWThF	5F			Ar	
1c			III	MTWThF	3F			Ar	
2			VII	MTWThF	202F			Ar	
3w-4s	Intermediate French (See 3f-4w)								
			III	MTWThF					Ar
			VI	MTWThF					Ar

\* Classroom schedule will be posted on bulletin board outside of Room 121 Millard Hall at the beginning of each quarter.

‡ A fee of \$1 per quarter is charged for this course.

§ The conversational method will be used in these sections. Substantially less home study will be required than in the standard sections. Registration in French 1af-2aw-3as is limited. Written permission must be obtained from Professor Sirich in Room 200 Folwell Hall or, during registration week in the fall, in Room 103 Folwell Hall.

3s	Intermediate French (1st qtr. of 3-4) (See 3f-4w)	I	MTWThF	Ar	
		VI	MTWThF	Ar	
		VIII	MTWThF	Ar	
3as§	Intermediate French—Conversational Section (5 cred.; prereq. 1af-2aw) Demonstration Plus Laboratory Drill Sec. 1	III	MTWThF	Ar	
		2	VI	MTWThF	Ar
		3	VII	MTWThF	
		4	VII	MTWThF	Ar
4f	Intermediate French (2nd qtr. of 3-4; prereq. 3, or three years of high school French) Sec. 1a	II	MTWThF	212F Ar	
		1b	II	MTWThF	209F Ar
		2a	VI	MTWThF	201F Ar
		2b	VI	MTWThF	3F Ar
20f,w,s	Oral and Written French (5 cred.; prereq. 4, or four years of high school French) (Fall) (Winter) (Spring)	VI	MTWThF	8F Ar	
		VI	MTWThF	Ar	
		III	MTWThF	Ar	

### Senior College Courses

Senior College courses with numbers less than 100 are open to Junior College students who have an average grade of at least C in the prerequisite courses. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

50f,w	French Pronunciation (3 cred.; jr., sr.; prereq. 3-4)	II	TThS	203F	Miss Guinotte
52s	French Pronunciation and Diction (Open only to candidates for the French play) (1 or 2 cred.; jr., sr.; prereq. 3-4)	Ar	Ar	Ar	Ar
53f	French Composition (3 cred.; jr., sr.; prereq. 3-4)	VI	MWF	202F	Mr. Fermaud
54w-55s	French Conversation (6 cred.; jr., sr.; prereq. 53 or 20)	VI	MWF		Mr. Fermaud
63f-64w	Advanced French Composition (6 cred.; jr., sr.; prereq. 53 or 20 with a grade of B)	I	MWF	203F	Miss Guinotte
65s	Advanced French Conversation (3 cred.; jr., sr.; prereq. 54-55 or 20 with a grade of B)	I	MWF		Miss Guinotte
70f-71w-72s**	Survey of French Literature (9 cred.; jr., sr.; prereq. 3-4)	IV	MWF	201F	Mr. Clefton
73w-74s**	Survey of French Literature (10 cred.; jr., sr.; prereq. 3-4)	III	MTWThF		Mr. Brackney
75f-76w-77s	French Civilization and Culture (9 cred.; jr., sr.; prereq. 3-4)	III	MWF	203F	Mr. Fermaud
103f-104w-105s	French Syntax and Composition (3 cred.; jr., sr., grad.; prereq. 63 or registration in 63)	VI	F	203F	Mr. Barton
107s	Cours de Style (3 cred.; jr., sr., grad.; prereq. 63-64 or permission of instructor)	Ar	Ar	Ar	Miss Guinotte
110f	French Literature: 19th Century—Chateaubriand and Romantic Prose (3 cred.; jr., sr., grad.; prereq.*)	II	MWF	201F	Mr. Barton
112s	French Literature: 19th Century—Poetry (3 cred.; jr., sr., grad.; prereq.*)	Ar	Ar	Ar	Mr. Clefton

\* Prerequisite is 70-71-72 or 73-74.

§ The conversational method will be used in these sections. Substantially less home study will be required than in the standard sections. Registration in French 1af-2aw-3as is limited. Written permission must be obtained from Professor Sirich in Room 200 Folwell Hall or, during registration week in the fall, in Room 103 Folwell Hall.

¶ Students who have had three years of high school French may be admitted to Course 20 with the consent of the department.

\*\* Students may enter any quarter with permission of instructor.

118f-119w- 120s**	French Literature: 18th Century (9 cred.; jr., sr., grad.; prereq.*)	IV	TTh	203F	Mr. Sirich
		and 1 hr. ar			
121f-122w-123s	French Literature: 16th Century (9 cred.; jr., sr., grad.; prereq. 9 cred. in literature courses above 74 or permission of instructor)	IV	MWF	115F	Mr. Desgranges
132f	Baudelaire, Verlaine, Rimbaud (3 cred.; jr., sr., grad.; prereq.*)	Ar	Ar	Ar	Mr. Cleifton
146w	Contemporary French Dramatic Literature (3 cred.; jr., sr., grad.; prereq.*)	II	MWF		Mr. Barton
157s	Modern French Novel: France, Lobi, Bourget (3 cred.; jr., sr., grad.; prereq.*)	VII	MWF		Mr. Brackney
171f-172w- 173s†	History of French Language (3 cred.; jr., sr., grad.; prereq. one year of Latin or permission of instructor)	Ar	Ar	Ar	Mr. Brackney

*For Graduate Students Only*

201f-202w-203s	Old French Phonology and Morphology (6 cred.)	Ar	Ar	Ar	Mr. Brackney
204f-205w-206s	Reading in Old French Literature (6 cred.)	Ar	Ar	Ar	Mr. Brackney
225f-226w-227s	French Seminar: André Gide and the Contemporary Novel (6 cred.)	IX, X	F	203F	Mr. Fermaud

ITALIAN

*Junior College Courses*

1f-2w¶	Beginning Italian (8 cred.; no prereq.)	IV	MTWF	302F	Miss Nissen
3s	Intermediate Italian (4 cred.; prereq. 2 with grade of C)	IV	MTWF		Miss Nissen
4f	Intermediate Italian—2nd qtr. (4 cred.; prereq. 3 with grade of C)	IV	MTWF	302F	Miss Nissen
5w¶	Reading Knowledge of Italian (5 cred.; prereq. knowledge of French, Latin, or Spanish. No previous knowledge of Italian is necessary)	VI	MTWThF		Miss Nissen

*Senior College Courses*

Senior College courses with numbers less than 100 are open to Junior College students who have an average grade of at least C in the prerequisite courses. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

71w	Modern Poetry (Leopardi, etc.) (3 cred.; jr., sr.; prereq.§)	II	TTh		Miss Nissen
72f	Modern Drama (Giacosa, Bracco, Pirandello) (3 cred.; jr., sr.; prereq.§)	II	TTh	302F	Miss Nissen
74s	Petrarch (3 cred.; jr., sr.; prereq.§)	II	MWF		Miss Nissen
161f-162w	The Sixteenth Century (6 cred.; jr., sr., grad.; prereq. one course above 50)	II	MWF	302F	Miss Nissen
164s§§	Dante in English (3 cred.; jr., sr., grad.; prereq. consent of instructor)	II	TTh		Miss Nissen
		and 1 hr. ar			

\* Prerequisite is 70-71-72 or 73-74.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ The prerequisite is Course 3 or Course 4; but for students beginning Italian in the Senior College it may be Course 1-2 with permission of the instructor.

¶ Credit will not be given for both Course 1 and Course 5.

\*\* Students may enter any quarter with permission of instructor.

§§ No knowledge of Italian is required for this course.

## PORTUGUESE

1f-2w	Beginning Portuguese (10 cred.; prereq. Span. 1-2 or French 1-2 or permission of instructor)	VII	MTWThF	206F	Ar
3s	Intermediate Portuguese (5 cred.; prereq. 1-2)	VII	MTWThF		Ar

## SPANISH

*Junior College Courses*

1f-2w	Beginning Spanish (10 cred.; no prereq.)				
Sec. 1a	I	M-F	226F	Ar	
Sec. 1b	I	M-F	4F	Ar	
Sec. 1c	I	M-F	5F	Ar	
Sec. 2a	IV	M-F	226F	Ar	
Sec. 2b	IV	M-F	4F	Ar	
Sec. 2c	IV	M-F	5F	Ar	
Sec. 2d	IV	M-F	8F	Ar	
Sec. 2e	IV	M-F	202F	Ar	
Sec. 3a	VI	M-F	227F	Ar	
Sec. 3b	VI	M-F	114F	Ar	
Sec. 3c	VI	M-F	4F	Ar	
Sec. 3d	VI	M-F	204F	Ar	
1af-2aw*	Beginning Spanish—Conversational Section (10 cred.; no prereq.)				
	Demonstration	II	MTWThF	2F	Mrs. Mills
	Plus Laboratory Drill Sec. 1	VI	MTWThF	302F	Ar
	1a	VI	MTWThF	143Ph	Ar
	2	VIII	MTWThF	4F	Ar
	2a	VIII	MTWThF	8F	Ar
1w-2s	Beginning Spanish (See 1f-2w)				
	Sec. 1-3	III; VII;			
		IX	MTWThF		Ar
1s	Beginning Spanish (1st qtr. of 1-2. See 1f-2w)				
	Sec. 1-2	II; VII	MTWThF		Ar
2f	Beginning Spanish (2nd qtr. of 1-2. See 1f-2w)				
	Sec. 1a	II	MTWThF	202F	Ar
	1b	II	MTWThF	5F	Ar
	2a	VIII	MTWThF	202F	Ar
	2b	VIII	MTWThF	101F	Ar
	2c	VIII	MTWThF	6F	Ar
3f-4w	Intermediate Spanish (10 cred.; prereq. 1-2 or two years of high school Spanish. Students who have had three years of high school Spanish will omit Course 3 and take Course 4)				
	Sec. 1a	II	MTWThF	3F	Ar
	1b	II	MTWThF	4F	Ar
	1c	II	MTWThF	226F	Ar
	2a	IV	MTWThF	9F	Ar
	2b	IV	MTWThF	3F	Ar
	2c	IV	MTWThF	114F	Ar
	2d	IV	MTWThF	206F	Ar
	3	VI	MTWThF	110F	Ar
	4a	IX	MTWThF	206F	Ar
	4b	IX	MTWThF	4F	Ar
3w-4s	Intermediate Spanish (See 3f-4w)				
	Sec. 1-2	II; VIII	MTWThF		Ar
3s	Intermediate Spanish (1st qtr. of 3-4. See 3f-4w)				
	Sec. 1-5	I; IV; VI;			
		VII; IX	MTWThF		Ar

\* The conversational method will be used in these sections. Substantially less home study will be required than in the standard sections. Registration in Spanish 1af-2aw-3as and 4af is limited. Written permission must be obtained from Professor Sirich in Room 200 Folwell Hall or, during registration week in the fall, in Room 103 Folwell Hall.

3as*	Intermediate Spanish—Conversational Section (5 cred.; prereq. 1af-2aw)			
	Demonstrations	VII	MTWThF	Ar
	Plus Laboratory Drill Sec. 1-3	VI; VII;		
		VIII	MTWThF	Ar
4f	Intermediate Spanish (2nd qtr. of 3-4; prereq. 3, or three years of high school Spanish)			
	Sec. 1a	II	MTWThF 227F	Ar
	1b	II	MTWThF 8F	Ar
	2a	IV	MTWThF 157TSF	Ar
	2b	IV	MTWThF 153TSF	Ar
	3	VI	MTWThF 253TSF	Ar
20f,w	Oral and Written Spanish (5 cred.; prereq. 4 or four½ years of high school Spanish)			
		III	MTWThF 201F	Ar
20s	Oral and Written Spanish (See 20f)			
	Sec. 1-2	III; IV	MTWThF	Ar

Senior College Courses

Senior College courses with numbers less than 100 are open to Junior College students who have an average grade of at least C in the prerequisite courses. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

52w	Spanish Pronunciation and Diction (Open only to candidates for the Spanish play; open to others with permission of instructor) 1 or 2 cred.; jr., sr.; prereq. 3-4)			
		Ar	Ar Ar	Ar
53f	Spanish Composition (3 cred.; jr., sr.; prereq. 3-4)			
	Sec. 1a	II	TThS 206F	Mr. Cúneo
	1b	II	TThS 204F	Ar
	2a	III	TThS 303F	Mrs. Mills
54w-55s	Spanish Conversation (6 cred.; jr., sr.; prereq. 53 or 20)			
	Sec. 1-2	II; III	TThS	Mr. Cúneo; Mrs. Mills
56s	Spanish Phonetics and Diction (5 cred.; jr., sr.; prereq. 20 or 53)			
	Lect.	VII	MW	Mr. Le Fort
	Lab.	VII, VIII, IX	Th	
57w,s	Commercial Spanish (5 cred.; prereq. 20 or 53)			
		VII	MTWThF	Mr. Cúneo
60f	Advanced Spanish Composition (3 cred.; jr., sr.; prereq. 53 or 20 with grade of B)			
		VI	MWF 209F	Ar
61w-62s	Advanced Spanish Conversation (6 cred.; jr., sr.; prereq. 54-55 or 20 with grade of B)			
		VI	MWF	Ar
65f-66w-67s	Survey of the Literature of Spain (9 cred.; jr., sr.; prereq. 3-4)			
	Sec. 1a	VI	MWF 205F	Mr. Pattison
	1b	VI	MWF 203F	Ar
68w-69s	Survey of the Literature of Spain (10 cred.; jr., sr.; prereq. 3-4)			
		VI	MTWThF	Ar
70f-71w-72s	Latin-American Civilization and Culture (9 cred.; jr., sr.; prereq. 5 credits above 4 or permission of instructor)			
		IV	MWF 203F	Mr. Le Fort
74f-75w-76s	Survey of the Literature of Latin America (9 cred.; jr., sr.; prereq. 3-4)			
		II	MWF 304F	Mr. Le Fort
103f-104w-105s	Spanish Syntax and Composition (3 cred.; jr., sr., grad.; prereq. 60 or registration in 60)			
		IV	T 209½F	Mr. Pattison
115f-116w-117s	Spanish Literature: 17th Century (9 cred.; jr., sr., grad.; prereq. §)			
		VII	MWF 4F	Mr. Grismer
140f-141w-142s	Contemporary Latin-American Literature (9 cred.; jr., sr., grad.; prereq. a survey of the literature of Spain or Spanish America)			
		VIII	MWF 110F	Mr. Le Fort

\* The conversational method will be used in these sections. Substantially less home study will be required than in the standard sections. Registration in Spanish 1af-2aw-3as and 4af is limited. Written permission must be obtained from Professor Sirich in Room 200 Folwell Hall or, during registration week in the fall, in Room 103 Folwell Hall.

§ The prerequisite is 65-66-67 or 68-69.

¶ Students who have had three years of high school Spanish may be admitted to Course 20 with the consent of the department.

143f-144w-145s	Colonial and 19th Century Latin-American Literature (9 cred.; jr., sr., grad.; prereq. a survey of the literature of Spain or Latin America)	III	MWF 4F	Ar
174f-175w-176s	Contemporary Spanish Literature (9 cred.; jr., sr., grad.; prereq. ¶)	IV	MWF	Mr. Pattison

*For Graduate Students Only*

244f-245w-246s	Readings in Old Spanish Literature (6 cred.)	Ar	Ar Ar	Mr. Grismer
250f-251w-252s	Spanish Seminar (6 cred.)	VIII, IX	W 203F	Mr. Pattison
253f-254w-255s	Seminar in Latin-American Literature: Rubén Darío (6 cred.)	VIII, IX	T 203F	Mr. Terán

## RUSSIAN

*Junior College Courses*

1f-2w	Beginning Russian (10 cred.; no prereq.)	VII	MTWThF 321F	Miss Niemi
3s	Intermediate Russian (5 cred.; prereq. 1-2)	VII	MTWThF	Miss Niemi

*Senior College Courses*

Senior College courses with numbers less than 100 are open to Junior College students who have an average grade of at least C in the prerequisite courses.

51f-52w-53s	Advanced Russian (9 cred.; jr., sr.; prereq. 3)	VI	MWF 212F	Miss Niemi
55s	Russian Pronunciation (2 cred.; jr., sr., prereq. 3)	IV	TF	Ar
61f-62w-63s	Russian Composition (6 cred.; jr., sr.; prereq. 3)	VI	TTh 209F	Miss Niemi
71f-72w-73s	Rapid Reading of Russian Literature. Selected readings of modern Russian prose, with the aim of attaining facility in reading (9 cred.; jr., sr.; prereq. 51-52-53 or consent of instructor)	VIII	MWF 306F	Miss Niemi
101f-102w-103s*	Survey of Russian Literature (9 cred.; jr., sr., grad.; prereq. 8 credits in literature)	VII	MWF 302F	Ar

## SCANDINAVIAN

*Junior College Courses*

1f-2w	Beginning Norwegian (10 cred.; no prereq.)	VI	MTWThF 12F	Ar
3s	Intermediate Norwegian (5 cred.; prereq. 1-2 or equiv.)	VI	MTWThF	Ar
4f-5w-6s	Advanced Norwegian (9 cred.; prereq. 1-2-3 or equiv.)	VII	MWF 12F	Ar
7f-8w	Beginning Swedish (10 cred.; no prereq.)	II	MTWThF 12F	Mrs. Lorenzen
9s	Intermediate Swedish (5 cred.; prereq. 7-8 or equiv.)	II	MTWThF	Mrs. Lorenzen
10f-11w-12s	Advanced Swedish (9 cred.; prereq. 7-8-9 or equiv.)	III	MWF 12F	Ar
22w-23s§	Scandinavian Life Today and Yesterday (6 cred.; no prereq.)	V	MWF	Mr. Gustafson and staff

with lectures by  
Mr. Blegen  
Mr. Steefel,  
Mr. Stephenson and others

\* No knowledge of the Russian language is required.

§ No knowledge of Scandinavian languages is required.

¶ The prerequisite is 65-66-67 or 68-69.



*Senior College Courses*

Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

61s	Norwegian Conversation (3 cred.; jr., sr.; prereq. Scand. 1-2-3 or equiv.)	Ar	Ar Ar	Ar
71s	Swedish Conversation (3 cred.; jr., sr.; prereq. Scand. 10-11-12 or equiv.)	Ar	Ar Ar	Ar
153s	The Modern Scandinavian Home as an Expression of Northern Art (The same as Art Ed. 153) (3 cred.; jr., sr., grad.)	Ar	Ar Ar	Miss Lien
161w§	The Scandinavian Novel I (3 cred.; jr., sr., grad.; prereq. 4-5-6 or 10-11-12 or 8 cred. in literature)	Ar	Ar Ar	Mr. Gustafson
162s§	The Scandinavian Novel II (3 cred.; jr., sr., grad.; prereq. 4-5-6 or 10-11-12 or 8 cred. in literature)	Ar	Ar Ar	Mr. Gustafson
171f§	Ibsen and the Beginnings of the Modern Drama (3 cred.; jr., sr., grad.; prereq. 4-5-6 or 10-11-12 or 8 cred. in literature)	IV	MWF 12F	Mr. Gustafson
172w§	Strindberg and the Drama in Revolt and Transition (3 cred.; jr., sr., grad.; prereq. 4-5-6 or 10-11-12 or 8 cred. in literature)	IV	MWF	Mr. Gustafson
173s§	The Contemporary Scandinavian Theater (3 cred.; jr., sr., grad.; prereq. 4-5-6 or 10-11-12 or 8 cred. in literature)	IV	MWF	Mr. Gustafson
183s§	Germanic Heroic Poetry (The same as German 183) (3 cred.; sr., grad.; prereq. 8 cred. in literature)	VIII, IX, X	W	Ar
191f-192w-193s	Readings in the Scandinavian Literatures (3 cred. per qtr.; jr., sr., grad.; prereq. 4-5-6 or 10-11-12)	Ar	Ar Ar	Mr. Gustafson

*For Graduate Students Only*

215f-216w-217s	Studies in Scandinavian Romanticism	Ar	Ar Ar	Mr. Gustafson
221f-222w-223s	Biographical Problems in Strindberg	Ar	Ar Ar	Mr. Gustafson

## SECRETARIAL TRAINING

Courses in typewriting, shorthand, and secretarial procedure are regularly offered to Science, Literature, and the Arts students. The courses are listed under Economics page 162.

## SOCIAL SCIENCE

See General Studies, page 47.

§ No knowledge of Scandinavian languages is required.

## SOCIOLOGY AND SOCIAL WORK

*Junior College Courses*

1f,w,s	Introduction to Sociology (5 cred.; no prereq.)				
	Lect. Sec. 1	II	TThS	NHAud	Mr. Monachesi and others
	Rec. Sec. 1a	I	WF	200Pt	Ar
	1b	I	WF	2J	
	2a	II	MW	2J	
	2b	II	MW	200Pt	Ar
	3a	IV	MW	6F	
	3b	IV	MW	204F	Ar
	4a	VI	MW	218P	
	4b	VI	MW	200Pt	Ar
	5a	VII	MW	211NH	
	5b	VII	MW	200Pt	Ar
	6a	III	TTh	308F	
	6b	III	TTh	200Pt	Ar
	Lect. Sec. 2	VII	MWF	NHAud	Mr. Kyllonen and others
	Rec. Sec. 7	III	MW	104NH	
	8	V	MW	102NH	
	9	V	TTh	102NH	
	10	VI	WF	102NH	
	11	VIII	TTh	102NH	
	12	VIII	WF	102NH	
1f,w	Introduction to Sociology (For students of the College of Agriculture, Forestry, and Home Economics only) (3 cred.; no prereq.)	III	TThS	102Hr(UF)	Ar
1s	Introduction to Sociology (For students of the College of Agriculture, Forestry, and Home Economics only) (3 cred.; no prereq.)	I	TThS		Ar
2f,w,s	Individual and Minority Group Adjustment (5 cred.; prereq. 1)				
	Lect. Sec. 1	I	TThS	MNHAud	Mr. Caplow
	Rec. Sec. 1a	I	WF	210P	Ar
	1b	I	WF	113F	
	2a	II	TTh	210P	
	2b	II	TTh	218P	Ar
	3a	IV	MW	218P	
	3b	IV	MW	14P	Ar
	4a	VI	TTh	210P	
	4b	VI	TTh	14P	Ar
14w,s	Rural Sociology (3 cred.; prereq. 1)	IV	MWF		Mr. Nelson, Mr. Marshall
14f,w	Rural Sociology (For students of the College of Agriculture, Forestry, and Home Economics) (3 cred.; prereq. 1)	IV	TThS	102Hr(UF)	Mr. Nelson, Mr. Marshall
45f,w,s	Social Statistics (5 cred.; prereq. 1. Not open to students who have received credit in Econ. 5)				
	Lect.	IV	MWF	108NH	Ar
	Lab. Sec. 1	VI, VII	MW	108NH	
	2	VI, VII	TTh	108NH	
48f	Social Control and Criminal Behavior (3 cred.; prereq. 1)	VII	MWF	2P	Mr. Vold
48s	Social Control and Criminal Behavior (See 48f)	VII	MWF		Mr. Vold
49f	Social Problems (3 cred.; prereq. 1)				
	Sec. 1	I	MWF	JAud	Mr. Schneider
	2	II	TThS	211Bu	Mr. Schneider

49w	Social Problems (See 49f)			
	Sec. 1	II	MWF	Mr. Schneider
	2	II	TThS	Mr. Schneider
49s	Social Problems (See 49f)			
	Sec. 1	I	MWF	Mr. Schneider
	2	II	TThS	Mr. Schneider

Senior College Courses

COURSES IN SOCIOLOGY

Course 53 is open to third quarter sophomores who have an average grade of at least C in the prerequisite courses. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

50f-51w	Areas of Social Work (5 cred. each qtr. for Sequence D students; 4 cred. other students; jr., sr.; prereq. 49, 50, or 51)	III	TThS	110P	Miss Nagel
			and		
		VII	T	211NH	
		and 3 hrs. of observation for Sequence D students			
50w-51s	Areas of Social Work (See 50f-51w)	II	TThS		Miss Nagel
		VI	Th		
		and 3 hrs. of observation for Sequence D students			
53f,w,s	Elements of Criminology (3 cred.; jr., sr.; prereq. same as for 49)	III	MWF	207NH	Mr. Vold
91f	Case Method Applied to the Study of Human Problems (3 cred.; jr., sr.; prereq. 50 or 51 or consent of major adviser)	II	TThS	207NH	Mrs. Fenlason
91s	Case Method Applied to the Study of Human Problems (See 91f)	III	TThS		Mrs. Fenlason
95f	Introduction to Public Welfare (3 cred.; jr., sr.; prereq. 50 or 51 or consent of major adviser)	III	TThS	112Bu	Mr. Guilford
97f-98w-99s	Tutorial and Honors Work in Selected Fields (9 cred.; jr., sr.; prereq. consent of major adviser in sociology)	Ar	Ar	Ar	Ar
100f,w	Social Psychology (3 cred.; jr., sr., grad.; prereq. Sociology 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	I	TThS	108NH	Mr. Kirkpatrick
101s	Social Organization (3 cred.; jr., sr., grad.; prereq. Sociology 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	II	TThS		Mr. Chapin
102s	Contemporary Penology (3 cred.; jr., sr., grad.; prereq. Sociology 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	II	MWF		Mr. Vold
103w	Sociology of Conflict (3 cred.; jr., sr., grad.; prereq. Sociology 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	II	MWF		Mr. Vold
104f	City Planning (The same as Architecture 104, Economics 111, and Political Science 123) 3 cred.; jr., sr., grad.; no prereq.)	III	MWF	320E	Mr. Jones, Mr. Anderson, Mr. Filipetti, Mr. Vaile
105f	Criminological Theories—Historical and Contemporary (3 cred.; jr., sr., grad.; prereq. Sociology 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	IV	MWF	211NH	Mr. Vold

107w	Adult Parole and Probation (3 cred.; jr., sr., grad.; prereq. Sociology 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	VII	MWF	Mr. Vold
110f	Rural Community Organization (3 cred.; jr., sr., grad.; prereq. Sociology 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	I	MWF 206F	Mr. Nelson
112s	Problems in Rural Social Research (2 cred.; sr., grad.; prereq. Sociology 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	VIII-IX	M	Mr. Nelson
113s	Rural Community Analysis (3 cred.; jr., sr., grad. and consent of instructor; prereq. Soc. 1 and 15 cred. in social science)	VI	T	Mr. Marshall
114w	Rural Social Institutions (3 cred.; jr., sr., grad.; prereq. Sociology 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	VI, VII	Th	
118w,s	Interaction of Racial and Cultural Groups in America (3 cred.; jr., sr., grad.; prereq. Soc. 1 and 15 credits in social science, child welfare, education, philosophy, psychology, or consent of instructor)	I	TThS	Mr. Nelson
119f,w,s	The Family—with special reference to contemporary marriage problems (3 cred.; jr., sr., grad.; prereq. Sociology 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	II	TThS	Mr. Kirkpatrick
120f	Social Life and Cultural Change (3 cred.; jr., sr., grad.; prereq. Sociology 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	IV	TThS 211NH	Mr. Kirkpatrick
122f	Statistical Methods (3 cred.; grad.*; prereq. Sociology 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	III	MWF 253TSF	Mr. Schneider
123f	Methods of Social Research (3 cred.; jr., sr., grad.; prereq. Soc. 45 or equiv.)	II	TThS 108NH	Mr. Chapin
132s	Juvenile Courts and Probation (3 cred.; jr., sr., grad.; prereq. 53)	II	MWF 103TSF	Ar
140w	Theories of Social Order (3 cred.; jr., sr., grad.; prereq. Sociology 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	III	TThS	Mr. Monachesi
141w	Problems in Social Measurement (3 cred.; jr., sr., grad.; prereq. 45 or 122 or equiv.)	IV	MWF	Mr. Schneider
145s	Theories of Social Reconstruction (3 cred.; jr., sr., grad.; prereq. Sociology 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	III	MWF	Ar
160w	Population Trends and Policies (3 cred.; jr., sr., grad.; prereq. Sociology 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	III	TThS	Mr. Schneider
161w	Social Aspects of Housing and Standards of Living (3 cred.; sr., grad.; prereq. Sociology 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	VII	MWF	Mr. Marshall
162f-163w-164s	Field Work and Laboratory Training in Social Research (6 cred.; jr., sr., grad.; prereq. 45 or 122 which may be taken simultaneously)	II	TThS	Mr. Chapin
		Ar	Ar Ar	Ar

\* For graduate students only except by petition.

*For Graduate Students Only*

200f,w,s	Seminar: Research Problems in Criminology	Mr. Vold
203f-204w 205s	Seminar in Social Theory	Mr. Schneider
206f-207w-208s	Seminar in Statistical Theory in Relation to Social Theory and Practice	
215f	Seminar in Rural Sociology: Rural Life in Latin America	Mr. Chapin
216w	Seminar in Rural Sociology: Rural Life in Selected Countries of Europe	Mr. Nelson
217s	Seminar in Rural Sociology: Current Rural Social Problems in the United States	Mr. Nelson
234f,w,s	Seminar in Juvenile Delinquency and Treatment	Mr. Nelson
238f-239w†	Principles of Sociology (6 cred.)	Mr. Monachesi
		Mr. Monachesi

COURSES IN SOCIAL WORK

*For Graduate Students Only*

A. GENERAL SOCIAL WORK COURSES

200f,s	The Field of Social Work (3 cred.; no prereq.)				
		III	TThS 2J		Mrs. Doyle
201w	The History and Theory of Social Work (3 cred.; no prereq.)				
		III	TThS		Mrs. Doyle
205f,206w,207s	Special Topics in Social Work (Cred. ar.)				
		Ar	Ar Ar		Staff
209f,w,s	Seminar in Social Agencies and Institutions (Cred. ar.)				
		Ar	Ar Ar		Mrs. Doyle

B. FIELD WORK COURSES

210f,s-211w-212f,s	Initial Field Training in Social Work (Cred. ar.; prereq. 220 which may be taken simultaneously, or equiv.)				
		Ar	MWF Ar		Staff
215f,w,s-216f,w,s-217f,w,s	Advanced Field Training in Social Work (Cred. ar.; prereq. 221)				
		Ar	MWF Ar		Staff
219f,w,s	Seminar for Field Training Supervisors (Cred. ar.; limited to persons engaged in supervising students in field work)				
		IX, X	Th Ar		Ar

C. COURSES IN CASE WORK

220f	Case Work I (3 cred.; prereq. 200 or equiv. and 210 which may be taken simultaneously, or equiv.)				
	Sec. 1	III	TThS 107TSF		Mrs. Scott
	2	IV	TThS 2J		Mrs. Scott
220s	Case Work I (See 220f)				
		IV	TThS		Mrs. Scott
221w	Case Work II (3 cred.; prereq. 220 plus 211 and 236 both of which may be taken simultaneously, or equiv.)				
	Sec. 1	III	TThS		Mrs. Scott
	2	IV	TThS		Mrs. Scott
222w	Advanced Family Case Work (3 cred.; prereq. 221 or equiv.)				
		III	TThS		Mrs. Fenlason
224f,w,s	Seminar in Case Work in the Public Agency (Cred. ar.; prereq. 221 or consent of instructor)				
		IX, X	Th Ar		Mrs. Scott
225w,s	Seminar in Family Case Work (Cred. ar.; prereq. 221 or consent of instructor)				
		IX, X	T		Mrs. Fenlason
226f,w	Seminar in Case Work in Health Problems (Cred. ar.; prereq. 221 or consent of instructor)				
		IX, X	T Ar		Miss Mueller

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

227f,w,s	Seminar in Case Work in the Psychiatric Setting (Cred. ar.; prereq. 221 and 215-216-217 which must be taken simultaneously)	IX, X	T Ar	Mrs. Shea
228f	Seminar in Social Case Recording (Cred. ar.)	IX, X	T Ar	Mrs. Fenlason
229f,s	Seminar in Case Work Supervision (Cred. ar.; prereq. 222 or 230 or 251 or 261)	IX, X	Th 2J	Mrs. Fenlason

## D. PSYCHIATRIC AND PSYCHOLOGICAL COURSES

230f,s	Psychiatric Social Case Work (3 cred.; prereq. 221 or equiv.)	II	TThS 2J	Mrs. Shea
235f	Introductory Psychiatry (3 cred.; no prereq.)	II	TThS 211NH	Dr. Hinckley
236w	Personality Development as it Affects Social Case Work (2 cred.; prereq. 220)	VI, VII	T Ar	
237w	Descriptive Neuropsychiatry (The same as Neuropsychiatry 171) (3 cred.; prereq. 235 or equiv.)	VI, VII	T	Dr. Baker
238s	Advanced Considerations in Psychiatry (The same as Neuropsychiatry 172) (1 cred.; prereq. 237 or equiv.)	VI	Th	
239s	Seminar in Psychiatric Social Work (2 cred.; prereq. 230, 235, and 236)	IV	T Ar	Dr. Hinckley
240	Dynamics of Human Behavior Based on Psychoanalytic Theory (3 cred.; prereq. 235)	Ar	Ar Ar	Dr. Lippman
242w	Human Behavior (The same as Psychology 114) (3 cred.; prereq. Psy. 1-2; 4-5 or Zool 1-2-3, or Phil. 1)	II	TThS	Mr. Elliot
243w	Behavior Problems in Younger Children (The same as Child Welfare 140) (2 cred.; prereq. 12 cred. in psy., ed.psy., or soc.)	VIII, IX	Th	Miss Blodgett
244w	Behavior Problems in Older Children (The same as Child Welfare 141) (2 cred.; prereq. 12 cred. in psy., ed.psy., or soc.)	III, IV	S	Ar
244s	Behavior Problems in Older Children (See 244w)	VIII, IX	Th	Ar
245f	Principles of Mental Measurement of Children (The same as Child Welfare 190) (2 cred.; prereq. 12 cred. in psy., ed.psy. or soc.)	III	TTh 100Pt	Ar
246Aw-246Bs	Introduction to Clinical Psychology (The same as Psychology 171-172) (6 cred.; prereq. Psy. 144, either Psy. 125 or Ed. Psy. 120 or 5 cred. in statistics and 6 additional credits in psy. or child welfare, or ed. psy.)	VI	MWF	Mr. Meehl

## E. MEDICAL COURSES

250s	Medical Information for Social Workers (3 cred.; prereq. P.H. 50 or 51 or equiv.)	IX	T	Miss Mueller
251f,252w,253s	Advanced Medical Social Work (3 cred. per qtr.; prereq. 221 or equiv.)	VIII, IX	Th	and Med. Staff
254w	Public Health Administration (The same as P.H. 106) (3 cred.; prereq. P.H. 53 or equiv.)	III	TThS 104NH	Miss Mueller
255s	Social and Economic Aspects of Medical Care (The same as P.H. 141) (3 cred.; prereq. P.H. 106)	I	TThS	Dr. Anderson
256w	Care of the Handicapped Child (The same as P.H. 108 (2 cred.; prereq. P.H. 53, 57, 58, or 100, or permission of instructor)	IV	TThS	Dr. Weaver
259f,w,s	Seminar in Medical Social Work (Cred. ar.; prereq. 221 and 251-252-253 which may be taken simultaneously)	VI	TThS	Ar
		Ar	Ar	Miss Mueller

F. CHILD WELFARE COURSES

260w	The Child and the State (3 cred.; prereq. 200 or equiv.)	IV	TThS		Mr. Guilford
261f,s	Problems in Children's Case Work (3 cred.; prereq. 211 and 221)	IV	TThS	103NH	Mr. Guilford
262s	Principles of School Social Work (2 cred.; prereq. 221)	IX, X	T		Miss Laabs
263s	Juvenile Courts and Probation (The same as Sociology 132) (3 cred.; prereq. Soc. 53 or consent of instructor)	III	TThS		Mr. Monachesi
265f,w,s	Seminar in Juvenile Delinquency and Treatment (The same as Sociology 234) (Cred. ar.)	Ar	Ar	Ar	Mr. Monachesi
266w,s	Seminar in Child Welfare (Cred. ar.)	Ar	Ar	Ar	Mr. Guilford

G. PUBLIC WELFARE COURSES

267f,s	Public Welfare I (3 cred.; prereq. 200 or equiv.)	I	TThS	104NH	Mr. Guilford
268w	Public Welfare II (3 cred.; prereq. 267)	I	TThS		Mr. Guilford
269f,w,s	Seminar in Public Welfare Administration (Cred. ar.; prereq. 268)	IX, X	F	103NH	Mr. Kidneigh
270Aw-270Bs	Recent Social Legislation (The same as Political Science 124-125) (6 cred.; prereq. 6 cred. in political science or consent of instructor)	VII	MWF		Mr. Christensen

H. SOCIAL ADMINISTRATION AND COMMUNITY ORGANIZATION

275w	Principles of Administration Applied to Social Work (3 cred.; prereq. 200 or equiv.)	IV	TThS		Mr. Kidneigh
276w	Legal Aspects of Social Work (3 cred.; prereq. 200 or equiv.)	I	TThS		Mr. Adelsheim
277s	Public Relations in Community Service (The same as Journalism 150) (2 cred.; prereq. consent of major adviser and director of School of Journalism)	VIII, IX	Th		Mr. Emery
278w	Social Aspects of Housing and Standards of Living (The same as Sociology 161) (3 cred.; prereq. Soc. 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	II	TThS		Mr. Chapin
279s	Seminar in Administration and Community Organization (Cred. ar.; prereq. 275 and 280)	IX, X	M	Ar	
280f,s	Community Organization (3 cred.; prereq. 200, 220, and 282 or consent of instructor)	I	TThS	2J	Mr. Kidneigh
281f	Rural Community Organization (The same as Sociology 110 (3 cred.; prereq. consent of instructor)	I	MWF	206F	Mr. Nelson

I. GROUP WORK COURSES

282f	Principles of Group Work (3 cred.; prereq. 200 or equiv.)	IV	TThS	104NH	Mrs. Konopka
282s	Principles of Group Work (See 282f)	IV, V	T		Mrs. Konopka
283s	Supervision in Group Work (3 cred.; prereq. 210 and 282)	IV	S		
289f,w,s	Seminar in Group Work (Cred. ar.)	Ar	Ar	Ar	Mrs. Konopka
		Ar	Ar	Ar	Mrs. Konopka

J. RESEARCH COURSES

290f	Statistical Methods (The same as Sociology 122) (3 cred.; prereq. Soc. 1 and 15 cred. in social science, child welfare, education, philosophy, or psychology, or consent of instructor)	II	TThS	108NH	Mr. Chapin
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291f	Methods of Social Research (The same as Sociology 123) (3 cred.; prereq. Soc. 45 or 122 or equiv.)	II	MWF	103TSF	Mr. Sletto
292w	Problems in Social Measurement (The same as Sociology 141) (3 cred.; prereq. Soc. 45 or 122 or equiv.)	III	MWF		Ar
293f,w,s	Special Studies in Social Work (Cred. ar.; fulfills 9 cred. requirement plan B)	Ar	Ar		Ar
299w,s	Seminar in Recent Research in Social Work (Cred. ar.)	VI, VII	Th		Ar
300f,w,s	General Seminar in Social Work (Cred. ar.)	Ar	Ar	Ar	Staff

## SPANISH

See Romance Languages, page 85.

## SPEECH

*Junior College Courses*

1f-2w†-3s‡	Fundamentals of Speech (9 cred.; fr.,* soph., jr., sr.; no prereq.)				Mr. Gilkinson and others
Sec. 1	I	MWF	103NH	Sec. 7	VIII MWF 103NH
Sec. 2a	II	MWF	103NH	Sec. 8a	I TThS 306F
Sec. 2b	II	MWF	107NH	Sec. 8b	I TThS 103NH
Sec. 3a	III	MWF	6F	Sec. 9a	II TThS 103NH
Sec. 3b	III	MWF	2F	Sec. 9b	II TThS 107NH
Sec. 4	IV	MWF	101NH	Sec. 9c	II TThS 102NH
	Dental hygiene students only			Sec. 10	III TThS 2F
Sec. 5a	VI	MWF	103NH	Sec. 11a	IV TThS 2F
Sec. 5b	VI	MWF	101NH	Sec. 11b	IV TThS 6F
Sec. 5c	VI	MWF	305F		
Sec. 6a	VII	MWF	103NH		
Sec. 6b	VII	MWF	101NH		
Sec. 6c	VII	MWF	102NH		
1w-2s††	Fundamentals of Speech (2 qtrs. of 1-2-3. See 1f-2w-3s)				
	Sec. 1		II	MWF	
	2		III	MWF	
	3		IV	MWF	
	4		VII	MWF	
	5		VIII	MWF	
	6		II	TThS	
1s†	Fundamentals of Speech (1st qtr. of 1-2-3. See 1f-2w-3s)				
	Sec. 1		II	TThS	
	2		IV	MWF	
	3		VI	MWF	
2f-3w††	Fundamentals of Speech (2nd and 3rd qtr. of 1-2-3. See 1f-2w-3s)				
	Sec. 1a		III	MWF	305F
	1b		III	MWF	311F
	1c		III	MWF	321F
3f†	Fundamentals of Speech (3rd qtr. of 1-2-3. See 1f-2w-3s)				
	Sec. 1a		II	MWF	101NH
	1b		II	MWF	102NH

\* Open to a limited number of freshmen with the approval of their advisers and the Department of Speech.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ A fee of \$1 per quarter is charged for this course.



5f-6w†	Fundamentals of Speech (10 cred.; fr.,* soph., jr., sr.; no prereq.)				
	Sec. 1a	III	MTWThF	306F	
	1b	III	MTWThF	8F	
	2a	IV	MTWThF	306F	
	2b	IV	MTWThF	100NH	
	2c	IV	MTWThF	201NH	
	3	VI	MTWThF	201NH	
5w-6s†	Fundamentals of Speech (See 5f-6w)				
	Sec. 1	IV	MTWThF		
	2	VI	MTWThF		
	3	VII	MTWThF		
5s†	Fundamentals of Speech (1st qtr. of 5-6. See 5f-6w)				
	Sec. 1	III	MTWThF		
	2	IV	MTWThF		
	3	VIII	MTWThF		
6f†	Fundamentals of Speech (2nd qtr. of 5-6. See 5f-6w)				
		VI	MTWThF	107NH	
31f††	Introduction to the Theater (3 cred.; soph., jr., sr.; prereq. registration)			1-2-3 or 5-6 or concurrent	
		II	MWF	19Mu	Mr. Whiting
31s††	Introduction to the Theater (See 31f)				
		II	TThS		Mr. Thompson
32f-33w††	Beginning Acting (6 cred.; soph., jr., sr.; prereq. Sp. 31)				
		I	MWF	19Mu	Mrs. Turner
32w-33s††	Beginning Acting (See 32f-33w)				
	Schedule for 32w Sec. 1	I	MWF		Ar
	2	II	TThS		Mr. Whiting
	Schedule for 33s Sec. 1	I	MWF		Mrs. Turner
	2	II	MWF		Mr. Whiting
34f††**	Stagecraft—Construction and Painting (3 cred.; soph., jr., sr.; prereq. 31)				
		II	TThS		Mr. Andrus

Senior College Courses

Courses 51, 67, 81-82-83 are open to Junior College students who have an average grade of at least C in the prerequisite courses. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

51s†	Advanced Public Speaking (3 cred.; jr., sr.; prereq. 1-2-3 or 5-6)				
		II	MWF		Ar
55f-56w-57s††	Speech Writing and Platform Speaking (9 cred.; jr., sr.; prereq. 1-2-3 or 5-6; Phil. 2, Logic, is recommended)				
		VII	MWF	308F	Mr. Gilkinson
61f,s†	Personality Development Through Speech (3 cred.; jr., sr.; prereq. 1-2-3 or 5-6; Psy. 1-2) (Sec. limit 45)				
		VI	MWF	308F	Mr. Bryngelson
65f†	Radio Speech (3 cred.; jr., sr.; prereq. 1-2-3 or 5-6)				
		II	MWF	302MurH	Mr. Ziebarth
65s†	Radio Speech (See 65f)				
		II	TThS		Mr. Ziebarth
66f,w,s††	Radio Drama (3 cred.; jr., sr.; prereq. 1-2-3 or 5-6; 65 recommended)				
		III	MWF	302MurH	Ar
67f,w,s††	Phonetics (3 cred.; jr., sr.; prereq. 1-2-3 or 5-6, 65 recommended)				
		I	MWF	406F	Mr. Irwin

\* Open to a limited number of freshmen with the approval of their advisers and the Department of Speech.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ A fee of \$1 per quarter is charged for this course.

¶ Students intending to take Speech Pathology should take Phonetics the preceding spring.

\*\* No student may receive credit for Course 71-72-73 and Courses 34, 91-92-93, 111-112-113.

†† A fee of \$2 per quarter is charged for this course.

71f-72w- 73s††**	Play Production: Problems of Dramatic Production in the Secondary School. Primarily for students in the College of Education (9 cred.; jr., sr.; prereq. 1-2, 31, 32)	IV	MWF 19Mu	Mr. Brink
78w-79s††	Advanced Acting—Characterization and Dialect (6 cred.; jr., sr.; prereq. 31, 32-33)	IV	TThS	Mr. Graham
81f-82w-83s†	Interpretative Reading (9 cred.; jr., sr.; prereq. 1-2-3 or 5-6)			
	Sec. 1a	IV	MWF 308F	Mr. Rarig
	1b	IV	MWF 406F	Mr. Thompson
	2	VI	MWF 306F	Ar
81w-82s†	Interpretative Reading (See 81f-82w-83s)	I	TThS	Mr. Rarig
83f†	Interpretative Reading (3rd qtr. of 81-82-83. See 81f-82w-83s)	I	TThS 308F	Mr. Rarig
91w††**	Stage Design (3 cred.; jr., sr.; prereq. 31)	III	TThS	Ar
92s††**	Stage Lighting (3 cred.; jr., sr.; prereq. 31)	III	TThS	Mr. Andrus
97f,w,s	Intercollegiate Oratory and Debate (1 to 3 cred. by petition; jr., sr.; prereq.§)	Ar	Ar 308F	Mr. Rarig, Mr. Howell
101f-102w-103s	Argumentation and Persuasion (9 cred.; jr., sr., grad.; prereq. 1-2-3 or 5-6; Psy. 1-2; 10 cred. in soc. sci.)	III	MWF 303F	Mr. Howell
105s*	Theory of Reading and Acting (3 cred.; jr., sr., grad.; prereq. 1-2-3 or 5-6, 81-82-83, and Psy. 1-2)	III	MWF	Mr. Rarig
106f,w,s	Discussion (3 cred.; jr., sr., grad.; prereq. 1-2-3 or 5-6)	VII	MWF 226F	Mr. Howell
111f-112w- 113s††**	Stage Direction (9 cred.; sr., grad.; prereq. 31, 32, 34, 91-92-93)	III	MWF 19Mu	Mr. Whiting
115f-116w	Playwriting and Production (1 to 3 cred. per qtr.; sr., grad.; prereq. 31, 32-33 and permission of instructor)	IV	TThS Ar	Mr. Thompson
117s	Writing Radio Drama (1 to 3 cred.; sr., grad.; prereq. 31, 32-33 and permission of instructor)	IV	TThS 20Mu	Mr. Thompson
121s	Advanced Speech Problems (3 cred.; jr., sr., grad.; prereq. 1-2-3 or 5-6, Psy. 1-2)	II	TThS	Mr. Gilkinson
122f	Introduction to Research (3 cred.; sr., grad.; prereq. 1-2-3 or 5-6, Psy. 1-2)	II	TThS 308F	Mr. Gilkinson
131s††	Community Dramatics (Children's Theater) (3 cred.; sr., grad.; prereq. 91-92-93 and 111-112-113 or permission of instructor)	VI	MWF	Mr. Gordon
141f-142w-143s	Voice Science (9 cred.; jr., sr., grad.; prereq. 1-2-3 or 5-6, 67; Psy. 1-2 and 4-5)	VII	MWF 406F	Mr. Irwin
152f-153w	Problems of Hearing (6 cred.; jr., sr., grad.; prereq. 1-2-3 or 5-6; 61, 67; Psy. 1-2; or permission of instructor)	IV	MWF Ar	Mr. Hedgecock
155s	Lip Reading and Lip Reading Methods (3 cred.; prereq. 1-2-3 or 5-6; Psy. 1-2; or permission of instructor)	IV	MWF	Mr. Hedgecock
162w-163s††	Speech Pathology (6 cred.; jr., sr., grad.; prereq. 1-2-3 or 5-6; 61, 67; and permission of instructor)	VI	T	Mr. Bryngelson
		VI, VII	Th	

\* Courses 105 and 109 are offered in alternate years.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ A fee of \$1 per quarter is charged for this course.

§ Open to representatives of the University in the Northern Oratorical League and to members of the intercollegiate debate squad.

¶ Students intending to take Speech Pathology should take Phonetics the preceding spring.

\*\* No student may receive credit for Course 71-72-73 and Courses 34, 91-92-93, 111-112-113.

†† A fee of \$2 per quarter is charged for this course.

164f-165w-166s Clinical Methods and Practice in Speech Pathology (The same as Ed.C.I. 174-175-176) (9 cred.; sr., grad.; prereq. 1-2-3; 61, 67, 162, and Ed.Psy. 142. May be taken simultaneously with Sp. 163)

VIII WF 406F Mr. Bryngelson  
and ar

174f-175w-176s Theater Backgrounds (9 cred.; sr., grad.; prereq. 1-2-3 or 5-6; 31. Courses in literature recommended)

VII T 20Mu Mr. Whiting  
VI, VII Th

181f-182w-183s Readings in Speech (Cred. ar.; jr., sr., grad.; prereq. 1-2-3 or 5-6 and six additional credits and consent of instructor)

Ar Ar Ar Mr. Rarig,  
Mr. Bryngelson,  
Mr. Gilkinson,  
Mr. Howell,  
Mr. Whiting

184f-185w-186s Interpretation of the Drama (The same as English 184-185-186) (9 cred.; jr., sr., grad.; prereq. 6 cred. above 50 in English, Eng. 55-56 advised)

IX, X W 311½F Mr. Bentley

*For Graduate Students Only*

201f,w,s General Seminar

Ar Ar Ar Staff

207f-208w-209s Seminar in Rhetoric and Persuasion

Ar Ar Ar Mr. Howell

211f-212w-213s Seminar in Dramatic Theory

VIII-IX Th 20Mu Mr. Thompson

221f-222w-223s Seminar in Oral Interpretation of Literature

Ar Ar Ar Mr. Rarig

231f-232w-233s Seminar in Advanced Speech Problems

Ar Ar Ar Mr. Gilkinson

261f-262w-263s Seminar in Speech Pathology

Ar Ar Ar Mr. Bryngelson

291f-292w-293s Reesarch in Special Problems

Ar Ar Ar Mr. Rarig,  
Mr. Bryngelson,  
Mr. Gilkinson,  
Mr. Whiting

SWEDISH

See Scandinavian, page 90.

ZOOLOGY

*Junior College Courses*

1f-2w-3s\*†† General Zoology (10 cred.; no prereq.)

Lect. Sec. 1 (Limited to 320)	II	TTh	06Bo	Mr. Minnich
2 (Limited to 320)	IV	WF	06Bo	Mr. Wodse- dalek
3 (Limited to 320)	VII	TTh	06Bo	Mr. Olson
4 (Limited to 320)	VIII	WF	06Bo	Mr. Dawson
Lab. Sec. 1 (Limited to 174)	I, II	MF	101Z, 107Z	Ar
2 (Limited to 174)	III, IV	MF	101Z, 107Z	
3 (Limited to 174)	V, VI	MF	101Z, 107Z	
4 (Limited to 174)	VII, VIII	MF	101Z, 107Z	
5 (Limited to 60)	IX, X	MF	107Z	
6 (Limited to 60)	I, II	TTh	107Z	
7 (Limited to 174)	III, IV	TTh	101Z, 107Z	

\* Lectures may be elected without laboratory with the consent of the chairman of the department. Laboratory must be taken with the lectures, however, if zoology is offered as the required laboratory science. Students should elect lecture sections in which they can continue throughout the three quarters.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

†† A fee of \$1.50 per quarter is charged for this course.

14f-15w†‡	General Zoology (For students of the Colleges of Agriculture, Forestry, and Home Economics, Nursing and Pharmacy) (6 cred.; no prereq.)				
	Lect. Sec. 1	V	TTh	06Bo	Mr. Dawson
		2	VII	TTh	NHAud Ar
	Lab. Sec. 1 (Limited to 174)	V, VI	TTh	101Z, 107Z	Ar
	2 (Limited to 174)	VII, VIII	TTh	101Z, 107Z	Ar
	3 (Limited to 174)	IX, X	TTh	101Z, 107Z	
21f‡§¶	Histology (5 cred.; soph., jr., sr.; prereq. 1-2-3) (Sections limited to 60 each)				
	Lect.	III	TThS	313Z	Mr. Ringoen
	Lab. Sec. 1¶	I, II	TThS	201Z, 202Z	Miss Slider
	2	VI, VII, VIII	TTh	201Z, 202Z	Mr. Ringoen
22w‡‡	Comparative Anatomy (5 cred.; soph., jr., sr.; prereq. 1-2-3) (Sections limited to 40 each)				
	Lect.	III	TThS		Mr. Eddy
	Lab. Sec. 1	VI, VII, VIII	TTh		
	2	VI, VII, VIII	MW		
	3	III, IV	MWF		
46w-47s†	Ornithology (6 cred.; soph., jr., sr.; prereq. 1-2-3 and permission of instructor)				
	Lect.	VI, VII, VIII	MW		Ar

### Senior College Courses

Courses 50, 51, 52, 53, 81, 82, and 83 are open to sophomores who have a grade of at least C in Course 1-2-3. Other Senior College courses in this department are open to Junior College students only by special permission of the Students' Work Committee.

Students planning to elect Course 81 and any course numbered above 100 should consult the chairman of the department before completing his program.

50s‡§	Introduction to Comparative Physiology (5 cred.; soph., jr., sr.; prereq. 1-2-3 or 15 cred. in bot.; and 10 cred. in chem. or permission of instructor) (Section limited to 20)				
	Lect.	III	TThS		Mr. Steinbach
	Lab.	I, II	TThS		
51f‡	Introductory Animal Parasitology (5 cred.; jr., sr.; prereq. 1-2-3)				
	Lect.	VI	MWF	06Bo	Mr. Wallace
	Lab. Sec. 1 (Limited to 80)	I, II	MWF	208Z, 202Z	
	2 (Limited to 40)	III, IV	MWF	208Z	
	3 (Limited to 80)*	VII, VIII	MWF	208Z, 202Z	
52w‡	Introductory Entomology (5 cred.; jr., sr.; prereq. 1-2-3) (Sections limited to 26)				
	Lect.	VI	MWF		Mr. Mickel
	Lab.	VII, VIII	MWF		
53s‡	Faunistic Zoology (5 cred.; jr., sr.; prereq. 1-2-3)				
	Lect.	VIII	MWF		Mr. Eddy
	Lab. Sec. 1 (Limited to 40)	VI, VII	MW		
		VI-IX	F		
	2 (Limited to 40)	IX, X	MW		
		VII-X	F		
75s‡	Nature Study (3 cred.; jr., sr.; prereq. 15 cred. including 1-2-3. Required of all zoology majors and minors in the College of Education in the junior year)				
	Lect. and lab.	VI, VII, VIII	TTh		Mr. Wodsedalek
81f‡	Invertebrate Zoology (3 cred.; jr., sr.; prereq. 1-2-3) (Limited to 24)				
	Lect.	I	WF		Mr. Dawson
	Lab.	I, II	TTh		
82w	Organic Evolution (3 cred.; jr., sr.; prereq. Zool. 1-2-3 or Bot. 1, 7, 21)				
		II	MWF		Mr. Dawson

\* For students in Medical Technology only except by written permission from the Department of Zoology.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ A fee of \$1.50 is charged for this course.

¶ All zoology majors should register for Section 1.

§ Not open to regular three-year premedical and pre dental students.

‡‡ A fee of \$7.00 is charged for this course.

83f,s	Introduction to Genetics and Eugenics (3 cred.; jr., sr.; prereq. 1-2-3 or 10 cred. in bot.)	II	MWF 313Z	Mr. Reed
107w†-108s†	Protozoology (6 cred.; jr., sr., grad.; prereq. 15 cred.) Lect. and lab.	III, IV, V	TTh	Mr. Osterud
109f†-110w†-111s†	General Physiology of Animal Reactions (9 cred.; jr., sr., grad.; prereq. 15 cred.) Lect. and lab.	III, IV	MWF 211Z, 18Z	Mr. Minnich
112f-113w†	Advanced Comparative Physiology (6 cred.; jr., sr., grad.; prereq. 15 cred. with consent of instructor) Lect. Lab.	VI VI, VII, VIII, IX	MF 211Z W 18Z	Mr. Steinbach
117f†-118w†-119s††**	Animal Ecology (9 cred.; jr., sr., grad.; prereq. 15 cred.) Lect. Lab.	VI VII, VIII	TTh 211Z	Mr. Eddy Mr. Hodson
120s†	General Ecology of Insects (3 cred.; jr., sr.; prereq. 15 cred. in zool. or ent.) Lect.	VI, VII, VIII	TTh	Mr. Hodson
121f†	Ichthyology (3 cred.; jr., sr., grad.; prereq. 15 cred.) Lect. and lab.	IX, X	MWF 211Z	Mr. Eddy
125f†-126w†-127s†	Advanced General Entomology (9 cred.; jr., sr., grad.; prereq. 15 cred.) Lect. Lab.	I I, II, III	TTh 211Z S 402Z	Mr. Mickel
128f†-129w†	Insect Physiology (8 cred.; jr., sr., grad.; prereq. 15 cred. in Zool. or Ent. and consent of instructor. Zool 50 or equiv. recommended) Lect. Lab.	VI VII, VIII, IX	WF 15Ad(UF) WF 8Ad(UF)	Mr. Richards
133s	Genetics of Development (3 cred.; jr., sr., grad.; prereq. proper preparation in advanced genetics or consent of instructor) Lect. and Lab.	VII, VIII, IX	MW	Ar
144f†	Medical Entomology (3 cred.; jr., sr., grad.; prereq. 15 cred.) Lect. and Lab.	VII, VIII, IX	TTh 208Z	Mr. Burroughs
145w†-146s†	Animal Parasites and Parasitism (6 cred.; jr., sr., grad.; prereq. 15 cred.) Lect. and Lab.	VII, VIII, IX	TTh	Mr. Wallace
149w†-150s†	Histology and Organology (6 cred.; jr., sr., grad.; prereq. 15 cred. in zool.) Lect. and Lab.	II, III, IV	TTh	Mr. Ringoen
155w†	Physiology in Relation to Physics (3 cred.; jr., sr., grad.; prereq. 15 cred. in biol. sci. and consent of instructor. Physics recommended) Lect. and Lab.	Ar	Ar Ar Ar	Ar
160f†-161w†	Cytology (6 cred.; jr., sr., grad.; prereq. 15 cred. with consent of instructor) Lect. and Lab.	VI, VII, VIII	TTh 204Z	Mr. Wodsdalek
170f†-171w†	Advanced Genetics (6 cred.; jr., sr., grad.; prereq. 15 cred. including Course 83, or consent of instructor) Lect. and Lab.	VII, VIII, IX	MW 209Z	Ar
180s†	Comparative Embryology (3 cred.; jr., sr., grad.; prereq. 15 cred. including Course 21 or equiv.) Lect. and lab.	III, IV	MWF	Mr. Ringoen
181f	Endocrines and Reproduction (3 cred.; jr., sr., grad.; prereq. 15 cred. including Course 21 or equiv.) Lect.	III	MWF 313Z	Mr. Ringoen
182w	Experimental Embryology (3 cred.; jr., sr., grad.; prereq. 15 cred. including Course 21 or equiv.) Lect.	III	MWF	Mr. Ringoen
197f-198w-199s	Problems (5 or more cred.; jr., sr., grad.; prereq. 1-2-3, special requirements) Ar	Ar	Ar Ar Ar	Ar

† A fee of \$1.50 is charged for this course.

‡ Either 119s or 120s or both may be taken to complete Course 117f-118w.

\*\* In the winter quarter this course is offered at the University Farm.

*For Graduate Students Only*

100f-101w-102s Zoological Techniques	Ar
201f-202w-203s Research in Entomology	Mr. Mickel
211f-212w-213s Research in Ecology	Mr. Eddy
217f-218w-219s Research in Physiology	Mr. Minnich, Mr. Steinbach
221f-222w-223s Research in Biophysics	Mr. Schmitt
229f-230w-231s Research in Histology	Mr. Ringoen
233f-234w-235s Research in Embryology	Mr. Ringoen
237f-238w-239s Research in Cytology	Mr. Wodsedalek
241f-242w-243s Research in Protozoology	Mr. Osterud
251f-252w-253s Research in Genetics	Mr. Reed
261f-262w-263s Research in Parasitology	Mr. Wallace
291f-292w-293s General Seminar	Ar
296f-297w-298s Special Seminar in Special Research Fields	Ar

## ENTOMOLOGY AND ECONOMIC ZOOLOGY

Students in this college may elect courses in Entomology and Economic Zoology by arrangement with the department, but before registering for any courses they should get the approval of Assistant Dean Shumway, 219 Administration Building. See page 143.

## COLLEGE OF EDUCATION

Junior College courses, primarily for freshmen and sophomores, are numbered from 1 to 49; Senior College courses, primarily for juniors and seniors, are numbered from 50 to 99; courses numbered from 100 to 199 are primarily for seniors and graduates; courses numbered 200 and above are for graduate students only.

### GENERAL COURSES

Ed.51Cf-51Aw-51Bs††	Introduction to Secondary School Teaching (9 cred.; jr.; prereq. 6 cred. in psy.)				
	Sec. 1	I	MWF	111NH	Ar(f), Mr. Dugan (w). Miss Eckert (s)
	2	III	MWF	210P	Mr. Boardman (f), Mr. Van Wag- enen (w), Ar (s)
	3	VII	MWF	144NH	Mr. Anderson
Ed.51Af††	Introduction to Secondary School Teaching (See 51C-A-B)				
	Sec. 1	I	MWF	115Psy	Mr. Miller
	2	III	TThS	109Psy	Mr. Van Wagenen
Ed.51As††	Introduction to Secondary School Teaching (See 51C-A-B)				
	Sec. 1	I	MWF		Mr. Miller
	2	III	TThS		Mr. Van Wagenen
Ed.51Bf††	Introduction to Secondary School Teaching (See 51C-A-B)				
		VIII	MWF	204NH	Miss Eckert
Ed.51Bw††	Introduction to Secondary School Teaching (See 51C-A-B)				
		III	TThS		Mr. Anderson
Ed.51Cw††	Introduction to Secondary School Teaching (See 51C-A-B)				
		IV	MWF		Miss Eckert
Ed.51Cs††	Introduction to Secondary School Teaching (See 51C-A-B)				
	Sec. 1	IV	MWF		Ar
	2	I	TThS		Mr. Anderson
Ed.61C-61A-61B†	Introduction to Elementary School Teaching (6 cred.; jr.; prereq. 6 cred. in psy. and a C average) ( <i>Not offered</i> ) See Ed. 71A-B-C				
Ed.71Af†	Introduction to Elementary School Teaching—Individual Differences (5 cred.; jr.; prereq. Psy. 1-2)				
		III	MWF		Mr. Cook
	Sec. 1	I-II	TTh	Tuttle School	
	2	III-IV	TTh	Tuttle School	
Ed.71Bw†	Introduction to Elementary School Teaching—Learning and Adjustment (5 cred.; jr.; prereq. Ed. 71A)				
		III	MWF		Mr. Bond
	Sec. 1	I-II	TTh	Tuttle School	
	2	III-IV	TTh		
Ed.71Cs†	Introduction to Elementary School Teaching—Curriculum, Methods, and Organization (5 cred.; jr.; Ed. 71B)				
		III	MWF		Mr. Brueckner
	Sec. 1	I-II	TTh	Tuttle School	
	2	III-IV	TTh		
Ed.81f,w,s	Introduction to Education for Public Health Nurses (3 cred.) (Not open to candidates for a degree in the College of Education)				
		III(f,s)	MWF	Ar	Miss Grout
		II(w)	MWF	Ar	Miss Grout

† The entire course must be completed satisfactorily before credit is given for any quarter. Graduates of teachers colleges should consult their advisers before registering for any part of the course.

‡ A fee of \$1.50 per credit is charged for this course.

Ed.Wf,w,s

Professional Preparation for Teaching. This classification is designed for students already holding a baccalaureate degree who desire to complete their preparation for teaching and qualify for the state teacher's certificate. Such students should consult the adviser as to their eligibility and outline for approval a program covering at least three quarters of study. Courses must be selected so as to meet all requirements for major, minor, and professional training. The entire program must be approved by the adviser and completed successfully before credit is allowed for any of the courses taken. (Minimum of 45 cred.; prereq. a Bachelor's degree, a minimum of 135 cred., a 1.75 average in all previous work, and the consent of the course adviser. Special adjustments will be made for veterans.)

Ar Ar Ar Mr. Grim

## AGRICULTURAL EDUCATION

Agr.Ed.1f,w,s

Introduction to Agricultural Education (1 cred.; fr.; no prereq.)

Fall, winter	VI	M	301Hr	Ar
Spring	Ar	Ar	301Hr	Ar

Agr.Ed.54f,w

Rural Education and Community Leadership (2 cred.; jr., sr.; prereq. Ed. 51A)

IV and	T	301Hr	Mr. Field
1 hr. ar.			

Agr.Ed.56

Rural Youth Leadership (3 cred.; jr., sr. or permission of instructor; no prereq.)  
(Not offered in 1947-48)

Agr.Ed.81w,s

Teaching Agriculture (3 cred.; jr.; prereq. Ed. 51A)

IV	MWF	301Hr	Mr. Field
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Agr.Ed.82f,s†

Methods in Teaching Agriculture (3 cred.; sr.; prereq. 81)

III	MWF	301Hr	Mr. Field
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Agr.Ed.91f,w,s‡

Supervised Teaching Experience (6 cred.; sr.; prereq. 82 and a C+ average in the major)

Ar	Ar	Ar	Mr. Peterson
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Agr.Ed.101f,w

Adult Education in Agriculture (3 cred.; sr.; prereq. 81)

II	MWF	301Hr	Mr. Peterson
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Agr.Ed.103f,w

Facilities and Materials (3 cred.; sr.; prereq. 81)

I(f)	MWF	301Hr	Mr. Peterson
III(w)	MWF		Mr. Field

Agr.Ed.104f,w,s

Planning Programs (2 cred.; sr.; prereq. 82)

III	TTh	301Hr	Mr. Field
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Agr.Ed.121

Enterprise Analysis (2 cred.; prereq. Ed. 51A) (Not offered)

Agr.Ed.154f,w

Rural Education and Community Leadership (2 cred.; prereq. 10 cred. in ed.)

Ar	Ar	Ar	Mr. Field
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Agr.Ed.199Ef,w,s‡

Internship (Cred. ar.)

Ar	Ar	Ar	Mr. Field, Mr. Peterson
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Agr.Ed.221f,w,s

Field Problems (3 cred. per qtr.)

Ar	Ar	Ar	Mr. Field, Mr. Peterson
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Agr.Ed.232f,w,s

Research in Agricultural Education (3 to 9 cred.; grad.; prereq. 15 cred. in ed.)

Ar	Ar	Ar	Mr. Field, Mr. Peterson
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Agr. Ed.291f,w,s

Seminar in Agricultural Education (Cred. ar.)

Ar	Ar	Ar	Mr. Field, Mr. Peterson
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† The entire course must be completed satisfactorily before credit is given for any quarter. Graduates of teachers colleges should consult their advisers before registering for any part of this course.

‡ A fee of \$1.50 per credit is charged for this course.



## ART EDUCATION

## GROUP A—DESIGN

*Junior College Courses*

ArtEd.1f,2w,3s	General Design (9 cred.; by permission only; no prereq.)			
	Sec. 1	I-II	MWF 104J	Miss Lien
	2	VI-VII	MWF 104J	
	3	III-IV	TThS	
ArtEd.1f,w	General Design (3 cred.; no prereq.)			
		VIII-IX	MWF	Ar

*Senior College Courses*

ArtEd.50Af,50Bw, 50Cs§	Introduction to Commercial Design (9 cred.; prereq. 6 cred. General Design and 2 cred. Basic Drawing or equiv., or permission of instructor)			
		III-IV	MWF 104J	Miss Stoick
ArtEd.51s	Introduction to Industrial Design (3 cred.; prereq. 6 cred. General Design and 2 cred. Basic Drawing or equiv., or permission of instructor)			
		I-II	TThS 104J	Mr. Wiggan
ArtEd.52Af,52Bw	Interior Design (6 cred.; prereq. 6 cred. General Design and 2 cred. Basic Drawing or equiv., or permission of instructor)			
		VI-VII	TTh 104J	Mrs. Torbert
ArtEd.150w	Advanced General Design: Commercial design and the consumer (3 cred.; jr., sr., grad.; prereq. permission of instructor)			
		IX-X-XI	T	Miss Lien
	and ar			
ArtEd.151f	Advanced General Design: Industrial design and the consumer (3 cred.; jr., sr., grad.; prereq. permission of instructor)			
		IX-X-XI	T 104J	Miss Lien
	and ar			

## GROUP B—HANDCRAFTS

NOTE—Design either before or concurrent with craft courses is strongly recommended. ArtEd. 31, 32, and 33, 34, serve the needs of recreational leaders, social workers, camp directors, occupational therapists, hobbyists, elementary teachers, and other non-art specialists.

*Junior College Courses*

ArtEd.31f,s	General Handcrafts: Texture exercises, work in metal, wood, and clay (3 cred.; no prereq.)			
	Sec. 1	I-II	MWF 10J or 11J	Ar
	2	III-IV	MWF	Ar
	3	VIII-IX	MWF	Ar
ErtEd.32w	General Handcrafts: Collage, montage, mobiles, three dimensional compositions, combining materials (3 cred.; no prereq.)			
	Sec. 1	I-II	MW	Ar
	2	III-IV	MWF	Ar
	3	VIII-IX	MWF	Ar
ArtEd.33f	General Handcrafts: Paper, cardboard, papier maché, decorative papers, hand puppets, cords, belts, knitting, crochet, hooking cardboard, weaving (3 cred.; no prereq.)			
	Sec. 1	I-II	MWF 4J	Miss Berglund
	2	III-IV	MWF 4J	Ar
	3	VIII-IX	MWF 4J	Ar
ArtEd.34w	General Handcrafts: Leather tooling, bookbinding, basketry, needlework, netting, cardweaving, etc. (3 cred.; no prereq.)			
	Sec. 1	I-II	MWF	Miss Berglund
	2	III-IV	MWF	Ar
	3	VIII-IX	MWF	

§ Students may enter any quarter.

*Senior College Courses*

ArtEd.70Af,70Bw, 70Cs‡§	Wood Sculpture and Carving (9 cred.; prereq. permission of instructor)			
	Sec. 1	I-II	TThS 11J	Mr. Rood
	2	1I-IV	TThS 11J	Mr. Rood
ArtEd.73Af,73Bw, 73Cs‡§	Ceramics (9 cred.; prereq. 6 cred. General design or permission of instructor)			
	Sec. 1	I-II	TThS 10J	Mr. Lupori
	2	III-IV	TThS 10J	Ar
	3	VI-VII-VIII	TTh 10J	Ar
ArtEd.76f‡	Textiles: Fundamental weaving (3 cred.; prereq. permission of instructor)			
		VII-VIII	MWF 2J	Miss Berglund
ArtEd.77w‡	Textiles: Advanced weaving (3 cred.; prereq. permission of instructor)			
		VII-VIII	MWF 2J	Miss Berglund
NOTE ON WEAVING COURSES: In order that looms may be used to best advantage, students are expected to work on an average of 18 hours per week while their work is on looms. Hence Fundamental and Advanced Weaving (6 cred.) may be earned in one quarter or 3 cred. may be earned in half a quarter.				
ArtEd.78s‡	Textile Design: Weaving (3 cred.; prereq. permission of instructor)			
		VII-VIII	MWF	Miss Berglund
ArtEd.79s‡	Textile Design: Printing processes—tie-dye, batik, stenciling, silk screen, block printing, etc. (3 cred.; prereq. permission of instructor)			
		III-IV	TThS	Miss Berglund
ArtEd.170Ef,w,s‡	Advanced Wood Sculpture and Carving (3 to 9 cred.; grad.; prereq. permission of instructor)			
		VII-VIII-IX	TTh 11J	
ArtEd.173Ef,w,s‡	Advanced Ceramics (9 cred.; grad.; prereq. permission of instructor)			
		VIII-IX	MWF 10J	Mr. Lupori

## GROUP C—DRAWING AND PAINTING

*Junior College Courses*

ArtEd.4f,6w,8s‡‡	Basic Drawing: 4, Introduction to Materials, and Techniques (2 cred.; no prereq.); 6, Introduction to Still Life and Figure (2 cred.; prereq. 4 or equiv., or consent of instructor); 8, Introduction to Landscape and Figure (2 cred.; prereq. 4 or equiv., or consent of instructor)			
	Sec. 1	I, II	MF 207aJ	Ar
	2	III, IV	MF 207aJ	Ar
	3	VI, VII	MF 109J	Ar
	4	VIII, IX	MF 207aJ	Ar
	5	I, II	MF 203aJ	Ar
	6	III-IV	MF 203aJ	Ar
	7	VIII-IX	MF 203aJ	Ar
	8	III-IV	MF 203aJ	Ar
ArtEd.4w,4s‡‡	Basic Drawing: Introduction to Materials and Techniques (2 cred.; no prereq.)			
	Sec. 1	I-II	MF 207bJ	Ar
	2	III-IV	MF 207bJ	Ar
	3	VI-VII	MF 207bJ	Ar
	4	VI-VII	MF 203aJ	Ar
ArtEd.8f‡‡	Basic Drawing: Introduction to Landscape and Figure (2 cred.; prereq. 4 or equiv., or consent of instructor)			
	Sec. 1	III-IV	MF 207bJ	Ar
	2	VI-VII	MF 207bJ	Ar
	3	VI, VII	MF 203aJ	Ar
ArtEd.23f,w,s‡‡	Pictorial Composition (2 cred.; prereq. 6 cred. in drawing or permission of instructor)			
	Sec. 1	I-II	TTh 203J	Ar
	2	V-VI	TTh 203J	Ar

§ Students may enter any quarter.

‡ A fee of \$1.50 per quarter is charged for this course.

‡‡ A fee of \$1 per quarter is charged for this course.

ArtEd.24Af,24Bw, 24Cs†	Water Color Painting (6 cred.; prereq. 6, 8, or equiv., or permission of instructor)			
	Sec. 1	I, II	TTh 207aJ	Mrs. Rollins
	2	VI-VII	TTh 207aJ	Miss Haley
	3	I-IV	S 203aJ	Ar
ArtEd.26Af,26Bw, 26Cs†	Oil Painting (6 cred.; prereq. 6, 8, or equiv., or permission of instructor)			
	Sec. 1	I-II	TTh 207bJ	Mrs. Rollins
	2	VI-VII	TTh 207bJ	Mrs. Rollins
	3	I-IV	S 207bJ	Ar
ArtEd.28Af,28Bw, 28Cs†	Advanced Drawing Techniques (6 cred.; prereq. 6, 8, or equiv., or permission of instructor)			
		VIII-IX	TTh 207aJ	Ar

*Senior College Courses*

ArtEd.61ff	Figure Drawing and Painting (2 cred.; prereq. 12 cred. drawing or painting, or permission of instructor)			
	Sec. 1	I-IV	S 203aJ	Mrs. Rollins
	2	I-II	TTh 203aJ	Ar
	3	III-IV	Th 203aJ	Ar
ArtEd.62w†	Portrait Drawing and Painting (2 cred.; prereq. 12 cred. drawing or painting, or permission of instructor)			
	Sec. 1	I-IV	S	Mrs. Rollins
	2	I-II	TTh	Ar
	3	III-IV	TTh	Ar
ArtEd.63f,61w,62s†	Figure, Portrait, and Landscape Drawing and Painting (See above)			
	Sec. 1	I-IV	S 203J	Ar
	2	III-IV	TTh 203aJ	Ar
	3	III-IV	TTh 207aJ	Ar
ArtEd.63s†	Landscape Drawing and Painting (2 cred.; 12 cred. in drawing or painting, or permission of instructor)			
	Sec. 1	I-IV	S	Mrs. Rollins
	2	I-II	TTh	Ar
	3	III	TTh	Ar
ArtEd.66Af,66Bw†	Fashion Illustration (4 cred.; prereq. 4 cred. in Basic Drawing)			
		IX-X	Th 109J	Miss Stoick
ArtEd.67Af,67Bw, 67Cs†	Illustration for Advertising and Other Purposes (6 cred.; prereq. 12 cred. drawing or painting, or permission of instructor)			
	Sec. 1	I, II, III	F 109J	Mr. Wiggin
	2	VII, VIII, IX	T 109J	Ar
ArtEd.68Af,68Bw, 68Cs†	Print Processes: Lithography, silk screen, block print, etc. (6 cred.; prereq. 12 cred. drawing or painting, or permission of instructor)			
		VI, VII, VIII	Th 203aJ	Mrs. Rollins
ArtEd.124Ef,w,s†	Advanced Specialized Drawing and Painting (Cred. ar.; grad.; permission of instructor)			
		VI-IX	F 203J	Mrs. Rollins

## GROUP D—UNDERSTANDING AND APPRECIATION

*Junior College Courses*

ArtEd.14f,15w,16s‡	Survey of Art in Life and Education (For art majors and others obtaining art experience in studio courses.) 14, Present-day varieties of drawing and painting; 15, Foundations of contemporary design; 16, The designer's role in modern life. (9 cred.; no prereq.)			
	Lect.	IV	T MNH	Aud Mr. Gayne and others
	Lab.	III	T 109J	Mr. Gayne
		III, IV	Th	

† A fee of \$1 per quarter is charged for this course.

‡ Students may enter any quarter.

ArtEd.17f,18w,19s‡	Survey of Art in Life and Education (For elementary, child welfare and other education majors; others by permission.) 17, How the artist expresses life; 18, Design, the structural basis of art; 19, Influence of modern art on modern life. (9 cred.; no prereq.)	IV	T	MNHAud	Mr. Gayne and others
	Lect.				
	Lab. Sec. 1	I-II	TTa	109J	Mr. Gayne
	2	VI, VII	MW	109J	Mr. Gayne

### Senior College Courses

ArtEd.153w	Home Design in Society and Education (3 cred.; jr., sr., grad.; prereq. permission of instructor)	VIII-IX	WF		Mr. Torbert
ArtEd.154	<i>Development of Personality and Its Expression in Costume</i> (3 cred.; jr., sr., grad.; prereq. permission of instructor) ( <i>Not offered</i> )				
ArtEd.155s	Painting and Sculpture in Society and Education (3 cred.; jr., sr., grad.; prereq. permission of instructor)	VIII-IX	WF		Mr. Torbert
ArtEd.157w	Art Movements of Twentieth Century Scandinavia (3 cred.; prereq. permission of instructor)	IX-X	Th		Miss Lien

NOTE—Nine credits of art history is required of art education majors and they are encouraged to take additional courses in that field. Art history courses are available in the Fine Arts Department, the department of art history and criticism on the campus.

### GROUP E—PROFESSIONAL COURSES

ArtEd.84w‡	Methods of Teaching Art in the Elementary Grades (3 cred.; prereq. Ed. A-B-C, or equiv.)	VII	TTh and 1 hr. ar		Mr. Gayne
ArtEd.86f-87w-88s‡§	Special Methods and Directed Teaching in Art (12 cred.; prereq. 51C-A-B)	Ar	MF Ar		Art Ed. Staff
ArtEd.156s	Intercultural Education through Art (3 cred.; jr., sr., grad.)	IX-X	T		Miss Lien
ArtEd.183	<i>Philosophy of Art Education</i> (3 cred.; sr., grad.) ( <i>Not offered</i> )				
ArtEd.184s‡	Advanced Course in Methods and Supervision of Art in the Elementary School (3 cred.; sr., grad.; prereq. 51C-A-B or 61A-B, or equiv.)	VII	TTh and 1 hr. ar	203J	Mr. Gayne
ArtEd.185f‡	Methods of Teaching Art in the Secondary School (3 cred.; sr., grad.)	VIII-IX-X	Th	104J	Miss Lien
ArtEd.189	<i>Application of Esthetic Theory in Public Education</i> (3 cred.; jr., sr., grad.) ( <i>Not offered</i> )				
ArtEd.284f,w,s	Reading and Research in Art Education (Cred. ar.; grad.)	Ar	Ar Ar		Ar
ArtEd.295f,w,s	Special Problems in Art Education (Including technical art projects involving advanced studio practice) (Cred. ar.; grad.)	Ar	Ar Ar		Ar
ArtEd.296f	Seminar in Art Education (No credit)	VIII	T	4J	Miss Lien and staff

‡ A fee of \$1.50 per credit is charged for this course.

§ Taking the speech and psychological examinations and a C+ average (1.5 honor points per credit) in the major or the subject in which student teaching is done are prerequisite to registration in this course.

¶ Students may enter any quarter.

CURRICULUM AND INSTRUCTION

All courses under *Curriculum and Instruction* except seminar courses, carry a fee of \$1.50 per credit.

GENERAL COURSES

Ed.C.I.170†	<i>Methods and Materials in Safety Education</i> (3 cred.) (Not offered)			
Ed.C.I.104s†	Adult Education (2 cred.; jr., sr., grad.)			
		IX-X	T	Ar
Ed.C.I.105w†	Visual Aids in Teaching (3 cred.; jr., sr., grad.)			
		VII	MWF	Mr. Wendt
Ed.C.I.106w†	Coordinating a Visual Education Program (3 cred.; jr., sr., grad.; prereq. 105 or permission of instructor)			
		III-IV	S	Mr. Wendt
Ed.C.I.107f-108w†	Radio in Education (4 cred.; jr., sr., grad.; prereq. 9 cred. in ed.)			
		III-IV	S 106NH	Mr. Tyler
Ed.C.I.107s†	Radio in Education (3 cred.; jr., sr., grad.; prereq. 9 cred. in ed.)			
		III	MWF	Mr. Tyler
Ed.C.I.114s†	The School Health Education Program (3 cred.; sr., grad.; prereq. Ed.T. 83, P.H. 50 or equiv.)			
		I	TThS	Miss Starr
Ed.C.I.117s†	Rural Education for Administrators and Teachers (3 cred.; sr., grad.; prereq. consult instructor)			
		I-II	S	Mr. Archer
Ed.C.I.129s†	Principles and Problems of Teaching Social Hygiene (2 cred.; jr., sr., grad.; prereq. 9 hrs. in ed.)			
		VIII-IX	M Ar	Dr. Pearce, Mr. Griffiths
Ed.C.I.145s†	Remedial Reading (3 cred.; prereq. Ed.C.I. 143 or 144 or 159)			
		I-II	S	Mr. Bond
				and 1 hr. ar
Ed.C.I.151w†	Diagnosis and Remedial Instruction (3 cred.; sr., grad.; prereq. Ed.C.I. 150 or equiv.)			
		III	MWF	Mr. Brueckner
Ed.C.I.171f,w,s†	Curriculum Laboratory Practice (2 to 6 cred.; sr., grad.; prereq. 170 or consent of instructor)			
		Ar	Ar Ar	Mr. Bossing, Mr. Cook, Mr. Archer
Ed.C.I.174f-175w-176s††	Clinical Methods and Practice in Speech Pathology (9 cred.; sr., grad.; prereq. Sp. 1, 2, 3, 61, 67, 162 and Ed.Psy. 142. May be taken simultaneously with Sp. 163)			
		VIII and ar	W 406F	Mr. Bryngelson and staff
Ed.C.I.205f,w,s*†	Problems in Visual Education (Cred. ar.)			
		Ar	Ar Ar	Mr. Wendt
Ed.C.I.207f,w,s*†	Problems in Radio Education (1 to 3 cred. per qtr.)			
		Ar	Ar Ar	Mr. Tyler
Ed.C.I.215f,w,s*†	Problems in the School Health Education Program (Cred. ar.; prereq. permission of instructor)			
		Ar	Ar Ar	Miss Grout
Ed.C.I.216f,w,s†	Field Work in the School Health Education Program (Cred. ar.; prereq. permission of instructor)			
		Ar	Ar Ar	Miss Grout
Ed.C.I.217f,w,s	Seminar in the School Health Education Program (Cred. ar.; consult instructor)			
		Ar	Ar Ar	Miss Grout
Ed.C.I.227f,w,s*†	Problems in Rural Education (Cred. ar.)			
		Ar	Ar Ar	Mr. Archer

\* This course may be taken for independent study under Plan B for the Master's degree.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

†† A fee of \$1.50 per credit is charged for this course.

Ed.C.I.271f,w,s*‡	Problems in Curriculum Construction (2 or 3 cred. a qtr. with a maximum of 6; prereq. completion or current enrolment in one of the following: Ed.C.I. 113 or 119 and 170 or consent of instructor)	Ar	Ar	Ar	Mr. Bossing, Mr. Cook, Mr. Archer
Ed.C.I.273f,w,s*‡	Problems in Reading (2 to 9 cred.; prereq. previous training in reading such as Ed.C.I. 143 or 144 or equiv.)	Ar	Ar	Ar	Mr. Bond

## ELEMENTARY EDUCATION

Ed.C.I.60f‡	The Teaching of Reading in the Elementary School (3 cred.; sr.; prereq. Ed. 71A-B)	VI	MWF	100Pt	Mr. Bond
Ed.C.I.61s‡	Teaching the Social Studies in the Elementary School (3 cred.; jr.; prereq. Ed. 71A-B)	VI	MWF		Mr. Wesley
Ed.C.I.62Af‡	The Teaching of Arithmetic in Primary Grades (2 cred.; sr.; prereq. Ed. 61A-B)	VI	TTh		Mr. Brueckner
Ed.C.I.62Bf‡	The Teaching of Arithmetic in Intermediate Grades (2 cred.; sr.; prereq. Ed. 71A-B)	VII	TTh	100Pt	Mr. Brueckner
Ed.C.I.63Tf‡	Children's Literature (2 cred.; for teachers in service)	IX-X	M	206UHS	Miss Smith
Ed.C.I.63w‡	Children's Literature (2 cred.; sr.; prereq. Ed. 71A-B)	VI	TTh		Miss Smith
Ed.C.I.64w‡	The Teaching of English in the Elementary School (3 cred.; sr.; prereq. Ed. 71A-B)	VI	MWF		Miss Smith
Ed.C.I.65s‡	The Teaching of Science in the Elementary School (2 cred.; jr., sr.; prereq. Ed. 61A-B)	VI	TTh		Ar
Ed.C.I.102s‡	The Teaching of the Social Studies in the Elementary School	II	MWF	106Pt	Mr. Wesley
Ed.C.I.119w‡	Elementary School Curriculum (3 cred.; sr., grad.; prereq. Ed. 61C or equiv.)	III-IV and 1 hr. ar	S		Mr. Cook
Ed.C.I.130w,s‡	Problems in Childhood Education (2 cred.; sr., grad.; prereq. 9 cred. in ed. including Ed.T. 55 or equiv.)	VIII-IX	W		Mrs. Fuller
Ed.C.I.143f‡	Teaching and Supervision of Reading in the Elementary School (3 cred.; jr., sr., grad.; prereq. 9 hrs. in ed. including Ed. 51A or 71A)	I-II and 1 hr. ar	S		Mr. Bond
Ed.C.I.146‡	<i>Current Developments in Language Expression in the Elementary School</i> (2 cred.; jr., sr., grad.; prereq. Ed. 61A-B-C or equiv. Not open to students who have had Ed.C.I. 64) (Not offered)				
Ed.C.I.149w‡	The Teaching and Supervision of Arithmetic in the Elementary School (2 cred.; sr., grad.; prereq. Ed. 61A-B-C or equiv.)	III-IV	S		Mr. Brueckner
Ed.C.I.150f‡	Supervision and Improvement of Instruction (3 cred.; sr., grad.; prereq. Ed. 61C or equiv.)	III	MWF		Mr. Brueckner
Ed.C.I.153w‡	Supervision and Teaching of English in the Elementary Schools (3 cred.; sr., grad.; prereq. Ed. 71C or equiv.)	I-II and 1 hr. ar	S		Mr. Archer
Ed.C.I.157f,w,s‡	Practice in Supervision (3 cred. a qtr.; sr., grad.; prereq. consent of instructor)	Ar	Ar	Ar	Mr. Brueckner

\* This course may be taken for independent study under Plan B for the Master's degree.

‡ A fee of \$1.50 per credit is charged for this course.

Ed.C.I.170A‡	<i>Curriculum and Course of Study Construction</i> (3 cred.; sr., grad.; prereq. 119 or consent of instructor) ( <i>Not offered 1948-49</i> )			
Ed.C.I.173As‡	Organizing Units of Instruction in the Elementary School (3 cred.; sr., grad.; prereq. 119 or teaching experience)	III-IV	S	Mr. Cook
Ed.C.I.181w‡	Foundation of Elementary School Methods (3 cred.; sr., grad.; prereq. 9 hrs. in ed.)	IX-X and 1 hr. ar	M	Mr. Brueckner
Ed.C.I.190‡	<i>Principles of Selection of Materials for Reading in the Elementary School</i> (2 cred.; sr., grad.; prereq. 63 or 122 or equiv.) ( <i>Not offered—ordinarily offered in alternate years</i> )			
Ed.C.I.226f,w,s‡	Seminar in Elementary School Problems	IX-X	Th UHS	Mr. Bond Mr. Brueckner, Mr. Cook, Mr. Archer
Ed.C.I.261f,w,s,*‡	Special Problems in School Supervision (3 cred.; prereq. 10 hrs. in ed. including Ed. 51A or equiv.)	Ar	Ar 220Bu	Mr. Brueckner
Ed.C.I.263s*‡	Research in Arithmetic Instruction (3 cred.; prereq. Ed.C.I. 148 or 149 or equiv.)	III-IV	S	Mr. Brueckner
Ed.C.I.264f*‡	Research in Educational Diagnosis (3 cred.; prereq. Ed.C.I. 151 or equiv.)	III-V	S 115UHS	Mr. Brueckner

SECONDARY EDUCATION

Ed.C.I.113f,w‡	High School Curriculum (3 cred.; sr., grad.; prereq. 10 hrs. in ed. including Ed. 51A-B-C)	(f)II (w)I-II and 1 hr. ar	MWF S	204NH Mr. Bossing Mr. Bossing
Ed.C.I.122s‡	Literature for Adolescents (2 cred.; jr., sr., grad.; prereq. Ed. 51C or junior-senior teaching experience)	I-II	S	Miss Smith
Ed.C.I.135s‡	Teaching of Occupations and Group Guidance (2 or 3 cred.; sr., grad.; prereq. Ed.Psy. 133 or permission of instructor)	III-IV	S	Mr. Dugan
Ed.C.I.136ft	Organization and Supervision of Distributive Education Programs (3 cred.; prereq. consent of instructor)	IX-X 1 hr. ar	Th	Mr. Meyer
Ed.C.I.137w‡	Materials and Methods in Distributive Education Programs (3 cred.; prereq. consent of instructor)	IX-X 1 hr. ar	Th	Mr. Meyer
Ed.C.I.139s‡	Co-ordination Techniques in Business Education (3 cred.; prereq. consent of instructor)	IX-X 1 hr. ar	Th	Mr. Meyer
Ed.C.I.144w‡	Teaching of Reading in Junior and Senior High Schools (3 cred.; sr., grad.; prereq. 9 hrs. in ed. including Ed. 51A)	I-II and 1 hr. ar	S	Mr. Bond
Ed.C.I.168w‡	Current Developments in the Social Studies (2 cred.; grad. only)	III-IV	S	Mr. Wesley
Ed.C.I.169w‡	Extracurricular Activities (2 cred.; prereq. 10 hrs. in ed. including Ed. 51A)	III	TTh	Mr. Bossing
Ed.C.I.170Bs‡	Curriculum and Course of Study Construction at the Secondary School Level (3 cred.; sr., grad.; prereq. 113 or 119 and 170 or consent of instructor)	I-II and 1 hr. ar	S	Mr. Bossing

\* This course may be taken for independent study under Plan B for the Master's degree.

‡ A fee of \$1.50 per credit is charged for this course.

## COLLEGE OF EDUCATION

Ed.C.I.173Bs†	Organizing Units of Instruction in the Secondary School (2 cred.; sr., grad.; prereq. 113 or consent of instructor)	III-IV and 1 hr. ar	S		Mr. Bossing
Ed.C.I.191s†	Advanced Course in the Teaching and Supervision of Secondary School Mathematics (2 cred.; prereq. Ed. 51C or permission of instructor)	I-II	S		Mr. Donovan Johnson
Ed.C.I.198‡	<i>Recent Literature in Methods and Curriculum in Secondary School English</i> (2 cred.; sr., grad.; prereq. Ed.T. 66A-B-C or equiv.) (Not offered)				
Ed.C.I.199Ef,w,s†	Internship (Cred. ar.; grad.)	Ar	Ar	Ar	Mr. Grim
Ed.C.I.201f,w,s*†	Problems in Teaching the Social Studies (3 cred. a qtr.; grad.; prereq. consent of instructor)	IX-X	T	226Bu	Mr. Wesley
Ed.C.I.204f‡	Social Studies Curriculum (2 cred.)	III-IV	S		Mr. Wesley
Ed.C.I.222f,w,s	Seminar—Current Problems in Technique of High School Instruction (With or without credit; prereq. Ed. 51B and Ed.C.I. 113)	IX-X	W	210UHS	Mr. Bossing, Mr. Johnson, Miss Smith, Mr. Wesley
Ed.C.I.225f,w,s*†	Special Problems in Supervision of Instruction in Secondary Schools (Cred. ar.)	Ar	Ar	218Bu	Mr. Boardman
Ed.C.I.238f,w,s*†	Problems in Distributive Education (3, 6, or 9 cred. a qtr.; total of 9 cred.; grad. only) Conference periods arranged	Ar	Ar	201EdH	Mr. Meyer
Ed.C.I.254‡	<i>Supervision of the Social Studies</i> (2 cred.; sr., grad.; prereq. Ed. 61A-B-C or equiv.) (Not offered in 1948-49)				
Ed.C.I.266s‡	Supervision of High School Instruction (3 cred.)	IV	MWF	Ar	Mr. Boardman
Ed.C.I.287f‡	Advanced Course in the Teaching of Science (2 cred.; sr., grad.; prereq. Ed. 51C)	III-IV	S	106UHS	Mr. Johnson
Ed.C.I.293s*†	Foundations of Secondary School Methods (3 cred.)	IX-X and 1 hr. ar	F		Mr. Johnson
Ed.C.I.294f*†	Advanced Course in Methods of Teaching English (2 cred.; prereq. Ed.T. 66A-B-C or equiv.)	III-IV	S		Miss Smith
Ed.C.I.296f,w,s*†	Special Problems in Teaching English (Cred. ar.; grad.)				
	Spring—Units of Literature	Ar(f,w) IX-X(s)	S M	Ar	Miss Smith Miss Smith

## HIGHER EDUCATION

Ed.C.I.184f‡	Supervision of Student Teaching (2 cred.; sr., grad.)	I-II	S	106UHS	Mr. Grim
Ed.C.I.228f,w,s*†	Problems of Higher Education and Teacher Training (Cred. ar.)	Ar	Ar	Ar	Mr. Peik, Mr. Cooper, Mr. Anderson, Miss Eckert
Ed.C.I.250f‡	Higher Education in the United States (3 cred.; prereq. 18 hrs. in ed. or consent of instructor)	I-II and 1 hr. ar	S	206UHS	Miss Eckert
Ed.C.I.251w‡	Curriculum Trends in American Colleges (3 cred.; prereq. 18 hrs. in ed. or consent of instructor)	I-II and 1 hr. ar	S		Miss Eckert

\* This course may be taken for independent study under Plan B for the Master's degree.

‡ A fee of \$1.50 per credit is charged for this course.



Ed.C.I.252s‡	Effective College Teaching (3 cred.; prereq. 18 hrs. in ed. or consent of instructor)	I-II and 1 hr. ar	S	Miss Eckert
Ed.C.I.285f‡	Professional Education of Teachers (2 cred.; prereq. 15 hrs. in ed.)	III-IV	S	105UHS Mr. Anderson

EDUCATIONAL ADMINISTRATION

GENERAL COURSES

Ed.Ad.124f	Public School Administration (3 cred.; sr., grad.; prereq. 10 hrs. in ed.)	I	MWF	221Bu Mr. Neale
Ed.Ad.210s*	Financial Aspects of Public School Business Administration (3 cred.; prereq. 124, 125)	I	MWF	Mr. Neale
Ed.Ad.225w*	Pupil Personnel Administration (3 cred.; sr., grad.; prereq. 124)	I	MWF	Mr. Neale
Ed.Ad.226s*	School Plant Planning and Management (3 cred.; sr., grad.; prereq. 124, 125)	I	TTh	Mr. Neale
Ed.Ad.227f*	Teachers and Employee Administration (3 cred.; sr., grad.; prereq. 124)	II	T	
		I	TTh	204NH Mr. Neale
Ed.Ad.228f,w,s*	Special Problems in Educational Administration (1 or 3 cred.; prereq. 124, 125)	II	T	
		Ar	Ar	224Bu Mr. Neale
Ed.Ad.230*	Public Relations for Schools (3 cred.; grad.) (Not offered 1947-48)			
Ed.Ad.235f,w,s	Seminar in Educational Administration	Ar	Ar	224Bu Mr. Neale

ELEMENTARY EDUCATION

Ed.Ad.115w	Organization of the Elementary School (3 cred.; jr., sr., grad.; prereq. 10 hrs. in ed.)	I-II 1 hr. ar	S	Ar
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SECONDARY EDUCATION

Ed.Ad.133f	Guidance in Secondary Schools (3 cred.; sr., grad.; prereq. 9 hrs. in ed.)	III-IV and 1 hr. ar	S Ar	Mr. Dugan
Ed.Ad.167f	Junior High School (3 cred.; sr., grad.; prereq. 10 hrs. in ed. including Ed. 51)	I-II and 1 hr. ar	S	207UHS Mr. Bossing
Ed.Ad.218f,w,s	Recent Literature in Secondary Education (Cred. ar.)	IX-X	W	209UHS Mr. Boardman, Mr. Bossing
Ed.Ad.263f	The Organization of the Secondary School (3 cred.)	IV	MWF Ar	Mr. Boardman
Ed.Ad.264w	The Administration of the Instructional Activities of the Secondary School (3 cred.)	III	MWF	Mr. Boardman
Ed.Ad.265s	The Administration of the Non-Instructional Activities of the Secondary School (3 cred.)	III	MWF	Mr. Boardman
Ed.Ad.270f,w,s*	Special Problems in Secondary Education (Cred. ar.; maximum 9 cred.)	Ar	Ar Ar	Mr. Boardman, Mr. Bossing

HIGHER EDUCATION

Ed.Ad.174w	The Junior College (3 cred.; sr., grad.; prereq. Ed.51A-B-C)	IV	MWF	Mr. Boardman
Ed.Ad.253w	Administration in Higher Education (3 cred.; prereq. consent of instructor)	I	TTh	Mr. Neale
		II	T	

\* This course may be taken for independent study under Plan B for the Master's degree.

‡ A fee of \$1.50 per credit is charged for this course.

## EDUCATIONAL PSYCHOLOGY

## GENERAL COURSES

Ed.Psy.60f	Introduction to Measurement and Statistics (2 cred.; jr., sr.; prereq. 6 cred. in psy.)	I-II	S 102F	Mr. Van Wagenen
Ed.Psy.60s	Introduction to Measurement and Statistics (3 cred.; see 60f)	II	MWF	Mr. Van Wagenen
Ed.Psy.120f,w,s	Basic Principles of Measurement (3 cred.; sr., grad.; prereq. Ed.Psy. 60 or equiv.)	VII	MWF 213NH	Mr. Cook
Ed.Psy.133f	Guidance in Secondary Schools (3 cred.; sr., grad.; prereq. 9 hrs. in ed.)	III-IV	S 301F	Mr. Dugan
Ed.Psy.140w	Instruments and Techniques of Measurement (3 cred.; sr., grad.; prereq. 120 or equiv.)	VII-VIII	TTh	Mr. Cook
Ed.Psy.141w	Group Aptitude Testing (3 cred.; sr., grad.; prereq. 120 or equiv.)	VII	MWF	Mr. Miller
Ed.Psy.142f,s	Individual Aptitude Testing (3 cred.; sr., grad.; prereq. 120 or equiv.)	VIII(f) VII(s)	MWF 202NH MWF	Mr. Bond Mr. Bond
Ed.Psy.143f	Individual Mental Testing Laboratory (2 cred.; prereq. Ed.Psy. 142)	IX-X	W Ar	Mr. Bond
Ed.Psy.150w,s	Psycho-educational Clinic (2 to 6 cred.; sr., grad.; permission of instructor; prereq. 120, 140 and 141 or 142)	V	W and ar	Mr. Bond
Ed.Psy.159f,s	Personality Adjustments in Education (3 cred.; sr., grad.; prereq. 9 hrs. in ed. and psy. including one recent course in psy.) (Spring quarter for graduate students in personnel training only)	IV(f) III(s)	MWF 145Ph MWF	Mr. Wrenn Mr. Wrenn
Ed.Psy.208w*	Methods in Educational Research (2 or 3 cred.)	VIII	MW	Mr. Johnson
		and 1 hr. ar		
Ed.Psy.216f-217w-218s	Statistical Methods in Education (3 cred. a qtr.; grad.)	II	MWF 100Pt	Mr. Johnson
Ed.Psy.220w-221s	Advanced Theory of Measurement (2 cred. a qtr.; prereq. Ed.Psy. 60 or 120 and 216 or equiv.)	IX-X	T	Mr. Van Wagenen
Ed.Psy.225w,226s*	Diagnosis and Counseling in a Student Personnel Program (3 cred.; prereq. Ed. 133 and Ed.Psy. 120 or equiv.) Winter—Diagnosis. Spring—Interviewing and Counseling.	IV	MWF	Mr. Wrenn
Ed.Psy.233f,w,s	Problems in Guidance and Personnel Work (Cred. ar.; prereq. consent of instructor (Two-hour weekly seminar) Fall—College Student Activities. Winter—College Placement. Spring—Personnel Procedures in Non-Academic Agencies.	V-VI	W 203F	Miss Edwards, Mr. Wrenn, Mr. Dugan
Ed.Psy.240f,w,s*	Problems in Measurement (2 cred. a qtr.)	Ar	Ar Ar	Mr. Johnson
Ed.Psy.243f,w,s	Problems in Statistics for Students in Education and Psychology (With or without credit. Cred. ar.)	Ar	Ar Ar	Mr. Johnson

\* This course may be taken for independent study under Plan B for the Master's degree.

Ed.Psy.253f,w,s*	Research Problems (Ar.; prereq. consult instructor) (See also Ed.Psy. 233 and Ed.Psy. 240)	Ar	Ar	Ar	Mr. Miller, Mr. Bond, Mr. Cook, Mr. Anderson, Mr. Van Wagenen
Ed.Psy.281f,w,s	Practice in Personnel Work (2-3 cred. Maximum 9 cred.; prereq. Ed.Psy. 226 or to be taken concurrently, and consent of instructor)	Ar	Ar	Ar	Miss Edwards, Mr. Wrenn, Mr. Dugan, Miss Hagenah
Ed.Psy.290f-291w	Individual Differences (3 cred. a qtr.; prereq. Ed.Psy. 60 or equiv. and permission of instructor)	III	MWF	301Psy	Mr. Miller
Ed.Psy.292s*	Recent Literature in Educational Psychology (3 cred.; prereq. permission of instructor)	III	MWF		Mr. Miller
Ed.Psy.293w*	Psychology of Learning (3 cred. a qtr.; prereq. 12 cred. in psy. and ed. psy.)	IV	TThS		Mr. Anderson
Ed.Psy.294f,s*	Recent Theory and Research in Human Learning (3 cred. Consult instructor)	IV	TThS	11F	Mr. Anderson

ELEMENTARY EDUCATION

Ed.Psy.113f-114w-115s	Psychology of Elementary School Subjects (2 cred. per qtr.; jr., sr., grad.; prereq. 10 cred. in psy. and ed.)	IX-X	W	109Psy	Mr. Van Wagenen
Ed.Psy.182	<i>Education of Handicapped Children</i> (2 cred.; jr., sr., grad.; prereq. Ed. 51A or 61A or equiv.) ( <i>Not offered</i> )				
Ed.Psy.183w	Education of Gifted Children (2 cred.; jr., sr., grad.; prereq. Ed. 51A or equiv. 61A or equiv.) ( <i>Not offered</i> )	II	TTh		Mr. Van Wagenen
Ed.Psy.184s	Education of the Slow-Learning Child (2 cred.; jr., sr., grad.; prereq. Ed. 51A or equiv.)	II	TTh		Mr. Van Wagenen

SECONDARY EDUCATION

Ed.Psy.158s	Psychology of Adolescence (3 cred.; jr., sr., grad.; prereq. Ed. 51A or equiv.)	III	MWF		Miss Edwards
Ed.Psy.182	<i>Education of Handicapped Children</i> (See above) ( <i>Not offered</i> )				
Ed.Psy.183w	Education of Gifted Children (See above)	II	TTh		Mr. Van Wagenen

HIGHER EDUCATION

Ed.Psy.252w	Student Personnel Work in College and University (3 cred.; prereq. consent of instructor)	III	MWF		Mr. Wrenn
Ed.Psy.254s	Measurement and Evaluation in Higher Education (3 cred.; 15 hrs. in ed.)	III-IV 1 hr. ar	S		Mr. Johnson

\* This course may be taken for independent study under Plan B for the Master's degree.

## HISTORY AND PHILOSOPHY OF EDUCATION

## GENERAL COURSES

H.Ed.71f,w,s	Brief Course in History of Education (5 cred.; jr., sr.; no prereq.)			
		IV	MTWThF	103NH Miss Alexander
H.Ed.73	<i>Educational Sociology</i> (3 cred.; jr., sr.; prereq. 6 cred. in psy.) ( <i>Not offered</i> )			
H.Ed.74w	Social Viewpoints in Education (3 cred.; soph., jr., sr.; no prereq.)	VII	TTh	Ar
			and 1 hr. ar	
H.Ed.76f,s	Introduction to Philosophy of Education (3 cred.; jr., sr.; no prereq. Not open to students who have taken 140)	VII	MWF	201NH Ar
H.Ed.101f	Historical Foundations of Modern Education (3 cred.; jr., sr., grad.; no prereq.)	VI	MWF	202NH Miss Alexander
H.Ed.102w	History of Modern Secondary and Higher Education (3 cred.; jr., sr., grad.; no prereq.)	VI	MWF	Miss Alexander
H.Ed.103	<i>History of Modern Elementary Education</i> (3 cred.; jr., sr., grad.; no prereq. Not open to students who have had H.Ed. 71) ( <i>Not offered in 1947-48</i> )			
H.Ed.110w	Intercultural Education (3 cred.; jr., sr., grad.; prereq. 9 cred. in ed. or consent of instructor)	I-II	S	Ar
H.Ed.140f	Philosophies of Modern Education (3 cred.; sr., grad.; no prereq.) (Not open to those who have had H.Ed. 76)	I-II(f)	S	204NH Ar
		IX-X(w)	M	
			and 1 hr. ar	
H.Ed.155s	History of Public Education in the United States (3 cred.; jr., sr.; no prereq.)	VI	MWF	Miss Alexander
H.Ed.176w	Conflicting Issues in Modern Education (2 cred.; jr., sr.; grad.; prereq. 6 hrs. in psy.)	IX-X	T	Ar
H.Ed.178f	Education and Problems of American Democracy (3 cred.; jr., sr., grad.; prereq. 6 cred. in soc. sci.)	IX-X	T	103NH Ar
			and 1 hr. ar	
H.Ed.179	<i>Critical Thinking for Teachers</i> (6 cred.; jr., sr., grad.; prereq. 6 cred. in psy.) ( <i>Not offered</i> )			
H.Ed.180f,w,s	The School and the Social Order (3 cred.; prereq. 6 cred. in soc. sci.)	VI(f,w)	TTh	211NH Ar
		VII(s)	TTh	
H.Ed.181s	Tutorial Work in Educational Sociology and Philosophy (3 cred.; jr., sr., grad.; prereq. 2 cred. from the following: 73, 74, 76, 176, 177, 178, 179, 180)	I-II	S	Ar
H.Ed.241f,w,s	Problems in the History and Philosophy of Education (Cred. ar.; prereq. permission of instructor)	Ar	Ar	226Bu Mr. Wesley 216ABu 206Bu Miss Alexander

## SECONDARY EDUCATION

H.Ed.102w	History of Modern Secondary and Higher Education (3 cred.; jr., sr., grad.; no prereq.)	VI	MWF	Miss Alexander
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## HOME ECONOMICS EDUCATION

**Note**—Courses in Home Economics are open to all students in the College of Education who have satisfied the prerequisites or by permission of the chief of the division. For program of courses see page 148.

H.E.Ed.90f	Child Training (3 cred.; soph., jr., sr.; prereq. Psy. A or Psy. 1-2 or parallel Psy. 2)	IV	MWF	203HE Mrs. Fuller
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H.E.Ed.91f,w,s††	Observation, Materials, Teaching in Home Economics (5 cred.; jr., sr.; prereq. H.E. 4, 21, 22, 41, Psy. 1-2, Ed. 51A, 51C, parallel H.E.Ed. 93 and 192; home experience**)	VIII IX and 1 hr. ar	MWF M	114HE	Miss Rose, Miss Kafka
H.E.Ed.92w,s	Teaching Problems in Home Economics (2 cred.; sr.; prereq. H.E.Ed. 91, 93, 94 or parallel, 192)	VII	TTh		Miss Rose, Miss Kafka
H.E.Ed.93, 94f,w,s*††¶	Supervised Teaching in Home Economics (6 cred.; jr., sr.; prereq. H.E. 4, 21, 22, 41, Psy. 1-2, Ed. 51A, 51C, parallel H.E.Ed. 91, 192; home experience**) Ar	Ar	Ar Ar		Miss Rose, Miss Kafka, and others
H.E.Ed.95	Field Experience for Home Demonstration Agents (6 cred.; prereq. completion of jr. yr., consent of head of Home Economics Education and director of Extension)				
H.E.Ed.192f,w,s	Evaluation in Home Economics (2 or 3 cred.; jr., sr., grad.; prereq. Ed. 51A, H.E.Ed. 91 or parallel)	VIII II(f) grad. only	TTh MWF	213HE 114HE	Mrs. Army Miss Rose
H.E.Ed.193Af,s	Home Economics Curriculum (2 or 3 cred.; sr., grad.; prereq. permission of instructor) Secondary school level	IX-X	W	114HE	Mrs. Army, Miss Rose
H.E.Ed.193Bw	Home Economics Curriculum (See above) College level	III	MWF		Mrs. Army
H.E.Ed.194Af,Bs	Adult Education in Home Economics (3 cred. a qtr.; jr., sr., grad.; prereq. H.E.Ed. 91, 93 or parallel)	II-III(f) and 2 hrs. ar { VIII(s) and III-IV	S TTh S	114HE 114HE	Ar Ar
H.E.Ed.197‡	Organization and Methods for Related Art Teaching (1 to 3 cred.; sr.; prereq. H.E.Ed. 91; H.E. 180 or parallel) (Not offered in 1947-48)				
H.E.Ed.199Ef,w,s†	Internship (Cred. ar.; grad.)	Ar	Ar Ar		Miss Rose
H.E.Ed.243f,w,s	Trends in Home Economics (3 cred.; prereq. permission of instructor)	III-IV	S	114HE	Miss Rose
H.E.Ed.292s*	Problems in Evaluation (3 cred.; prereq. consent of instructor)	VI	MWF		Mrs. Army
H.E.Ed.293f,w,s*	Problems in Home Economics Education (1 to 9 cred.; prereq. H.E.Ed. 294 recommended, permission of instructor)	Ar	Ar Ar		Mrs. Army, Miss Rose
H.E.Ed.294f,w,s*	Research Methods (3 to 6 cred.; prereq. H.E.Ed. 192 and permission of instructor)	VI	MWF	203HE	Mrs. Army, Miss Rose
H.E.Ed.295f,w,s*	Seminar in Home Economics Education (1-3 cred.)	IX	Th	114HE	Mrs. Army, Miss Rose

\* Students must sign up in the Office of Admissions and Records at the University Farm at least two quarters prior to registration in this course.

† A fee of \$1.50 per credit is charged for this course.

‡ A C+ average (1.5 honor points per credit) in the major is prerequisite to registration in this course.

¶ A grade of at least C is required in the following courses: H.E. 3, 4, 21, 22, 27, 34, or (170), 40, 41.

\*\* Plans for the home experience prerequisite for H.E.Ed. 91 and 93 will be made in conferences for first quarter juniors on Tuesdays IV hour, in Room 114HE.

## INDUSTRIAL EDUCATION

Ind.1w‡	Basic Woodwork (3 cred.; no prereq.)			
	VII-VIII-IX	TTh		Mr. Nelson
Ind.5f‡	Basic Drawing (3 cred.; no prereq.)			
	VII-VIII-IX	TTh	Ar	Mr. Nelson
Ind.10s‡	Basic Electricity (3 cred.; no prereq.)			
	VIII-IX-X	TTh		Mr. Nelson
Ind.11f,w,s‡¶	Special-Class Woodwork (2 cred.; no prereq.) (Limited to 24)		S Ar	Mr. La Berge
Ind.30f	Graphic Presentation (3 cred.; no prereq.)			
	I-IV		S	Mr. Smith
	I-II and 1 hr. ar			
Ind.40f	Analysis (2 cred.; no prereq.)			
	IX-X	W	Ar	Mr. Micheels
Ind.42w	Course Organization (2 cred.; prereq. Ind. 40)			
	IX-X	W	Ar	Mr. Micheels
Ind.44s	Equipment and Management (2 cred.; prereq. 40, 42)			
	IX-X	M	Ar	Mr. Widdowson
Ind.50Af-50Bw- 50Cs‡¶	Directed Teaching (6 cred.; prereq. Ed. 51A-B-C, Ind. 70 or 75, and 80)			
	Ar	Ar	Ar	Mr. Nelson
Ind.60f	Philosophy of Vocational Education (2 cred.; no prereq.)			
	IX-X	M		Mr. Widdowson
Ind.61w	Practices in Vocational Education (2 cred.; prereq. Ind. 60)			
	IX-X	M	Ar	Mr. Widdowson
Ind.66w	Related Subjects (2 cred.; prereq. Ind. 40, 42)			
	IX-X	T	Ar	Mr. Widdowson
Ind.70w‡	Methods in Shop Subjects (3 cred.; prereq. Ind. 40, 42)			
	VII	MWF	Ar	Mr. Micheels
Ind.75f‡	Methods in Drawing (2 cred.; prereq. Ind. 40, 42)			
	VII-VIII	M	Ar	Mr. Micheels
Ind.80f	General Industrial Training (2 cred.; no prereq.) (Not a shop course)			
	VII-VIII	F	Ar	Mr. Micheels
Ind.100f¶	Industrial Instruction (3 cred.; grad. only; not open to those who have had Ind. 70)			
	IV	MWF		Mr. Smith
Ind.101s	Tests in Industrial Subjects (3 cred.; prereq. Ed. 51A)			
	II	MWF	Ar	Mr. Micheels
Ind.102w¶	The General Shop (2 cred.; jr., sr.; prereq. Ind. 80) (Not a shop course)			
	I-II	S	Ar	Mr. Micheels
Ind.103f¶	Instructional Aids (3 cred.; jr., sr., grad.; others with consent of instructor)			
	III	MWF	Ar	Mr. Micheels
Ind.105s¶	Administration of Industrial Education (3 cred.; jr., sr., grad.)			
	VIII	MWF	Ar	Mr. Smith
Ind.107f¶	Coordination (2 cred.; jr., sr., grad.; prereq. Ind. 60, 61, or 105, or consent of instructor)			
	III-IV	S	Ar	Mr. Widdowson
Ind.108w¶	Apprenticeship (2 cred.; jr., sr., grad.; prereq. consent of instructor)			
	III-IV	S	Ar	Mr. Widdowson
Ind.109s¶	Conference Leading for Industry (2 cred.; prereq. consent of instructor)			
	IX-X	T	Ar	Mr. Widdowson
Ind.110w	Guidance in the Schools (3 cred.; jr., sr., grad.; prereq. Ed. 51A. See Ed.Psy. 133)			
	II	MWF	Ar	Mr. Smith
Ind.115s¶	Supervision of Industrial Education (3 cred.; jr., sr., grad.; prereq. Ind. 60, 61 or 105)			
	III-IV	S and	Ar	Mr. Micheels
		1 hr. ar		

‡ A fee of \$1.50 per credit is charged for this course.

§ A C+ average (1.5 honor points per credit) in the major is prerequisite to registration in this course. Industrial education and shop courses constitute the major.

¶ Not a part of the four-year curriculum.

Ind.125s¶	Philosophy and Practice of Industrial Education (3 cred.; jr., sr., grad.; others with consent of instructor)	III	MWF Ar	Mr. Smith
Ind.135s¶	Industrial Course Construction (3 cred.)	VI	MWF Ar	Mr. Micheels
Ind.170w¶	Day Industrial Schools (2 cred.; jr., sr., grad.)	IX-X	Th	Mr. Micheels
Ind.171¶	Evening Industrial Schools (2 cred.; prereq. Ind. 170) ( <i>Not offered</i> )			
Ind.172w¶	Part-time Education (3 cred.; prereq. Ind. 170, 171, others with consent of instructor)			
Ind.200f,w,s*¶	Research Problems (3, 6, or 9 cred. a qtr.; total of 9 cred. required; grad. only) Conference periods as follows and by arrangement:	IV	MWF	Mr. Smith
		II(f)	MWF Ar	Mr. Smith and
		III(w)	MWF	Mr. Micheels
		VII(s)	MWF	
Ind.250f-251w¶	Industrial Education Literature (3 cred. a qtr.; 6 cred. required; grad. only)	IX	MWF 101NH	Mr. Smith

Off-Campus Courses and Services—Mr. Widdowson.

Dunwoody Shop and Drawing Course—arranged. (Special blank must be used.)

#### METHODS AND DIRECTED TEACHING

**Time required**—Students registered for directed teaching spend at least one hour a day in observation and teaching. They should get their teaching assignment before completing their registration for other classes. They should count on spending a minimum of 12 hours a week in all directed teaching courses.

**Honor point average**—For registration in all special methods and directed teaching courses, a C+ average (1.5 honor points) per credit in the major or in the subject in which student teaching is done, is required.

**Conference for student teachers**—The director of student teaching may arrange conferences which are a part of the required work in directed teaching. The hours at which these conferences are to be held will be announced early each quarter.

**Statement of fees**—For all courses in methods, directed teaching, and special methods and directed teaching combined, a fee of \$1.50 per credit is charged. Taking the speech and psychological examinations given by the College of Education and a C+ average (1.5 honor points per credit) in the major or the subject in which student teaching is done are prerequisite to all special methods and student teaching courses. For Clinical Methods in Lip-reading and Practice in Speech Pathology see Ed.C.I. 174-175-176. For methods and directed teaching in special subjects see department concerned.

\* This course may be taken for independent study under Plan B for the M.A. degree or under Plan Y for the M.Ed. degree.

¶ Not a part of the four-year curriculum.

## COLLEGE OF EDUCATION

## NURSING EDUCATION

Ed.T.51Af,w,§§	Special Methods of Directed Teaching in Schools of Nursing (4 cred.; sr., grad.; prereq. Ed. 51A; prereq. or parallel 51B, and Nu.Ed. 69)	VI	MWF	Ar*	Miss Harrington, Miss Boyle
				and 1 hr. ar	
Ed.T.51Bf,w,s,§§	Special Methods of Directed Teaching in Schools of Nursing (4 cred.; sr., grad.; prereq. Ed.T. 51A; prereq. or parallel Nu.Ed. 71)	III	MWF	Ar*	Miss Harrington, Miss Boyle
				and 1 hr. ar	

## RECREATION LEADERSHIP

Ed.T.84Af-84Bw- 84Cs‡§	Practice and Field Work in Recreation (6 cred.; jr.)	Ar	Ar	Ar	Ar
Ed.T.85Af-85Bw- 85Cs‡§	Practice and Field Work in Recreation Leadership (3 cred. for minors, 6 cred. for majors; sr.; prereq. Phys.Ed. 57, 136, or permission of instructor)	Ar	Ar	Ar	Mr. Haislet

## SCHOOL HEALTH

Ed.T.83w‡	Methods and Materials of School Health Education (3 cred.; sr.; prereq. P.H. 3, 4, 59)	III	MWF	201NGW	Miss Starr
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## ELEMENTARY EDUCATION

Ed.T.53A-53Bf,w,s,‡	Directed Teaching of Handicapped Children (5-8 cred.; sr.)	Ar	Ar	Ar	Mr. Bond
Ed.T.54A-54B-54C‡§	Directed Teaching in the Elementary School (54A, 3 cred.; 54B, 5 cred.; 54C, 3 to 5 cred.; sr.; prereq. Ed. 71A-B-C) (Students may register any quarter; 54A and 54B are required; 54C is elective)	Ar	Ar	Ar	Mr. Staudenmaier
Ed.T.55f‡	Principles of Early Childhood Education (3 cred.; jr., sr.; prereq. C.W. 80 or simultaneously)	VII	MWF	202Pt	Mrs. Fuller
Ed.T.56f‡	Methods and Observation in Nursery School and Kindergarten (5 cred.; jr.; prereq. Psy. 1-2, Ed.T. 55 concurrently)	VIII	MTWThF	202Pt	Miss Headley, Miss Peterson
				and ar	
Ed.T.57w‡	Nursery School—Kindergarten Laboratory in Art, Literature, and Social Studies (5 cred.; jr.; prereq. Ed.T. 55, 56)	VIII	MTWThF		Miss Headley
Ed.T.58s‡	Nursery School—Kindergarten Laboratory in Permanent Play Materials, Music, and Science (5 cred.; jr.; prereq. Ed.T. 55, 56, 57)	VIII	MTWThF		Miss Peterson
Ed.T.70w‡	The Teacher and the Parent (3 cred.; sr.; prereq. Ed.T. 55, 56, 57, 58)	V	TTh	and obs. ar	Mrs. Cummings
Ed.T.77Af,w,s,‡§	Directed Teaching in the Nursery School (4 cred.; prereq. Ed.T. 55, 56, 57, 58; for H.Ec. students 55, 57, 58; for Nu.Ed. students 55-56, and 57 or 58)	IX	M	202Pt	Mrs. Fuller
				and 15 hrs. ar	

\* Room schedule will be posted on the bulletin board 125 Medical Sciences at the beginning of each quarter.

‡ A fee of \$1.50 per credit is charged for this course.

§ Taking the speech and psychological examinations and a C+ average (1.5 honor points per credit) in the major or the subject in which student teaching is done are prerequisite to registration in this course.

¶ Requirements for registration in Ed.T. 51A-B are as follows:

1. A passing grade in Ed. 51A and B.
2. Taking the psychological examinations.
3. Attainment of a scholastic average of 1.5 in the field in which the practice teaching is to be done. A major portion of the work in the teaching field should be completed.
4. The recommendation of the subject-matter department in the major field.
5. Passing the required speech test.



Ed.T.77Bf,w,s†‡	Directed Teaching in the Primary Grades (4 cred.; sr.; prereq. Ed.T. 55, 56, 57, 58) IX M 202Pt Mrs. Fuller and 15 hrs. ar
Ed.T.77Cf,w,s†	Directed Teaching in the Kindergarten (4 cred.; sr.; prereq. Ed.T. 55, 56, 57, 58) IX M 202Pt Mrs. Fuller and 15 hrs. ar

SECONDARY EDUCATION

Ed.T.52f,w,s†‡	Directed Teaching (5 cred.; sr., prereq. Special Methods Course. This course, 5 cred., and Special Methods, 4 cred., satisfy the 9 cred. requirement of Special Methods and student teaching in a secondary school teaching major) Ar Ar Ar
Ed.T.66Bf-66Aw-66Cs†‡‡	Special Methods and Directed Teaching in Secondary School English (9 cred.; sr.; prereq. consent of instructor) VIII TTh(f,w) 106NH Miss Smith and 6 hrs. ar
Ed.T.66Amw†‡	The Teaching of Composition in Secondary Schools (2 cred.; sr.) VIII(f) TTh Miss Smith
Ed.T.66Bmf†‡	The Teaching of Literature in Secondary Schools (2 cred.; sr.) VIII TTh Miss Smith
Ed.T.66Bs†‡	The Teaching of Literature in Secondary Schools (2 cred.; sr.) VI-VII T Miss Smith
Ed.T.67Af-67Bw-67Cs†‡‡	Special Methods and Directed Teaching in Mathematics (9 cred.; sr.; prereq. Math. 50 or 60) VIII TTh 211UHS Mr. Donovan and 6 hrs. ar Johnson
Ed.T.67Amf-67Bmw†‡‡	The Teaching of Secondary School Mathematics (4 cred.; sr.; prereq. consent of instructor) VIII TTh 211UHS Mr. Donovan Johnson
Ed.T.68Af-68Bw-68Cs†‡‡	Special methods and Directed Teaching in Secondary School Science (9 cred.; sr.; prereq. consent of instructor) IX MW 213UHS Mr. Palmer and 6 hrs. ar Johnson
Ed.T.68Amf-68Bmw†‡‡	Methods of Teaching Secondary School Science (4 cred.; sr.; prereq. consent of instructor) IX MW 213UHS Mr. Palmer Johnson
Ed.T.69Af-69Bw-69Cs†‡‡	Special Methods and Directed Teaching in the Social Studies (9 cred.; sr.; predeq. 30 cred. in hist. or soc. sci. Consult instructor) VIII MW 100Pt Mr. Wesley and 6 hrs. ar
Ed.T.69Amf-69Bmw†‡‡	Methods of Teaching the Social Studies (For students with a major in the social studies) (4 cred.; sr.; prereq. consent of instructor) VIII MW 100Pt Mr. Wesley
Ed.T.70Af-70Bw-70Cs†‡‡	Special Methods and Directed Teaching in Modern Languages (9 cred.; sr.; prereq. consent of instructor) IX MW 106UHS Miss Birkmaier and 6 hrs. ar

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ A fee of \$1.50 per credit is charged for this course.

‡‡ Taking the speech and psychological examinations and a C+ average (1.5 honor points per credit) in the major or the subject in which student teaching is done are prerequisite to registration in this course.

## COLLEGE OF EDUCATION

Ed.T.71Af-71Bw- 71Cs††§	Special Methods and Directed Teaching in Latin (9 cred.; jr., sr.; prereq. 73 and any two of Latin courses numbered between 50 and 100)	IX and 6 hrs. ar	MW 109UHS	Ar
Ed.T.73Af-73Bw- 73Cs††§	Directed Teaching in Business Subjects (6 cred.; sr.; prereq. consent of instructor)	VIII and 6 hrs. ar	MW 105UHS	Ar
Ed.T.74w†§	Teachers' Course in Journalism (3 cred.; jr., sr.; prereq. Jour. 41 or 51)	VII	MWF	Mr. Kildow
Ed.T.80f	Methods of Teaching Typewriting (2 cred.; sr.; prereq. consent of instructor)	IX	MW 110UHS	Mrs. Odland
Ed.T.81w	Methods of Teaching Shorthand (2 cred.; sr.; prereq. consent of instructor)	IX	MW 110UHS	Mrs. Odland
Ed.T.82s	Methods of Teaching Bookkeeping and General Business Subjects (2 cred.; sr.; prereq. consent of instructor)	IX	MW 110UHS	Mrs. Odland
Ed.T.88Af-88Bw- 88Cs††§	Special Methods and Directed Teaching in Speech (9 cred.; prereq. 30 cred. in prereq. consent of instructor)	IX-X(f) VIII(f,w) VIII(s) and 6 hrs. ar	M 110UHS TTh	Mr. Brink Miss Smith Mr. Brink

## MUSIC EDUCATION

Mu.Ed.4f-5w-6s†	Applied Instrumental Technique (6 cred.; soph.; no prereq.)	I(f) III(w,s)	MTWF 4NMA MTWF	Mr. Ivory Mr. Prescott
Mu.Ed.50Af††	Primary Methods (2 cred.; jr.; no prereq.) Sec. 1 (For Mu.Ed. majors)	III	TTh 4Mu	Mr. Winslow
	2 (For nonmajors)	II	TTh 4Mu	Mr. Winslow
Mu.Ed.50Bw†	Intermediate Methods (2 cred.; prereq. Mu.Ed. 50A)	III	TTh	Mr. Winslow
Mu.Ed.53s†	High School Methods (3 cred.; jr.; prereq. Ed. 51C and Mu.Ed. 50A,B)	III	MWF	Mr. Winslow
Mu.Ed.59w†**	Choral Literature and Conducting (2 cred. for seniors; 1 cred. for fr., soph., jr.)	V	TTh	Mr. Winslow
Mu.Ed.60f-61w- 62s††§	Supervision and Teaching (9 cred.; sr.; prereq. Ed. 51A,B,C and Mu.Ed. 50A,B, 53 and a C+ average in the major)	IX-X and 6 hrs. ar	W 4Mu	Mr. Winslow
Mu.Ed.63w†	Band Conducting (2 cred.; jr., sr.; prereq. 4-5-6)	VI	TTh	Mr. Prescott
Mu.Ed.64s†	Band Organization (3 cred.; sr.; prereq. 4-5-6)	VI	MWF	Mr. Prescott
Mu.Ed.65f,w,s†	Instrumentation (3 cred.; jr.; prereq. Mu. 6T)	II	TThS 4Mu	Ar

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ A fee of \$1.50 per credit is charged for this course.

§ Taking the speech and psychological examinations and a C+ average (1.5 honor points per credit) in the major or the subject in which student teaching is done are prerequisite to registration in this course.

¶ In case of conflict students may register for another section with the approval of the instructor.

\*\* Four credits are required in Mu.Ed. 59. This course should be repeated until all four credits are earned.

Mu.Ed.68s	Conducting of Instrumental Music and Survey of Materials (4 cred.; sr.; prereq. Mu.Ed. 65)	I-II	MWF	Ar
Mu.Ed.103Ef	Psychological Foundations of Music Education (3 cred.; sr., grad.; prereq. permission of instructor)	IV	MWF 4Mu	Mr. Winslow
Mu.Ed.104Ew	Advanced Topics in Vocal Music Education (3 cred.; prereq. consent of instructor)	IV	MWF	Mr. Winslow
Mu.Ed.105Es	Advanced Topics in Instrumental Music Education (3 cred.; prereq. consent of instructor)	IV	MWF	Mr. Ivory
Mu.Ed.150	<i>Advanced Course in the Teaching of Elementary School Music</i> (2 cred.; prereq. Mu.Ed. 50A,B or equiv. and consent of instructor) ( <i>Not offered</i> )			
Mu.Ed.153	<i>Advanced Course in Secondary School Music</i> (3 cred.; prereq. consent of instructor) ( <i>Not offered in 1947-48</i> )			
Mu.Ed.224Ef,w,s	Seminar and Individual Research Problems in Music Education (2 to 6 cred.)	Ar	Ar Ar	Mr. Winslow and others
Mu.Ed.225Ef,w,s††	Advanced Applied Music (2 to 4 cred.; prereq. entrance exam.)	Ar	Ar Ar	Ar

## NURSING EDUCATION

Nu.Ed.28w,s	Observations in Psychiatric Nursing (3 cred.; open only to special group of students detailed from Veterans Administration hospitals)	Ar	Ar Ar*	Ar
Nu.Ed.29Aw,Bs	Advanced Psychiatric Nursing (12 cred.; graduate nurse; prereq. permission of instructor)	Ar	Ar Ar*	Ar
Nu.Ed.33Aw,Bs	Advanced Medical Nursing (12 cred.; graduate nurse; prereq. permission of instructor)	Ar	Ar Ar*	Ar
Nu.Ed.34Aw,Bs	Advanced Obstetrical Nursing (12 cred.; graduate nurse; prereq. permission of instructor)	Ar	Ar Ar*	Ar
Nu.Ed.37Aw,Bs	Advanced Pediatric and Communicable Disease Nursing (12 cred.; graduate nurse; prereq. permission of instructor)	Ar	Ar Ar*	Ar
Nu.Ed.40Aw,Bs	Advanced Operating Room Nursing (12 cred.; graduate nurse; prereq. permission of instructor)	Ar	Ar Ar*	Miss Weise
Nu.Ed.46Aw,Bs	Advanced Rural Nursing (24 cred.; graduate nurse; prereq. permission of instructor)	Ar	Ar Ar*	Ar
Nu.Ed.47Aw,Bs	Advanced Tuberculosis Nursing (21 cred.; graduate nurse; prereq. permission of instructor)	Ar	Ar Ar*	Ar
Nu.Ed.52Aw,Bs	Advanced Surgical Nursing (12 cred.; graduate nurse; prereq. permission of instructor)	Ar	Ar Ar*	Ar
Nu.Ed.57Aw,Bs	Field Practice in Psychiatric Nursing (22 cred.; graduate nurse; prereq. permission of instructor)	Ar	Ar Ar*	Ar
Nu.Ed.59f,w	Principles of Psychiatric Nursing (5 cred.; graduate nurse; prereq. permission of instructor)	Ar	Ar Ar*	Ar
Nu.Ed.60f,w,s	Ward Administration (4 cred.; sr. or grad. nurse; no prereq.)	VII(f) V(w,s)	MTWF MWThF	Ar*
Nu.Ed.61Aw,Bs	Advanced Pediatric Nursing (12 cred.; graduate nurse; prereq. permission of instructor)	Ar	Ar Ar*	Ar

†† One individual lesson per week, 2 credits, \$30; two individual lessons per week, 4 credits, \$60.

## COLLEGE OF EDUCATION

Nu.Ed.63f	Motion Study (2 cred.; sr. or grad. nurse; no prereq.) VI, VII, VIII Th 202ME	Mr. Laitala
Nu.Ed.65w,s	Analysis of Nursing Care (4 cred.; sr. or grad. nurse; prereq. permission of instructor) VII, VIII TTh Ar*	Miss Harrington Miss Kitchell and others
Nu.Ed.66f	Introduction to Advanced Clinical Nursing (5 cred.; graduate nurse; prereq. permission of instructor) VI MWThF Ar* and 1 hr. ar	Mrs. Coe
Nu.Ed.66Af	Introduction to Advanced Clinical Nursing (3 cred.; for students enrolled in certificate curriculum in advanced rural nursing) VI MWTh Ar*	Mrs. Coe
Nu.Ed.67f,s	Field Practice in Ward Administration (6 cred.; sr., grad.; prereq. Nu.Ed. 60, 65, 73, Ed.T. 51B and permission of instructor) IV and ar F Ar*	Mrs. Randall
Nu.Ed.68s	Construction and Use of Examinations and Other Measurements in Basic Nursing Courses (3 cred.; sr. or grad. nurse; no prereq.) IV MWF Ar*	Miss Gordon
Nu.Ed.69f,s	Survey of Conditions and Trends in Nursing (3 cred.; sr., grad.; no prereq.) IV MWF Ar*	Miss Densford
Nu.Ed.71f,s	The Curriculum of the School of Nursing (3 cred.; sr., grad.; prereq. Ed. 51A-B and Nu. 69) VI(f) TTh Ar* and 1 hr. ar VI(s) MW and 1 hr. ar	Miss Harrington
Nu.Ed.72f,w,s	Principles of Learning and Methods of Teaching in Schools of Nursing (3 cred.; grad. nurse; no prereq.) VIII TTh Ar* IX Th	Miss Boyle
Nu.Ed.73w	Principles of Economics in Nursing Service Administration (1 cred.; sr., grad.; no prereq.) V T Ar*	Miss Gorgas
Nu.Ed.162w	Personnel Work in Schools of Nursing (3 cred.; sr. or grad. nurse; no prereq.) I MWF Ar*	Miss Gordon

## PHYSICAL EDUCATION FOR MEN

For the program in Physical Education open to all men students in the University, see page 12.

COURSES IN MAJOR AND MINOR CURRICULA IN  
PHYSICAL EDUCATION FOR MEN

Phys.Ed.4Bf-4Aw-4Cs	Fundamentals of Athletic Sports (1 cred. per qtr.; all; no prereq.) VII-VIII TTh 215CH	Mr. MacMillan, Mr. Kelly, Mr. Svendsen
Phys.Ed.5Af-5Cs	Physical Education Activities (1 cred. per qtr.; all; no prereq.) III-IV TTh CHGym	Mr. Ostrander, Mr. Chisholm, Mr. Mohr
Phys.Ed.5Bf,w	Apparatus Gymnastics (1 cred.; all; no prereq.) III MWF CHGym	Mr. Ostrander
Phys.Ed.6Af	Soccer, Speedball, Touchball (1 cred.; all; no prereq.) VI MWF 205CH	Mr. Roning, Mr. Mohr

\* Room schedule will be posted on the bulletin board 125 Medical Sciences at the beginning of each quarter.

Phys.Ed.6Bw	Hockey, Handball, Squash Rackets (1 cred.; all; no prereq.) III-IV TTh	Mr. Roning, Mr. Svendsen, Mr. Romnes
Phys.Ed.6Cf,w,s	Aquatics (1 cred.; prereq. ability to swim 100 yards) IV(f) MWF 215CH IV(w) MWF 215CH V(s) MWF 215CH	Mr. Thorpe, Mr. Ostrander
Phys.Ed.7Af-Bw-Cs	Recreational Games and Sports (1 cred. per qtr.; all; no prereq.) II-III TTh CHGym	Mr. Piper, Mr. Bartelma, Mr. Ostrander, Mr. Chisholm
Phys.Ed.8s	Tennis and Golf (1 cred.; all; no prereq.) VI MWF	Mr. Brain, Mr. Bolstad
Phys.Ed.9Aw-Bs	Rhythms (1 cred. per qtr.; jr., sr.) V T VI TTh	Mr. Piper, Miss Bell
Phys.Ed.32s	Introduction to Physical Education (3 cred.; no prereq.) I MWF	Mr. Bartelma
Phys.Ed.51f	Mechanics of Movement (3 cred.; jr.; prereq. anatomy) II MWF 206CH	Mr. Osell
Phys.Ed.55f,w‡	Methods and Materials in Physical Education (4 cred.; jr.; prereq. 5A-B-C, 6A-B-C, 7A-B-C) Lect. III MWF 215CH Lab. 3 hr. ar	Mr. Bartelma
Phys.Ed.56	<i>Nature and Function of Play</i> (2 cred.; jr., sr.; prereq. Psy. 1-2, or equiv.) (Not offered in 1947-48)	
Phys.Ed.57	<i>Operation and Conduct of Play Centers</i> (3 cred.; jr., sr.; prereq. Phys.Ed. 56 or permission of instructor) (Not offered in 1947-48)	
Phys.Ed.59s	Instructor's Course in First Aid (2 cred.; jr., sr.; prereq. 25 or equiv.) I MWF	Mr. Osell
Phys.Ed.60s	Prevention and Care of Injuries (3 cred.; jr., sr.; prereq. 51, Anat. 57) III TThS	Mr. Stein
Phys.Ed.61f	History of Physical Education (3 cred.; sr.) I MWF 206CH	Mr. Keller
Phys.Ed.63s	Organization and Administration of Physical Education (3 cred.; sr.; prereq. 32 or 101, 55) III MWF	Mr. Piper
Phys.Ed.65w	Adapted Physical Education (3 cred.; jr., sr.; prereq. Phys.Ed. 51, Anat. 57) II MWF	Mr. Osell
Phys.Ed.66f	Officiating Football and Basketball (2 cred.; jr., sr.; prereq. 4A-B) VII TTh 214CH	Mr. Nordly
Phys.Ed.67s	Football Coaching (2 cred.; sr.; prereq. 4A and one-year experience on football squad) II TThS	Mr. Bierman
Phys.Ed.68f	Basketball Coaching (2 cred.; sr.; prereq. 4B) VI MWF 214CH	Mr. MacMillan
Phys.Ed.69s	Track Coaching (2 cred.; sr.; prereq. 4C) VI TTh	Mr. Kelly
Phys.Ed.72w	Baseball Coaching (2 cred.; sr.; prereq. baseball experience and permission of instructor) VI MWF	Mr. MacMillan
Phys.Ed.73f‡-74w‡-75s‡¶	Directed Teaching (6 cred.; sr.; prereq. 4A-B-C, 5A-B-C, 6A-B-C, 7A-B-C, 53-54-55) V and 5 hrs. ar VII MW	Mr. Bartelma
Phys.Ed.78w	Scout Leadership (2 cred.; no prereq.) VII MW	Mr. Osell

‡ A fee of \$1.50 per credit is charged for this course.

Phys.Ed.79s	Camp Leadership (2 cred.; no prereq.)	VII	MW	Mr. Osell
Phys.Ed.101w	Principles of Physical Education (3 cred.; sr., grad.; prereq. 53-54-55)	I	MWF	Mr. Keller
Phys.Ed.103s	Physical Examination (3 cred.; sr., grad.; prereq. 51, Anat. 57, Phys.Hyg. 91, 92, or equiv.)	VI	MWF	Dr. Hauser, Mr. Osell
Phys.Ed.135s	Tests and Measurements in Physical Education (3 cred.; sr., grad.; prereq. 10 hrs. in phys.ed. and Ed.Psy. 60 or equiv.)	I	MWF	Mr. Keller
Phys.Ed.233w	Special Administrative Problems in Physical Education in Secondary Schools (3 cred.; grad.; prereq. 63 or equiv.)	II	MWF	Mr. Nordly
Phys.Ed.234s	The Secondary School and College Curriculum in Physical Education (3 cred.; sr., grad.; prereq. 63, 101 or equiv.)	II	MWF	Mr. Nordly
Phys.Ed.236f	Recent Literature and Research in Health Education, Physical Education and Recreation (3 cred.; grad.; permission of instructor)	II	MWF 214CH	Mr. Nordly
Phys.Ed.238f	Administration of Physical Education in Colleges and Universities (3 cred.; grad.; prereq. 63 or 233 or equiv.)	III	MWF 206CH	Mr. Keller
Phys.Ed.250s	Administration of Health Education, Physical Education, and Recreation (3 cred.) For graduate students not majoring in physical education. Primarily for school administrators.	IV	MWF	Mr. Nordly
Phys.Ed.261f,w,s	Seminar in Contemporary Problems in Physical Education and Recreation (Cred. ar.)	Ar	Ar	Mr. Nordly Mr. Haislet

## COURSES IN MAJOR AND MINOR CURRICULA IN RECREATIONAL LEADERSHIP

Phys.Ed.11Af-11Bw- 11Cs	Survey of Recreation Activities (1 cred. per qtr.; fr.; recreation majors and minors only)	V	M 206CH	Mr. Fitzgerald
Phys.Ed.23Af-23Bw- 23Cs	Introduction to Recreational Leadership (1 cred. per qtr.; soph.; prereq. 11A-B-C)	V	F 206CH	Mr. Fitzgerald
Phys.Ed.56f-57w- 58s	Introduction to Community Recreation. (3 cred. per qtr.; no prereq.)	VII	MWF 206CH	Mr. Fitzgerald
Phys.Ed.64Aw-Bs	Leadership in Nature Recreation. (2 cred. per qtr.; jr.; prereq. 15 cred. in nat. sci.)	IX-X	F	Mr. Thompson
Phys.Ed.110Ef- 111Ew-112Es§	Community Recreation Planning, Management and Supervision (8 cred.; sr., grad.; prereq. 56-57-58)	VI	MWF 215CH	Mr. Fitzgerald
Phys.Ed.116Es§	Community Recreation Resources and Organization (3 cred.; sr., grad.; prereq. 110-111)	IV	MWF	Mr. Fitzgerald
Phys.Ed.199E f,w,s†‡	Internship in Recreational Leadership (Cred. ar.)	Ar	Ar Ar	Ar

† A fee of \$1.50 per credit is charged for this course.

‡ Taking the speech and psychological examination and a C+ average (1.5 honor points per credit) in the major are prerequisite to registration in this course.

§ The designation "E" after a course number over 100 signifies that the course is of graduate level in the College of Education but does not carry credit for Plans A and B in the Graduate School.

Phys.Ed.241w	Administration and Supervision of Public Recreation (3 cred.; grad.; prereq. permission of instructor)	II	TThS	Mr. Fitzgerald
Phys.Ed.242s	Group Leadership in Community Recreation (3 cred.; grad.; prereq. permission of instructor)	II	TThS	Mr. Fitzgerald
Phys.Ed.261f,w,s	Seminar in Contemporary Problems in Recreation and Physical Education (Cred. ar.)	Ar	Ar Ar	Mr. Haislet, Mr. Nordly

PHYSICAL EDUCATION FOR WOMEN

COURSES IN MAJOR, MINOR, AND GRADUATE CURRICULA IN  
PHYSICAL EDUCATION FOR WOMEN

Open only to students in the College of Education except by permission of instructor.

**Statement of fees**—A fee of \$1.75 per quarter is charged for each section of Phys.Ed. 21A-B-C and Phys.Ed. 41A-B-C; maximum fee per student \$3.50 per quarter. For methods and directed teaching courses a fee of \$1.50 per credit is charged as indicated in the footnotes. The maximum fee per quarter does not apply to the methods and directed teaching courses.

**For program in physical education open to all women students in the University, see page 13.**

Phys.Ed.21Af-Bw-  
Cs\*‡

Elementary Physical Education (6 cred.; no prereq.)				
Sec. 1 (fall) Individual Sports: Badminton				
	VII	TTh	153NGW	Ar
2 (fall) Team Sports: Fieldball, Soccer, and Speedball	VIII	TTh	60NGW	Ar
3 (fall) Fundamentals of Rhythm	VI	TTh	151NGW	Ar
4 (fall) Orientation	IV	T		
	VI	W	3NGW	Ar
5 (winter) Winter Sports	VIII-IX	T-Th	Ar	Ar
6 (winter) Teamsports: Advanced Basketball	VII	TTh	60NGW	
7 (winter) Folk Dancing for Elementary and Secondary Schools	VI	TTh	151NGW	Ar
8 (winter) Posture and Daily Life Skills	I	TTh	153aNGW	Ar
9 (spring) Individual Sports: Tennis	III	MW	60NGW	Ar
	IV	T		
10 (spring) Individual Sports: Golf	VII	TTh		Ar
11 (spring) Aquatics	VIII	TTh		Ar
12 (spring) Ballroom and Country Dance	VI	TTh		Ar
Phys.Ed.25f,w	First Aid (1 cred.; no prereq.)			
	I (fall)	TTh	201NGW	Ar
	II (winter)	MW		Ar

\* Students must pay 50 cents for tennis permit and supply own golf equipment.  
‡ A fee of \$1.75 per section is charged for this course.

Phys.Ed.41Af-Bw-  
Cs\*†Intermediate Physical Education (9 cred., each section carries ½ cred. except  
15 which carries 1 cred.; prereq. 21A-B-C)

	Sec. 1 (fall) Officiating of Team Sports: Field Hockey, Soccer, and Speedball	VI	TTh	60NGW	Ar
	2 (fall) Officiating Team Sports: Volleyball	VII	TTh	60NGW	Ar
	3 (fall) Recreational Laboratory	IV	T	Ar	Ar
		and 1 hr. ar			
	4 (fall) Aquatics	III	TTh	58NGW	Ar
	5 (fall) Elementary Modern Dance	III	MW	151NGW	Ar
	6 (fall) Tumbling and Stunts	I	TTh	153NGW	Ar
	7 (fall) Gymnastics	II	TTh	153NGW	Ar
	8 (winter) Individual Sports: Archery—Bowling	III	TTh		Ar
	9 (winter) Intermediate Modern Dance	III	MW		Ar
	10 (winter) Team Sports Officiating: Basketball	VII	TTh		Ar
	11 (winter) Apparatus	I	TTh		Ar
	12 (winter) Gymnastics	II	TTh		Ar
	13 (spring) Individual Sports: Track and Field	VI	TTh		Ar
	14 (spring) Officiating of Team Sports: Softball	VIII	TTh		Ar
	15 (spring) Aquatics	VI	MWF		Ar
	16 (spring) Advanced Modern Dance	II	TTh		Ar
	17 (spring) Individual Sports: Advanced Tennis	III	TTh		Ar
Phys.Ed.51f††	Mechanics of Movement (3 cred.; prereq. 50)				
	Lect.	II	TTh	3NGW	Miss Riddle
	Lab.	VI-VII	Th		
Phys.Ed.57Aw-Bs†††	Technique of Teaching Aquatics (2 cred.; jr.; prereq. 21A-B-C)	III	TThS		Mrs. Larson
		(winter, spring)			
Phys.Ed.60s	Principles of Play (3 cred.; prereq. Psy. 1-2)				
	Sec. 1 (Phys.Ed. and Elem. Ed.)	II	TThS		Ar
	2 (Child Welfare only)	VII	MWF		Ar
Phys.Ed.61Af-Bw- Cs†††	Technique of Teaching Team Sports (3 cred.; jr.; prereq. 41A-B-C)	II	MWF	60NGW	Msis Rugh
		IV	T		
		(fall, winter, spring)			
Phys.Ed.64w†††	Technique of Teaching Group Gymnastics (1 cred.; jr.; prereq. 41A-B)	II	TTh		Ar

\* Students must pay 50 cents for tennis permit and supply own golf equipment.

† A fee of \$1.75 per section is charged for this course.

†† A fee of \$2 is charged for Course 51.

††† A fee of \$1.50 per credit is charged for this course.



Phys.Ed.65As-Bw†	Technique of Teaching Individual and Dual Sports (2 cred.; soph., jr.; prereq. 21A-B-C)	I (spring) III (winter)	TThS 60NGW MWF 60NGW	Miss Jaeger Miss Jaeger
Phys.Ed.66s	Advanced Physical Education (1 cred.; soph., jr.; prereq. 21A-B-C and 41A-B-C)	VI	MWF	Miss Jaeger
Phys.Ed.73As,Bf,Cw‡	Technique of Teaching Rhythm (3 cred.; soph., jr.; prereq. 41A-B-C)	I (spring) I (fall, winter)	MWF 153NGW TThS 151NGW	Miss Bockstruck Miss Bockstruck
Phys.Ed.82w	Principles of Physical Education (3 cred.; sr.; permission of instructor)	II	MWF	Miss Starr
Phys.Ed.83w‡	Methods and Materials of School Health Education (See Ed.T. 83)			
Phys.Ed.84f	Problems in Physical Education (2 cred.; prereq. permission of instructor)	II	MW 3NGW	Miss Jaeger
Phys.Ed.85f	Remedial Activities in Physical Education (3 cred.; sr.; prereq. 51)	III	TThS 3NGW	Miss Riddle
Phys.Ed.86w	Aspects of School Health Appraisal in Physical Education (3 cred.; sr.; prereq. P.H.59 or permission of instructor)	III	TThS	Miss Starr, Miss Riddle
Phys.Ed.90Af-Bw- Cst‡‡	Student Teaching (8 cred.; sr.; prereq. 65A-B, 60, 61A-B-C, 63, 64, 65)	Lect. Lab.	II IV Ar	TTh 3NGW T 3NGW Ar
Phys.Ed.95s	Administration of Physical Education (3 cred.; sr.; prereq. 60, 82, 83)	II	MWF	Miss Baker
Phys.Ed.111Ef§	An Advanced Course in Methods of Teaching Physical Education (3 cred.; sr., grad.; prereq. undergrad. methods courses, 60 and 82 or equiv.)	3-4:30	TTh 3NGW	Miss Baker
Phys.Ed.112Es§	Supervision of Physical Education (3 cred.; sr., grad.; prereq. permission of instructor)	3-4:30	TTh	Miss Baker
Phys.Ed.113Ew§	Physical Education in the Elementary Schools (3 cred.; sr., grad.; prereq. 60 and 82 or equiv., and experience teaching elementary grade children) (See also Ed.C.I. 113)	3-4:30	TTh	Miss Baker
Phys.Ed.114Es§	The School Health Education Program (See Ed.C.I. 114)			
Phys.Ed.116Ef§	Problems in Physical Fitness (3 cred.; sr., grad.; prereq. 82, 83 or equiv.)	III	MWF 3NGW	Ar

*Electives*

Phys.Ed.26s	Advanced Course in First Aid (1 cred.; prereq. 25)	VI	MW	Ar
Phys.Ed.54s‡‡	Camp Leadership (2 cred.; no prereq.)	VIII	MW	Ar
		1 hr. ar		
Phys.Ed.71‡‡	<i>Applied Physiology</i> (3 cred.; prereq. 51 and Physiol. 51) (Not offered in 1947-48)			
Phys.Ed.79s	Massage and Therapeutic Exercises (2 cred.; prereq. 85)	I	TThS	Ar

† The entire course must be completed satisfactorily before credit is given for any quarter. Graduates of teachers colleges should consult their advisers before registering for any part of the course.

‡ A fee of \$1.50 per credit is charged for this course.

‡‡ A physical education fee of \$1.75 per quarter is charged for this course.

§ The designation "E" after a course number over 100 signifies that the course is of graduate level in the College of Education but does not carry credit for Plans A and B in the Graduate School.

¶ Taking the psychological and speech examinations and a C+ (1.5 honor points per credit) in the major are prerequisite to this course.

# COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS

All courses in the College of Agriculture, Forestry, and Home Economics are scheduled on the University Farm campus except those indicated by an asterisk (\*).

## AGRICULTURAL BIOCHEMISTRY

### *Junior College Courses*

1f,s	Elementary Organic Chemistry (5 cred.; soph., jr., sr.; prereq. Inorg.Chem. 1 and 2 or 4 and 5§§) (Limited to 125)	II	MTWThF	107En	Ar
2f,w†	Quantitative Methods (5 cred.; soph., jr., sr.; prereq. Inorg.Chem. 1 and 2 or 4 and 5) (Limited to 32)	VI, VII, VIII, IX	MWF	116SnH	Ar
3f,w	Introduction to Biochemistry (3 cred.; soph., jr., sr.; prereq. 1 or equivalent)	I	TThS	113SnH	Ar
5s	Plant Biochemistry (3 cred.; soph., jr., sr.; prereq. 3; Soils 4 advised)	I	TThS		Ar
6s	Animal Biochemistry (3 cred.; soph., jr., sr.; prereq. 3; Soils 4 advised)	II	MWF		Mr. Schultze

### *Senior College Courses*

103s§§‡	Dairy Chemistry (6 cred.; jr., sr., grad.; prereq. 2 or equiv.; 6 or equiv.)				
	Lect.	VI	MWF		Mr. Jenness
	Lab.	VII, VIII, IX	MWF		Mr. Jenness
105s¶**	Plant Biochemistry (3 cred.; jr., sr., grad.; prereq. 3, Soils 4 advised)	I	MWF		Ar
106s¶**	Animal Biochemistry (3 cred.; jr., sr., grad.; prereq. 3; Soils 4 advised)	II	MWF		Mr. Schultze
108s	Chemistry of Wheat and Wheat Products (3 cred.; jr., sr., grad.; prereq. 5)	IV	MWF		Mr. Geddes
110s†‡	Flour Laboratory Methods (3 to 5 cred.; jr., sr., grad.; prereq. 2 or equiv.)	VI, VII, VIII, IX	MWF		Mr. Geddes, Mr. Smith
116w	Advanced Animal Nutrition (3 cred.; jr., sr., grad.; prereq. 6 or equiv., 120 advised)	III	TThS		Ar, Mr. Schultze
117s†‡	Animal Nutrition Laboratory (3 cred.; jr., sr., grad.; prereq. 116, permission of instructor)		Ar	Ar	Ar, Miss Kennedy
118f,w,s†‡	Laboratory Problems in Biochemistry (3 to 5 cred.; jr., sr., grad.; permission of instructor)		Ar	Ar Ar	Ar

‡ A laboratory fee of \$2 is required for this course. A \$5 card (from which the \$2 fee will be deducted) is to be purchased from the cashier's office, University Farm, before a laboratory desk will be assigned.

‡‡ A laboratory fee of \$5 is required for each quarter of this course. The \$5 card purchased from the cashier's office, University Farm, must be presented before laboratory space will be assigned. A \$5 breakage card against which breakage can be charged must be purchased also.

§ Lectures only may be taken upon permission of instructor.

¶ Term paper required.

§§ By special permission of the student's adviser General College Courses 37A and 37B will be acceptable as prerequisites for home economics students.

\*\* No credit allowed if course 5 or 6 has been completed.

119f	Colloids (3 cred.; jr., sr., grad.; prereq. zool. or bot. 10 cred., 5 or 6 or 8 credits in Organic Chemistry, Physics 9 advised)	III	MWF	113SnH	Mr. Briggs
120w	Proteins (3 cred.; jr., sr., grad.; prereq. 119 or permission of instructor)	III	MWF		Mr. Sandstrom
121w	Carbohydrates (3 cred.; jr., sr., grad.; prereq. 119 or permission of instructor)	II	MWF		Mr. Geddes
122s	Lipides (3 cred.; jr., sr., grad.; prereq. 119 or permission of instructor)	II	MWF		Mr. Briggs
123s	Enzymes (3 cred.; jr., sr., grad.; prereq. 119 or permission of instructor)	III	MWF		Mr. Sandstrom
124f	Vitamins (3 cred.; jr., sr., grad.; prereq. 3 and 6)	II	TThS	113SnH	Mr. Schultze
129f††	Colloids Laboratory (2 cred.; jr., sr., grad.; prereq. 2, parallel 119)	VI, VII, VIII	TTh	202SnH	Mr. Briggs
130w††	Proteins Laboratory (2 cred.; jr., sr., grad.; prereq. 2, parallel 120)	VI, VII, VIII	TTh		Mr. Sandstrom
131w††	Carbohydrates Laboratory (2 cred.; jr., sr., grad.; prereq. 2, parallel 121)	VI, VII, VIII	MW		Mr. Sandstrom
132s††	Lipides Laboratory (2 cred.; jr., sr., grad.; prereq. 2, parallel 122)	VI, VII, VIII	MW		Mr. Briggs
133s††	Enzymes Laboratory (2 cred.; jr., sr., grad.; prereq. 2, parallel 123)	VI, VII, VIII	TTh		Mr. Sandstrom

(See also courses under Food Technology.)

#### *Courses for Graduate Students Only*

201w	Advanced Colloids (3 cred.; prereq. 119, Physical Chemistry 103s)	Ar	Ar	Ar	Mr. Briggs
202f††	Biochemical Micro Methods (3 cred.; prereq. at least 1 yr. adv. biochem. or permission of instructor)	VI, VII, VIII, IX	MW		Mr. Boyer
203f,w,s,su††	Research Problems (2 to 5 cred.; permission of instructor)	Ar	Ar	Ar	Ar
205f,w,s,su	Special Topics in Biochemical Literature (1 to 3 cred.; prereq. permission of instructor)	Ar	Ar	Ar	Ar
208f,w,s	Cereal Chemistry Seminar (1 cred.; prereq. 108 and permission of instructor)	Ar	Ar	Ar	Mr. Geddes
212f,w,s††	Special Topics in Nutritional Chemistry (3 cred.; prereq. 116)	Ar	Ar	Ar	Mr. Schultze
213f,w	Dairy Chemistry Seminar (1 cred.; prereq. 103 and permission of instructor)	Ar	Ar	Ar	Mr. Jenness
216f,w	Nutrition Seminar (1 cred.; prereq. 116 and permission of instructor)	Ar	Ar	Ar	Mr. Schultze
219f,w	Colloid Chemistry Seminar (1 cred.; prereq. 119 and permission of instructor)	Ar	Ar	Ar	Mr. Briggs
220f,w	Protein Chemistry Seminar (1 cred.; prereq. 120 and permission of instructor)	Ar	Ar	Ar	Mr. Sandstrom
221f,w	Carbohydrate Chemistry Seminar (1 cred.; prereq. 121 and permission of instructor)	Ar	Ar	Ar	Mr. Geddes
222f,w	Lipides Chemistry Seminar (1 cred.; prereq. 122 and permission of instructor)	Ar	Ar	Ar	Mr. Briggs
223f,w	Enzyme Chemistry Seminar (1 cred.; prereq. 123 and permission of instructor)	Ar	Ar	Ar	Mr. Sandstrom
224f,w,s††	General Seminar (1 cred.; prereq. permission of instructor)	Ar	Ar	Ar	Staff

†† Required of all graduate students majoring in the division.

‡‡ A laboratory fee of \$5 is required for each quarter of this course. The \$5 card purchased from the cashier's office, University Farm, must be presented before laboratory space will be assigned. A \$5 breakage card against which breakage can be charged must be purchased also.

AGRICULTURAL ECONOMICS

*Junior College Courses*

1f	Principles of Economics I (3 cred.; soph., jr., sr.; no prereq.) (Sections limited to 60 each)				
	Sec. 1	I	MWF	109HH	Mr. Lowe
	2	I	TThS	109HH	Mr. Lowe
	3	I	MWF	100HH	Mr. Halvorson
	4	III	MWF	109HH	Mr. Lowe
1w	Principles of Economics I (Same as 1f) (Sections limited to 60 each)				
	Sec. 1; 3	I; III	MWF		Mr. Halvorson; Mr. Lowe
	2; 4	I; III	TThS		Mr. Halvorson; Mr. Lowe
2w	Principles of Economics II (5 cred.; soph., jr., sr.; prereq. 1) (Sections limited to 60 each)				
	Sec. 1-3	I; II; III	MTWThF		Mr. Lowe; Mr. Halvorson
2s	Principles of Economics II (Same as 2w) (Sections limited to 60 each)				
	Sec. 1-2	I	MTWThF		Mr. Halvorson;
	3-4	III	MTWThF		Mr. Lowe
3f,w,s	Principles of Economics (Home Economics) (5 cred.; soph., jr., sr.; no prereq.) (Limited to 60)				
		II	MTWThF	109HH	Mr. Lowe
8s	Rural Economics (3 cred.; soph., jr., sr.; prereq. 2 or 3)				
		III	TThS		Mr. Jesness
25f,w	Principles of Accounting (4 cred.; soph., jr., sr. in Agr., For., and Home Econ. only) (Limited to 50)				
	Lect.	II(f)	MWF	311HH	Mr. Koller
		II(w)	TThS		
	Lab.	VIII, IX	Th	311HH	
30f	Agricultural Prices (3 cred.; soph., jr., sr.; prereq. 2) (Limited to 60)				
		II	TThS	312HH	Mr. Waite
40f,s	Principles of Marketing Organization (3 cred.; soph., jr., sr.; prereq. 2)				
		I	MWF(f)	210HH	Mr. Cox
		II	MWF(s)		
47s	Marketing Accounting (4 cred.; soph., jr., sr.; prereq. 25)				
	Lect.	IV	MWF		Mr. Koller
	Lab.	VIII, IX	F		

*Senior College Courses*

50f§	Farm Finance (5 cred.; jr., sr. in Agr. and For. only; prereq. 2)				
		IV	MTWFS	312HH	Mr. Koller
80s§	Farm Accounting (3 cred.; jr., sr.)				
		I	TThS		Mr. Engene
90f§	Agricultural Statistics (5 cred.; jr., sr.)				
	Lect.	III	TThS	312HH	Mr. Cox
	Lab.	Ar	Ar		
102w	Farm Organization (3 cred.; jr., sr., grad.; prereq. 2) (Limited to 60)				
		II	TThS		Mr. Pond
103s	Farm Operation (3 cred.; jr., sr., grad.; prereq. 102) (Limited to 60)				
		II	TThS		Mr. Pond
104s	Types of Farming (3 cred.; jr., sr., grad.; prereq. 2)				
		III	MWF		Mr. Pond
107s	Farm Work Simplification (3 cred.; jr., sr., grad.; prereq. 2) (Limited to 25)				
		VIII, IX	MWF		Mr. Engene
110f	Economics of Agricultural Production (3 cred.; jr., sr., grad.; prereq. 2)				
		I	TThS	312HH	Mr. Dowell
126f,s	Economics of Consumption (3 cred.; jr., sr., grad.; prereq. 2 or 3)				
		I	TThS	100HH	Mr. Waite
131w	Market Prices (3 cred.; jr., sr., grad.; prereq. 30, 40)				
		III	TThS		Mr. Waite

§ Open to sophomores on petition.

135s	Methods of Price Analysis (3 cred.; sr., grad.; prereq. 30, 191)	III	TThS		Mr. Waite
140f	Marketing Organization: Staples (3 cred.; jr., sr., grad.; prereq. 40)	III	MWF	312HH	Mr. Cox
141w	Marketing Organization: Dairy and Poultry Products (3 cred.; jr., sr., grad.; prereq. 40)	II	MWF		Mr. Jesness
142a	Marketing Organization: Fruits and Vegetables (2 cred.; jr., sr., grad.; prereq. 40)	III	MW		Mr. Cox
143w	Marketing Organization: Livestock and Meats (3 cred.; jr., sr., grad.; prereq. 40)	III	MWF		Mr. Dowell
144f	Co-operative Organization (3 cred.; jr., sr., grad.; prereq. 40)	II	TThS	311HH	Mr. Jesness
150s	Advanced Farm Finance (3 cred.; jr., sr., grad.; prereq. 50 or equiv.)		2:30-4:00 p.m.	TTh	Mr. Koller
170w	Land Economics (3 cred.; jr., sr., grad.; prereq. 110)		1:30-3:00 p.m.	WF	Mr. Dowell
172s	Economics of World Agriculture (3 cred.; jr., sr., grad.; prereq. 110)		1:30-3:00	WF	Mr. Dowell
191w	Advanced Agricultural Statistics (3 cred.; jr., sr., grad.; prereq. 90)	IV	MWF		Mr. Waite

*Courses for Graduate Students Only*

206w	Seminar in Agricultural Policy (3 cred.)		2:30-5:00 p.m.	TTh	Mr. Jesness
221f	Farm Organization Studies (3 cred.)	Ar		Ar Ar	Mr. Pond
226s	Advanced Farm Organization (3 cred.)	Ar		Ar	Mr. Pond
241	<i>Seminar in the Marketing of Livestock and Livestock Products (3 cred.) (Not offered)</i>				
270s	Seminar in Land Tenure (3 cred.)	Ar		Ar	Mr. Dowell

See also Economics and Business Administration in School of Business Administration section.

## AGRICULTURAL EDUCATION

See page 106.

## AGRICULTURAL ENGINEERING

### *Junior College Courses*

3f,w,s	Mechanical Drawing (3 cred.; no prereq.) (Limited to 40)	III, IV (f)	MWF	303En	Mr. Otis
		VII, VIII,			
		IX (w)	TTh	303En	Mr. Otis
		III, IV (s)	MWF	303En	Mr. Otis
5f‡	Farm Structures Laboratory (3 cred.; prof. agr. eng. only; no prereq.)				
	Lect.	I	MW	41En	Mr. Christopherson
	Lab.	II	MW	48En	
		I, II	F		
6s‡	Farm Buildings (4 cred.; no prereq.) (Limited to 60)	VI, VII, VIII,			Mr. Otis,
		IX	TTh		Mr. Christopherson
11w	Applied Mathematics (5 cred.; high school elementary algebra and plane geometry or their qualitative equiv.) (Limited to 20)				
	Sec. 1-2	III; IV	MTWThF		Mr. Hustrulid;
					Mr. Flikke
12s	Agricultural Machinery (3 cred.; prereq. 23 or equiv.)	II	MWF		Mr. Schwantes

‡ A fee of \$1 per quarter is charged for this course.

13f‡	Gas Engines and Tractors (3 cred.; no prereq.) (Limited to 40)	VI, VII, VIII	MF	216,37En	Mr. Torrance
14s‡	Farm Power and Machinery (4 cred.; prereq. 41, 23 or equiv.) (Limited to 40)	VI, VII	M		Mr. Torrance,
		VI, VII, VIII	WF		Mr. Johnson
15w	Electricity in Agriculture (2 cred.; prereq. 23 or equiv.)	VI	TTh		Mr. Hustrulid
18s	Agricultural Automotives (3 cred.; prof. agr. eng. only; prereq. Phys. 7)	VI	TTh		Mr. Torrance
		VII, VIII	TTh		
19f‡	Elementary Surveying (3 cred.; prereq. 3, 11 or trigonometry) (Sections limited to 28 each)	V	T	217En	Mr. Allred,
		VI, VII, VIII	TTh	305En	Mr. Manson
19s‡	Elementary Surveying (Same as 19f)	VI	T		Mr. Allred,
		VII, VIII, IX	TTh		Mr. Manson
20f‡	Advanced Surveying (3 cred.; prereq. 19) (Limited to 28)	VI	M	217En	Mr. Manson,
					Mr. Allred
		VII, VIII, IX	M	305En	Mr. Manson,
		VI, VII, VIII	W		Mr. Allred
20s‡	Advanced Surveying (Same as 20f)	VI	M		Mr. Manson,
					Mr. Allred
		VII, VIII, IX	MF		Mr. Manson,
					Mr. Allred
21s‡	Elements of Surveying (5 cred.; prof. agr. eng. only; prereq. Draw. 3 and M.&M. 12)	V	M		Mr. Manson
		VI, VII, VIII,			
		IX	MWF		Mr. Manson
23w‡	General Physics (5 cred.; no prereq.) (Lab. sections limited to 20 each) (Not open for credit to students offering one unit of high school physics for entrance)	I	MWF		Mr. Hustrulid
		VI, VII, VIII, IX	T		Mr. Tyler
		VI, VII, VIII, IX	W		Mr. Hustrulid
24f‡	Agricultural Physics I (4 cred.; prereq. Math. 6 or equiv.) (Lab. sections limited to 16 each)	III	MWF	101En	Mr. Hustrulid
		VI, VII	M	102En	Mr. Hustrulid
		VI, VII	F	102En	Mr. Hustrulid
25w‡	Agricultural Physics II (4 cred.; prereq. 24)	I	TThS		Mr. Hustrulid
		VI, VII	M		Mr. Hustrulid
		VI, VII	F		Mr. Hustrulid
31w	Drainage and Soil Erosion (3 cred.; no prereq.) (Limited to 30)	II(w)	MWF		Mr. Manson
32w	Elements of Supplemental Irrigation (2 cred.; no prereq.)	Ar	Ar		Mr. Allred
33f‡	Introduction to Soil and Water Control (3 cred.; prereq. 11 or equivalent and Soils 5) (Limited to 28)	VI, VII, VIII	WF	105En	Mr. Manson
35f,s‡	Household Physics (3 cred.; no prereq.) (Lab. sections limited to 16 each)	III	TThS	101En	Mr. Hustrulid
		I, II	ThS	102En	Mr. Hustrulid
		VI, VII	TTh	102En	Mr. Tyler
		I	MWF		Mr. Hustrulid
		III	TThS		Mr. Hustrulid
		I, II	TTh		Mr. Hustrulid
		VI, VII	MF		Mr. Tyler
		VI, VII	TTh		Mr. Tyler
		VIII, IX	MF		Mr. Tyler
		VIII, IX	TTh		Mr. Tyler

‡ A fee of \$1 per quarter is charged for this course.

37w,s	Rural Sanitation and Water Supply (3 cred.; no prereq.) (The spring sections for prof. agr. eng. only; prereq. M.&M. 129)	I(w) I(s)	MWF MWF		Mr. Tyler Mr. Tyler
38f	Farm Water Supply and Sewage Disposal (2 cred.; no prereq.)	I	TS	101En	Mr. Tyler
40f†	Mechanical Training (3 cred.; no prereq.) (Limited to 40)	I, II	MWF	20,106En	Mr. Dent
41s††	Metal Work (3 cred.; no prereq.) (Limited to 30)	I, II	MWF		Mr. Dent
42s†††	Art Metal Work (3 cred.; no prereq.) (Limited to 20)	VI, VII, VIII	WF		Mr. Dent
43s††	Mechanical Laboratory (3 cred.; prof. agr. eng. only; no prereq.) (Limited to 30)	I, II, III, IV	S		Mr. Dent
		2 hrs. ar			
44	<i>Advanced Drawing (2 cred.; prereq. Ag.Eng. 3 or equiv.) (Not offered in 1947-48)</i>				
<i>Senior College Courses</i>					
51w	Soil Moisture Relations (5 cred.; jr., and sr. prof. agr. eng. only; prereq. 21 or parallel, Soils 4, M.&M. 129)	VI	MTWTbF		Mr. Manson, Mr. Allred
52f	Elements of Farm Machinery (3 cred.; prof. agr. eng. only; prereq. M.&M. 26)	Lect. VI Lab. VII, VIII, IX	TTh Th	216En 49En	Mr. Schwantes
53s	Farm Structures (3 cred.; prof. agr. eng. only; prereq. 5, Draw. 3, or equiv.)	Lect. II Lab. III, IV	TS TS		Mr. Otis
67f	Advanced Farm Structures Design (3 cred.; prof. agr. eng. only; prereq. 5, 53, M.&M. 128, C.E. 37)	Lect. I Lab. II	TTh TTh	303En 303En	Mr. Otis
		I, II	S	303En	
70f	Dairy Engineering (3 cred.; jr., sr.; prereq. 24)	I	MWF	105En	Mr. Strait
71f	Design and Economics of Agricultural Machinery (3 cred.; prof. agr. eng. only; prereq. 18, 52, M.E. 27)	Lect. VI Lab. VII, VIII, IX	M F M	105En 49,105En	Mr. Schwantes, Mr. Strait
72s‡	Applied Electricity (3 cred.; jr., sr., prof. agr. eng. only; prereq. Phys. 9)	Lect. III Lab. VI, VII, VIII, IX	MF W		Mr. Hustrulid
73s	Steam Boilers and Heat Engines (3 cred.; prof. agr. eng. only; prereq. 18 and M.E. 131)	Lect. II Lab. VI, VII, VIII, IX	MF Th		Mr. Strait
101f,102w,103s	Advanced Problems in Soil Moisture Regulation (2 to 6 cred. per qtr.; sr., grad.; prereq. 51)	Ar	Ar Ar		Mr. Manson
104f	The Soil Moisture Relation in Agriculture (3 cred.; sr., grad.; not open to engineers; prereq. 9 cred. in agr. eng. including phys.)	Ar	Ar	105En	Mr. Manson
105w	Advanced Soil and Water Conservation (3 cred.; sr., grad.; prereq. 51 or equiv.)	Ar	Ar		Mr. Manson
111f-112w-113s	Farm Building Problems (2 to 6 cred. per qtr.; sr., grad.; prereq. 67)	Ar	Ar	303En	Mr. White, Mr. Otis, Mr. Christopherson

‡ A fee of \$1 is charged for this course.

†† A fee of \$6 is charged for this course.

††† A fee of \$3 is charged for this course.

114s	Buildings, Equipment, Materials and Methods of Construction (3 cred.; sr., grad.; not open to engineers; prereq. 9 cred. in agr. eng. including Agr.Eng. 3 and 6 or equiv.)	Ar	Ar	Mr. Otis, Mr. Christopherson
121f,122w,123s	Farm Power and Machinery Problems (2 to 6 cred. per qtr.; sr., grad.; prereq. 71, 72)	Ar	Ar Ar	Mr. Schwantes, Mr. Hustrulid, Mr. Strait
124s	Agricultural Machinery and Mechanical Power Management (3 cred.; sr., grad.; not open to engineers; prereq. 9 cred. in agr. eng. including phys. and Agr.Eng. 12)	Ar	Ar	Mr. Schwantes
125s	Topics in Agricultural Physics (3 cred.; sr., grad.; prereq. 72 or Calculus and 24, 25 or equiv.)	Ar	Ar	Mr. Hustrulid
126w	Selection and Management of Agricultural Machinery (3 cred.; sr., grad.; prereq. 18, 71, Agr.Econ. 102)	III	MW	Mr. Schwantes
	Lect.			
	Lab.	3 hrs. ar		

*Courses for Graduate Students Only*

201f-202w-203s	Research in Soil Moisture Relations (2 to 6 cred. per qtr.; prereq. 101, 102, or 103 and one qtr. Statistics)	Ar	Ar Ar	Mr. Manson
211f-212w-213s	Farm Structures Research (2 to 6 cred. per qtr.; prereq. 111)	Ar	Ar Ar	Mr. Otis, Mr. Christopherson
221f-222w-223s	Farm Power and Machinery Research (2 to 6 cred. per qtr.; prereq. 121)	Ar	Ar Ar	Mr. Schwantes, Mr. Hustrulid, Mr. Strait

AGRICULTURAL JOURNALISM

53w	Publicity (3 cred.; jr., sr.; prereq. Rhet. 1, 2, 3)	I	TThS	Mr. Johnson
54f	Editing Agricultural Bulletins (3 cred.; jr., sr.; prereq. Journ. 13-14-15; 51-52; 69 or 73, or permission of instructor)	I	TThS 107Ad	Mr. Johnson
55s	Agricultural Journalism Outlets (3 cred.; jr., sr.; prereq. Journ. 13-14-15; 51-52; 69 or 73, or permission of instructor)	I	TThS	Mr. Johnson

For additional courses see under Journalism, College of Science, Literature, and the Arts, page 57.

AGRONOMY AND PLANT GENETICS

*Junior College Courses*

1f,s	General Farm Crops (3 cred.; no prereq.)	IV	MWF 202Ag	Mr. Dunham
21w	Grain Crops (4 cred.; soph., jr., sr.; prereq. 1)	VI	MWF	Mr. Dunham
	Lect.	VII	MWF	Mr. Dunham
	Lab.	I, II	MWF	Mr. Lambert
22s	Grain and Hay Grading (3 cred.; soph., jr., sr.; prereq. 1)	VI, VII	MWF 202Ag	Mr. Schmid
23f	Forage Crops (4 cred.; soph., jr., sr.; prereq. 1)	I	TThS 202Ag	Mr. Lambert
31f,w	Principles of Genetics (4 cred.; soph., jr., sr.)	I	Ar Ar	Mr. Lambert
	Lect.	Ar		
	Lab.			



126f	Crop Judging (4 cred.; jr., sr., grad.; prereq. 22)	Ar	Ar	201Ag	Mr. Schmid
132w	Farm Crops Plant Breeding (4 cred.; jr., sr., grad.; prereq. 31)	VI, VII, VIII	TTh		Mr. Rinke
133s	Pasture Crops and Management (4 cred.; jr., sr., grad.; prereq. 23)	VI, VII	MWF		Mr. Schmid
134s	Seminar in Agronomy (2 cred.; sr., grad.; prereq. Agron. 9 cred.)	Ar	Ar		Staff
135f	Weed Control (3 cred.; jr., sr., grad.; prereq. Plant Path. 3)				Mr. Dunham
<i>Courses for Graduate Students Only</i>					
121w	Grain Crops (4 cred.; grad.; prereq. 1)				
	Lect.	VI	MWF		Mr. Dunham
	Lab.	VII	MWF		Mr. Dunham
122s	Grain and Hay Grading (3 cred.; grad.; prereq. 1)	I, II	MWF		Mr. Lambert
123f	Forage Crops (4 cred.; grad.; prereq. 1)	VI, VII	MWF	202Ag	Mr. Schmid
131f,w	Principles of Genetics (4 cred.)				
	Lect.	I	TThS	202Ag	Mr. Lambert
	Lab.	Ar	Ar	Ar	Mr. Lambert
135f	Weed Control (3 cred.; jr., sr., grad.; prereq. Agron. 1 and Pl. Pa. 3.)	VI, VII	TTh	202Ag	Mr. Dunham, Mr. Larson
201f,w,s,su	Research in Farm Crops (3 to 9 cred.)	Ar	Ar	Ar	Mr. Dunham, Mr. Schmid
202f,w	Farm Crops Seminar (1½ cred.)	Ar	Ar	Ar	Mr. Dunham, Mr. Schmid, Mr. Thomas
241f,w,s,su	Research in Plant Genetics (Ar)	Ar	Ar	Ar	Mr. Wilcox, Mr. Hayes, Mr. Rinke
242f,s	Plant Breeding Seminar (1 cred.)	VIII, IX	F	408Ag	Mr. Hayes, Mr. Rinke, Mr. Currence, Mr. Krantz, Mr. Wilcox
243f	Methods in Plant Breeding (3 cred.)	Ar	Ar	408Ag	Mr. Hayes
244f,su	Laboratory Methods in Plant Breeding (3 cred.)	Ar	Ar	Ar	Staff
245f	Advanced Genetics (3 or 5 cred.)	Ar	Ar	Ar	Mr. Wilcox
246w	Genetics Seminar (2 cred.)	VIII, IX	F		Mr. Hayes, Mr. Rinke, Mr. Currence, Mr. Krantz, Mr. Wilcox, Mr. Winters
247w	Cytogenetics (3 or 5 cred.)	Ar	Ar		
248w	Applied Statistics (3 cred.)	Ar	Ar		Mr. Thomas

## ANIMAL AND POULTRY HUSBANDRY

## ANIMAL HUSBANDRY

*Junior College Courses*

1f,w,s	Livestock Production (4 cred.; no prereq.)	II	MTWThF	CS†	Mr. Harvey
5s	Livestock Judging (3 cred.; soph., jr., sr.; prereq. 8)	III, IV	MWF		Mr. Harvey
8f,w	Breeds of Livestock (3 cred. soph., jr., sr.; prereq. 1)	III, IV	TThS	WSt	Mr. Harvey

*Senior College Courses*

50w	Meat Selection and Utilization (3 cred.; jr., sr.; agr. and home econ. students; no prereq.)	III	ThS		Mr. Anderson
		III, IV	T		
52s	Meats (3 cred.; jr., sr.; prereq. 1, 51)	VI, VII, VIII	TTh		Mr. Anderson
53f	Advanced Meats (3 cred.; jr., sr.; prereq. 52)	VI, VII, VIII	TTh	MSh	Mr. Anderson
56f-57w	Livestock Feeding (6 cred.; jr., sr.; prereq. 1)	III	MWF	3St	Mr. Ferrin
58f	Market Classes and Grades of Livestock and Livestock Products (3 cred.; jr., sr.; prereq. 1)	II	TThS	3St	Mr. Peters
101f	Livestock Selection (3 cred.; jr., sr., grad.; prereq. 5)	VI, VII	MWF	CS†	Mr. Harvey
107s	Meat Problems (3 cred.; jr., sr., grad.; prereq. 53)	IV	TS		Mr. Anderson
	Lect.	VI, VII, VIII	F		
108s	Seminar, Animal or Poultry Husbandry (3 cred.; jr., sr., grad.; prereq. 56-57, 112 or Poultry 153, 154, 102)	II	TThS		Mr. Peters
112w	Animal Breeding (3 cred.; jr., sr., grad.; prereq. Agron. 31)	IV	MWF		Mr. Winters
113s	Livestock Management (3 cred.; jr., sr., grad.; prereq. 56-57, 112)	VI, VII, VIII	MW		Mr. Peters
114s	Artificial Insemination (5 cred.; jr., sr., grad.; prereq. 112 or equiv. and approval of instructor)	III	MWF		Mr. Green
		VI, VII, VIII	TTh		
116f	Prenatal Development of Farm Animals (3 cred.; jr., sr., grad.; prereq. 112 or equiv. and approval of instructor)	IV	MWF	MSh	Mr. Green

## POULTRY HUSBANDRY

*Junior College Courses*

1w,s	Poultry Production (4 cred.; no prereq.)	IV	MTWF		Mr. Canfield
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*Senior College Courses*

51s	Hatchery Management (3 cred.; jr., sr.; prereq. 1, Zool. 14-15)	VII	TTh		Mr. Canfield
	Lect.	VIII	TTh		
	Lab.	VII, VIII	TTh	Poul	Mr. Canfield
52f	Poultry Judging (3 cred.; jr., sr.; prereq. 1)	I	MWF		Mr. Shoffner
102w	Poultry Breeding (3 cred.; jr., sr., grad.; prereq. 1, Agron. 31)	I	MWF		Mr. Shoffner
153w	Poultry Feeding (3 cred.; jr., sr., grad.; prereq. 1, Ag.Biochem. 1)	II	MWF		Mr. Sloan

154f	Poultry Products (4 cred.; jr., sr., grad.; prereq. 1) VI, VII, VIII	MW	Poul	Mr. Sloan, Mr. Canfield
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*Courses for Graduate Students Only*

201w	Advanced Animal Breeding I (3 cred.; grad.; prereq. 112) Ar	Ar		Mr. Winters
202s	Advanced Animal Breeding II (3 cred.; grad.; prereq. 201) Ar	Ar		Mr. Winters
203s	Physiology of Reproduction (3 cred.; grad.; prereq. 116) Ar	Ar		Mr. Green
205s	Seminar in Animal Breeding (2 cred.; grad.) Ar	Ar		Mr. Winters
206w	Advanced Livestock Feeding I (3 cred.; grad.) Ar	Ar		Mr. Ferrin
207s	Advanced Livestock Feeding II (3 cred.; grad.) Ar	Ar		Mr. Ferrin
208f,209w,210s	Seminar in Animal Husbandry (1 cred. per qtr.; grad.) Ar	Ar	Ar	Mr. Peters
211f	Experimental Methods (3 cred.; grad.) Ar	Ar	Ar	Mr. Ferrin
212f,w,s	Research in Meats (3 to 9 cred.; grad.) Ar	Ar	Ar	Mr. Anderson
213f,w,s	Research in Animal Husbandry (3 to 9 cred.; grad.) Ar	Ar	Ar	Mr. Peters, Mr. Ferrin, Mr. Winters, Mr. Harvey
214f,w,s	Research in Poultry Husbandry (3 to 9 cred.; grad.) Ar	Ar	Ar	Mr. Sloan, Mr. Canfield Mr. Shoffner
215f,w,s	Research in Poultry Nutrition (3 to 9 cred.; grad.) Ar	Ar		Mr. Sloan

## DAIRY HUSBANDRY

*Junior College Courses*

1f,s	Elements of Dairying (3 cred.; prereq. entrance cred. in chem. or Inorg.Chem. 1 or 4) (Limited to 90)	III	MWF 100HH	Mr. Combs, Mr. Norris
2w	Dairy Bacteriology (3 or 5 cred.; 3 cred. for lect., 2 cred. for lab.; soph., jr., sr.; prereq. Bact. 53) (Lecture taken separately only on permission of instructor)	VI	MWF	Mr. Olson
	Lect.	VII-VIII	MWF	
	Lab.			
3f	Testing Dairy Products (2 cred.; prereq. 1) VII, VIII	MW	212HH	Mr. Thomas
4s	Dairy Products Practice (3 cred.; soph., jr., sr.; prereq. 1, permission of instructor) Ar	Ar		Mr. Combs
9s	Dairy Cattle Judging (1 cred.; soph., jr., sr.; no prereq.) VI, VII, VIII	F		Mr. Gilmore
10s	Dairy Products Judging (1 cred.; soph., jr., sr.; prereq. 1) Ar	Ar		Mr. Coulter
20s	Household Microbiology (4 cred.; 3rd qtr. fresh., soph., jr., sr.; prereq. approval of adviser and permission of instructor)	VI	MF	Mr. Olson
		VI, VII	W	

*Senior College Courses*

51b	Market Milk (3 cred.; jr., sr.; prereq. 1, 2) IV	MW		Mr. Olson
		VI, VII, VIII	Th	

101f	Milk Production (5 cred.; jr., sr., grad.; prereq. 1)	IV	MTWThF 210HH	Mr. Fitch
103w	Dairy Stock Feeding (3 cred.; sr., grad.; prereq. 101, An.Husb. 56)	II	TThS	Mr. Fitch
104f	Dairy Stock Selection (2 cred.; jr., sr., grad.; prereq. 9, 101 or parallel)	VI	TTh 9HH	Mr. Gilmore
105f	Seminar I (1 cred.; sr., grad.; prereq. 3 courses in Dairy Husb.)	Ar	Ar 214HH	Mr. Petersen
106w	Seminar II (1 cred.; sr., grad.; prereq. 105)	Ar	Ar	Mr. Petersen
110w	Dairy Products: Ice Cream and Frozen Desserts (3 cred.; jr., sr., grad.; prereq. 1, 3)	IV VI, VII, VIII	TS T	Mr. Combs, Mr. Thomas
111f	Dairy Products: Butter (3 cred.; jr., sr., grad.; prereq. 1, 2, 3)	VI	MW 210HH	Mr. Coulter, Mr. Thomas
112s	Dairy Products: Cheese (3 cred.; jr., sr., grad.; prereq. 1, 2, 3)	VI, VII, VIII	F	Mr. Combs
113s	Technical Control (3 cred.; sr., grad.; prereq. 2, 111 or 112)	IV VI, VII, VIII	TS T	Mr. Thomas
114w	Milk By-Products (3 cred.; jr., sr., grad.; prereq. 1, 3)	I VI, VII, VIII	TTh Th	Mr. Coulter, Mr. Morris
115s	Advanced Dairy Bacteriology (3 cred.; sr., grad.; prereq. 2, 111 or 112)	Ar	Ar	Mr. Macy
116s	Milk Secretion (3 cred.; sr., grad.; prereq. physiol. 9 cred. and Agr.Biochem. 103)	I	MWF	Mr. Petersen
117s	Dairy Cattle Breeding (3 cred.; jr., sr., grad.; prereq. 101, 104, Agron. 31)	Ar	Ar	Mr. Gilmore

*Courses for Graduate Students Only*

202f,203w,204s	Research in Dairy Production	Ar	Ar Ar	Mr. Fitch, Mr. Petersen, Mr. Gullick- son, Mr. Gilmore
205f,206w,207s	Research in Dairy Manufacturing	Ar	Ar Ar	Mr. Combs, Mr. Coulter
212f,213w,214s	Research in Dairy Bacteriology	Ar	Ar Ar	Mr. Macy, Mr. Olson

For course in Dairy Chemistry see Agricultural Biochemistry 103, page 133.

ENTOMOLOGY AND ECONOMIC ZOOLOGY

*Junior College Courses*

5f,w,s	Economic Entomology (5 cred.; soph., jr., sr.; prereq. Zool. 14-15 or equiv.) (Section limited to 36)	VI, VII, VIII	MWF 301, 302Ad	Mr. Hodson, Mr. Cutkomp, Mr. Milliron
13su	Field Zoology (1½ cred.; no prereq.)	Given at Itasca Park		Mr. Dawson
21s	Principles of Beekeeping (3 or 5 cred.; no prereq.)	VI, VII, VIII	MWF	Mr. Haydak

## Senior College Courses

51f*†‡	Introductory Parasitology (5 cred.; jr., sr.; prereq. Zool. 14-15 or equiv.) (Sections limited. Written permission must be obtained from the Junior College office, 106 Folwell Hall)	VI, VII, VIII	MWF	208Z	Mr. Wallace
52w*†‡	Introductory Entomology (5 cred.; jr., sr.; prereq. Zool. 14-15 or equiv.) (Laboratory limited to 28)				
	Lect.	VIII	MWF		Mr. Mickel
	Lab. Sec. 1	VI, VII	MWF		
	2	IX, X	MWF		
55f	Entomological Techniques (9 hrs. lab.; 3 cred.; jr., sr.; ar.)				Mr. Milliron
56w	Forest Entomology (5 cred.; jr., sr.; prereq. Zool. 14-15 or equiv.)	VI, VII, VIII	MWF		Mr. Hodson
63f	Mammalogy (4 cred.; jr., sr.; prereq. Zool. 22)				
	Lect.	IV	MWF	100Ad	Mr. Quimby
	Lab.	Ar	Ar		
64w	Economic Vertebrate Zoology (3 cred.; jr., sr.; prereq. Zool. 1-2-3 or equiv.)	III	MWF		Mr. Marshall
114s	Apiculture (3 cred.; jr., sr., grad.; prereq. 9 cred in ent.)	I	MW		Mr. Haydak
		2 hrs. ar			
117f*†-118w‡- 119s*†	Animal Ecology (9 cred.; jr., sr., grad.; prereq. 15 cred. in zool. or ent.)	VI, VII, VIII	TTh	211Z(f,s)	Mr. Eddy, 301Ad Mr. Hodson (UF) (w)
120s	General Ecology of Insects (3 cred.; jr., sr., grad.; alternative to 119s, or both may be taken; prereq. 117f-118w)	VI, VII, VIII	TTh		Mr. Hodson
121f†	Ichthyology (3 cred.; jr., sr., grad.; prereq. 15 cred. in zool. or ent.)				
	Lect.	VIII, IX	F	211Z	Mr. Eddy
	Lab.	Ar	Ar	Ar	
125f†-126w†- 127s*†	Advanced General Entomology (9 cred.; jr., sr., grad.; prereq. 15 cred. in zool. or ent.)				
	Lect.	I	TTh	211Z	Mr. Mickel
	Lab.	I, II, III	S	402Z	
128f-129w	Insect Physiology (8 cred.; sr., grad.; prereq. 15 cred. in zool. or ent. and consent of instructor. Zool. 50 or equiv. recommended)				
	Lect.	VI	WF	8Ad	Mr. Richards
	Lab.	VII, VIII, IX	WF	8Ad	
140s	<i>Histology and Embryology of Insects</i> (4 cred.; sr., grad.; prereq. Ent. 125, 126, 127, or equiv.) (Not offered in 1947-48)				
141f-142w	Insects in Relation to Plant Diseases (6 cred.; jr., sr., grad.; prereq. 8 cred. in ent. or plant path.)	I, II	MWF	302Ad	Mr. J. J. Christensen, Mr. Granovsky
144f*†	Medical Entomology (3 cred.; jr., sr., grad.; prereq. 9 cred. in zool. or ent.)	VI, VII, VIII	WF	208Z	Mr. Burroughs
145w†-146s*†	Animal Parasites and Parasitism (6 cred.; jr., sr., grad.; prereq. 9 cred. in Zool.)	VI, VII, VIII	WF		Mr. Wallace
150s	Introduction to Aphidology (3 cred.; jr., sr., grad.; prereq. Ent. 52 or equiv. or permission of instructor)	Ar	Ar		Mr. Granovsky
164f	Wildlife Management (3 cred.; jr., sr., grad.; prereq. Ent. 63, 64, Zool. 46-47, Bot. 50 and Pl. Path. 53)	III	TTh	100Ad	Mr. Marshall
		I, II, III	S		

\* Offered on the Minneapolis campus.

† A fee of \$1.50 per quarter is charged for this course.

‡ Open to sophomores on petition.

¶ Note that in the winter quarter this course is offered at the University Farm.

165w	Wildlife Management (3 cred.; jr., sr., grad.; prereq. Ent. 164 or 167)	I	MWF		Mr. Marshall
166s	Wildlife Management (3 cred.; jr., sr., grad.; prereq. Ent. 164, 165)	III	TTh		Mr. Marshall
		I, II, III	S		
167s	Techniques in Forest Wildlife Management (3 cred.; sr., grad.; prereq. Ent. 64)			Given at Cloquet	Mr. Marshall
168f-169w†	Fishery Biology and Management (6 cred.; jr., sr., grad.; prereq. Zool. 53, 117, 118, 119, and 121; Bot. 57 or equiv.; Ag. Econ. 90 or equiv.; or consent of instructor)				
	Lect.	VI	MW	100Ad	Mr. Smith
	Lab.	VII, VIII	MW	100Ad	
170s	Fisheries Resources (3 cred.; jr., sr., grad.; prereq. Ent. 168, 169 or consent of instructor)				
	Lect.	I	MWF	100Ad	Mr. Smith
175f	Principles of Economic Entomology (4 cred.; jr., sr., grad.; prereq. 15 cred. in ent. including Ent. 5, or consent of instructor)	III	MWF	301Ad	Mr. Cutkomp
176w	Legal and Regulatory Aspects of Pest Control (3 cred.; jr., sr., grad.; prereq. 15 cred. in ent. including Ent. 5, or consent of instructor)	III	MWF		Mr. Aamodt
177s	Insecticides and Their Action (4 cred.; sr., grad.; prereq. 15 cred. in ent. including Ent. 5 or equiv., or consent of instructor; inorganic and organic chemistry)	VI	MWF		Mr. Cutkomp
		VI, VII, VIII	F		
197f,w,s,su	Introduction to Research (5 or more cred.; sr., grad.; prereq. work as prescribed by the division)	Ar	Ar	Ar	Mr. Mickel, Mr. Burroughs, Mr. Cutkomp, Mr. Granovsky, Mr. Haydak, Mr. Hodson, Mr. Marshall, Mr. Richards, Mr. Smith

*Courses for Graduate Students Only*

200	Seminar. Assigned topics, each term dealing with some special field of work of the division	Ar	Ar	Ar	Ar
201-204	Research in Systematic Entomology	Ar	Ar	Ar	Mr. Mickel
205-208	Research in Insect Transmission of Plant Diseases	Ar	Ar	Ar	Mr. Granovsky
209-212	Research in Soil Insect Ecology	Ar	Ar	Ar	Mr. Granovsky
213-216	Research in Insect Ecology	Ar	Ar	Ar	Mr. Hodson
217-220	Research in Forest Entomology	Ar	Ar	Ar	Mr. Hodson
221-224	Research in Economic Entomology	Ar	Ar	Ar	Mr. Cutkomp, Mr. Granovsky, Mr. Hodson
225-228	Research in Insect Physiology	Ar	Ar	Ar	Mr. Richards
229-232	Research in Insect Histology	Ar	Ar	Ar	Mr. Richards
233-236	Research in Economic Vertebrate Zoology	Ar	Ar	Ar	Mr. Marshall
237-240	Research in Fish Management	Ar	Ar	Ar	Ar

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

261-264	Research in Medical Entomology	Ar	Ar Ar	Mr. Burroughs
265-268	Research in Insecticides	Ar	Ar Ar	Mr. Richards
269-272	Research in Apiculture	Ar	Ar Ar	Mr. Haydak

## FOOD TECHNOLOGY§

51f,52w†	Food Analysis (2 cred. per qtr.; jr., sr.; prereq. Agr.Biochem. 2 and 3)	VI, VII, VIII	TThS 102SnH	Ar
101f-102w†	Food Technology (3 cred. per qtr.; jr., sr., grad.; prereq. Agr.Biochem. 3 and 52; Bact. 53; and a course in physics)	II	TThS 116SnH	Ar
104w	Frozen Food Processing and Storage (3 cred.; jr., sr., grad.)	IV	MWF 102Hr	Mr. Winter

## FORESTRY

*Junior College Courses*

1f	General Forestry (3 cred.; no prereq.)	V	MWF AudGH	Ar
3w	Dendrology (3 cred.; no prereq.)	II	MWF AudGH	Mr. Rees
4s	Dendrology (4 cred.; no prereq.)	II	MWF AudGH	Mr. Rees
	Lect.	VI-VII-VIII	Ar Ar	Mr. Rees
	Lab.			
5su	Field Silviculture (½ cred.; no prereq.)		Given at Itasca Park	Ar
6su	Field Mensuration (1½ cred.; no prereq.)		Given at Itasca Park	Mr. Brown
7f-8w-9s	Forest Mensuration (9 cred.; all; prereq. 6, Math. 1 and 6)	IV	MW AudGH	Mr. Brown
	Lect.	VI, VII, VIII	M 206GH	
	Lab. Sec. 1	VI, VII, VIII	W 206GH	
	2	II, III, IV	S 206GH	
	3			
10w	Farm Forestry (3 cred.; not open to students majoring in forestry; no prereq.)	VI	MWF	Ar
11su	Camp Management (1 cred.; no prereq.)		Given at Itasca Park	Mr. Brown
20w	Grazing (3 cred.; soph., jr., sr.; no prereq.)	II	TThS	Mr. Allison
49s	House and Furniture Woods (2 cred.; soph., jr., sr.; not open to students majoring in forestry; no prereq.)	III, IV	TS	Mr. Rees

*Senior College and Graduate Courses*

53f-54w	Wood Structure and Identification (6 cred.; jr., sr.; prereq. 3, 4)	VI, VII, VIII	WF 211GH	Mr. Rees
	Lab. Sec. 1	VI, VII, VIII	TTh 211GH	Mr. Rees
	2			
56f	Forest Products (3 cred.; jr., sr.; no prereq.)	I	MWF 201GH	Mr. Kaufert
57w	Wood Utilization (3 cred.; sr.; prereq. 53-54)	I	MWF	Mr. Kaufert
58f	Lumber Merchandising and Grading (3 cred.; sr.; prereq. 53-54)	III	MWF 201GH	Mr. Kaufert

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ A laboratory fee of \$5 is required for each quarter of this course. The \$5 card purchased from the cashier's office, University Farm, must be presented before laboratory space will be assigned. A \$5 breakage card against which breakage can be charged must be purchased also.

§ See the course offerings in Agricultural Biochemistry, Bacteriology, Botany, Chemistry, Chemical Engineering, Dairy Husbandry, Plant Pathology, Zoology, and other departments, for additional subject-matter courses of interest to students majoring in Food Technology.

101w	Advanced Dendrology (3 cred.; jr., sr., grad.; prereq. 3, 4)	Ar	Ar	Mr. Rees
113w	Wood Pulp and Paper (3 cred.; jr., sr., grad.)	IX	MWF	Mr. Hossfeld
114f	Mechanical and Physical Properties of Wood (3 cred.; jr., sr., grad.; prereq. 53-54, Math. 7)	I	TThS 201GH	Mr. Rees
115w-116s	Mechanical and Physical Properties of Wood (6 cred.; jr., sr., grad.; prereq. 114)	I, II	TThS	Mr. Rees
	115w	VI, VII, VIII	MW	Mr. Rees
	116s			
119s	Advanced Wood Structure I (4 cred.; sr., grad.; prereq. 53-54)	IX	T	Mr. Kaufert
	Lect.	VI, VII, VIII	TTh	
	Lab.			
120s	Estimating (3 cred.; sr., grad.)	IV	MWF	Ar
125s	Wood Preservation (3 cred.; jr., sr., grad.; prereq. 53-54)	III	TThS	Mr. Kaufert
126f	Silvics (3 cred.; sr., grad.; no prereq.)	III	MWF 203GH	Mr. Cheyney
128s	Silviculture Laboratory (6 cred.; sr., grad.)	Given at Cloquet		Mr. T. Schantz-Hansen
131w	Forest Policy (3 cred.; sr., grad.)	IV	MTWFS	Mr. Allison
132s	Forest Management Laboratory (6 cred.; sr., grad.)	Given at Cloquet		Mr. Allison
136f	Forest Economics (3 cred.; jr., sr., grad.; prereq. Agr.Econ. 2)	IV	TThS 201GH	Mr. Allison
137w	Seeding and Planting (3 cred.; jr., sr., grad.)	III	TThS	Ar
142s	Wood Chemistry (3 cred.; jr., sr., grad.; prereq. Org.Chem. 156, 159; For. 53-54)	II	MWF	Mr. Hossfeld
144s	Forage and Browse Plants (3 cred.; jr., sr., grad.; prereq. Bot. 113 and Pl.Path. 4)	Ar	Ar	Ar
151s	Logging (3 cred.; jr., sr., grad.)	V	MWF	Mr. Zivnuska
152a	Wood Seasoning (3 cred.; jr., sr., grad.; prereq. 53-54)	I	TThS	Mr. Rees
155f	Forest Protection (3 cred.; jr., sr., grad.)	II	MWF 201GH	Mr. Zivnuska

*Master of Forestry and Graduate Courses*

111f,w,s- 112w,s	Advanced Forest Mensuration (6 cred.; grad.; prereq. 9)	VI, VII, VIII, IX	T 206GH	Mr. Brown
	Lect. 111f,w,s	VI, VII, VIII, IX	Th 206GH	
	Lab. 112w,s			
127f	Silviculture (3 cred.; prereq. 126; grad.)	II	MWF 203GH	Ar
130f	Forest Valuation (5 cred.; grad.)	I	MTWThF 203GH	Mr. Allison
140w	Forest Management (5 cred.; grad.; prereq. 128-132)	III	MTWThF	Mr. Allison
141w	Principles of Silvics (3 cred.; grad.; prereq. 126, 127)	II	TThS	Ar
143w	Forest Recreation (3 cred.; grad.)	IV	MWF	Ar
156-157f,w,s	Major Report (2 cred. per qtr.; grad.)	Ar	Ar Ar	Staff
158-159f,w,s	Forestry Seminar (1 cred. per qtr.; grad.)	Ar	Ar Ar	Staff



*Courses for Graduate Students Only*

201-202	Research Problems in the Science and Practice of Silviculture	Mr. T. Schantz-Hansen
203-204	Research Problems in Forest Management	Mr. Allison, Mr. Zivnuska
205-206	Research Problems in Forest Economics	Mr. Allison, Mr. Zivnuska
207-208-209	Research Problems in Wood Technology	Mr. Hossfeld, Mr. Kaufert, Mr. Rees
213-214-215	Special Problems in Forest Utilization	Mr. Hossfeld, Mr. Kaufert, Mr. Rees
218-219	Research Problems in Forest Mensuration	Mr. Brown
223-224-225	Literature Seminar. Assigned topics with special reference to current forestry problems. Critical and historical review of current forestry literature. (1 cred. per qtr.)	Staff

## HOME ECONOMICS

Students on the Minneapolis campus who want to take Courses 1, 2, 20, 30, 31, 34, 56A-56B, 120 may register for them on their regular registration days provided they get written permission in 106 Folwell Hall.

Students on the Minneapolis campus who wish to take other home economics courses must have the written approval of the chief of the Division of Home Economics. It is expected that all students will meet the prerequisites for the courses selected unless written exemption is obtained from the chief of the Division of Home Economics.

Students on the Minneapolis campus who wish to take courses in related art should choose their courses according to the following sequences which have been planned to accommodate non-majors.

1. H.E. 56A,B, H.E. 120.
2. H.E. 20, H.E. 56B, H.E. 120.
3. SLA F.L. 15, H.E. 120.

Other related art courses are required of Home Economics majors only; since facilities are limited, these courses are usually filled so that they are difficult for non-majors to schedule.

*Junior College Courses*

1f	Choice and Care of Clothing (4 cred.; fr.; not open to seniors; not open to men; not open to students having had Gen. Coll. 15A; no prereq.) (Limited to 50)	
	Sec. 1	III MTWTh 313HE Miss Bayor
	2	IV MTWTh 313HE Miss Bayor
1w	Choice and Care of Clothing (Same as 1f) (Limited to 50) (Not open to men)	
	Sec. 1	II MTWTh Miss Bayor
	2	III MTWTh Miss Bayor
1s	Choice and Care of Clothing (Same as 1f) (Limited to 50)	
		II MTWTh Miss Bayor
2f	Introduction to Textiles (3 cred.; for S.L.&A., Bus.Adm., and ArtEd.; no prereq. Permission must be obtained from the Junior College office, 106 Folwell Hall) (Limited to 30)	
		VI, VII MWF 307HE Miss Bayor

3f	Clothing Construction A (3 cred.; fr., soph.; prereq. 1) (Limited to 20)				
	Sec. 1	III, IV	MWF	304HE	Ar
	2	VI, VII, VIII	TTh	304HE	Ar
3w	Clothing Construction A (Same as 3f) (Limited to 20)				
	Sec. 1	VI, VII	MWF		Ar
	2	VI, VII, VIII	TTh		Ar
3s	Clothing Construction A (Same as 3f) (Limited to 20)				
	Sec. 1	III, IV	MWF		Ar
	2	VI, VII, VIII	TTh		Ar
4f	Clothing Construction B (3 cred.; soph., jr.; prereq. 3) (Limited to 20)				
	Sec. 1	VI, VII	MWF	304HE	Ar
	2	VI, VII, VIII	TTh	305HE	Miss Gorham
4w	Clothing Construction B (Same as 4f) (Sections limited to 20 each)				
	Sec. 1	II, III	MWF		Ar
	2	VI, VII, VIII	TTh		Miss Gorham
4s	Clothing Construction B (Same as 4f) (Limited to 20)				
		VI-VII	MWF		Mrs. Laws
6f,w,s	Institution Experience (3 cred.; no prereq.; fr.; each section limited to 3. Institution management majors, consent of instructor)				
		Ar	Ar	Cafeteria	Miss Dunning
10s	Vocational Opportunities in Home Economics (2 cred.; fr. only; no prereq.)	II	TTh		Miss McNeal and heads of sections
14w,s	Nutrition and Food Management (Same as Family Life 14w,s on page 44. Not open to students registered in the College of Agriculture, Forestry, and Home Economics)				
15f,w,s	The Home and Its Furnishing (Same as Family Life 15f,w,s on page 44. Not open to students registered in the College of Agriculture, Forestry, and Home Economics)				
17f	Personal and Family Living (3 cred.; fr., soph., jr., sr.; no prereq.) (Sections limited to 40)				
	Sec. 1	II	MWF	213HE	Miss Studley
	2	IV	MWF	213HE	Miss Studley
17w,s	Personal and Family Living (Same as 17f)				
	Sec. 1	IV	MWF		Miss Studley
	2	V	MWF		Miss Studley
20f	Introduction to Related Art (4 cred.; fr.; not open to seniors; no prereq.) (Limited to 50)				
	Sec. 1	II	MTWF	203HE	Miss Myren
	2	III	MTWF	203HE	Miss Myren
20w	Introduction to Related Art (Same as 20f)				
		II	MTWTh		Miss Myren
20s	Introduction to Related Art (Same as 20f)				
	Sec. 1	II	MWFS		Miss Myren
	2	III	MTWTh		Ar
21f	Color and Design I (3 cred.; prereq. 20) (Limited to 24)				
	Sec. 1	II, III	MWF	402HE	Ar
	2	VI, VII, VIII	TTh	402HE	Ar
21w	Color and Design I (Same as 21f) (Sections limited to 24 each)				
	Sec. 1	VI, VII	MWF		Miss Myren
	2	VI, VII, VIII	TTh		Ar
21s	Color and Design I (Same as 21f) (Limited to 24)				
	Sec. 1	II, III	MWF		Miss Walter
	2	VII, VIII, IX	TTh		Miss Myren
22f	Color and Design II (3 cred.; all; prereq. H.E. 1, 20) (Sections limited to 24 each)				
	Sec. 1	II, III	TThS	402HE	Miss Walter
	2	II, III	TThS	304HE	Ar
22w	Color and Design II (Same as 22f) (Sections limited to 24 each)				
	Sec. 1	II, III	MWF		Miss Walter
	2	VI, VII, VIII	TTh		Miss Myren
22s	Color and Design II (Same as 22f) (Sections limited to 24 each)				
	Sec. 1	VI, VII	MWF		Ar
	2	VI, VII, VIII	TTh		Miss Walter
23w	Advanced Design (3 cred.; soph., jr.; prereq. 21 or 22) (Limited to 24)				
		II, III	TThS		Miss Walter

24f	Problems in Home Planning and Furnishing (5 cred.; soph.; prereq. 20) (Limited to 24)	VI, VII, VIII	MWF	401HE	Miss Myren
24s	Problems in Home Planning and Furnishing (Same as 24f)	II, III	MTWF		Miss Paulsen
	Sec. 1	IV, V	MTWF		Miss Myren
25s	Design Applied to Crafts (3 cred.; prereq. 21 or 22) (Limited to 24)	III, IV	TThS		Miss Walter
27f	Related Art Problems (3 cred.; soph., jr., sr.; prereq. 21) (Limited to 24)	II, III	MWF	401HE	Miss Walter
	Sec. 1	II, III	TThS	401HE	Miss Paulsen
27w	Related Art Problems (Same as 27f) (Sections limited to 24 each)	II, III	MWF		Ar
	Sec. 1	VI, VII, VIII	TTh		Miss Paulsen
	2	VII, VIII	MWF		Miss Paulsen
27s	Related Art Problems (Same as 27f) (Limited to 24)	VI, VII, VIII	TTh		Ar
30s*‡	Introduction to Nutrition (2 cred.; not open to home econ. students; no prereq.)	VI	TTh		Miss Biester
31f	Introduction to Nutrition (3 cred.; fr.; not open to seniors; no prereq.) (Sections limited to 35 each)	III	MWF	213HE	Miss Zander
	Sec. 1	IV	MWF	102Hr	Miss Nymon
	2	II	TThS	213HE	Miss Nymon
	3				
31w	Introduction to Nutrition (Same as 31f) (Limited to 35)	III	MWF		Miss Zander
	Sec. 1	III	TThS		Miss Zander
	2				
31s	Introduction to Nutrition (Same as 31f) (Limited to 35)	III	MWF		Miss Zander
	Sec. 1	VI	MWF		Miss Nymon
	2				
33f	Nutrition I (4 cred.; soph., jr., sr.; prereq. Agr.Biochem. 1, Physiol. 4 or parallel) (Each laboratory section limited to 16)	III	MWF	213,307HE	Miss Nymon
	Lect.				
	Lab.	VI, VII, VIII	T		
34f	Nutrition Problems (4 cred.; 3rd qtr. soph., jr., sr.; prereq. 31, 40, physiol. or human biol.) (Limited to 50)	IV	MTWF	106HE	Miss Zander
34s	Nutrition Problems (Same as 34f) (Limited to 50)	II	MTWTh		Miss Nymon
35w	Nutrition II (4 cred.; soph., jr., sr.; prereq. 33) (Each lab. section limited to 16)	II	MWF		Miss Nymon
	Sec. 1	VI, VII, VIII	T		Miss Nymon
40f,w,s	Food Preparation (5 cred.; prereq. 2 qtr. chem.) (Sections limited to 20 each)	III, IV	MTWThF	103HE	Mrs. Briggs
	Sec. 1	VI, VII	MTWThF	103HE	Ar
	2	VIII, IX	MTWThF	103HE	Ar
41f	Food Management and Marketing (5 cred.; soph., jr., sr.; prereq. 31, 40) (Sections limited to 16 each)	III, IV	MTWF	207HE	Miss Turnbull
	Sec. 1	V	TF		
	2	VII, VIII	TWThF	207HE	Mrs. Briggs
		IX	TTh		
41w	Food Management and Marketing (Same as 41f) (Sections limited to 16 each)	III, IV	MTWF		Miss Turnbull
	Sec. 1	V	WF		
	2	VII, VIII	TWThF		Mrs. Briggs
		IX	TTh		

\* Offered on the Minneapolis campus.

‡ Intended for students in Science, Literature, and the Arts. Open to students in Home Economics only by special permission of chief of division.

41s	Food Management and Marketing (Same as 41f) (Sections limited to 16 each)				
	Sec. 1	III, IV V	MTWF TF	207HE	Miss Turnbull
	2	III, IV V	MTWF MW		Mrs. Briggs
	3	VII, VIII IX	MThF TTh		Ar
45ff	Quantity Cookery (6 cred.; soph., jr., sr.; prereq. 40, 41) (Limited to 12)				
	Lect.	V	TTh	213HE	Miss Ames
	Lab.	8-11 o'clock	TThS	Cafeteria	Miss Ames
45w,s	Quantity Cookery (Same as 45f) (Sections limited to 12 each)				
	Lect.	V	TTh		Miss Ames
	Lab. Sec. 1	8-11 o'clock	TThS		Miss Ames
	2	8-11 o'clock	MWF		Miss Ames
46f,w,s	Cafeteria Experience (3 cred.; soph., jr., sr.; no prereq.) (Sections limited to 10)				
	Lect.	IV (f,w) III (s)	W	Cafeteria	Miss Dunning
	Lab. Sec. 1	IV, V	MF	Cafeteria	Miss Dunning
	2	IV, V	TTh	Cafeteria	Miss Dunning

### Senior College Courses

50f	Textiles (3 cred.; jr., sr.; prereq. 1) (Sections limited to 30 each)	III, IV	TThS	307HE	Miss Gorham
50w	Textiles (Same as 50f) (Sections limited to 30 each)				
	Sec. 1	III, IV	MWF		Miss Gorham
	2	VI, VII	MWF		Miss Bayor
50s	Textiles (Same as 50f) (Sections limited to 30 each)				
	Sec. 1	III, IV	MWF		Miss Gorham
	2	III, IV	TThS		Miss Bayor
53f	Advanced Clothing (3 cred.; jr., sr.; prereq. 4, 50 or parallel) (Limited to 20)				
		IV, V	MWF	305HE	Miss Gorham
53w,s	Advanced Clothing (3 cred.; jr., sr.; prereq. 4, 50 or parallel) (Limited to 20)				
		VI, VII	MWF		Miss Gorham
54s	Problems in Clothing Construction (3 cred.; jr., sr.; prereq. 53 or permission of instructor)				
		V, VI, VII	TTh		Miss Gorham
56Af-56Bs	Applications of Color and Design (3 cred. each; not open to home econ. students; no prereq.; courses must be taken in the sequence indicated. Written permission must be obtained from the Junior College office, 106 Folwell Hall) (Limited to 24)				
	56Af	VI, VII, VIII	TTh	401HE	Ar
	56Bs	VI, VII	MWF	402HE	Ar
64f	Institution Buying (4 cred.; jr., sr.; prereq. 45 and 46. May parallel one or the other.)				
	Lect.	I	MWF	313HE	Miss Ames
	Field trips	1-4 o'clock	F		
65s	Institution Management Problems (3 cred.; jr., sr.; prereq. 45, 46, 64)				
	Lect.	III	ThS		Miss Dunning
	Lab.	III, IV	T		Miss Dunning
70w	Advanced Food Preparation (3 cred.; jr., sr.; prereq. Agr. Biochem. 1, H.E. 40) (Limited to 16)				
		VI, VII, VIII	TTh		Miss Turnbull
71	Demonstrations (1 cred.; open to 3rd qtr. jr., sr.; prereq. 41) ( <i>Not offered in 1947-48</i> )				
76*	Nutrition (3 cred.; not open to home econ. students; for public health nurses only; prereq. permission of instructor ( <i>Not offered in 1947-48</i> ))				
79s	Selected Problems for Dietitians (3 cred.; jr., sr.; prereq. 170 or equiv.)				
		II	MWF		Miss Biester
85f,w,s	Home Management: Operation and Maintenance, Lectures (4 cred.; jr., sr.; prereq. H.E. 40, H.E. 41 advised)				
		VII VIII	MWF M	203HE	Miss Jeary

\* Offered on the Minneapolis campus.

|| Open only to home economics students registered in the College of Agriculture, Forestry, and Home Economics.

86f,w,s†	Home Management: Operation and Maintenance, Laboratory (4 cred.; jr., sr.; prereq. 85 or parallel, H.E. 40, H.E. 41 advised, Public Health 52a and b) (Sections limited to 12 each)					
	Sec. 1	1st half of quarter	I and	S	Home	Miss Studley
	2	2nd half of quarter	other hours		Mgt.	Miss Jeary
					House	
98	<i>Home Economics Extension</i> (3 cred.; jr., sr.; prereq. H.E.Ed. 91 or parallel) ( <i>Not offered in 1947-48</i> )					
102f	Advanced Textiles (3 cred.; jr., sr., grad.; prereq. 50, Agr.Biochem. 4, Agr.Econ. 3 or parallel) (Limited to 16)					
			VI, VII, VIII	TTh	307,311HE	
						Miss Phelps
107w	Textile Analysis (3 cred.; jr., sr., grad.; prereq. H.E. 50, Agr.Biochem. 1 and 2)		VI, VII, VIII	MWF		Miss Phelps
115s	Economic and Social Aspects of Clothing (3 cred.; jr., sr., grad.; prereq. 50 and Princ. of Econ.)		IX	MWF		Ar
116f	Family Clothing Problems (3 cred.; jr., sr., grad.; prereq. H.E. 3, H.E. 50)		Ar	Ar	Ar	Ar
120w,s	Art History and Appreciation (3 cred.; open to jr., sr., and grad. students only)		VIII	MWF		Ar
121f	Textile Design (3 cred.; jr., sr., grad.; prereq. 27, 50) (Limited to 24)		VI, VII	MWF	402HE	Miss Walter
122w	Advanced Interior Design (3 cred.; jr., sr., grad.; prereq. 27, 120 or permission of instructor) (Limited to 20)		I, II, III	TThS		Miss Esteros
125w	Advanced Costume Design (3 cred.; jr., sr., grad.; prereq. 3 or permission of instructor, 22, 25 recommended) (Limited to 20)		IV, V	MWF		Miss Walter
142f¶	Experimental Cookery (3 cred.; jr., sr., grad.; prereq. 40, Agr.Biochem. 1) (Sec. 1 limited to 12; Sec. 2 limited to 8)		VI, VII, VIII	MW	107HE	Miss Turnbull
	Sec. 1		VI, VII, VIII	TTh	107HE	Miss Noble
	2		VI, VII, VIII	TTh		Mrs. Briggs
142s¶	Experimental Cookery (Same as 142f) (Limited to 12)		VI, VII, VIII	MW		Miss Noble
146s¶	Special Food Problems (3 cred.; sr., grad.; prereq. 142) (Limited to 16)		VI, VII, VIII	MW		Miss Noble
170f	Nutrition of the Family (3 cred.; jr., sr., grad.; prereq. 31, 40, Agr.Biochem. 1, Physiol. 3 cred.) (Limited to 40)		II	MWF	106HE	Miss Biester
170w	Nutrition of the Family (Same as 170f) (Limited to 40)		II	MWF		Miss Leichsenring
171w,s	Child Nutrition (3 cred.; jr., sr., grad.; prereq. 170, H.E.Ed. 90) (Limited to 30)		III	MW		Miss Leichsenring
	Lect.		III*	F		
	Lab.		IV*	(See instructor before completing registration)		
173s¶	Nutrition in Disease (4 cred.; jr., sr., grad.; prereq. 170; 35 also advised) (Each lab. section limited to 20)		II	TThS		Miss Zander
	Lect.		VI, VII	F		Miss Zander
	Lab. Sec. 1		VIII, IX	F		Miss Zander
	2					
176w	Advanced Nutrition (4 cred.; jr., sr., grad.; prereq. 35 or parallel, Agr.Biochem. 2) (Limited to 12)		IV	MW		Miss Biester
	Lect.		II, III, IV	TTh		
	Lab.					

\* Offered on the Minneapolis campus.

† Students registering for H.E. 86 must not register for a first hour class.

¶ Open only to home economics students registered in the College of Agriculture, Forestry, and Home Economics.

177s	Digestion and Metabolism (3 cred.; jr., sr., grad; prereq. 35) (Limited to 15)	VI, VII, VIII	MW	Miss Leichsenring
178f,w,s <sup>†</sup> *	Clinical Problems in Nutrition (2 cred.; jr., sr., grad.; prereq. 170, 35 or parallel) (Each lab. section limited to 6) (See instructor before completing registration)			
	Lect.	V	M	313HE Miss Zander
	Lab. Sec. 1	VI, VII, VIII*	T	Ar
	2	VI, VII, VIII*	Th	Ar
179f	Readings in Nutrition (2 cred.; jr., sr., grad.; prereq. 170) (Limited to 15)	III	TTh	106HE Miss Biester
179w	Readings in Nutrition (Same as 179f) (Limited to 15)	V	WF	Miss Nymon
179s	Readings in Nutrition (Same as 179f) (Limited to 15)	IV	MW	Miss Nymon
180f,w	Home Planning and Furnishing (5 cred.; jr., sr., grad.; prereq. 27; 120 recommended) (Limited to 24)	IV, V	MTWF	401HE Ar
180s	Home Planning and Furnishing (Same as 180f)	VI, VII, VIII	MW	Ar
		VI, VII	F	
185	<i>Family Relationships</i> (2 cred.; jr., sr., grad.; prereq. 86 or parallel, H.E.Ed. 90) (Not offered in 1947-48)			
186s	Problems in Income Management (3 cred.; jr., sr., grad.; prereq. 85 or parallel, 86 or parallel, 34 or equiv.)	VII	MWF	Miss Studley

#### *Courses for Graduate Students Only*

202	Animal Fibers (2 cred.; grad.; prereq. adv. textiles; consent of instructor)	Ar	Ar	Ar	Miss Phelps
204	Plant and Other Cellulosic Fibers (2 cred.; grad.; prereq. botany, adv. textiles; consent of instructor)	Ar	Ar	Ar	Miss Phelps
208	Microanalysis of Textile Fibers (2 or 3 cred.; grad.; prereq. botany and zoology, adv. textiles; consent of instructor)	Ar	Ar	Ar	Miss Phelps
209 <sup>†</sup> f,w,s	Seminar in Textiles and Clothing (1 cred.; grad.; consent of instructor)	Ar	Ar	Ar	Miss Phelps
247	Special Food Problems (3 cred.; consent of instructor)	Ar	Ar	Ar	Miss Noble
249 <sup>§</sup>	Seminar in Foods (1-2 cred.; consent of instructor)	Ar	Ar	Ar	Miss Noble
270 <sup>§</sup> -271	Principles of Human Nutrition (3 cred. per qtr.; consent of instructor; 271 not offered in 1947-48)	Ar	Ar	Ar	Miss Leichsenring
279 <sup>§</sup> w,s	Seminar in Nutrition (1 cred.; consent of instructor)	Ar	Ar	Ar	Miss Biester
295-296f,w,s	Home Economics Problems (1-5 cred.; consent of instructor)	Ar	Ar	Ar	Ar
299f,w,s	Home Economics Problems (1 cred.; consent of instructor)	Ar	Ar	Ar	Ar

#### HOME ECONOMICS EDUCATION

See page 118.

\* Class meets on Minneapolis campus.

<sup>†</sup> Open only to home economics students registered in the College of Agriculture, Forestry, and Home Economics.

<sup>§</sup> This course may be taken for independent study under Plan B for the Master's degree.

## HORTICULTURE

*Junior College Courses*

1w	General Horticulture (3 cred.; no prereq.)	III	TThS	Mr. Alderman, Mr. Weir
6f	Fruit Growing (3 cred.; no prereq.)	II	MWF 102Hr.	Mr. Brierley
10s	Home Floriculture (3 cred.; [2 cred. only if Hort. 56 has been taken]; no prereq.)	III	MWF	Mr. Phillips
	1 extra lab. hr. ar			
12f	Commercial Floriculture, Fall Crops (3 cred.; prereq. Bot. 6 cred. or equiv.)	VI, VII, VIII	T 8Hr	Mr. Longley
		VI, VII	Th	
14	Commercial Floriculture, Spring Crops (3 cred.; prereq. Bot. 6 cred. or equiv.) (Offered in alternate years)	VI, VII	T 8Hr	Mr. Longley
		VI, VII, VIII	Th	
21f	Plant Materials, Fall and Winter Aspects (3 cred.; prereq. Bot. 9 cred. or equiv.)	VI, VII, VIII	MW 8aHr	Mr. Longley
22s	Plant Materials, Spring and Summer Aspects (3 cred.; prereq. Bot. 9 cred. or equiv.)	VI, VII, VIII	MW	Mr. Longley
24f	Principles of Landscape Design (3 cred.; prereq. 21 or 22 or instructor's permission)	VI, VII, VIII	MF 107Hr	Mr. Phillips
25w	Principles of Planting Composition (3 cred.; prereq. 21 or 22 or instructor's permission)	VI, VII, VIII	MF	Mr. Phillips
32s	Vegetable Growing (3 cred.; Bot. 6 cred.)	II	MWF	Mr. Krantz, Mr. Hutchins
40s	Horticulture Laboratory (2 cred.; soph., jr., sr.; prereq. 6 or instructor's permission)	VI, VII, VIII, IX	Ar	Mr. Weir

*Senior College Courses*

51s	Garden Flowers (3 cred.; jr., sr.; prereq. Bot. 9 cred. and instructor's permission)	VI, VII, VIII	T	Mr. Phillips
		VI, VII	Th	
56w	Plant Propagation (3 cred. [2 cred. if Course 10 has been taken]; jr., sr.; prereq. Bot. 6 cred. or equiv.) <i>(Offered in alternate years)</i>	VI, VII, VIII	T	Mr. Longley
		VI, VII	Th	
107f	Orchard Management (3 cred.; jr., sr., grad.; prereq. 6, limited to major or minor students in Horticulture or instructor's permission) <i>(Offered in alternate years)</i>	III	TTh 102Hr	Mr. Brierley
		VI, VII	T	
110w	Horticultural Crop Breeding (3 cred.; jr., sr.; grad.; prereq. Agron. 31)	III	TThS	Mr. Wilcox
111	<i>Systematic Pomology</i> (3 cred.; jr., sr., grad.; prereq. 6, Bot. 9 cred. or equiv. Limited to major or minor students in Horticulture or instructor's permission) <i>(Not offered in 1947-48. Offered in alternate years)</i>			
121w	Small Fruit Culture (3 cred.; jr., sr., grad.; prereq. 6 or 32, Bot. 9 cred. or equiv. Limited to major or minor students in Horticulture or instructor's permission)	II	MWF	Mr. Brierley
135f	Potatoes (3 cred.; jr., sr., grad.; prereq. 32, Bot. 9 cred. or equiv.)	Ar	Ar 302Hr	Mr. Krantz
136f	Adaptation and Maintenance of Vegetable Varieties (3 cred.; jr., sr., grad.; prereq. 32, Bot. 9 cred. or equiv.)	Ar	Ar 302Hr	Mr. Currence
138	<i>Vegetable Crops I</i> (3 cred.; jr., sr., grad.; prereq. 32, Bot. 9 cred. or equiv.) <i>(Not offered in 1947-48. Offered in alternate years)</i>			
139w	<i>Vegetable Crops II</i> (3 cred.; jr., sr., grad.; prereq. 32, Bot. 9 cred. or equiv.) <i>(Offered in alternate years)</i>	Ar	Ar 302Hr	Mr. Nylund

153	Conservatory Plants and Florists' Flowers (3 cred.; jr., sr., grad.; prereq. Bot. 9 cred. or equiv.) (Not offered in 1947-48. Offered in alternate years)				
176	Landscape Construction and Maintenance (3 cred.; sr., grad.; prereq. 24 or 25, or instructor's permission) (Not offered in 1947-48. Offered in alternate years)				
190f-191w-192s	Special Problems (2 to 4 cred. per qtr.; jr., sr., grad.; prereq. instructor's permission)	Ar	Ar	Ar	Mr. Alderman and staff
193f-194w	Horticultural Seminar (1 cred. per qtr.; sr., grad.; prereq. Hort. 9 cred.)	IX	W	106H	Horticultural staff

(See also courses under Food Technology)

*Courses for Graduate Students Only*

241w	Organization of Horticultural Research (2 cred.)	Ar	Ar	Ar	Mr. Alderman, Mr. Krantz
243f§-244w§	Advanced Topics in Horticulture (3 cred. per qtr.)	Ar	Ar	106Hr	Mr. Alderman, Mr. Brierley, Mr. Krantz, Mr. Longley
247f,w,s,su§	Report on Special Horticultural Topics (9 cred. or less)				Graduate School staff in Horticulture
248w	Truck Crop Breeding (3 cred.; prereq. 110 or Agron. 132)	Ar	Ar		Mr. Currence
249f,w,s,su§	Research in Horticultural Crop Breeding (Cred. ar.)				Mr. Krantz, Mr. Currence, Mr. Hutchins, Mr. Wilcox

MUSIC

See Music, Courses UF43f-44w-45s, University Farm Music Ensembles—Vocal and Instrumental, page 65.

For other courses, see Music, page 65.

ORIENTATION

1f,w,s	College Orientation Lectures (1 cred.) (Students must register for this course in their first quarter in college)	V	M		AudAd(UF)
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PLANT PATHOLOGY AND BOTANY

*Junior College Courses*

1f	Plant Pathology (5 cred.; soph., jr., sr.; no open to students who have taken Course 10; prereq. 9 cred. in plant sciences of which at least 6 shall be in botany)	VII, VIII, IX	MWF	103, 105PP	Mr. Moore
1s	Plant Pathology (Same as 1f)	VII, VIII, IX	MWF		Mr. Moore
3s	Weeds (3 cred.; soph., jr., sr.; prereq. Bot. 6 cred.) (Each section limited to 40 students)				
	Sec. 1 Lect.	III		TTh	Mr. Larson
	Lab.	III, IV		T	
	Rec. and quiz	III, IV		S	
	2 Lect.	IV		T	
	Lab.	III		ThS	
	Rec. and quiz	IV		S	

§ This course meets the nine-hour requirement.



4f	Grasses and Sedges (3 cred.; soph., jr., sr.; prereq. Bot. 9 cred. or equiv.)	III	TThS	106AgrBot	Mr. Larson
		IV	TS	106AgrBot	
9w	Seed Technology and Testing (3 cred.; soph., jr., sr.; prereq. Bot. 9 cred. or equiv.)	II, III	TThS		Mr. Larson
10w	Forest Pathology (5 cred.; soph., jr., sr.; not open to those who have completed Course 1; prereq. Bot. 6 cred.)	VII, VIII, IX	MWF		Mr. C. Christensen
10s	Forest Pathology (Same as 10w)	I	MWF		Mr. C. Christensen
		I, II	TThS		

### Senior College Courses

51f,w,s	Special Problems in Forest Pathology (2 to 5 cred.; jr., sr.; prereq. 10)	Ar	Ar	PP	Mr. C. Christensen
53s	Food Plants of Game Animals (3 cred.; jr., sr.; prereq. one yr. of bot. and one yr. of zool. or equiv.)	IV	MWF		Mr. Larson
56f	Introduction to the Study of Fungi (3 cred.; jr., sr.; prereq. 9 cred. in bot. or permission of instructor)	II	MW	107PP	Mr. C. Christensen
		II, III	F		
101f	Special Agricultural Botany (3 or 5 cred.; jr., sr., grad.; prereq. Bot. 9 cred. or equiv.)	Ar	Ar	Ar	Mr. Stakman, Mr. Larson, Mr. Kernkamp
102w	Physiology of Seeds (3 cred.; jr., sr., grad.; prereq. Bot. 51 or equiv.)	II	MW		Mr. Landon
		I, II	F		Mr. Larson
104w	Industrial Mycology (3 cred.; jr., sr., grad.; prereq. Pl.Path. 56 or 1 or 10)	II	MW		Mr. C. Christensen
		II, III	F		
105f-106w-107s	Mycology (3 or 5 cred. per qtr.; jr., sr., grad.; prereq. 1 or 10 or equiv.)	VI, VII, VIII	TTh	110PP	Miss Dossdall
110w	Principles of Pathology (5 cred.; jr., sr., grad.; prereq. 1 or 10, Bact. 53)	III, IV	MWF		Mr. Stakman, Mr. Eide
111w	Diseases of Field Crops (4 cred.; jr., sr., grad.; prereq. 1 or 10)	VI, VII	MWF		Mr. J. J. Christensen, Mr. Kernkamp
112	<i>Diseases of Fruit and Vegetable Crops</i> (3 cred.; jr., sr., grad.; prereq. 1 or 10) (Not offered. Offered in alternate years)				
114w	Advanced Forest Pathology (3 cred.; jr., sr., grad.; prereq. 1 or 10)	VI	T		Mr. C. Christensen
		VI, VII, VIII	Th		
117f	Virus Diseases of Plants (3 cred.; jr., sr., grad.; prereq. 1 or 10)	III, IV	MWF		Mr. Eide
118	<i>Bacterial Diseases of Plants</i> (3 cred.; jr., sr., grad.; prereq. 1 or 10) (Not offered. Offered in alternate years)				
119s	Principles of Plant Disease Control (3 cred.; jr., sr., grad.; prereq. 1 or 10)	VI, VII, VIII	TTh		Mr. Mader, Mr. Moore
120f,w,s	Advanced Plant Pathology (3 cred.; jr., sr., grad.; prereq. 1 or 10 or equiv.)	VII, VIII, IX	MWF	103, 105PP	Mr. C. Christensen, Mr. Moore
135f	Weed Control (3 cred.; jr., sr., grad.; prereq. Agron. 1 and Pl.Pa. 3)	VI, VII	TTh	202Ag	Mr. Larson, Mr. Dunham

141f-142w	Insects in Relation to Plant Disease (6 cred.; jr., sr., grad.; prereq. 8 cred. in ent. or plant path.)	I, II	MWF 302Ad	Mr. J. J. Christensen, Mr. Granovsky
143f	Methods (3 cred.; jr., sr., grad.; prereq. 1 or 10)	Ar	Ar 104PP	Miss Hart, Mr. Moore
160f	Plant Histochemistry (3 cred.; sr., grad.; prereq. Bot. 51 or equiv.)	Ar	Ar AgrBot	Mr. Landon
161f	Technology of Fruits and Vegetables (3 cred.; sr., grad.; prereq. Bot. 51 or equiv.)	Ar	Ar AgrBot	Mr. Landon
162w	Physiological Relations of Crop Plants to Temperature (3 cred.; sr., grad.; prereq. Bot. 51 or equiv.)	Ar	Ar	Mr. Landon
163s	Applied Plant Physiology (3 cred.; jr., sr., grad.; prereq. Bot. 51 or equiv.)	Ar	Ar	Mr. Landon

*Courses for Graduate Students Only*

203f-204w- 205s-206su	Research in Plant Pathology			Mr. Stakman, Mr. J. J. Christensen, Mr. C. M. Christensen, Miss Dosdall, Mr. Eide, Miss Hart
207f-208w- 209s-210su	Research in Mycology			Mr. Stakman, Mr. C. M. Christensen, Miss Dosdall
211w	History of Plant Pathology			Mr. Stakman
213	Seminar			Mr. Stakman, Mr. J. J. Christensen, Mr. Eide, Miss Hart
215f	Genetics of Plant Pathogens			Mr. Stakman, Mr. J. J. Christensen
216f	Physiology of Plant Pathogens			Mr. Eide
217s	Ecology of Plant Pathogens			Mr. Tervet
250s	Research Methods in Applied Plant Physiology			Mr. Landon
251f-252w-253s	Seminar in Applied Plant Physiology			Mr. Landon
254f-255w- 256s-257su	Research Problems in Applied Plant Physiology			Mr. Landon
258f-259w	Growth Factors in Crop Plants			Mr. Landon
260f,261w, 262s,263su	Research Problems in Agricultural Botany. Special assignment of problems in agricultural botany.			Mr. Larson Mr. Stakman

RHETORIC

*Freshman Courses in Communication Skills*

IMPORTANT NOTE—All freshmen in the College of Agriculture, Forestry, and Home Economics must satisfy certain requirements in four communication skills, and should report to Green Hall Auditorium the first period each day for the first week of every quarter. After a week of diagnosis they will be sectioned according to their needs and abilities. All sections will then continue to meet during the first period, but for only three days a week.

1f†	Communications I (3 cred.)				
	Sec. 1 (Listening)	I	MWF	217En	Mr. Nichols
	2 (Listening)	I	TThS	317En	Mr. Sandquist
	3 (Reading)	I	MWF	311En	Mr. Brown
	4 (Reading)	I	MWF	103En	Mr. Wright
	5 (Reading)	I	TThS	311En	Mr. Brown
	6 (Reading)	I	TThS	103En	Mr. Wright
	7 (Speaking)	I	MWF	310En	Mr. Drake
	8 (Speaking)	I	MWF	Ar	Miss Drafaahl
	9 (Speaking)	I	MWF	107En	Mr. Hagen
	10 (Speaking)	I	TThS	105En	Mr. Drake
	11 (Speaking)	I	TThS	107En	Miss Drafaahl
	12 (Writing)	I	MWF	307En	Mr. Seidenkranz
	13 (Writing)	I	MWF	107Bo	Miss Ekren
	14 (Writing)	I	MWF	113SnH	Ar
	15 (Writing)	I	MWF	116SnH	Mr. Laird
	16 (Writing)	I	TThS	307En	Mr. Seidenkranz
	17 (Writing)	I	TThS	107Bo	Miss Ekren
	18 (Writing)	I	TThS	Ar	Ar
	19 (Writing)	I	TThS	116SnH	Mr. Laird
1w†	Communications I (3 cred.)				
	Sec. 1-2 (Listening)	I	MWF; TThS		Mr. Nichols
	3-4 (Reading)	I	MWF; TThS		Mr. Brown
	5-6 (Speaking)	I	MWF; TThS		Mr. Drake
	7-10 (Writing)	I	MWF		Mr. Seidenkranz
	11-14 (Writing)	I	TThS		Mr. Seidenkranz
1s†	Communications I (3 cred.)				
	Sec. 1 (Listening)	I	MWF		Mr. Sandquist
	2 (Reading)	I	TThS		Mr. Brown
	3-4 (Speaking)	I	MWF; TThS		Mr. Drake
	5-6 (Writing)	I	MWF		Mr. Seidenkranz
	7-9 (Writing)	I	TThS		Mr. Seidenkranz
2f	Communications II (3 cred.)				
	Sec. 1	I	MWF	303En	Miss Thurston
	2	I	MWF	302Hr	Mr. Humphrey
	3	I	TThS	303En	Miss Thurston
	4	I	TThS	302Hr	Mr. Humphrey
2w	Communications II (3 cred.)				
	Sec. 1-4	I	MWF		Miss Thurston
	5-8	I	TThS		Miss Thurston
2s	Communications II (3 cred.)				
	Sec. 1-4	I	MWF		Miss Thurston
	5-7	I	TThS		Miss Thurston
3f	Communications III (3 cred.)				
	Sec. 1	I	MWF	216En	Mr. Woods
	2	I	TThS	216En	Mr. Woods
3w	Communications III (3 cred.)				
	Sec. 1-2	I	MWF		Mr. Woods
	3	I	TThS		Mr. Woods
3s	Communications III (3 cred.)				
	Sec. 1-4	I	MWF		Mr. Woods
	5-8	I	TThS		Mr. Woods

*Other Junior College Courses*

12f†	Debate and Discussion (3 cred.; soph., jr., sr.; prereq. requirement)	Rhetoric communications
	IV	TThS 103En Miss Drafaahl

† A fee of \$1 per quarter is charged for this course.

22f‡	Public Speaking (3 cred.; soph., jr.; prereq. Rhetoric communications requirement) (Sections limited to 20 each)			
	Sec. 1	II	MWF 217En	Miss Drafahl
	2	III	MWF 217En	Mr. Drake
	3	IV	MWF 217En	Mr. Drake
	4	VII	MWF 217En	Ar
	5	II	TThS 217En	Mr. Laird
	6	III	TThS 217En	Mr. Hagen
	7	IV	TThS 217En	Mr. Laird
22w‡	Public Speaking (Same as 22f)			
	Sec. 1-4	II; III; IV; VII	MWF	Miss Drafahl Mr. Nichols
	5-7	II; III; IV	TThS	Mr. Laird
22s‡	Public Speaking (Same as 22f)			
	Sec. 1-4	II; III; IV; VII	MWF	Miss Drafahl
	5-7	II; III; IV	TThS	Mr. Laird
26f,w	Original Writing (3 cred.; soph., jr., sr.; prereq. Rhetoric communications require- ment) (Sections limited to 25 each)			
		III	MWF 311En	Mr. Woods
28w‡	Play Production (3 cred.; soph., jr., sr.; prereq. Rhetoric communications require- ment)			
		III	TThS	Mr. Drake
31f,s	Survey of English Literature I (5 cred.; soph., jr., sr.; prereq. Rhetoric communica- tions requirement) (Limited to 40)			
		III	MTWThF 307En	Miss Thurston
32f,w,s	Survey of English Literature II (3 cred.; soph., jr., sr.; prereq. Rhetoric communica- tions requirement) (Limited to 40)			
		II	TThS 307En	Mr. Humphrey
33f,w,s	American Life in American Literature (3 cred.; soph., jr., sr.; prereq. Rhetoric com- munications requirement) (Limited to 40)			
		II	MWF 307En	Mr. Seidenkranz
34s	Books and Reading (1 cred.; no prereq.) (Limited to 60)			
		IV	F	Mr. Brown

### Junior and Senior Courses

51f,w,s	Exposition (3 cred.; jr., sr.; prereq. Rhetoric communications requirement) (Sections limited to 25 each)			
	Sec. 1	IV	MWF 307En	Miss Thurston
	2	III	TThS 310En	Mr. Humphrey
	3	IV	TThS 307En	Mr. Seidenkranz
54w‡	Advanced Public Speaking (3 cred.; jr., sr.; prereq. 22) (Sections limited to 20 each)			
		IV	TThS	Miss Drafahl
54s‡	Advanced Public Speaking (Same as 54w) (Sections limited to 20 each)			
	Sec. 1-2	II	MWF; TThS	Miss Drafahl, Mr. Drake
59s‡	Advanced Play Production (3 cred.; jr., sr.; prereq. 28 or permission of instructor)			
		III	TThS	Mr. Drake
60f,w,s	Contemporary Literature (3 cred.; jr., sr.; prereq. Rhetoric communications require- ment) (Limited to 40)			
		IV	MWF 311En	Mr. Woods

### SOILS

#### Junior College Courses

4w	Soils (3 cred.; soph., jr., sr.; prereq. Inorg.Chem. 1-2 or 4-5)			
		II	MWF 204So	Mr. Caldwell
5s	Soil Management (3 cred.; soph., jr., sr.; prereq. Soils 4)			
		II	TThS 204So	Mr. Rost

‡ A fee of \$1 per quarter is charged for this course.

*Senior College Courses*

51f	Field and Laboratory Studies of Soils (2 cred.; jr., sr.; prereq. Soils 4)				
	Sec. 1	VI, VII, VIII, IX	M	201So	Mr. Arneman
	2	VI, VII, VIII, IX	T	201So	
103f	Principles of Soil Erosion (3 cred.; jr., sr., grad.; prereq. Soils 4)				Mr. MacGregor
		II	TThS	204So	
104su*	Soils Mapping (3 cred.; jr., sr., grad.; prereq. Soils 108 and 109)				Mr. McMiller
		Ar	Ar	Ar	
107w	Fertilizers (3 cred.; jr., sr., grad.; prereq. Soils 5)				Mr. MacGregor
		I	TThS		
108w	Physical Properties of Soils (3 cred.; jr., sr., grad.; prereq. Soils 4)				Mr. McMiller
	Lect.	VI	T		Mr. McMiller
	Lab.	VII, VIII, IX	T		Mr. McMiller
		VI, VII, VIII	Th		
109s	Soil Genesis and Classification (3 cred.; jr., sr., grad.; prereq. Soils 4 and 108)				Mr. McMiller
		IV	MWF		

*Courses for Graduate Students Only*

202f,w,s,su	Research Problems in Soils‡ (2 to 5 cred.)				
		Ar	Ar	Ar	Ar
203f,w,s	Seminar in Soils (1 cred.)				
		Ar	Ar	101So	Mr. Rost
205w	Soil Colloids (3 cred.; prereq. Biochem. 119)				Mr. Caldwell
		Ar	Ar		
206w	Soil Physics (3 cred.; prereq. Soils 108)				Mr. Caldwell
		Ar	Ar		
207w	Advanced Soils (3 cred.; prereq. Chem. 1 and 2 or 4 and 5)				Mr. Caldwell
		II	MWF		
208s	Soil Fertility (3 cred.; prereq. Soils 4)				Mr. Rost
		II	TThS		

## VETERINARY MEDICINE

*Senior College Courses*

50f-51w-52s†	Anatomy, Physiology, and Hygiene of Domestic Animals (9 cred.; jr., sr.)				
		I	TThS	103Ve	Mr. Boyd, Mr. Kernkamp
103w	Advanced Anatomy of Domestic Animals (4 cred.; sr., grad.; prereq. 50-51-52) (Limited to 9)				Mr. Kernkamp
		Ar	Ar		
109w	Anatomy, Physiology, and Hygiene of Poultry (3 cred.; jr., sr., grad.; prereq. Zool. 14-15, Poul.Husb. 1)				Mr. Fenstermacher, Mr. Pomeroy
		VI	MWF		

*Courses for Graduate Students Only*

105f-106w	Immunological Chemistry (3 cred. per qtr.)				Staff
107f-108w	Comparative Pathology (6 cred.; prereq. Comparative Anat., Comparative Physiol., and Zool. 149-150)				Mr. Boyd, Mr. Kern- kamp, Mr. Fenstermacher, Mr. Pomeroy
201f,w,s	Advanced Animal Pathology (Cred. ar.; prereq. consent of instructor)				

\* Arrangements must be made in advance of registration.

† Course must be taken in sequence 50-51-52 but entire sequence need not be completed in order to receive credit.

205f,w,s	Advanced Animal Bacteriology (Cred. ar.; prereq. consent of instructor)	Mr. Boyd, Mr. Kern- kamp, Mr. Fenstermacher, Mr. Pomeroy
209f,w,s	Advanced Clinical Technique (Cred. ar.; prereq. consent of instructor)	Mr. Boyd, Mr. Kern- kamp, Mr. Fenstermacher, Mr. Pomeroy
213f,w,s	Veterinary Obstetrics and Gynecology (Cred. ar.; prereq. consent of instructor)	Mr. Boyd
217f,w,s	Seminar in Veterinary Medicine (1 cred. per qtr.)	Staff
230f,w,s,su	Research in Veterinary Medicine (Cred. ar.; consent of instructor)	Staff

# SCHOOL OF BUSINESS ADMINISTRATION

## ECONOMICS

### *Junior College Courses*

1f	Industrial History (5 cred.; fr., soph.; no prereq.)								
	Lect.	III		TTh	BuAud				Mr. Heaton
	Sec. 1	I		TThS	115VH				and others
	2	II		MWF	210VH				
	3	III		MWF	112VH				
	4	III		MWF	210VH				
	5	IV		MWF	210VH				
	6	IV		TThS	6VH				
	7	V		MWF	1VH				
	8	VI		MWF	2VH				
	9	VI		MWF	104NH				
	10	VII		MWF	205VH				
	11	VIII		MWF	104NH				
	12	IX		MWF	1VH				
2w	Industrial Production and Organization (5 cred.; fr. only; no prereq.)								
	Lect.	III		TTh					Mr. Filipetti
	Sec. 1	I		TThS					and others
	2	II		MWF					
	3	II		TThS					
	4-5	III; IV		MWF					
	6	IV		TThS					
	7-10	V; VI; VII; VIII		MWF					
3f	Elements of Money and Banking (5 cred.; 2nd and 3rd qtr. fr., soph.; no prereq.)								
	Lect.	VII		TTh	BuAud				Mr. Stehman
	Sec. 1	I		MWF	113VH				and others
	2	I		TThS	113VH				
	3	II		TThS	113VH				
	4	III		TThS	306VH				
	5	IV		MWF	205VH				
	6	IV		TThS	112VH				
	7	V		MWF	2VH				
	8	VI		MWF	112VH				
	9	VI		MWF	210VH				
	10	VII		MWF	112VH				
	11	VIII		MWF	205VH				
	12	IX		MWF	2VH				
3w	Elements of Money and Banking (See 3f)								
	Lect.	VII		TTh					Mr. Stehman
	Sec. 1	I		TThS					and others
	2	II		MWF					
	3	II		TThS					
	4	III		MWF					
	5	IV		MWF					
	6	IV		TThS					
	7-12	V; VI; VII; VIII; IX		MWF					
3s	Elements of Money and Banking (See 3f)								
	Lect.	III		TTh					Mr. Stehman
	Sec. 1	I		TThS					and others
	2-3	II	MWF;	TThS					
	4-5	III		MWF					
	6-7	IV	MWF;	TThS					
	8-15	V-IX		MWF					

5f*	Elements of Statistics (5 cred.; soph.; no prereq.)				
	Lect.	IV	T	BuAud	Mr. Kozelka
	Sec. 1	I	MWThF	112VH	and others
	2	II	MWThF	112VH	
	3	III	MWThF	113VH	
	4	IV	MWThF	113VH	
	5	IV	MWThF	115VH	
	6	V	MWThF	115VH	
	7	V	MWThF	6VH	
	8	VI	MWThF	115VH	
	9	VII	MWThF	115VH	
	10	VII	MWThF	113VH	
	11	VIII	MWThF	113VH	
	12	IX	MWThF	113VH	
5w*	Elements of Statistics (See 5f)				
	Lect.	II	T		Mr. Kozelka
	Sec. 1-10	I-IX	MWThF		and others
5s*	Elements of Statistics (See 5f)				
	Lect.	II	T		Mr. Kozelka
	Sec. 1-12	I-IX	MWThF		and others
6f-7w†	Principles of Economics (10 cred.; soph., jr., sr.; no prereq.)				
	Lect.	I	TTh	NMAud	Mr. Brozen
	Sec. 1§	I	MWF	115VH	and others
	2	I	MWF	210VH	
	3	I	MWF	301VH	
	4	II	MWF	115VH	
	5	II	TThS	115VH	
	6	II	TThS	210VH	
	7	III	MWF	307VH	
	8	III	TThS	210VH	
	9	III	TThS	115VH	
	10	IV	MWF	221VH	
	11	IV	TThS	221VH	
	12 (fall only)	IV	TThS	210VH	
	13	V	MWF	210VH	
	14	V	MWF	205VH	
	15	VI	MWF	113VH	
	16	VI	MWF	301VH	
	17	VI	MWF	14P	
	18	VII	MWF	14P	
	19	VII	MWF	221VH	
	20	VII	MWF	210VH	
	21	VIII	MWF	145Ph	
	22	VIII	MWF	201NH	
	23 (fall only)	VIII	MWF	210VH	
	24	IX	MWF	210VH	
	25	IX	MWF	207VH	
6w-7s†	Principles of Economics (See 6f-7w)				
	Lect.	I	MW		Mr. Brozen
	Sec. 1-2	I	TThS		and others
	3-11	II-IV	MWF; TThS		
	12-20	V-IX	MWF		
7f†	Principles of Economics (2nd qtr. of 6-7. See 6f-7w)				
	Lect.	IV	TTh	201WeH	Mr. Brozen
	Sec. 1	I	TThS	210VH	and others
	2	II	TThS	301VH	
	3	IV	MWF	301VH	
	4	V	MWF	4VH	
	5	IX	MWF	4VH	

\* Not open to students who have received credit in Soc. 45 or B.A. 70.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

§ Reserved for juniors and seniors.



## SCHOOL OF BUSINESS ADMINISTRATION

8f-9w	General Economics (6 cred.; soph., jr., sr.; open to Institute of Technology students only; no prereq.)				
	Sec. 1	I	TThS	301VH	Mr. Filipetti
	2	II	MWF	307VH	and others
	3	III	TThS	301VH	
	4	IV	TThS	301VH	
	5 (fall only)	V	MWF	105VH	
	6	VI	MWF	210P	
	7	VII	MWF	210P	
	8 (fall only)	IX	MWF	105VH	
8w-9s	General Economics (See 8f-9w)				
	Sec. 1-3	II; IV; VI	MWF		Mr. Filipetti and others
10f	An Introduction to Economic Analysis (3 cred.; open to College of Pharmacy students only; no prereq.)				
		II	MWF	301VH	Ar
22f-23w	Principles of Accounting (8 cred.; soph., jr., sr.; no prereq.)				
	Lect. Sec. 1	I	T	Ar	Mr. Heilman and others
	2	I	Th	Ar	
	Rec. Sec. 1	I	MWF	306VH	
	2 (fall only)	I	MWF	205VH	
	3	I	MWF	6VH	
	4	II	MWF	306VH	
	5 (fall only)	II	TThS	306VH	
	6	II	TThS	307VH	
	7	III	MWF	306VH	
	8 (fall only)	III	MWF	115VH	
	9	III	TThS	221VH	
	10	IV	MWF	306VH	
	11	IV	MWF	307VH	
	12	IV	TThS	307VH	
	13	V	MWF	307VH	
	14	V	MWF	306VH	
	15	VI	MWF	306VH	
	16 (fall only)	VI	MWF	307VH	
	17	VII	MWF	306VH	
	18	VII	MWF	301VH	
	19	VIII	MWF	115VH	
	20	VIII	MWF	221VH	
	21 (fall only)	IX	MWF	115VH	
	22	IX	MWF	6VH	
	23	6:40-8:00 p.m.	MW	Ar	
	24	6:40-8:00 p.m.	MW	Ar	
	25	6:40-8:00 p.m.	TTh	Ar	
	26	6:40-8:00 p.m.	TTh	Ar	
	27	8:10-9:30 p.m.	MW	Ar	
	28	8:10-9:30 p.m.	MW	Ar	
	29	8:10-9:30 p.m.	TTh	Ar	
	30	8:10-9:30 p.m.	TTh	Ar	
22w-23s	Principles of Accounting (See 22f-23w)				
	Lect. Sec. 1	VI	T		Mr. Heilman and others
	2	VI	Th		
	Rec. Sec. 1-6	I-III	MWF; TThS		
	7-14	IV-IX	MWF		
	15-17	6:40-			
		8:00 p.m.	MW; TTh		
	18-20	8:10-			
		9:30 p.m.	MW; TTh		
22s	Principles of Accounting (See 22f-23w)				
	Lect.	I	T		Mr. Heilman and others
	Sec. 1-2	I	MWF; TThS		
	3-4	II; III	MWF		
	5	IV	TThS		
	6-10	V-IX	MWF		

25f	Principles of Accounting (3 cred.; soph., jr., sr.; prereq. Econ. 20)				
	Sec. 1	I	MWF	307VH	Mr. Heilman
	2	III	TThS	307VH	and others
	3	IX	MWF	221VH	
26s	Principles of Accounting (3 cred.; soph., jr., sr.; prereq. Econ. 25)				
	Sec. 1	I	MWF		Mr. Heilman
	2	III	TThS		and others
27s†	Accounting Survey (5 cred.; open to prelaw and law students only; no prereq.)				
	Sec. 1	II	MTWThF		Ar
	2	VIII	MTWThF		Ar
28f,w,s	Business Law (3 cred.; soph., jr., sr., with 6 cred. in econ. or sr. without econ. cred., open to Institute of Technology and College of Agriculture students only)				
		I	MWF	335EE	Mr. Palmer
30s	Elements of Retail Accounting (3 cred.; open to College of Pharmacy students only; prereq. Econ. 10)				
		II	MWF		
32f‡	Beginning Typewriting (1 cred.; fr., soph., jr., sr.; no prereq.)				
	Sec. 1	I	MTWThF	209VH	Miss Donaldson
	2	VI	MTWThF	209VH	and others
32w‡	Beginning Typewriting (See 32f)				
	Sec. 1	I	MTWThF		
	2	VI	MTWThF		
	3	VI	MTWThF		
32s‡	Beginning Typewriting (See 32f-32w)				
		VI	MTWThF		Miss Donaldson
					and others
33f-34w‡†	Intermediate and Advanced Typewriting (2 cred.; soph., jr., sr.; prereq. 30 words per minute)				
	Sec. 1 Dental hygiene students, fall only	IV	MTWThF	209VH	Miss Donaldson
	2	VII	MTWThF	211VH	and others
33w-34s‡†	Intermediate and Advanced Typewriting (See 33f-34w)				
	Sec. 1	IV	MTWThF		Miss Donaldson
	2 (winter only)	VII	MTWThF		and others
33s‡†	Intermediate Typewriting (See 33f-34w)				
		IV	MTWThF		Miss Donaldson
					and others
34f‡	Advanced Typewriting (1 cred.; soph., jr., sr.; prereq. 45 words per minute)				
		VII	MTWThF	209VH	Miss Donaldson
					and others
35w‡	Office Practice for Dental Hygienists (3 cred.; dent. hyg. only; prereq. Econ. 32-33 or equiv.)				
		IV	MWF		Miss Donaldson
					and others
37f-38w-39s‡†‡	Beginning and Intermediate Shorthand (9 cred.; soph., jr., sr.; prereq. Econ. 33 or consent of instructor)				
	Sec. 1	I	MTWThF	211VH	Miss Donaldson
	2	II	MTWThF	211VH	and others
40f‡-41w‡†	Secretarial Procedure (6 cred.; soph., jr., sr.; prereq. Econ. 34 and 39 or consent of instructor)				
		III	MTWThF	209VH	Miss Donaldson
					and others
42s‡	Advanced Secretarial Procedure (3 cred.; jr., sr.; prereq. Econ. 41)				
		I	MWF		Miss Donaldson
		VII-VIII	Th		and others

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ A fee of \$2.50 a quarter is charged students registering for one or more of these courses.

§ Students who have had one year of high school shorthand are admitted to Econ. 38; those who have had two years of high school shorthand are admitted to Econ. 39.

¶ Not open to students who have received credit in 20, 25-26.

43f‡ Advanced Shorthand Theory (2 cred.; soph., jr., sr.; prereq. Econ. 34 and 39; not open to students in the College of Science, Literature, and the Arts)  
VI-VII Th 208VH Miss Donaldson

*Senior College Courses*

50f	Insurance Principles (3 cred.; jr., sr.; prereq. Econ. 6-7 or 83)	III	TThS 4VH	Mr. Graves
50w	Insurance Principles (See 50f)	VIII	MWF	Mr. Graves
50s	Insurance Principles (See 50f)	VII	MWF	Mr. Graves
82**¶	<i>Competition and Monopoly in Modern Industry</i> (3 cred.; jr., sr.; no prereq.) ( <i>Not offered</i> )			
83**¶	<i>Money, Cycles, and Taxation</i> (3 cred.; jr., sr.; prereq. Econ. 82) ( <i>Not offered</i> )			
84s	Comparative Economic Systems (3 cred.; jr., sr.; prereq. Econ. 6-7 or 83)	I	TThS	Mr. Garver
97f,98w,99s	Honors Course in Economics (Cred. ar.; jr., sr.; prereq. consent of major advisers)	Ar	Ar Ar Ar	
103f-104w†	Advanced Economics (6 cred.; jr., sr., grad.; not open to School of Business Administration students; prereq. 20 cred. in soc. sci. including Econ. 6-7 or 83)	VI	MWF 205VH	Mr. Garver
105	<i>History of Economic Ideas: The Classical Economists</i> (3 cred.; jr., sr., grad.; prereq. B.A. 101-102 or Econ. 103-104 or consent of instructor) ( <i>Not offered</i> )			
106s	<i>History of Economic Ideas: The Critics of the Classical Economists</i> (3 cred.; jr., sr., grad.; prereq. B.A. 101-102 or Econ. 103-104 or consent of instructor)	VII	MWF	Ar
108	<i>Applications of Economic Theory</i> (3 cred.; jr., sr., grad.; prereq. B.A. 101-102 or Econ. 103-104) ( <i>Not offered</i> )			
110s	Industrial Price Control (3 cred.; jr., sr., grad.; prereq. Econ. 6-7 or 83 and 15 additional credits in economics and/or business administration. Econ. 155 is a desirable preceding course)	VI	MWF	Mr. Garver
111f	City Planning. Same as Architecture 104, Political Science 123, and Sociology 104. (3 cred.; prereq. senior or graduate standing)	III	MWF 304E	Mr. Jones, Mr. Anderson, Mr. Filippetti Mr. Vaile, Mr. Sletto
121f-122w†- 123s	Theory of Statistics (9 cred.; jr., sr., grad.; prereq. Econ. 5)	I	MWF 221VH	Mr. Mudgett
124w	Comparative Banking: British Systems (3 cred.; jr., sr., grad.; prereq. Econ. 142)	IV	MWF	Mr. Myers
126s	Economic Problems of Latin America (3 cred.; jr., sr., grad.; prereq. Econ. 6-7 or 83)	II	MWF	Mr. Myers
127	<i>Comparative Banking: South American Systems</i> (3 cred.; jr., sr., grad.; prereq. Econ. 142) ( <i>Not offered</i> )			
129	<i>Statistical Economics</i> (3 cred.; sr. with consent of instructor, grad.; prereq. Econ. 103-104 and B.A. 112) ( <i>Not offered</i> )			
140w	The Co-operative Movement (3 cred.; jr., sr., grad.; prereq. Econ. 6-7 or 83)	VI	MWF	Miss Canoyer
142f	Monetary and Banking Policy (3 cred.; jr., sr., grad.; prereq. Econ. 3 and 6-7)			
	Sec. 1	I	MWF	MurAud Mr. Myers
	2	IV	TThS 4VH	Mr. Myers
	3	VII	MWF 207VH	Mr. Uppgren

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ A fee of \$2.50 a quarter is charged students registering for one or more of these courses.

¶ This course may not be included as a part of the Senior College work required for a minor in economics in the College of Science, Literature, and the Arts.

\*\* Not open to students who have received credit in Econ. 6-7.

142w	Monetary and Banking Policy (See 142f)				
	Sec. 1	I	MWF		Mr. Myers
	2	III	TThS		Mr. Myers
	3	VI	MWF		Ar
142s	Monetary and Banking Policy (See 142f)				
	Sec. 1	I	MWF		Ar
	2	IV	TThS		Ar
	3	VII	MWF	Ar	Mr. Myers
149f	Business Cycles (3 cred.; sr., grad.; prereq. Econ. 142 or consent of instructor)	II	TThS	1VH	Mr. Upgren
149w	Business Cycles (See 149f)				
		II	TThS		Mr. Upgren
149s	Business Cycles (See 149f)				
		III	TThS		Mr. Upgren
155f	Corporation Finance (3 cred.; jr., sr., grad.; prereq. Econ. 3 and 6-7)				
	Sec. 1	III	MWF	4VH	Mr. Stehman
	2	IV	TThS	1VH	Mr. Borak
	3	VIII	MWF	1VH	Mr. Borak
155w	Corporation Finance (See 155f)				
	Sec. 1	II	MWF		Mr. Borak
	2	III	TThS		Mr. Stehman
	3	VII	MWF		Mr. Borak
155s	Corporation Finance (See 155f)				
	Sec. 1	II	MWF		Mr. Stehman
	2	VI	MWF		Mr. Borak
	3	VII	MWF		Mr. Borak
161f	Labor Problems and Trade Unionism (3 cred.; jr., sr., grad.; prereq. Econ. 6-7 or 83)				
	Sec. 1	I	TThS	1VH	Ar
	2	III	MWF	207VH	Ar
	3	VIII	MWF	4VH	Ar
161w	Labor Problems and Trade Unionism (See 161f)				
	Sec. 1	III	MWF		Ar
	2	VI	MWF		Ar
	3	VIII	MWF		Ar
161s	Labor Problems and Trade Unionism (See 161f)				
	Sec. 1	II	TThS		Ar
	2	IV	MWF		Ar
	3	VII	MWF		Ar
162w	Labor and Socialist Movements (3 cred.; jr., sr., grad.; prereq. Econ. 161)				
		VII	MWF		Ar
162s	Labor and Socialist Movements (See 162w)				
		VI	MWF		Ar
164s	Labor Legislation and Social Insurance (3 cred.; jr., sr., grad.; prereq. Econ. 161)				
		III	TThS		Ar
172f	Economics of Transportation (3 cred.; jr., sr., grad.; prereq. 20 cred. in soc. sci. including Econ. 6-7 or 83)				
		II	MWF	6VH	Mr. Nightingale
175f	Government Regulation of Business (3 cred.; jr., sr., grad.; prereq. 20 cred. in soc. sci. including Econ. 6-7 or 83)				
	Sec. 1	I	MWF	1VH	Mr. Boddy
	2	III	MWF	105VH	Mr. Garver
	3	VI	MWF	1VH	Mr. Boddy
175w	Government Regulation of Business (See 175f)				
	Sec. 1	III	MWF		Mr. Garver
	2	IV	MWF		Ar
	3	VII	MWF		Mr. Boddy
175s	Government Regulation of Business (See 175f)				
	Sec. 1	II	TThS		Mr. Garver
	2	III	MWF		Mr. Boddy
	3	VI	MWF		Ar
	4	VII	MWF		Mr. Boddy
176f	International Commercial Policies (3 cred.; jr., sr., grad.; prereq. Econ. 6-7 or 83)				
		I	MWF	4VH	Mr. Blakey

## SCHOOL OF BUSINESS ADMINISTRATION

176s	International Commercial Policies (See 176f)			
	Sec. 1	I	MWF	Mr. Blakey
	2	IV	MWF	Mr. Blakey
178s	Economics of Consumption (3 cred.; jr., sr., grad.; prereq. Econ. 6-7 or 83; not open to majors in economics or business administration)			
		II	MWF	Miss Canoyer
179s	Economic Problems of the Far East (3 cred.; jr., sr.; prereq. Econ. 6-7 or equiv.)			
		VI	MWF	Mr. Vaile
185w	Economics of Marketing (3 cred.; jr., sr., grad.; prereq. Econ. 6-7 or 83)			
		III	TThS	Mr. Vaile
191f-192w†‡	Public Finance (6 cred.; jr., sr., grad.; prereq. Econ. 6-7 or 83)			
		III	MWF 221VH	Mr. Blakey
193s	State and Local Taxation (3 cred.; jr., sr., grad.; prereq. Econ. 191-192 or B.A. 58)			
		III	MWF	Mr. Blakey
195s	Fiscal Policy (3 cred.; sr. with consent of instructor, grad.; prereq. 20 cred. in soc sci. including B.A. 58 and Econ. 142 or equiv.)			
		IV	TThS	Mr. Heller

*Courses Open to Graduate Students Only*

203f-204w	Seminar in Economic Theory (6 cred.; grad.)			
		VIII½-IX	TTh 206VH	Mr. Garver
206s	Seminar in Market Prices (3 cred.; grad.)			
		VIII½-IX	TTh	Mr. Vaile
207s	Theory of Demand (3 cred.; grad.)			
		VII-VIII½	TTh	Mr. Brozen
208	<i>Production and Distribution</i> (3 cred.; grad.) ( <i>Not offered</i> )			
233f-234w	Seminar in Public Finance (6 cred.; grad.)			
		VII	W 206VH	Mr. Blakey
		VII-VIII	F 206VH	
243w-244s	Seminar in Money and Banking (3 cred.; grad.)			
		VIII½-IX	MW	Mr. Upgren
251s	Seminar in Industrial Relations (3 cred.; grad.)			
		VII-VIII½	MW	Mr. Yoder
257w	Seminar in Accounting Theory (3 cred.; grad.)			
		VII-VIII½	TTh	Mr. Heilman

## BUSINESS ADMINISTRATION

For advisers see the *Bulletin of the School of Business Administration*.

*Courses Open to Business Administration Students Only*

51f*	Business Law: Contracts (3 cred.; jr., sr.; prereq. Econ. 6-7)			
	Lect.	IV	Th BuAud	Mr. Neville
	Sec. 1	I	TS 213NH	
	2	I	TS 111NH	
	3	II	TS 213NH	
	4	II	TS 111NH	
	5	III	TS 213NH	
	6	III	TS 111NH	
	7	VI	TTh 1VH	
	8	VII	TTh 1VH	
	9	6:40-8:00	MW Ar	
	10	6:40-8:00	TTh Ar	
	11	8:10-9:30	MW Ar	
	12	8:10-9:30	TTh Ar	

\* To receive credit for this course a student must complete 51 and either 52 or 53.

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ Credit may not be received for both Economics 191-192 and B.A. 58.

51w*	Business Law: Contracts (See 51f)				
	Lect.	VI	T		Mr. Neville
	Sec. 1-4	I; II; III	ThS		and others
	5	6:40-8:00	MW		
	6	8:10-9:30	MW		
52w*	Business Law: Agency, Partnership, and Corporations (3 cred.; jr., sr.; prereq. B.A. 51)				
	Lect.	IV	Th		Mr. Neville
	Sec. 1-5	I; II; III	TS		and others
	6-7	VI; VII	TTh		
	8-9	6:40-8:00	MW; TTh		
	10-11	8:10-9:30	MW; TTh		
53s*	Business Law: Sales and Negotiable Instruments (3 cred.; jr., sr.; prereq. B.A. 51)				
	Lect.	IV	Th		Mr. Neville
	Sec. 1-5	I-III	TS		and others
	6-7	VI; VII	TTh		
	8-9	6:40-8:00	MW; TTh		
	10-11	8:10-9:30	MW; TTh		
56s	Property Rights and Obligations (3 cred.; jr., sr.; prereq. B.A. 52 or 53)				
		I	TThS		Mr. Neville
57f¶	Money and Banking (3 cred.; jr., sr.; no prereq.)				
	Sec. 1	II	MWF 2VH		Mr. Graves
	2	IV	TThS 207VH		and others
	3	VI	MWF 207VH		
57w¶	Money and Banking (See 57f)				
		VI	MWF		Mr. Graves
					and others
57s¶	Money and Banking (See 57f)				
		II	TThS		Mr. Graves
					and others
58f§††	Elements of Public Finance (3 cred.; jr., sr.; prereq. Econ. 6-7)				
	Sec. 1	II	TThS	MurHAud	Mr. Blakey
	2	IV	MWF	313Z	and others
	3	VI	MWF	211NH	
58w§††	Elements of Public Finance (See 58f)				
	Sec. 1	II	TThS		Mr. Blakey
	2	IV	MWF		and others
	3	VII	MWF		
58s§††	Elements of Public Finance (See 58f)				
	Sec. 1	III	TThS		Mr. Blakey
	2	IV	MWF		and others
	3	VII	MWF		
59f	Life Insurance (3 cred.; jr., sr.; prereq. Econ. 50)				
		III	MWF	205VH	Mr. Graves
60w	Fire and Marine Insurance (3 cred.; jr., sr.; prereq. Econ. 50)				
		III	TThS		Mr. Graves
61s	Casualty Insurance (3 cred.; jr., sr.; prereq. Econ. 50)				
		III	TThS		Mr. Graves
64w	Graphic Arts I: Elementary Principles of Design—Identical with Drawing and Descriptive Geometry 64 (3 cred.; jr., sr.; prereq. permission of adviser in School of Business Administration or in School of Journalism)				
		IV	MWF		Mr. Doseff
65f‡	Graphic Arts II: Processes—Identical with Drawing and Descriptive Geometry 65 and Journalism 65 (3 cred.; jr., sr.; prereq. permission of adviser in School of Business Administration or in School of Journalism)				
		IV	MWF	105MurH	Mr. Barnhart

\* To receive credit for this course a student must complete 51 and either 52 or 53.

‡ Journalism course. A fee of \$1 per quarter is charged students taking courses in Journalism.

§ Credit may not be received for both Economics 191-192 and B.A. 58.

¶ Credit may not be received for both Economics 3 and B.A. 57.

†† Economics 191-192 (6 cred.) may be substituted for B.A. 58 as a core group requirement.

67w	Retail Store Management for Pharmacy Students (3 cred.; open to College of Pharmacy students only; prereq. Econ. 10 and 30)	I	MWF		Miss Canoyer
68f	Sales Management (3 cred.; jr., sr.; prereq. B.A. 77)	II	TThS	6VH	Ar
68w	Sales Management (See 68f)	VI	MWF		Ar
68s	Sales Management (See 68f)	III	MWF		Ar
69f	Retail Store Management (3 cred.; jr., sr.; prereq. B.A. 77)	III	TThS	2VH	Miss Canoyer
69w	Retail Store Management (See 69f)	VII	MWF		Miss Canoyer
69s	Retail Store Management (See 69f)	III	TThS		Miss Canoyer
70f§	Statistics Survey (3 cred.; jr., sr.; prereq. Econ. 6-7)	I	MWF	105VH	Ar
	Sec. 1	III	TThS	105VH	
	2	IV	TThS	105VH	
	3	VI	MWF	221VH	
	4	VIII	MWF	2VH	
70w§	Statistics Survey (See 70f)	II	TThS		Ar
	Sec. 1	IV	MWF		
	2	VII	MWF		
70s§	Statistics Survey (See 70f)	III	TThS		Ar
	Sec. 1	VI	MWF		
	2				
71f	Transportation: Services and Charges I (3 cred.; jr., sr.; prereq. Econ. 6-7)	I	TThS	4VH	Mr. Nightingale
71w	Transportation: Services and Charges I (See 71f)	II	MWF		Mr. Nightingale
71s	Transportation: Services and Charges I (See 71f)	III	MWF		Mr. Nightingale
	Sec. 1	VIII	MWF		Mr. Nightingale
	2				
72w	Transportation: Services and Charges II (3 cred.; jr., sr.; prereq. B.A. 71)	I	MWF		Mr. Nightingale
72s	Transportation: Services and Charges II (See 72w)	II	MWF		Mr. Nightingale
76s	Credits and Collections (3 cred.; jr., sr.; prereq. B.A. 77)	III	TThS		Ar
77f	Survey in Marketing (3 cred.; jr., sr.; prereq. Econ. 6-7)	I	T	NHAud	Mr. Vaile
	Lect.	I	ThS	205VH	and others
	Sec. 1	II	TTh	205VH	
	2	III	ThS	112VH	
	3	IV	WF	112VH	
	4	V	WF	207VH	
	5	VI	TTh	207VH	
	6	VII	TTh	4VH	
	7	VIII	TTh	4VH	
	8				
77w	Survey in Marketing (See 77f)	III	M		Mr. Vaile
	Lect.	I	ThS		and others
	Sec. 1	II	WF		
	2	III	ThS		
	3	IV	WF		
	4	V	WF		
	5	VI	TTh		
	6	VII	TTh		
	7	VIII	WF		
	8				

§ Not open to students who have received credit in Econ. 5.

77s	Survey in Marketing (See 77f)				
	Lect.	III	M		Mr. Vaile
	Sec. 1	I	TbS		and others
	2	II	WF		
	3	III	TbS		
	4	IV	WF		
	5	V	WF		
	6	VI	TTh		
	7	VII	TTh		
	8	VIII	WF		
86s	Office Management (3 cred.; jr., sr.; prereq. Econ. 6-7)	III	MWF		Miss Donaldson
88f	Advertising (3 cred.; jr., sr.; prereq. B.A. 77 and Psy. 56)	I	MWF	207VH	Mr. Vaile
88w	Advertising (See 88f)				
	Sec. 1	II	MWF		Mr. Vaile
	2	VIII	MWF		Ar
88s	Advertising (See 88f)				
	Sec. 1	III	TThS		Ar
	2	VII	MWF		Mr. Vaile
89f	Production Management (3 cred.; jr., sr.; prereq. Econ. 6-7 or equiv.)				
	Sec. 1	II	MWF	4VH	Mr. Filipetti
	2	III	TThS	207VH	and others
	3	IV	MWF	1VH	
89w	Production Management (See 89f)				
	Sec. 1	II	MWF		Mr. Filipetti
	2	II	TThS		and others
	3	VIII	MWF		
89s	Production Management (See 89f)				
	Sec. 1	II	MWF		Mr. Filipetti
	2	III	MWF		and others
	3	VIII	MWF		
91f	Tabulating Equipment Laboratory (1 cred.; jr., sr.; prereq. Econ. 23 or Econ. 26 and either 5 or B.A. 70)				
	Lect.	VI	T	4VH	Mrs. Boehmler
	Sec. 1	V	Th	307VH	
	2	VI	Th	307VH	
	3	VII	W	307VH	
	4	VIII	W	307VH	
91w	Tabulating Equipment Laboratory (See 91f)				
	Lect.	VI	T		Mrs. Boehmler
	Sec. 1	V	Th		
	2	VI	Th		
	3	VII	W		
	4	VIII	W		
91s	Tabulating Equipment Laboratory (See 91f)				
	Lect.	VI	T		Mrs. Boehmler
	Sec. 1	V	Th		
	2	VI	Th		
	3	VII	W		
	4	VIII	W		
93f	Accounting Laboratory (1 cred.; jr., sr., open to accounting and commercial education majors only; prereq. Econ. 23 or Econ. 26)				
	Sec. 1	VII-VIII	M	307VH	Mrs. Boehmler
	2	VII-VIII	T	307VH	Mrs. Boehmler
	3	VIII-IX	F	307VH	Mrs. Boehmler
93w	Accounting Laboratory (See 93f)				
	Sec. 1	VII-VIII	M		Mrs. Boehmler
	2	VII-VIII	T		Mrs. Boehmler
	3	VIII-IX	F		Mrs. Boehmler
93s	Accounting Laboratory (See 93f)				
	Sec. 1	VII-VIII	M		Mrs. Boehmler
	2	VII-VIII	T		Mrs. Boehmler
	3	VIII-IX	F		Mrs. Boehmler



94f	Cost Accounting Laboratory (1 cred.; jr., sr.; prereq. B.A. 152 or concurrent)				
	Sec. 1	V-VI	T	307VH	Ar
	2	VII-VIII	Th	307VH	Ar
94w	Cost Accounting Laboratory (See 94f)				
	Sec. 1	V-VI	T		Ar
	2	VII-VIII	T		Ar
	3	V-VI	Th		Ar
94s	Cost Accounting Laboratory (See 94f)				
	Sec. 1	V-VI	T		Ar
	2	VII-VIII	T		Ar
	3	V-VI	Th		Ar
96	<i>Business Equipment Laboratory</i> (1 cred.; jr., sr.; prereq. Econ. 26. Open to commercial education majors only) ( <i>Not offered</i> )				
97f,98w,99s	Honors Course in Business Administration (Cred. ar.; jr., sr.; prereq. permission of the dean)				
		Ar	Ar	Ar	Ar
101f-102w†	Advanced General Economics (6 cred.; jr., sr., grad.; prereq. Econ 6-7)				
	Sec. 1	II	MWF	207VH	Mr. Boddy and others
	2	II	TThS	105VH	
	3	IV	MWF	207VH	
	4	VI	MWF	4VH	
	5	VII	MWF	1VH	
101w-102s†	Advanced General Economics (See 101f-102w)				
	Sec. 1	II	TThS		Mr. Boddy and others
	2	III	MWF		
	3	IV	TThS		
	4	VI	MWF		
	5	VIII	MWF		
109f	Business Policy (3 cred.; sr., grad.; prereq. B.A. 101-102)				
		II	TThS	4VH	Mr. Reighard
109s	Business Policy (See 109f)				
		II	TThS		Mr. Reighard
112f‡	Business Statistics (3 cred.; jr., sr., grad.; prereq. Econ. 5 or B.A. 70)				
	Sec. 1	II	TThS	207VH	Mr. Mudgett and others
	2	III	MWF	1VH	
	3	IV	MWF	4VH	
	4	VII	MWF	4VH	
112w‡	Business Statistics (See 112f)				
	Sec. 1	II	MWF		Mr. Mudgett and others
	2	III	MWF		
	3	III	TThS		
	4	VI	MWF		
112s‡	Business Statistics (See 112f)				
	Sec. 1	II	TThS		Mr. Mudgett and others
	2	III	MWF		
	3	IV	MWF		
	4	VIII	MWF		
118f	Auditing Procedure (3 cred.; jr., sr., grad.; prereq. B.A. 139 or B.A. 151 or consent of instructor)				
	Lect.	III	T	Ar	Mr. Lund
	Lab. Sec. 1	VI-VII	TTh	306VH	
	2	VIII-IX	TTh	306VH	
	3	VIII-IX	MW	306VH	
118w	Auditing Procedure (See 118f)				
	Lect.	IV	M		Mr. Lund
	Lab. Sec. 1	VI-VII	TTh		
	2	VIII-IX	TTh		
118s	Auditing Procedure (See 118f)				
	Lect.	IV	M		Mr. Lund
	Lab. Sec. 1	VI-VII	TTh		
	2	VIII-IX	TTh		

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ A fee of \$1 per quarter is charged for this course.

119	<i>Correlation</i> (3 cred.; jr., sr., grad.; prereq. Econ. 5 or B.A. 70) ( <i>Not offered</i> )			
120	<i>Index Numbers</i> (3 cred.; jr., sr., grad.; prereq. Econ. 5 or B.A. 70) ( <i>Not offered</i> )			
130f†	Cost Accounting Survey (3 cred.; jr., sr., grad.; prereq. Econ. 23 or Econ. 26)			
	Sec. 1	I	TThS 105VH	Ar
	2	II	MWF 105VH	Ar
	3	VIII	MWF 105VH	Ar
130w‡	Cost Accounting Survey (See 130f)			
	Sec. 1	II	MWF	Ar
	2	IV	TThS	Ar
	3	VIII	MWF	Ar
130s‡	Cost Accounting Survey (See 130f)			
	Sec. 1	I	TThS	Ar
	2	IV	TThS	Ar
	3	VIII	MWF	Ar
133s	Standard Costs (3 cred.; jr., sr., grad.; prereq. B.A. 130 or 153)	II	TThS	Mr. Ostlund
134f	Income Tax Accounting (3 cred.; jr., sr., grad.; prereq. B.A. 139 or 151)			
	Sec. 1	I	MWF 2VH	Mr. Reighard
	2	VII	MWF 105VH	Ar
134s	Income Tax Accounting (See 134f)	VI	MWF	Ar
135f	Auditing and Public Accounting (3 cred.; jr., sr., grad.; prereq. B.A. 118)	III	MWF 6VH	Mr. Reighard
135s	Auditing and Public Accounting (See 135f)	III	MWF	Mr. Reighard
136s	Internal Auditing and Accounting Control (3 cred.; jr., sr., grad.; prereq. B.A. 139 or 151)	III	TThS	Mr. Reighard
139f‡‡	Advanced General Accounting (3 cred.; jr., sr., grad.; prereq. Econ. 23 or Econ. 26)	IV	MWF 105VH	Ar
139w‡‡	Advanced General Accounting (See 139f)	IV	MWF	Ar
139s‡‡	Advanced General Accounting (See 139f)	II	TThS	Mr. Heilman
145s	Foreign Exchange (3 cred.; jr., sr., grad.; prereq. Econ. 142)	IV	MWF	Mr. Myers
146w	Investments (3 cred.; jr., sr., grad.; prereq. Econ. 155)	II	MWF	Mr. Stehman
147	<i>Bank Administration</i> (3 cred.; jr., sr., grad.; prereq. Econ. 142) ( <i>Not offered</i> )			
148s	The Securities Market (3 cred.; sr., grad.; prereq. B.A. 146 and Econ. 149)	III	MWF	Mr. Upgren
150f‡-151w‡	Intermediate Accounting (6 cred.; jr., sr., grad.; prereq. Econ. 23 or Econ. 26)			
	Sec. 1	III	MWF 2VH	Mr. Heilman
	2	IV	TThS 2VH	Ar
	3	VII	MWF 2VH	Ar
150w‡-151s‡	Intermediate Accounting (See 150f-151w)			
	Sec. 1	II	MWF	Mr. Lund
	2	VII	MWF	Ar
152f-153w‡	Cost Accounting (6 cred.; jr., sr., grad.; prereq. Econ. 23 or Econ. 26)			
	Sec. 1	I	TThS 207VH	Mr. Ostlund
	2	IV	MWF 6VH	Mr. Ostlund
	3	VIII	MWF 6VH	Ar
152w-153s‡	Cost Accounting (See 152f-153w)			
	Sec. 1	II	TThS	Ar(w) Mr. Ostlund(s)
	2	VII	MWF	Ar
156f	Finance Management (3 cred.; jr., sr., grad.; prereq. Econ. 155)	II	MWF 221VH	Mr. Stehman

† To receive credit for any part of this course a student must complete the parts preceding the dagger.

‡ A fee of \$1 per quarter is charged for this course.

§ Credit may not be received for both B.A. 139 and B.A. 150.

157s	C.P.A. Problems (4 cred.; sr., grad.; prereq. B.A. 135 and B.A. 151 or consent of instructor)	VIII-IX-X½	TF	Ar	
158f	Governmental Railroad and Utility Accounting (3 cred.; sr., grad.; prereq. B.A. 139 or 151)	I, II	TThS	2VH	Mr. Heilman
158s	Governmental Railroad and Utility Accounting (See 158f)	III	MWF		Mr. Heilman
165	<i>Economics of Public Utilities</i> (3 cred.; jr., sr., grad.; prereq. Econ. 3 and 6-7) ( <i>Not offered</i> )				
167f	Introduction to Industrial Relations (3 cred.; jr., sr., grad.; prereq. Econ. 161)				
	Sec. 1	II	MWF	1VH	Mr. Yoder and others
	2	III	TThS	1VH	
	3	VIII	MWF	207VH	
167w	Introduction to Industrial Relations (See 167f)				
	Sec. 1	I	TThS		Mr. Yoder and others
	2	IV	MWF		
	3	VII	MWF		
167s	Introduction to Industrial Relations (See 167f)				
	Sec. 1	III	TThS		Mr. Yoder and others
	2	VI	MWF		
170w‡	Motion Economy (3 cred.; jr., sr., grad.; prereq. B.A. 184)				
	Lect.	II	T		Mr. Immer
	Lab. Sec. 1	II-III	Th		
	2	II-III	S		
171s‡	Production Standards (3 cred.; jr., sr., grad.; prereq. B.A. 170)				
	Lect.	III	M		Mr. Immer
	Lab. Sec. 1	III-IV	W		
	2	III-IV	F		
177w	Foreign Trade (3 cred.; jr., sr., grad.; prereq. Econ. 176)	IV	MWF		Mr. Blakey
180f-181w-182s	Senior Topics Courses (School of Business Administration seniors)				
	A. Accounting (6 cred.; fall and winter)	VI½-VII(f)	MW	6VH	Mr. Rotzel
		I(w)	TThS		Mr. Reighard
	B. Business Finance (6 cred.; winter and spring)	VII	MWF		Mr. Uppgren(w) Mr. Stehmans(s)
	C. Marketing (9 cred.)				
	Sec. 1	VI-VII½	TTh	105VH	Mr. Vaile
	2 (fall only)	VIII½-IX	MW	112VH	Miss Canoyer
	D. Industrial Relations¶ (9 cred.)	VII½-VIII	TTh	105VH	Mr. Yoder
	E. Office Management (9 cred.)	IV	MWF	211VH(f,w)	Miss Donaldson
		VII-VIII	T	} (s)	
		VI	Th		
	F. Statistics (9 cred.)	VI½-VII	TTh	205VH	Mr. Mudgett
	G. Production Management§ (9 cred.)				
	180f	III	MWF	301VH	Mr. Filipetti
	181f	VIII	MWF	301VH	
	181w	VII	TTh	and 1 hr. ar	
	182s	VIII	MWF		
	H. Insurance (3 cred.; spring)	IV	MWF		Mr. Graves
	I. Public Utilities and Transportation (9 cred.)	VI½-VII	TTh	6VH	Mr. Nightingale

¶ 180-181-182D must be taken in sequential order.

‡ A fee of \$1 is charged for this course.

§ Credit may not be received for Both B.A. 180G and B.A. 184.

183f,w,s	Practice Course (Cred. ar.; jr., sr., grad.; prereq. consent of adviser)	Ar	Ar Ar	Members of the staff
184f§	Scientific Management in Industry (3 cred.; sr., grad.; prereq. B.A. 89 or equiv.)	VI	MWF 105VH	Mr. Filipetti
184s§	Scientific Management in Industry (See 184f)	VII	MWF	Mr. Filipetti
194s	Advanced Advertising Procedures (3 cred.; jr., sr., grad.; prereq. Econ. 5 and B.A. 88)	IV	MWF	Mr. Longstaff

§ Credit may not be received for both B.A. 180G and B.A. 184.

# INDEX

Page		Page	
Abbreviations and symbols .....	6	How To Study .....	46
Administrative offices .....	5	Human Anatomy .....	17
Agricultural Biochemistry .....	133	Human Physiology .....	74
Agricultural Economics .....	135	Humanities .....	45
Agricultural Education .....	106	Industrial Education .....	120
Agricultural Engineering .....	136	Italian .....	87
Agricultural Journalism .....	139	Japanese .....	56
Agronomy and Plant Genetics .....	139	Journalism .....	57
American Studies .....	17	Latin .....	36
Anatomy, Human .....	17	Library Instruction .....	9
Animal and Poultry Husbandry .....	141	Linguistics and Comparative Philology.....	61
Anthropology .....	17	Marriage .....	44
Architecture .....	19	Mathematics .....	62
Art .....	19	Methods and Directed Teaching .....	121
Art Education .....	20, 107	Military Science and Tactics .....	11
Astronomy .....	22	Music .....	65
Bacteriology .....	23	Music Education .....	124
Biostatistics .....	24	Natural Science .....	46
Botany .....	24	Naval Science and Tactics .....	11
Buildings .....	7	Norwegian .....	90
Business Administration .....	168	Nursing Education .....	125
Celtic .....	61	Orientation .....	155
Chemistry .....	27	Personal Orientation .....	46
Child Welfare .....	33	Philosophy .....	69
Classics .....	35	Physical Education	
Communication .....	44	for Men .....	12, 126
Comparative Philology and Linguistics.....	61	for Women .....	13, 129
Composition .....	41	Physics .....	71
Course numbering .....	6	Physiological Chemistry .....	73
Curriculum and Instruction .....	111	Physiology .....	74
Dairy Husbandry .....	142	Plant Pathology and Botany .....	155
Drawing and Descriptive Geometry .....	21	Political Science .....	75
Economics .....	162	Portuguese .....	88
Education .....	105	Poultry Husbandry .....	141
Educational Administration .....	115	Preventive Medicine and Public Health .....	82
Educational Psychology .....	116	Psychology .....	78
English .....	38	Public Health .....	81
Entomology and Economic Zoology.....	143	Radio .....	85
Explanations .....	6	Rhetoric .....	157
Family Life .....	44	Romance Languages .....	85
Fine Arts .....	21	Russian .....	90
Food Technology .....	146	Sanskrit .....	62
Forestry .....	146	Scandinavian .....	90
French .....	85	Secretarial Training .....	162
General Courses—Education .....	105	Semetic .....	62
General Studies .....	44	Social Science .....	47
Geography .....	47	Sociology and Social Work .....	92
Geology and Mineralogy .....	48	Soils .....	159
Geophysics .....	71	Spanish .....	88
German .....	51	Speech .....	98
Greek .....	35	University calendar .....	3
History .....	53	Veterinary Medicine .....	160
History and Philosophy of Education.....	118	Zoology .....	101
History of Art .....	21		
Home Economics .....	148		
Home Economics Education .....	118		
Horticulture .....	154		

# *The Bulletin of the* UNIVERSITY of MINNESOTA

## Class Schedule Winter Quarter, 1948

Library Instruction, Military Science, Naval Science,  
Physical Education, Science, Literature, and the Arts,  
Education, Agriculture, Forestry, and Home Eco-  
nomics, Business Administration, Nursing, Public  
Health, and Medical Departments serving other colleges

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## CONTENTS

	Page
University Calendar .....	3
Explanations .....	5
Library Instruction .....	7
Military Science and Tactics .....	7
Naval Science and Tactics .....	7
Physical Education for Men .....	7
Physical Education for Women .....	7
College of Science, Literature, and the Arts .....	9
College of Education .....	32
College of Agriculture, Forestry, and Home Economics .....	37
School of Business Administration .....	43
Medical School .....	46
Index .....	48

## UNIVERSITY CALENDAR, 1947-48

1947

### *Fall Quarter*

August 1 - September 26			Entrance Tests. <sup>1</sup> Fall Registration <sup>2</sup> : Dates for the various colleges will be announced in the press and in mailed instructions. Students who can do so are urged to register early. It is expected that all students who can do so will register before September 1
September	15	Monday	Extension registration, first semester, begins
September	18	Thursday	Fall quarter fees due for students registered through September 11
September	22-26		New student week; program of orientation. Details will be announced in instructions issued at registration. All new students are expected to attend
September	26	Friday	Last day for registration <sup>2</sup> and payment of fees for the undergraduate colleges
September	27	Saturday	Last day for extension registration
September	29	Monday	Fall quarter classes begin 8:00 a.m. <sup>3</sup> First semester extension classes begin <sup>4</sup>
October	2	Thursday	Opening convocation, 11:00 a.m.
October	3	Friday	Last day for registration and payment of fees for the Graduate School, and for teachers in service
October	13	Monday	(Sunday, October 12, Columbus Day); holiday (except extension)
November	1	Saturday	Dads Day
November	8	Saturday	Homecoming Day
November	11	Tuesday	Armistice Day; holiday (except extension)
November	13	Thursday	Senate meeting, 4:00 p.m.
November	27	Thursday	Thanksgiving Day; holiday
December 12-13 and 15-18			Final examination period
December	18	Thursday	Fall quarter ends 6:00 p.m. <sup>5</sup> ; Commencement, 8:00 p.m.

### *Winter Quarter*

December	26	Friday	Winter quarter fees due for students in residence fall quarter in undergraduate colleges
1948			
January	2, 5	Friday, Monday	Entrance tests <sup>1</sup> ; Registration <sup>2</sup> for all new students not already registered. Registration and payment of fees for new students in all undergraduate colleges closes
January	5	Monday	Winter quarter classes begin 8:00 a.m. <sup>3</sup> Extension classes resume
January	9	Friday	Last day for registration and payment of fees for the Graduate School, and for teachers in service
January	26	Monday	Second semester extension registration begins
February	6	Friday	First semester extension classes close
February	7	Saturday	Last day for extension registration
February	9	Monday	Second semester extension classes begin <sup>4</sup>

See page 4 for footnotes.



February	12	Thursday	Lincoln's Birthday; holiday (except extension)
February	19	Thursday	Charter Day Convocation, 11:00 a.m.; Senate meeting, 4:00 p.m.
February	23	Monday	(Sunday, February 22, Washington's Birthday); holiday (except extension)
March 12-13 and 15-18			Final examination period
March	18	Thursday	Spring quarter fees due for students in residence winter quarter in undergraduate colleges. Winter quarter ends 6:00 p.m.; Commencement, 8:00 p.m.

*Spring Quarter*

March	26	Friday	Good Friday; holiday (except extension)
March	29	Monday	Entrance tests <sup>1</sup> ; Registration <sup>2</sup> for new students not already registered
			Registration and payment of fees for new students in all undergraduate colleges closes
March	29	Monday	Spring quarter classes begin 8:00 a.m. <sup>3</sup>
April	2	Friday	Last day for registration and payment of fees for the Graduate School, and for teachers in service
May	8	Saturday	Mothers Day
May	13	Thursday	Cap and Gown Day Convocation, 11:00 a.m.; Senate meeting, 4:00 p.m.
May	31	Monday	(Sunday, May 30, Memorial Day); holiday (except extension)
June	4	Friday	Second semester extension classes close
June	6	Sunday	Baccalaureate service
June	7-12		Final examination period
June	12	Saturday	Spring quarter ends 6:00 p.m.; Seventy-sixth annual commencement, 8:00 p.m.

*Summer Session*

June	14, 15	Monday, Tuesday	Registration <sup>2</sup> for new students not already registered. First term fees due for students in all colleges
June	16	Wednesday	First term Summer Session classes begin 8:00 a.m. <sup>3</sup>
July	5	Monday	(Sunday, July 4, Independence Day); holiday
July	22	Thursday	First term commencement, 8:00 p.m.
July	23	Friday	First term closes
July	26	Monday	Registration <sup>2</sup> for new students not already registered. Second term fees due for students in all colleges
July	27	Tuesday	Second term classes begin 8:00 a.m. <sup>3</sup>
August	26	Thursday	Second term commencement, 8:00 p.m.
August	28	Saturday	Second term closes

<sup>1</sup> Applicants are urged to take entrance tests one to two months in advance of the quarter for which admission is desired. Tests may be taken at the Student Counseling Bureau, 101 Eddy Hall.

<sup>2</sup> Registration subsequent to the date specified will necessitate the approval of the college concerned. See privilege fees for late registration or late payment of fees, page 36 in *General Information Bulletin*.

<sup>3</sup> First hour classes begin at 7:45 a.m. at University Farm.

<sup>4</sup> This date does not refer to correspondence study courses, which may be started at any time during the year.

<sup>5</sup> Extension classes end Friday, December 19, and resume Monday, January 5.

## EXPLANATIONS

**Course numbering**—A course is designated by a department name, course number, and section number (if more than one section is offered).

Junior College courses in the College of Science, Literature, and the Arts (primarily for freshmen and sophomores) are numbered from 1 to 49. Senior College courses in the College of Science, Literature, and the Arts are numbered as follows: courses primarily for juniors and seniors, from 50 to 99; for juniors, seniors, and graduates, from 100 to 199; for graduates only, from 200 up. This system is not uniformly followed by departments in other colleges than Science, Literature, and the Arts.

**Credits**—The number of credits is indicated in parentheses following the course number.

### OTHER ABBREVIATIONS AND SYMBOLS

#### Class Hour Schedule

		Main Campus	University Farm
I Hour		8:00- 8:50	7:45- 8:35
II Hour		9:00- 9:50	8:45- 9:35
III Hour		10:00-10:50	9:45-10:35
IV Hour		11:00-11:50	10:45-11:35
V Hour		12:00-12:50	11:45-12:35
VI Hour		1:00- 1:50	12:45- 1:35
VII Hour		2:00- 2:50	1:45- 2:35
VIII Hour		3:00- 3:50	2:45- 3:35
IX Hour		4:00- 4:50	3:45- 4:35
X Hour		5:00- 5:50	4:45- 5:35
XI Hour		6:00- 6:50	5:45- 6:35
XII Hour		7:00- 7:50	6:45- 7:35
Cred.	Credits.	MTWThFS	Monday, Tuesday, etc.
Lab.	Laboratory.	Rec.	Recitation.
Lect.	Lecture.	Sec.	Section.

**Instructors, hours, and rooms not listed will be arranged.** Students should contact department concerned to obtain this information.

**Prerequisites and course fees**—For prerequisites and course fees see *Combined Class Schedule*; for course descriptions see college bulletin.

### Buildings

A, Armory	Bu, Burton Hall
Ad, Administration, University Farm	C, Chemistry Building
Adm, Administration	CCS, Center for Continuation Study
Ag, Agronomy, University Farm	CH, Cooke Hall
AgrBot, Agricultural Botany, University Farm	CMU, Coffman Memorial Union
AH, Appleby Hall	CoH, Ada Comstock Hall
BB, Bull Barn, University Farm	CS, Carpenter Shop, University Farm
BCB, Beef Cattle Barn, University Farm	CSP, Cold Storage Plant, University Farm
BeH, Berry House, University Farm	CSS, Corn Seed Stocks, University Farm
BFH, Botany Field House, University Farm	CWI, Child Welfare Institute
Bo, Botany	DCB, Dairy Cattle Barn, University Farm
BoG, Botany Greenhouse	DeH, Dexter Hall, University Farm
Bot, Botany, University Farm	DH, Dining Hall, University Farm
BrH, Brewster Hall, University Farm	DHD, Dining Hall Dormitory, University Farm
	E, Main Engineering

- EdH, Eddy Hall  
 EE, Electrical Engineering  
 En, Engineering Bldg., University Farm  
 Ex, Experimental Engineering  
 F, Folwell Hall  
 FCFH, Farm Crops Field House, University Farm  
 FdH, Field House  
 G, Greenhouse (13th and University Ave. S.E.)  
 GH, Green Hall, University Farm  
 Gy, Gymnasium, University Farm  
 HB, Horse Barn, University Farm  
 HE, Home Economics, University Farm  
 HH, Haecker Hall, University Farm  
 HL, Hydraulic Laboratory, Hennepin Island  
 HoB, Home Building, University Farm  
 Hospitals  
 CI, Cancer Institute  
 EH, Eustis Hospital  
 EMH, Elliot Memorial Hospital  
 HS, Health Service  
 PW, Psychiatric Ward  
 TM, Todd Memorial Hospital  
 UD, University Dispensary  
 HP, Heating Plant  
 Hr, Horticulture, University Farm  
 HS, Health Service, University Farm  
 IA, Institute of Anatomy  
 J, Jones Hall  
 L, Law Building  
 Lib, Library Building  
 LsPav, Livestock Pavilion, University Farm  
 MB, Music Building, University Farm  
 ME, Mechanical Engineering  
 MeH, Meredith Hall, University Farm  
 MeS, Medical Sciences  
 MEX, Mines Experiment Station  
 MH, Millard Hall  
 MNH, Museum of Natural History  
 MS, Machinery Shop, University Farm  
 MSh, Meat Shop, University Farm  
 Mu, Music Building  
 MurH, William J. Murphy Hall  
 NGW, Norris Gymnasium for Women  
 NH, Nicholson Hall  
 NMA, Northrop Memorial Auditorium  
 OD, Old Dairy, University Farm  
 OSL, Oak Street Laboratories  
 P, Pillsbury Hall  
 Pe, Pendergast Hall, University Farm  
 PG, Poultry Group, University Farm  
 Ph, Physics  
 PH, Power House, University Farm  
 PiH, Pioneer Hall  
 PoH, Louise M. Powell Hall  
 PP, Plant Pathology, University Farm  
 Psy, Psychology  
 Pt, Pattee Hall  
 S, Stadium  
 SaH, Sanford Hall  
 SB, Swine Barn, University Farm  
 SBH, State Board of Health  
 SH, Seed House, University Farm  
 ShH, Shevlin Hall  
 SnH, Snyder Hall, University Farm  
 So, Soils, University Farm  
 SS, Storehouse and Shops  
 St, Stock Pavilion, University Farm  
 TCH, Temporary, Court of Hospital  
 TH, Thatcher Hall, University Farm  
 TNCE, Temporary, North Court of Engineering  
 TNHS, Temporary, North of Health Service  
 TNL, Temporary, North of Library  
 TNUHS, Temporary, North of University High School  
 TSA, Temporary, South of Administration, University Farm  
 TSB, Temporary, South of Botany  
 TSCE, Temporary, South Court of Engineering  
 TSE, Temporary, South of Engineering  
 TSF, Temporary, South of Folwell  
 TSH, Temporary, South of Haecker, University Farm  
 TSV, Temporary, South of Vincent  
 UHS, University High School  
 VB, Veterinary Barn, University Farm  
 Ve, Veterinary, University Farm  
 VH, Vincent Hall  
 WeH, Westbrook Hall  
 WeiH, Weigley House, University Farm  
 WuH, Wulling Hall  
 Z, Zoology Building

## LIBRARY INSTRUCTION

- 1 (2 cred.) Sec. 1 II MW 3Lib Mr. Russell, Miss Moen  
(2 cred.) 2 IV MW 3Lib Miss Handahl  
(2 cred.) 3 VI MW 3Lib Miss Hofer  
52 (2 cred.) 6:20 W 5Lib Mr. Strout  
61 (3 to 4½ cred.)  
63 (3 cred.) IV MWF 5Lib Mr. Strout  
64 (2 cred.) IV TTh 3Lib Miss Hayner  
65 (2 cred.) III TTh 5Lib Mr. Shove  
73 (3 cred.) III MWF 5Lib Mr. Strout  
82 (4 cred.) VII-VIII MWThF 5Lib Miss Hayner  
85 (1 to 3 cred.) Mr. McDiarmid, Mr. Strout, Miss Hayner and others

## MILITARY SCIENCE AND TACTICS

- 2 (1 cred.) Sec. 1 III MWF A  
(1 cred.) 2 VII MWF A  
5 (1 cred.) Sec. 1 II MWF A  
(1 cred.) 2 VIII MWF A  
152 (3 cred.) Sec. 1 I MTWThF A  
(3 cred.) 2 IV MTWThF A  
155 (3 cred.) Sec. 1 II MTWThF A  
(3 cred.) 2 VI MTWThF A

## NAVAL SCIENCE AND TACTICS

- 112 (3 cred.) Sec. 1 III MWF 205A VIII-IX T Comdr. Lyon  
(3 cred.) 2 IV MWF 205A VIII-IX T Comdr. Lyon  
(3 cred.) 3 VII MWF 205A VIII-IX T Comdr. Lyon  
212 (3 cred.) Sec. 1 II MWF 12A VIII-IX T Lt. Koch  
(3 cred.) 2 VI MWF 12A VIII-IX T Lt. Koch  
(3 cred.) 3 VII MWF 12A VIII-IX T Lt. Koch  
312 (3 cred.) Sec. 1 III MWF 202A VIII-IX T Lt. Comdr. Blocker  
(3 cred.) 2 VI MWF 202A VIII-IX T Lt. Comdr. Blocker  
412 (3 cred.) Sec. 1 II MWF 202A Lt. Towne  
(3 cred.) 2 IV MWF 202A Lt. Towne

## PHYSICAL EDUCATION FOR MEN

- 1B (1 cred.) Sec. 1-4 II, III, IV, VI MWF CH Gym Mr. Ostrander and staff  
(1 cred.) 5-6 II, VII MWF CH Pool Mr. Boyce, Mr. Thorpe  
(1 cred.) 7 III TThS CH Pool Mr. Boyce  
(1 cred.) 8-10 III, IV, VIII MWFS North Gym, Stad Mr. Osell  
2B (1 cred.) Sec. 1 II TThS Bowl. Alley CMU Mr. Young  
(1 cred.) 2 II TThS CH Pool Mr. Boyce  
(1 cred.) 3 III MWF CH Pool Mr. Boyce  
(1 cred.) 4 IV MWF CH Gym Mr. Brain  
(1 cred.) 5 VI MWF, Wt. Lift. Rm., Stad. Mr. Bartelma  
(1 cred.) 6 VIII MWF, Wt. Lift. Rm., Stad. Mr. Haislet  
(1 cred.) 7 IV MWF CH Gym Mr. Mohr

## PHYSICAL EDUCATION FOR WOMEN

- 2, 5  
Swimming, Beginning, III MWF 51NGW  
Swimming, Advanced Beginning  
Sec. 1 VIII MWF 51NGW  
2 III TTh 51NGW  
Swimming, Intermediate II MWF 58NGW  
Swimming, Intermediate Advanced VIII MWF 58NGW

## Individual Body Building

- Sec. 1 IV MWF 153aNGW
- 2 III TTh 153aNGW
- 3 VI MWF 153aNGW
- 4 II TTh 153aNGW

## Badminton, Elementary

- Sec. 1 VIII MWF 60NGW
- 2 III MWF 153NGW
- 3 II MWF 60NGW

## Badminton, Intermediate IV MWF 60NGW

## Bowling

- Sec. 1 II MWF CMU
- 2 III MWF CMU
- 3 II TTh CMU
- 4 III TTh CMU

## Fencing

- Sec. 1 II TTh 60NGW
- 2 III TTh 153NGW

## Rifle Marksmanship

- Sec. 1 II TTh A
- 2 III TTh A

## Skating, Elementary

- Sec. 1 VII-VIII T Arena
- 2 VIII-IX T Arena

## Skiing, Elementary VII-VIII Th Theo. Wirth Pk.

## Ballroom Dance, Elementary III TTh 151NGW

## Elementary Tap Dance II MWF 153NGW

## Modern Dance, Elementary

- Sec. 1 IV MWF 151NGW
- 2 VIII MWF 151NGW

## Modern Dance, Intermediate and Advanced VI MWF 151NGW

## Basketball

- Sec. 1 I MWF 151NGW
- 2 VIII MWF 153NGW

## Volleyball VI MWF 60NGW

87 (2 cred.) VIII TTh 151NGW Miss Bockstruck, Miss Bell

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- 81 (3 cred.) III MWF 6WeH Mr. Wilford
- 116 (3 cred.) I MWF 6WeH Mr. Roberts
- 123 Mr. Wallis, Mr. Greenberg, Mr. Roberts, Mr. Wilford
- 131 (3 cred.) III TThS 6WeH Mr. Greenberg
- 134 (3 cred.) VI MWF 6WeH Mrs. Syro-Boyarsky
- 162 (3 cred.) IV MWF 6WeH Mr. Greenberg
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- (2 cred.) 5 VIII-IX TTh 417E Mr. Sabean
- M-I (2 cred.) VI-VIII MW 405E Mr. Sabean
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- M-III (2 cred.) VI-VIII MW 405E Mr. Sabean
- M-IV (2 cred.) VI-VIII MW 405E Mr. Sabean
- 40 (5 cred.) Lect. VI MWF 320E
- Lab. 1 VII-VIII MWF
- 2 VI-VIII TTh
- 52 (3 cred.) IV MTWF 320E
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 51 (3 cred.) Lect. VI MW 211Z Mr. Brown  
 Lab. Sec. 1 III, IV MW 104Bo  
           2 VII, VIII MW 104Bo  
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 123 (3 to 5 cred.) II, III, IV MWF 209Bo Mr. Abbe, Miss Hansen  
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 142 (3 cred.) 9:30-10:45 TTh 110Bo Mr. Brown  
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 226 Mr. Brown, Mr. Frenkel  
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 111 (3 cred.) I TThS 210P Mr. Schwartz  
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 124 (3 cred.) II MWF 218P Mr. Schwartz  
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 214 Mr. Grout, Mr. Schwartz  
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 16 (2 to 4 cred.) VIII Th MuAud  
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 Full Orchestra IX F 4Mu  
 (1 cred.) Sec. 2 VI TTh 4NMA  
 44 (1 cred.) Sec. 1 IV MTWF 5NMA Mr. Aliferis  
 (1 cred.) 2 VIII MTWF 5NMA Mr. Aliferis  
 (1 cred.) 3 7:00 p.m. W 5NMA  
 44U (1 cred.) X TTh 102Hr(UF) Mr. Rymer  
 47 (1 cred.) Sec. 1 IX MTTh 4NMA Mr. Prescott  
 (1 cred.) 2 IX MWF 4NMA Mr. Prescott  
 51 (2 cred.) III TTh 104Mu Mr. Ivory  
 54 (2 cred.) VII WF 104Mu Miss Kendall  
 57 (3 cred.) VI, VII TTh 104Mu Mr. Ferguson  
 61 (2 cred.) VI MWF 104Mu Mr. Stephens  
 64 (2 cred.) VIII WF 209Mu Miss Hull  
 67 (1 cred.)  
 71 (2 cred.) I MWF 2Mu Miss Kendall  
 74 (2 cred.) IV ThS 103Mu Mr. Aliferis  
 78 (2 cred.) Mr. Ferguson  
 81 (2 cred.) VIII MWF 103Mu Miss Kendall  
 84 (2 cred.) Mr. Ferguson  
 87 (2 cred.) IV ThS 3Mu  
 91 (2 cred.) VI MWF 104Mu Mr. Stephens  
 94 (1 cred.) II TTh 206Mu Mr. Berryman  
 201 (3 cred.) VIII, IX and Conference hour MF 104Mu Mr. Ferguson  
 206 (3 cred.) Mr. Ferguson  
 210 (3 cred.) II MWF 104Mu Mr. Oberg  
 212 (3 to 9 cred.) Mr. Oberg, Mr. Ferguson

## PHILOSOPHY

- 1A (3 cred.) VI MWF 216NH Mr. Sellars  
 1 (5 cred.) Sec. 1 V MTWThF 211NH Mrs. Johnson  
 (5 cred.) 2 VI MTWThF 207NH Mr. Holmer  
 2 (5 cred.) III MTWThF 213NH Mr. Swanson  
 2A (3 cred.) Sec. 1 III MWF 216NH Mrs. Brodbeck  
 (3 cred.) 2 VIII MWF 216NH Mrs. Johnson  
 3 (5 cred.) Sec. 1 IV MTWThF 202WuH Mr. Wiggins  
 (5 cred.) 2 VII MTWThF 166Ph Mr. Holmer  
 3A (3 cred.) II MWF 301F Mr. Wiggins  
 51 (5 cred.) III MTWThF 133Ph Miss Shaw  
 59 (3 cred.) VII MWF 322F  
 107 (3 cred.) VIII MWF 321F Mr. Sellars  
 112 (3 cred.) VII MWF 203F Mr. Sellars  
 113 (3 cred.) VIII MWF 322F Mr. Holmer  
 114 (3 cred.) VI MWF 322F Mr. Castell  
 123 (3 cred.) VII MWF 203TSF Mr. Conger  
 153 (3 cred.) IV MWF 103NH Mrs. Brodbeck  
 165 (3 cred.) III MWF 203TSF Mr. Wiggins  
 181 (3 cred.) VI MWF 106NH Mr. Conger  
 192 (3 cred.) Mr. Conger, Mr. Castell, Mr. Sellars, and others  
 231 (3 cred.) VII, VIII T and one hr ar T 322F Mr. Sellars  
 242 (3 cred.) Mrs. Brodbeck  
 245 (3 cred.) Mrs. Brodbeck

## PHYSICS

- 2 (3 cred.) Lect. III MWF 150Ph  
 2a (4 cred.) Lect. III MWF 150Ph  
 Lab. Sec. 1 I, II M Mr. Wall and assistants  
 2 V, VI T  
 3 IX, X T  
 4 I, II Th (Pharmacy students only)  
 5 (5 cred.) Lect and Quiz I MTWThF 150Ph Mr. Wall  
 Lab. Sec. 1 III, IV M Mr. Wall and assistants  
 2 V, VI M  
 3 VII, VIII M  
 4 III, IV T  
 5 VII, VIII T  
 6 III, IV Th  
 7 (5 cred.) Lect. Sec. 1 II MTWThF 133Ph  
 (5 cred.) 2 V MTWThF 150Ph  
 Lab. Sec. 1 III, IV M Mr. Wall and assistants  
 2 VII, VIII M  
 3 I, II T  
 4 VII, VIII T  
 8 (5 cred.) Lect. Sec. 1 II MTWThF 150Ph Mr. Williams  
 (5 cred.) 2 IV MTWThF 150Ph  
 (5 cred.) 3 VI MTWThF 150Ph  
 Lab. Sec. 1 I, II M Mr. Wall and assistants  
 2 III, IV M  
 3 V, VI M  
 4 VII, VIII M  
 5 IX, X M  
 6 I, II T  
 7 III, IV T  
 8 VII, VIII T  
 9 XII, XIII T  
 10 V, VI W  
 11 VII, VIII W  
 12 XII, XIII W  
 13 I, II Th  
 14 III, IV Th  
 5 IX, X F  
 6 XII, XIII M  
 7 IX, X W  
 7 VII, VIII Th  
 8 III, IV F  
 9 VII, VIII F  
 10 I, II S  
 11 III, IV S  
 5 IX, X Th  
 6 VII, VIII F  
 7 IX, X F  
 8 I, II S  
 15 V, VI Th  
 16 VII, VIII Th  
 17 IX, X Th  
 18 XII, XIII Th  
 19 I, II F  
 20 III, IV F  
 21 V, VI F  
 22 VII, VIII F  
 23 IX, X F  
 24 XII, XIII F  
 25 I, II S  
 26 III, IV S  
 27 V, VI S

- 9 (5 cred.) Lect. Sec. 1 VII MTWThF 150Ph  
 (5 cred.) 2 IX MTWThF 150Ph  
 Lab. Sec. 1 IX, X M 7 I, II F  
 2 I, II T 8 VII, VIII F  
 3 III, IV T 9 IX, X F  
 4 V, VI T 10 I, II S  
 5 V, VI Th 11 III, IV S  
 6 VII, VIII Th
- 73 (3 cred.) II MWF 209NH Mr. Nier  
 103 (5 cred.) I MTWThF 133Ph Mr. Nier  
 109 (3 cred.) VII MWF 145Ph Mr. Oppenheimer  
 110 (3 cred.) VI, VII, VIII, IX TTh 49Ph Mr. Schmitt  
 116 (3 cred.)  
 133 (3 cred.) II TThS 143Ph Mr. Valasek  
 134 (3 cred.) VII, VIII, IX TTh 352Ph Mr. Valasek  
 136 (3 cred.) VII, VIII, IX TTh 352Ph Mr. Valasek  
 183 (3 cred.) IV MWF 143Ph Mr. Tate  
 192 (3 cred.) III MWF 145Ph Mr. Hill

## POLITICAL SCIENCE

- 1 (3 cred.) II MWF 213NH  
 2 (3 cred.) Sec. 1 IV MWF BuAud Mr. Christensen  
 (3 cred.) 2 I TThS 211NH  
 5 (5 cred.) VI MTWThF 213NH Mr. Weidner  
 7 (3 cred.) VI MWF 211NH  
 10 (3 cred.) III MWF JAud  
 15 (3 cred.) II TThS 213NH  
 51 (3 cred.) Lect. II TTh 10P  
 Sec. 1 III T 218P  
 2 III Th 218P
- 92 Ar  
 102 (3 cred.) II TThS 111NH Mr. Latham  
 105 (3 cred.) III TThS 216NH Mr. McLaughlin  
 108 (3 cred.) IV MWF 153TSF Mr. Short  
 117 (3 cred.) I MWF 218P Mr. Weidner  
 121 (3 cred.) II TThS 110P Mr. Ludwig  
 124 (3 cred.) VII MWF 213NH Mr. Christensen  
 126 (3 cred.) IV TThS 157TSF Mr. Latham  
 132 (3 cred.) II MWF 107NH Mr. Short  
 137 (3 cred.) II MWF 111NH Mr. Christensen  
 142 (3 cred.) IV MWF 213NH Mr. McClosky  
 161 (3 cred.) III MWF 111NH Mr. Kirkpatrick  
 165 (3 cred.) IV MWF 157TSF Mr. Kirkpatrick  
 181 (3 cred.) I TThS 157TSF Mr. McLaughlin  
 185 (3 cred.) I MWF 111NH Mr. Levi  
 192 (3 cred.) II MWF 110P Mr. Quigley  
 196 (3 cred.) III MWF 209NH Mr. Mills  
 204 (3 cred.) 1:00 to 2:20 TTh 102NH Mr. Latham  
 211 (3 cred.) 3:30 to 5:20 TTh 13Lib Mr. Latham, Mr. Ludwig, Mr. Short  
 214 (3 cred.) 11:00 to 12:20 TTh 101NH Mr. Christensen  
 217 (3 cred.) VII-VIII M 257TSF Mr. McClosky  
 223 (3 cred.) VII-VIII T 101NH Mr. Kirkpatrick  
 239 (3 cred.) Mr. McLaughlin  
 243 (3 cred.) Mr. Mills  
 246 (3 cred.) VII-VIII W 257TSF Mr. Quigley  
 249 (3 cred.)

## PSYCHOLOGY

- A (5 cred.) V MTWThF BuAud Mr. Longstaff  
 1 (3 cred.) Sec. 1 VIII MWF BuAud Mr. Heron  
 (3 cred.) 2 IX MWF BuAud Mr. MacCorquodale

- 2 (3 cred.) Sec. 1 I MWF BuAud Mr. Elliott and others  
 (3 cred.) 2 III MWF BuAud  
 (3 cred.) 3 V MWF NHAud
- 4 (2 cred.) I, II MW 211Psy
- 5 (2 cred.) Sec. 1 I, II TTh 211Psy Mr. Tinker and others  
 (2 cred.) 2 V, VI TTh 211Psy (2 cred.) 7 IX, X TTh 211Psy  
 (2 cred.) 3 VII, VIII TTh 211Psy (2 cred.) 8 IX, X MW 211Psy  
 (2 cred.) 4 V, VI MW 211Psy (2 cred.) 9 III, IV TS 211Psy  
 (2 cred.) 5 VII, VIII MW 211Psy (2 cred.) 10 I, II FS 211Psy  
 (2 cred.) 6 III, IV MW 211Psy
- 56 (3 cred.) VII MWF NHAud Mr. Longstaff
- 91 Mr. Elliott, Mr. Bird, Mr. Paterson, Mr. Tinker, Mr. Heron, Mr. Longstaff, Mr. Clark,  
 Mr. Meehl
- 102 (3 cred.) VII MWF 116Psy Mr. Tinker  
 VIII WF 116Psy
- 114 (3 cred.) II TThS 115Psy Mr. Elliott
- 126 (3 cred.) Sec. 1 II MWF 115Psy Mr. Paterson  
 (3 cred.) 2 II MWF 106Pt Mr. McClelland
- 127 (3 cred.) Mr. Paterson, Mr. Longstaff, Mr. McClelland
- 129 (3 cred.) II MWF 200Pt Mr. Heron
- 130 (3 cred.) Lect. IV TS 211Psy Mr. Paterson  
 Lab. Sec. 1 V, VI F 211Psy  
 2 VII, VIII F 211Psy
- 136 (2 cred.) VIII, IX M 115Psy Mr. McClelland
- 140 (3 cred.) III TThS 206Pt Mr. Bird
- 145 (3 cred.) IV MWF MNHAud Mr. Bird
- 148 (3 cred.) IV MWF 115Psy Mr. Hathaway
- 152 (3 cred.) Mr. Heron
- 160 (3 cred.) III MWF 206Pt Mr. John
- 167 (3 cred.) VIII MWF 111Bu Mr. Clark
- 171 (3 cred.) VI MWF 115Psy Mr. Meehl
- 200-201-202 IV S Mr. Tinker  
 203-204-205  
 210-211-212  
 215-216-217  
 220  
 225  
 230-231-232  
 250-251-252
- 256 (3 cred.) VII MWF NHAud
- 260-261-262  
 265-266-267
- 270-271-272 Mr. MacCorquodale
- 281-282-283  
 291  
 295-296-297 Mr. Paterson

## ROMANCE LANGUAGES

## FRENCH

- 1 (5 cred.) Sec. 1a III MTWThF 205F (5 cred.) 2a VII MTWThF 212F  
 (5 cred.) 1b III MTWThF 213F (5 cred.) 2b VII MTWThF 2F
- 2 (5 cred.) Sec. 1a I MTWThF 202 F (5 cred.) 2b VI MTWThF 5F  
 (5 cred.) 1b I MTWThF 201F (5 cred.) 3a VIII MTWThF 201F  
 (5 cred.) 1c I MTWThF 204F (5 cred.) 3b VIII MTWThF 104F  
 (5 cred.) 2a VI MTWThF 206F
- 2a (5 cred.) Dem. III MTWThF 111C Mr. Sirich  
 Lab. Sec. 1 VI MTWThF 115F 3 VII MTWThF 17F  
 2 VI MTWThF 17F 4 VII MTWThF 157TSF
- 3 (5 cred.) Sec. 1 III MTWThF 202F  
 2 VI MTWThF 6F
- 4 (5 cred.) Sec. 1a III MTWThF 5F  
 (5 cred.) 1b III MTWThF 3F  
 (5 cred.) 2 VII MTWThF 202F

- 20 (5 cred.) VI MTWThF 8F  
 50 (3 cred.) II TThS 203F Miss Guinotte  
 54 (3 cred.) Sec. 1a VI MWF 202F Mr. Fermaud  
     (3 cred.) 1b VI MWF 2F  
 64 (3 cred.) I MWF 203F Miss Guinotte  
 71 (3 cred.) IV MWF 201F Mr. Clefton  
 73 (5 cred.) III MTWThF 209½F Mr. Brackney  
 76 (3 cred.) III MWF 203F Mr. Fermaud  
 104 (1 cred.) VI F 200F Mr. Barton  
 119 (3 cred.) IV TTh and one hr ar 203F Mr. Sirich  
 122 (3 cred.) IV MWF 115F Mr. Desgranges  
 146 (3 cred.) II MWF 201F Mr. Barton  
 172 (1 cred.) Mr. Brackney  
 202 (2 cred.) Mr. Brackney  
 205 (2 cred.) Mr. Brackney  
 226 (2 cred.) IX, X F Mr. Fermaud

## ITALIAN

- 2 (4 cred.) IV MTWF 302F Miss Nissen  
 5 (5 cred.) VI MTWThF 201F Miss Nissen  
 71 (3 cred.) II TTh 302F Miss Nissen  
 162 (3 cred.) II MWF 302F Miss Nissen

## PORTUGUESE

- 2 (5 cred.) VII MTWThF 206F

## SPANISH

- |  |           |                     |
|--|-----------|---------------------|
| 1 (5 cred.) Sec. 1a III MTWThF 207TSF          | (5 cred.) | 2c VII MTWThF 112Bu |
| (5 cred.) 1b III MTWThF 209TSF                 | (5 cred.) | 3a IX MTWThF 207F   |
| (5 cred.) 1c III MTWThF 257TSF                 | (5 cred.) | 3b IX MTWThF 212F   |
| (5 cred.) 2a VII MTWThF 205F                   | (5 cred.) | 3c IX MTWThF 213F   |
| (5 cred.) 2b VII MTWThF 103TSF                 |           |                     |
| 2 (5 cred.) Sec. 1a I MTWThF 226F              | (5 cred.) | 2d IV MTWThF 202F   |
| (5 cred.) 1b I MTWThF 4F                       | (5 cred.) | 3a VI MTWThF 114F   |
| (5 cred.) 1c I MTWThF 5F                       | (5 cred.) | 3b VI MTWThF 4F     |
| (5 cred.) 2a IV MTWThF 4F                      | (5 cred.) | 4a VII MTWThF 113F  |
| (5 cred.) 2b IV MTWThF 5F                      | (5 cred.) | 4b VII MTWThF 3F    |
| (5 cred.) 2c IV MTWThF 8F                      |           |                     |
| 2a (5 cred.) Dem. II MTWThF 2F Mrs. Mills      |           |                     |
| Lab. Sec. 1a VI MTWThF 203F                    |           |                     |
| 1b VI MTWThF 143Ph                             |           |                     |
| 2a VIII MTWThF 4F                              |           |                     |
| 2b VIII MTWThF 8F                              |           |                     |
| 3 (5 cred.) Sec. 1a II MTWThF 202F             |           |                     |
| (5 cred.) 1b II MTWThF 204F                    |           |                     |
| (5 cred.) 2 VIII MTWThF 202F                   |           |                     |
| 4 (5 cred.) Sec. 1a II MTWThF 3F               | (5 cred.) | 2b IV MTWThF 114F   |
| (5 cred.) 1b II MTWThF 4F                      | (5 cred.) | 2c IV MTWThF 206F   |
| (5 cred.) 1c II MTWThF 226F                    | (5 cred.) | 3 VI MTWThF 110F    |
| (5 cred.) 2a IV MTWThF 9F                      |           |                     |
| 20 (5 cred.) III MTWThF 201F Mr. Cunéo         |           |                     |
| 52 (1 or 2 cred.)                              |           |                     |
| 54 (3 cred.) Sec. 1a II TThS 206F Miss Corbett |           |                     |
| (3 cred.) 1b II TThS 125F                      |           |                     |
| (3 cred.) 2 III TThS 303F Mrs. Mills           |           |                     |
| 57 (5 cred.) VII MTWThF 311F Mr. Cunéo         |           |                     |
| 61 (3 cred.) Sec. 1a VI MWF 209F               |           |                     |
| (3 cred.) 1b VI MWF 204F                       |           |                     |
| 66 (3 cred.) Sec. 1a VI MWF 205F Mr. Pattison  |           |                     |
| (3 cred.) 1b VI MWF 311MurH                    |           |                     |



68 (5 cred.)	VI MTWThF 3F
71 (3 cred.)	IV MWF 203F Mr. Le Fort
75 (3 cred.)	II MWF 304F Miss Shulet
104 (1 cred.)	IV T 209½F Mr. Pattison
116 (3 cred.)	VII MWF 4F Mr. Grismer
141 (3 cred.)	VIII MWF 110F Mr. Le Fort
144 (3 cred.)	III MWF 4F Mr. Angeles
175 (3 cred.)	IV MWF 6F Mr. Pattison
245 (2 cred.)	IX-X F 203F Mr. Grismer
251 (2 cred.)	IX-X W 203F Mr. Pattison
254 (2 cred.)	VIII, IX T 203F Mr. Angeles

## RUSSIAN

2 (5 cred.)	VII MTWThF 100NH Miss Niemi
52 (3 cred.)	VI MWF 111TSF Miss Niemi
62 (2 cred.)	VI TTh 111TSF Miss Niemi
72 (3 cred.)	VIII MWF 111TSF Miss Niemi
102 (3 cred.)	VII MWF 111TSF

## SCANDINAVIAN

2 (5 cred.)	VI MTWThF 12F
5 (3 cred.)	VII MWF 12F
8 (5 cred.)	II MTWThF 12F Mrs. Lorenzen
11 (3 cred.)	III MWF 12F
22 (3 cred.)	V MWF 12F Mr. Gustafson and staff with lect. by Mr. Blegen, Mr. Steefel, Mr. Stephenson, and others
161 (3 cred.)	Mr. Gustafson
172 (3 cred.)	IV MWF 12F Mr. Gustafson
192 (3 cred.)	Mr. Gustafson
216	Mr. Gustafson
222	Mr. Gustafson

## SOCIOLOGY AND SOCIAL WORK

## SOCIOLOGY

1 (5 cred.)	Lect. Sec. 1 II TThS NHAud Mr. Monachesi and others and one of the following sections	
Rec. Sec.	1a I WF 259TSF	4a VI MW 107NH
	1b I WF 107NH	4b VI MW 259TSF
	2a II MW 103TSF	5 VII MW 259TSF
	2b II MW 100NH	6a III TTh 107NH
	3a IV MW 107NH	6b III TTh 259TSF
	3b IV MW 110P	
(5 cred.)	Lect. Sec. 2 VII MWF 211NH Mr. Johanson and others and one of the following sections	
Rec. Sec.	7 III MW 107NH	10 VI WF 102NH
	8 V MW 102NH	11 VIII TTh 102NH
	9 V TTh 102NH	12 VIII WF 102NH
1 (3 cred.)	III TThS 102Hr(UF)	
2 (5 cred.)	Lect. Sec. 1 I TThS NHAud Mr. Caplow	
Rec. Sec.	1a I WF 153TSF	3a IV MW 218P
	1b I WF 157TSF	3b IV MW 14P
	2a II TTh 102NH	4a VI TTh 103NH
	2b II TTh 218P	4b VI TTh 14P
14 (3 cred.)	IV MWF 207NH Mr. Nelson, Mr. Marshall	
14 (3 cred.)	IV TThS 102Hr (UF) Mr. Nelson, Mr. Marshall	
45 (5 cred.)	Lect. IV MWF 216NH	
Lab. Sec.	1 VI, VII MW 122NH Mr. Johnson	
	2 VI, VII TTh 122NH	
49 (3 cred.)	Sec. 1 II MWF 2P Mr. Kyllonen	
	2 II TThS 2P Mr. Kyllonen	
50 (4 or 5 cred.)	II TThS MurH, VI Th 2P and 3 hrs. of observation for sequence D students Miss Nagel	

- 51 (4 or 5 cred.) III TThS 106NH and VII T 207NH and 3 hrs. of observation for sequence D students Miss Nagel  
53 (3 cred.) III MWF 211NH Mr. Vold  
98 (3 cred.)  
100 (3 cred.) I TThS 106NH Mr. Kirkpatrick  
103 (3 cred.) II MWF 106NH Mr. Vold  
107 (3 cred.) VII MWF 106NH Mr. Vold  
114 (3 cred.) I TThS 2P Mr. Nelson  
118 (3 cred.) II TThS 106NH Mr. Kirkpatrick  
119 (3 cred.) IV TThS 106NH Mr. Kirkpatrick  
140 (3 cred.) IV MWF 106NH Mr. Smith  
141 (3 cred.) III MWF 106NH Mr. Chapin  
160 (3 cred.) VII MWF 103NH Mr. Marshall  
161 (3 cred.) II TThS 101NH Mr. Caplow  
200 Mr. Vold  
201 Mr. Kirkpatrick  
207 Mr. Chapin  
216 Mr. Nelson  
234 Mr. Monachesi  
239 (3 cred.) Mr. Monachesi

## SOCIAL WORK

- 201 (3 cred.) III TThS 210P Mrs. Doyle  
206 Staff  
209 Mrs. Doyle  
211 MWF Staff  
215 MWF Staff  
216 MWF Staff  
217 MWF Staff  
219 IX, X Th 100NH  
221 (3 cred.) Sec. 1 II TThS 153TSF Mrs. Scott  
2 IV TThS 153TSF Mrs. Scott  
222 (3 cred.) III, TThS 203TSF Mrs. Fenlason  
224 IX, X Th 103NH Mrs. Scott  
225 IX, X T 100NH Mrs. Fenlason  
226 IX, X T 101NH Miss Mueller  
227 IX, X T 103NH Mrs. Shea  
236 (2 cred.) VI, VII T 106NH  
237 (3 cred.) VI TTh, VII T 159TSF Dr. Baker  
242 (3 cred.) II TThS 115Psy Mr. Elliot  
243 (2 cred.) VIII, IX Th 112Bu Miss Blodgett  
244 (2 cred.) III, IV S 106Pt  
246A (3 cred.) VI MWF 115Psy Mr. Meehl  
252 (3 cred.) III TThS 253TSF Miss Mueller  
254 (3 cred.) I TThS 214MH Dr. Anderson  
256 (2 cred.) VI TThS 214MH  
259 VIII, IX 107NH Miss Mueller  
260 (3 cred.) IV TThS 207NH Mr. Guilford  
265 Mr. Monachesi  
266 VIII, IX Th 106NH Mr. Guilford  
268 (3 cred.) I TThS 111NH Mr. Guilford  
269 IX, X F 103NH Mr. Kidneigh  
270A (3 cred.) VII MWF 213NH Mr. Christensen  
275 (3 cred.) IV TThS 107NH Mr. Kidneigh  
276 (3 cred.) I TThS 100NH Mr. Adelsheim  
278 (3 cred.) II TThS 101NH Mr. Caplow  
289 VI, VII T 211TSF Mrs. Konopka  
292 (3 cred.) III MWF 106NH Mr. Chapin  
293 Ar  
299 VI, VII Th 153TSF Mr. Monachesi  
300 Staff

## SPEECH

- 1 (3 cred.) Sec. 1a II MWF 10P Mr. Gilkinson and others  
 (3 cred.) 1b II MWF 207TSF (3 cred.) 4a VII MWF 159TSF  
 (3 cred.) 1c II MWF 109TSF (3 cred.) 4b VII MWF 209TSF  
 (3 cred.) 1d II MWF 153TSF (3 cred.) 5a VIII MWF 107NH  
 (3 cred.) 1e II MWF 257TSF (3 cred.) 5b VIII MWF 203TSF  
 (3 cred.) 2 III MWF 253TSF (3 cred.) 5c VIII MWF 159TSF  
 (3 cred.) 3a IV MWF 101NH (3 cred.) 6 II TThS 209TSF  
 (3 cred.) 3b IV MWF 257TSF
- 2 (3 cred.) Sec. 1 I MWF 103NH Mr. Gilkinson and others  
 (3 cred.) 2a II MWF 103NH (3 cred.) 6b VII MWF 101NH  
 (3 cred.) 2b II MWF 311½F (3 cred.) 6c VII MWF 102NH  
 (3 cred.) 3a III MWF 6F (3 cred.) 7 VIII MWF 207NH  
 (3 cred.) 3b III MWF 2F (3 cred.) 8a I TThS 107NH  
 (3 cred.) 4 IV MWF 253TSF (3 cred.) 8b I TThS 103NH  
 (3 cred.) 5a VI MWF 103NH (3 cred.) 9 II TThS 103NH  
 (3 cred.) 5b VI MWF 101NH (3 cred.) 10 III TThS 2F  
 (3 cred.) 5c VI MWF 305F (3 cred.) 11a IV TThS 2F  
 (3 cred.) 6a VII MWF 207TSF (3 cred.) 11b IV TThS 6F
- 3 (3 cred.) Sec. 1a III MWF 305F Mr. Gilkinson and others  
 (3 cred.) 1b III MWF 311F  
 (3 cred.) 1c III MWF 321F
- 5 (5 cred.) 1a IV MTWThF 159TSF Mr. Gilkinson and others  
 (5 cred.) 1b IV MTWThF 109TSF (5 cred.) 2c VI MTWThF 253TSF  
 (5 cred.) 2a VI MTWThF 207TSF (5 cred.) 3 VII MTWThF 307MNH  
 (5 cred.) 2b VI MTWThF 209TSF
- 6 (5 cred.) 1a III MTWThF 157TSF Mr. Gilkinson and others  
 (5 cred.) 1b III MTWThF 8F (5 cred.) 2c IV MTWThF 107TSF  
 (5 cred.) 2a IV MTWThF 308MurH (5 cred.) 3 VI MTWThF 203TSF  
 (5 cred.) 2b IV MTWThF 100NH (5 cred.) 4 V MTWThF 107NH
- 33 (3 cred.) I MWF 19Mu Mrs. Turner
- 32 (3 cred.) Sec. 1 I TThS 19Mu  
 (3 cred.) 2 II TThS 19Mu Mr. Whiting
- 56 (3 cred.) VII MWF 107NH Mr. Gilkinson
- 66 (3 cred.) III MWF 302MurH
- 67 (3 cred.) I MWF 306F Mr. Irwin
- 72 (3 cred.) IV MWF 19Mu
- 78 (3 cred.) IV TThS 19Mu Mr. Graham
- 81 (3 cred.) I TThS 306F Mr. Rarig
- 82 (3 cred.) Sec. 1a IV MWF 308F Mr. Rarig  
 (3 cred.) 1b IV MWF 306F Mr. Thompson  
 (3 cred.) 2 VI MWF 306F
- 91 (3 cred.) III TThS 19Mu
- 97 (1 to 3 cred.) Mr. Rarig
- 102 (3 cred.) Sec. 1 III MWF 306F Mr. Howell  
 (3 cred.) 2 VI MWF 257TSF Mr. Howell
- 106 (3 cred.) VII MWF 226F Mr. Howell
- 112 (3 cred.) III MWF 19Mu Mr. Whiting
- 116 (1 to 3 cred.) IV TThS Mr. Thompson
- 142 (3 cred.) VII MWF 306F Mr. Irwin
- 153 (3 cred.) II MWF 306F Mr. Hedgecock
- 162 (3 cred.) VI T, VI, VII Th 306F Mr. Bryngelson
- 165 (3 cred.) VIII WF and ar 306F Mr. Bryngelson
- 175 (3 cred.) VII T, VI, VII Th Mr. Whiting
- 182 Mr. Rarig, Mr. Bryngelson, Mr. Gilkinson, Mr. Howell, Mr. Whiting
- 185 (3 cred.) IX, X W 311½F Mr. Bentley
- 201 Staff
- 208 Mr. Howell
- 212 VIII-IX Th Mr. Thompson
- 222 Mr. Rarig
- 232 Mr. Gilkinson
- 262 VIII, IX T 306F Mr. Henrikson
- 292 Mr. Rarig, Mr. Bryngelson, Mr. Gilkinson, Mr. Whiting

## ZOOLOGY

- 2 (3½ cred.) Sec. 1 II TTh 06Bo Mr. Minnich  
 (3½ cred.) 2 IV WF 06Bo Mr. Wodsedalek  
 (3½ cred.) 3 VII TTh 06Bo Mr. Olson  
 (3½ cred.) 4 VIII WF 06Bo Mr. Dawson  
 Lab. Sec. 1 I, II MF 101,107Z  
 2 III, IV MF 101,107Z  
 3 V, VI MF 101,107Z  
 4 VII, VIII MF 101,107Z  
 5 IX, X MF 107Z  
 6 I, II TTh 107Z  
 7 III, IV TTh 101,107Z
- 15 (3 cred.) Lect. Sec. 1 IV TTh 06Bo Mr. Dawson  
 (3 cred.) 2 VII TTh NHAud  
 Lab. Sec. 1 V, VI TTh 101,107Z  
 2 VII, VIII TTh 101,107Z  
 3 IX, X TTh 101,107Z
- 22 (5 cred.) III TThS 313Z Mr. Eddy  
 Lab. Sec. 1 VI, VII, VIII TTh Sub3Z  
 2 VI, VII, VIII MW Sub3Z  
 3 III, IV MWF Sub3Z
- 46 (3 cred.) VI, VII, VIII MW 307MNH
- 52 (5 cred.) Lect. VI MWF 313Z Mr. Mickel  
 Lab. VII, VIII MWF 208,202Z
- 82 (3 cred.) II MWF 313Z Mr. Dawson
- 107 (3 cred.) Lect. and Lab. III, IV, V TTh 208Z Mr. Osterud
- 110 (3 cred.) Lect. and Lab. III, IV MWF 211,18Z Mr. Minnich
- 113 (3 cred.) Lect. VI MF 209Z Mr. Steinbach  
 Lab. VI, VII, VIII, IX W 18Z
- 118 (3 cred.) Lect. VI TTh 211Z Mr. Eddy  
 Lab. VII, VIII TTh Sub3Z Mr. Hodson
- 126 (3 cred.) Lect. I TTh 211Z Mr. Mickel  
 Lab. I, II, III S 402Z
- 129 (4 cred.) Lect. VI WF 15Ad(UF) Mr. Richards  
 Lab. VII, VIII, IX WF 8Ad(UF)
- 145 (3 cred.) Lect. and Lab. VII, VIII, IX TTh 208Z Mr. Wallace
- 149 (3 cred.) Lect. and Lab. II, III, IV TTh 201,209Z Mr. Ringoen
- 155 (3 cred.) Lect. and Lab.
- 161 (3 cred.) Lect. and Lab. VI, VII, VIII TTh 204Z Mr. Wodsedalek
- 171 (3 cred.) Lect. and Lab. VII, VIII, IX MW 209Z, 16Z
- 182 (3 cred.) III MWF 313Z Mr. Ringoen
- 198 (5 or more cred.)  
 101 Ar  
 202 Mr. Mickel  
 212 Mr. Eddy  
 218 Mr. Minnich, Mr. Steinbach  
 222 Mr. Schmitt  
 230 Mr. Ringoen  
 234 Mr. Ringoen  
 238 Mr. Wodsedalek  
 242 Mr. Osterud  
 252 Mr. Reed  
 262 Mr. Wallace  
 292 Ar  
 297 Ar

## COLLEGE OF EDUCATION

### EDUCATION

- 51A (3 cred.) Sec. 1a I MWF 200Pt Mr. Dugan  
(3 cred.) 1b I MWF 106Pt  
(3 cred.) Sec. 2a III MWF 5Lib Mr. Van Wagenen  
(3 cred.) 2b III MWF 115C Mr. Keller  
(3 cred.) Sec. 3 VII MWF 202Pt Mr. Anderson  
51B (3 cred.) III TThS 200Pt Mr. Anderson  
51C (3 cred.) Sec. 1a IV MWF 106Pt Miss Eckert  
(3 cred.) 1b IV MWF 200Pt Mr. Cary  
71B (5 cred.) III MWF 200Pt Mr. Bond  
Sec. 1 I-II TTh Tuttle School  
2 III-IV TTh Tuttle School  
81 (3 cred.) II MWF 5Lib Miss Grout  
W Mr. Grim

### AGRICULTURAL EDUCATION

- 1 (1 cred.) VI M 301Hr  
54 (2 cred.) IV T 301Hr Mr. Field  
81 (3 cred.) IV MWF 301Hr Mr. Field  
91 (6 cred.) Mr. Peterson  
101 (3 cred.) II MWF 301Hr Mr. Peterson  
103 (3 cred.) III MWF 301Hr Mr. Field  
104 (2 cred.) III TTh 301Hr Mr. Field  
154 (2 cred.) Mr. Field  
199E Mr. Field, Mr. Peterson  
221 (3 cred.) Mr. Field, Mr. Peterson  
232 (3 to 9 cred.) Mr. Field, Mr. Peterson  
291 Mr. Field, Mr. Peterson

### ART EDUCATION

- 15 (3 cred.) Lect. IV T 109J Mr. Gayne and others  
Lab. III T; III, IV Th 109J Mr. Gayne  
18 (3 cred.) Lect. IV T 109J Mr. Gayne and others  
Lab. Sec. 1 I-II TTh 109J Mr. Gayne  
2 VI, VII MW 109J Mr. Gayne  
84 (3 cred.) VII TTh 109J Mr. Gayne  
87 (4 cred.) MF Art Ed. staff  
153 (3 cred.) VIII-IX WF 109J Mr. Torbert  
157 (3 cred.) IX-X Th 104J Miss Lien  
284  
295

### CURRICULUM AND INSTRUCTION

- 63 (2 cred.) VI TTh 200Pt Miss Smith  
64 (3 cred.) VI MWF 200Pt Miss Smith  
105 (3 cred.) VII MWF 101WeH Mr. Wendt  
106 (3 cred.) III-IV S 101WeH Mr. Wendt  
108 (2 cred.) III, IV S 302MurH Mr. Tyler  
113 (3 cred.) I-II S 200Pt Mr. Bossing  
119 (3 cred.) III-IV S 213TNUHS Mr. Cook  
121 (3 cred.) 3:00-4:30 TTh 3NGW Miss Baker  
130 (2 cred.) VIII-IX W 106Pt Mrs. Fuller  
137 (3 cred.) IX-X Th 109UHS Mr. Meyer  
144 (3 cred.) I-II S 109UHS Mr. Bond  
149 (2 cred.) III-IV S 106UHS Mr. Brueckner  
151 (3 cred.) III MWF 213TNUHS Mr. Brueckner  
153 (3 cred.) I-II S 112TNUHS Mr. Archer

- 157 (3 cred.) Mr. Brueckner  
 168 (2 cred.) III-IV S 112TNUHS Mr. Wesley  
 169 (2 cred.) III TTh 202Pt Mr. Bossing  
 171 (2 to 6 cred.) Mr. Bossing, Mr. Cook, Mr. Archer  
 175 (3 cred.) VIII W 109Psy Mr. Bryngelson and staff  
 181 (3 cred.) IX-X M 106UHS Mr. Brueckner  
 199E Mr. Grim  
 201 (3 cred.) IX- X T 226Bu Mr. Wesley  
 205 Mr. Wendt  
 207 (1 to 3 cred.) Mr. Tyler  
 215 Miss Grout  
 216 Miss Grout  
 217 Miss Grout  
 222 IX-X W 200Pt Mr. Bossing, Mr. Johnson, Miss Smith, Mr. Wesley  
 225 218Bu Mr. Boardman  
 226 IX-X Th 106UHS Mr. Bond, Mr. Brueckner, Mr. Cook, Mr. Archer  
 227 Mr. Archer  
 228 Mr. Peik, Mr. Cooper, Mr. Anderson, Miss Eckert  
 238 (3, 6, or 9 cred.) Mr. Meyer  
 251 (3 cred.) I-II S 110UHS Miss Eckert  
 261 (3 cred.) 220Bu Mr. Brueckner  
 271 (2 or 3 cred.) Mr. Bossing, Mr. Cook, Mr. Archer  
 273 (2 to 9 cred.) Mr. Bond  
 296 S 201Bu Miss Smith

## EDUCATIONAL ADMINISTRATION

- 115 (3 cred.) I-II S 206UHS  
 174 (3 cred.) IV MWF 112TNUHS Mr. Boardman  
 218 IX-X W 112TNUHS Mr. Boardman, Mr. Bossing  
 225 (3 cred.) I MWF 213TNUHS Mr. Neale  
 228 (1 or 3 cred.) 224Bu Mr. Neale  
 235 224Bu Mr. Neale  
 253 (3 cred.) I TTh, II T 112TNUHS Mr. Neale  
 264 (3 cred.) III MWF 202TNUHS Mr. Boardman  
 270 Mr. Boardman, Mr. Bossing

## EDUCATIONAL PSYCHOLOGY

- 114 (2 cred.) IX-X W 109Psy Mr. Van Wageningen  
 120 (3 cred.) VII MWF 102L Mr. Cook  
 140 (3 cred.) VII-VIII TTh 106Pt Mr. Cook  
 141 (3 cred.) VII MWF 109Psy Mr. Miller  
 150 (2 to 3 cred.) V W Mr. Bond  
 208 (2 or 3 cred.) VIII MW 201WuH Mr. Johnson  
 217 (3 cred.) II MWF 201WuH Mr. Johnson  
 220 (2 cred.) IX-X T 109Psy Mr. Van Wageningen  
 225 (3 cred.) IV MWF 201WuH Mr. Wrenn  
 233 V-VI W 106Pt Miss Edwards, Mr. Wrenn, Mr. Dugan  
 240 (2 cred.) Mr. Johnson  
 243 Mr. Johnson  
 252 (3 cred.) III MWF 109Psy Mr. Wrenn  
 253 Mr. Miller, Mr. Bond, Mr. Cook, Mr. Anderson, Mr. Van Wageningen  
 281 (2 to 3 cred.) Miss Edwards, Mr. Wrenn, Mr. Dugan, Miss Hagenah  
 291 (3 cred.) III MWF 115Psy Mr. Miller  
 293 (3 cred.) IV TThS 202Pt Mr. Anderson

## HISTORY AND PHILOSOPHY OF EDUCATION

- 71 (5 cred.) IV MTWThF 115C Miss Alexander  
 74 (3 cred.) VII TTh 200Pt Mr. Beck  
 102 (3 cred.) VI MWF 202TNUHS Miss Alexander  
 110 (3 cred.) I-II S 202Pt Mr. Cary, Mr. Beck

- 140 (3 cred.) IX-X M 111Bu Mr. Beck  
 176 (2 cred.) IX-X T 106Pt Mr. Beck  
 180 (3 cred.) VI TTh 102L Mr. Cary  
 241 Mr. Wesley, Miss Alexander, Mr. Cary, Mr. Beck

## HOME ECONOMICS EDUCATION

- 91 (5 cred.) VIII MWF 114HE Miss Rose  
 IX M Miss Kafka  
 92 (2 cred.) VII TTh 114HE Miss Rose, Miss Kafka  
 93 (3 cred.)  
 94 (3 cred.) Miss Rose, Miss Kafka, and others  
 192 (2 or 3 cred.) VIII TTh 213HE Mrs. Army  
 193B (2 or 3 cred.) III MWF 114HE Mrs. Army  
 199E Miss Rose  
 243 (3 cred.) III-IV S 114HE Miss Rose  
 293 (1 to 9 cred.) Mrs. Army, Miss Rose  
 294 (3 to 6 cred.) VI MWF 203HE Mrs. Army, Miss Rose  
 295 (1 to 3 cred.) IX Th 114HE Mrs. Army, Miss Rose

## INDUSTRIAL EDUCATION

- 1 (3 cred.) VII-VIII-IX TTh 6Pt Mr. Nelson  
 11 (2 cred.) I-IV S 6Pt Mr. La Berge  
 42 (2 cred.) IX-X W 213TNUHS Mr. Micheels  
 50B (2 cred.) 6Pt Mr. Nelson  
 61 (2 cred.) IX-X M 213TNUHS Mr. Widdowson  
 66 (2 cred.) IX-X T 202TNUHS Mr. Widdowson  
 70 (3 cred.) VII MWF 202TNUHS Mr. Micheels  
 102 (2 cred.) I-II S 202TNUHS Mr. Micheels  
 108 (2 cred.) III-IV S 202TNUHS Mr. Widdowson  
 110 (3 cred.) II MWF 202TNUHS Mr. Smith  
 170 (2 cred.) IX-X Th 202TNUHS Mr. Micheels  
 172 (3 cred.) IV MWF 202TNUHS Mr. Smith  
 200 (3, 6, or 9 cred.) III MWF Mr. Micheels  
 251 (3 cred.) IX MWF 202TNUHS Mr. Smith

## METHODS AND DIRECTED TEACHING

- 51A (4 cred.) VI MWF 113MeS Miss Harrington, Miss Boyle  
 51B (4 cred.) III MWF 113MeS Miss Harrington, Miss Boyle  
 52 (5 cred.)  
 53A (5 to 8 cred.) Mr. Bond  
 53B (5 to 8 cred.) Mr. Bond  
 54A (3 cred.) Mr. Staudenmaier  
 54B (5 cred.) Mr. Staudenmaier  
 54C (3 to 5 cred.) Mr. Staudenmaier  
 57 (5 cred.) VIII MTWThF 200Pt Miss Headley  
 66A (3 cred.) VIII TTh 115Psy Miss Smith  
 66Am (2 cred.) VIII TTh 115Psy Miss Smith  
 67B (3 cred.) VIII TTh 201WuH Mr. Donovan Johnson  
 67Bm (2 cred.) VIII TTh 201WuH Mr. Donovan Johnson  
 68B (3 cred.) IX MW 110UHS Mr. Palmer Johnson  
 68Bm (2 cred.) IX MW 110UHS Mr. Palmer Johnson  
 69B (3 cred.) VIII MW 206Pt Mr. Wesley  
 69Bm (2 cred.) VIII MW 206Pt Mr. Wesley  
 70 (3 cred.) V TTh 202Pt Mrs. Cummings  
 70B (3 cred.) IX MW 109UHS Miss Birkmaier  
 71B (3 cred.) IX MW 109UHS  
 73B (2 cred.) VIII MW 213TNUHS  
 74 (3 cred.) VII MWF 311MurH Mr. Kildow  
 77A (4 cred.) IX M 200Pt Mrs. Fuller

- 77B (4 cred.) IX M 200Pt Mrs. Fuller  
 77C (4 cred.) IX M 200Pt Mrs. Fuller  
 81 (2 cred.) IX MW 113TNUHS Mrs. Odland  
 83 (3 cred.) III MWF 201NGW Miss Starr  
 84B (2 cred.)  
 85B (1 or 2 cred.) Mr. Haislet  
 88B (3 cred.) VIII TTh 115Psy Miss Smith

## MUSIC EDUCATION

- 5 (2 cred.) III MTWF 4NMA Mr. Prescott  
 50B (2 cred.) III TTh 4Mu Mr. Winslow  
 59 (2 cred.) V TTh 4Mu Mr. Winslow  
 61 (3 cred.) IX-X W 4Mu Mr. Winslow  
 63 (2 cred.) VI TTh 12NMA Mr. Prescott  
 65 (3 cred.) II TThS 4Mu  
 105E (3 cred.) IV MWF 4Mu Mr. Winslow  
 224E (2 to 6 cred.) Mr. Winslow and others  
 225E (2 to 4 cred.)

## NURSING EDUCATION

- 28 (3 cred.)  
 29A (6 cred.)  
 33A (6 cred.)  
 34A (6 cred.)  
 37A (6 cred.)  
 40A (6 cred.) Miss Weise  
 46A (12 cred.)  
 47A (11 cred.)  
 52A (6 cred.)  
 57A (11 cred.)  
 59 (5 cred.)  
 60 (4 cred.) V MWThF 113MeS Mrs. Randall  
 61A (6 cred.)  
 65 (4 cred.) VII, VIII TTh 111MeS Miss Harrington, Miss Kitchell, and others  
 72 (3 cred.) VIII TTh Miss Boyle  
     IX Th 113MeS  
 73 (1 cred.) V T 113MeS Miss Gorgas  
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 162 (3 cred.) I MWF 113MeS Miss Gordon

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- 4A (1 cred.) VII-VIII TTh FdH Mr. MacMillan, Mr. Kelly, Mr. Svendsen  
 5B (1 cred.) III MWF CH App. Gym Mr. Ostrander  
 6B (1 cred.) III-IV TTh 206CH Mr. Roning, Mr. Svendsen, Mr. Romnes  
 6C (1 cred.) IV MWF CH Pool Mr. Thorpe, Mr. Ostrander  
 7B (1 cred.) II-III TTh Box. and Wt. Rms. Mr. Piper, Mr. Bartelma, Mr. Ostrander, Mr. Chisholm  
 9A (1 cred.) V T, VI TTh CH Gym Mr. Piper, Miss Bell  
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 23B (1 cred.) V F 206CH Mr. Fitzgerald  
 52 (3 cred.) VI WF 205CH Mr. Rickman  
 55 (4 cred.) III MWF 215CH, 205CH Mr. Bartelma  
 57 (3 cred.) VII MWF 206CH Mr. Fitzgerald  
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 65 (3 cred.) II MWF 214CH Mr. Osell  
 72 (2 cred.) VI MWF 214CH Mr. MacMillan  
 74 (2 cred.) V M 214CH Mr. Bartelma  
 78 (2 cred.) VII MW 214CH Mr. Osell  
 101 (3 cred.) I MWF 215CH Mr. Keller  
 111E (3 cred.) VI MWF 215CH Mr. Fitzgerald  
 141 (3 cred.) IX-X 214CH Mr. Fitzgerald  
 199E Ar



- 233 (3 cred.) II MWF 214CH Mr. Nordly  
 241 (3 cred.) II TThS 214CH Mr. Fitzgerald  
 261 Mr. Nordly, Mr. Haislet

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 (½ cred.) 8 I TTh 153aNGW  
 25 (1 cred.) II MW 201NGW  
 41B (½ cred.) 8 III TTh 60NGW  
 (½ cred.) 9 III MW 151NGW  
 (½ cred.) 10 VII TTh 151NGW  
 (½ cred.) 11 I TTh 153NGW  
 (½ cred.) 12 II TTh 153NGW  
 57B (1 cred.) III TThS 58NGW Mrs. Larson  
 61B (1 cred.) II MWF 151NGW Miss Rugh  
 IV T 201NGW  
 64 (1 cred.) II TTh 151NGW  
 65B (1 cred.) III MWF 60NGW Miss Jaeger  
 73C (1 cred.) I TThS 151NGW Miss Bockstruck  
 82 (3 cred.) II MWF 3NGW Miss Starr  
 83 (See Ed.T 83) 201NGW  
 86 (3 cred.) III TThS 3NGW Miss Starr, Miss Riddle  
 90B (3 cred.) Lect. II TTh 3NGW Miss Starr  
 (3 cred.) Lab. IV T 201NGW Miss Starr  
 113E (3 cred.) 3:00-4:30 TTh 3NGW Miss Baker  
 87 (2 cred.) VIII TTh 151NGW

# COLLEGE OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS

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- 116 (3 cred.) III TThS 113SnH Mr. Schultze
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- (3 cred.) 2 I TThS 100HH Mr. Halvorson
- (3 cred.) 3 III MWF 109HH Mr. Lowe
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- 2 (5 cred.) Sec. 1 I MTWThF 109HH Mr. Lowe
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- (5 cred.) 3 III MTWThF 100HH
- 3 (5 cred.) II MTWThF 109HH Mr. Lowe
- 25 (4 cred.) Lect. II TThS 311HH Mr. Koller
- Lab. VIII, IX Th 311HH
- 102 (3 cred.) II TThS 210HH Mr. Pond
- 131 (3 cred.) III TThS 312HH Mr. Waite
- 141 (3 cred.) II MWF 312HH Mr. Jesness
- 143 (3 cred.) III MWF 312HH Mr. Dowell
- 170 (3 cred.) 1:30-3:00 WF 312HH Mr. Dowell
- 191 (3 cred.) IV MWF 312HH Mr. Waite
- 206 (3 cred.) 2:30-5:00 Th 312HH Mr. Jesness

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- 3 (3 cred.) Sec. 1 VII, VIII, IX TTh 303En Mr. Otis
- (3 cred.) 2 303En
- 11 (5 cred.) Sec. 1 IV MTWThF 103En Mr. Hustrulid
- (5 cred.) 2 III MTWThF 103En Mr. Flikke
- 15 (2 cred.) VI TTh 101 En Mr. Hustrulid
- 23 (5 cred.) Lect. I MWF 101En Mr. Hustrulid
- Lab. Sec. 1 VI, VII, VIII, IX T 102En Mr. Tyler
- 2 VI, VII, VIII, IX W 102En Mr. Hustrulid
- 25 (4 cred.) Lect. I TThS 101En Mr. Hustrulid
- Lab. Sec. 1 VI, VII M 102 En Mr. Hustrulid
- 2 VI, VII F 102En Mr. Hustrulid
- 31 (3 cred.) II MWF 101En Mr. Manson

- 32 (2 cred.) 105En Mr. Allred  
 37 (3 cred.) I MWF 103En Mr. Tyler  
 51 (5 cred.) VI MTWThF 105En Mr. Manson, Mr. Allred  
 102 (2 to 6 cred.) 105En Mr. Manson  
 105 (3 cred.) 105En Mr. Manson  
 112 (2 to 6 cred.) 305En Mr. White, Mr. Otis, Mr. Christopherson  
 122 (2 to 6 cred.) 216En Mr. Schwartz, Mr. Hustrulid, Mr. Strait  
 126 (3 cred.) Lect. III MW 105En Mr. Schwantes  
 202 (2 to 6 cred.)  
 212 (2 to 6 cred.) Mr. Otis, Mr. Christopherson  
 222 (2 to 6 cred.) Mr. Schwantes, Mr. Hustrulid, Mr. Strait

### AGRICULTURAL JOURNALISM

- 53 (3 cred.) I TThS 307Ad Mr. Johnson

### AGRONOMY AND PLANT GENETICS

- 21 (4 cred.) Lect. VI MWF 202Ag Mr. Dunham  
 Lab. VII MWF 201Ag Mr. Dunham  
 31 (4 cred.) Lect. I TThS 202Ag Mr. Lambert  
 Lab. 201Ag Mr. Lambert  
 121 (4 cred.) Lect. VI MWF 202Ag Mr. Dunham  
 Lab. VII MWF 201Ag Mr. Dunham  
 131 (4 cred.) Lect. I TThS 202Ag Mr. Lambert  
 Lab. 201Ag Mr. Lambert  
 132 (4 cred.) VI, VII, VIII 202Ag Mr. Rinke  
 201 (3 to 9 cred.) Mr. Dunham, Mr. Schmid  
 202 (1½ cred.) 408Ag Mr. Dunham, Mr. Schmid, Mr. Thomas  
 241 Mr. Wilcox, Mr. Hayes, Mr. Rinke  
 246 (2 cred.) VIII, IX F 408Ag Mr. Hayes, Mr. Rinke, Mr. Currence, Mr. Krantz, Mr. Wilcox,  
 Mr. Winters  
 247 (3 or 5 cred.)  
 248 (3 cred.) 408 Ag Mr. Thomas

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- 1 (4 cred.) II MTWThF C-W-E St Mr. Harvey  
 8 (3 cred.) III, IV TThS C-W-E St Mr. Harvey  
 50 (3 cred.) III ThS Mr. Anderson  
 III, IV T MSh  
 57 (3 cred.) III MWF C-W-E St Mr. Ferrin  
 112 (3 cred.) IV MWF C-W-E St Mr. Winters  
 201 (3 cred.) Mr. Winters  
 206 (3 cred.) MSh Mr. Ferrin  
 209 (1 cred.) MSh Mr. Peters  
 212 (3 to 9 cred.) MSh Mr. Anderson  
 213 (3 to 9 cred.) MSh Mr. Peters, Mr. Ferrin, Mr. Winters, Mr. Harvey

#### POULTRY HUSBANDRY

- 1 (4 cred.) IV MTWF 230TSH Mr. Canfield  
 102 (3 cred.) I MWF 135TSH Mr. Shoffner  
 153 (3 cred.) II MWF 135TSH Mr. Sloan  
 214 (3 to 9 cred.) Mr. Sloan, Mr. Canfield, Mr. Shoffner  
 215 (3 to 9 cred.) Mr. Sloan

#### DAIRY HUSBANDRY

- 2 (3 cred.) Lect. VI MWF 210HH Mr. Olson  
 (2 cred.) Lab. VII, VIII MWF 212HH  
 103 (3 cred.) II TThS 214HH Mr. Fitch  
 106 (1 cred.) 214HH Mr. Petersen

- 110 (3 cred.) IV TS 210HH Mr. Combs  
 VI, VII, VIII T Mr. Thomas  
 114 (3 cred.) I TTh 210HH Mr. Coulter  
 VI, VII, VIII Th 24HH Mr. Morris  
 203 214HH Mr. Fitch, Mr. Petersen, Mr. Gullickson, Mr. Gilmore  
 206 214HH Mr. Combs, Mr. Coulter  
 213 214HH Mr. Macy, Mr. Olson

ENTOMOLOGY AND ECONOMIC ZOOLOGY

- 5 (5 cred.) VI, VII, VIII MWF 301, 302Ad Mr. Hodson, Mr. Cutkomp, Mr. Milliron  
 52 (5 cred.) Lect. VIII MWF 211Z Mr. Mickel  
 Lab. Sec. 1 VI, VII MWF 402Z  
 2 IX, X MWF 402Z  
 56 (5 cred.) VI, VII, VIII MWF 307Ad Mr. Hodson  
 64 (3 cred.) III MWF 100Ad Mr. Marshall  
 118 (3 cred.) VI, VII, VIII 301Ad Mr. Hodson  
 126 (3 cred.) Lect. I TTh 211Z Mr. Mickel  
 Lab. I, II, III S 402Z  
 129 (4 cred.) Lect. VI WF 8Ad Mr. Richards  
 Lab. VII, VIII, IX WF 8Ad  
 142 (3 cred.) I, II MWF 302Ad Mr. Christensen, Mr. Granovsky  
 145 (3 cred.) VI, VII, VIII WF 208Z Mr. Wallace  
 165 (3 cred.) I MWF 100Ad Mr. Marshall  
 169 (3 cred.) Lect. VI MW 100Ad Mr. Smith  
 Lab. VII, VIII MW 100Ad  
 176 (3 cred.) III MWF 301Ad Mr. Aamodt  
 197 (5 or more cred.) Mr. Mickel, Mr. Burroughs, Mr. Cutkomp, Mr. Granovsky, Mr. Haydak, Mr.  
 Hodson, Mr. Marshall, Mr. Richards, Mr. Smith  
 200  
 201-204 Mr. Mickel  
 205-208 Mr. Granovsky  
 209-212 Mr. Granovsky  
 213-216 Mr. Hodson  
 217-220 Mr. Hodson  
 221-224 Mr. Cutkomp, Mr. Granovsky  
 225-228 Mr. Hodson  
 229-232 Mr. Richards  
 233-236 Mr. Richards  
 237-240 Mr. Marshall  
 261-264 Mr. Burroughs  
 265-268 Mr. Richards  
 269-272 Mr. Haydak

FOOD TECHNOLOGY

- 52 (2 cred.) VI, VII, VIII TThS 102SnH  
 102 (3 cred.) II TThS 113SnH  
 104 (3 cred.) IV, MWF 102Hr Mr. Winter

FORESTRY

- 3 (3 cred.) II MWF 100GH Mr. Rees  
 8 (3 cred.) Lect. IV, MW 100GH Mr. Brown  
 Lab. Sec. 1 VI, VII, VIII M 206GH  
 2 VI, VII, VIII W 206GH  
 3 II, III, IV S 206GH  
 10 (3 cred.) VI MWF 100GH  
 20 (3 cred.) II TThS 203GH Mr. Allison  
 54 (3 cred.) Lab. Sec. 1 VI, VII, VIII WF 211GH Mr. Rees  
 (3 cred.) 2 VI, VII, VIII TTh 211GH Mr. Rees  
 57 (3 cred.) I MWF 203GH Mr. Kaufert  
 101 (3 cred.) Mr. Rees  
 111 (3 cred.) Lect. VI, VII, VIII, IX T 206GH Mr. Brown

## CLASS SCHEDULE

- 112 (3 cred.) Lab. VI, VII, VIII, IX Th 206GH  
 113 (3 cred.) IX MWF 201GH Mr. Hossfeld  
 115 (3 cred.) I, II TThS 3GH Mr. Rees  
 131 (3 cred.) I MWF 201GH Mr. Allison  
 137 (3 cred.) III TThS 203GH  
 140 (5 cred.) III MTWThF 201GH Mr. Allison  
 141 (3 cred.) II TThS 201GH  
 143 (3 cred.) IV MWF 202GH  
 156-157 (2 cred.) 202GH Staff  
 158-159 (1 cred.) 202GH Staff  
 201-202 Mr. T. Schantz-Hansen  
 203-204 Mr. Allison, Mr. Zivnuska  
 205-206 Mr. Allison, Mr. Zivnuska  
 207-208-209 Mr. Hossfeld, Mr. Kaufert, Mr. Rees  
 213-214-215 Mr. Hossfeld, Mr. Kaufert, Mr. Rees  
 218-219 Mr. Brown  
 223-224-225 (1 cred.) Staff

## HOME ECONOMICS

- 1 (4 cred.) Sec. 1 II MTWTh 313HE Miss Bayor  
 (4 cred.) 2 III MTWTh 313HE  
 3 (3 cred.) Sec. 1 VI, VII MWF 304HE  
 (3 cred.) 2 VI, VII, VIII TTh 304HE  
 4 (3 cred.) Sec. 1 II, III MWF 304HE  
 (3 cred.) 2 VI, VII, VIII TTh 305HE Miss Gorham  
 6 (3 cred.) Cafeteria Miss Dunning  
 14 (Same as Family Life 14) 5UHS  
 15 (Same as Family Life 15) 206WeH  
 17 (3 cred.) Sec. 1 IV MWF 213HE Miss Studley  
 (3 cred.) 2 V MWF 213HE Miss Studley  
 20 (4 cred.) II MTWTh 203HE Miss Myren  
 21 (3 cred.) Sec. 1 VI, VII MWF 402HE Miss Myren  
 (3 cred.) 2 VI, VII, VIII TTh 402HE  
 22 (3 cred.) Sec. 1 II, III MWF 402HE Miss Walter  
 (3 cred.) 2 VI, VII, VIII TTh 307HE Miss Myren  
 23 (3 cred.) II, III TThS 401HE Miss Walter  
 27 (3 cred.) Sec. 1 II, III MWF 401HE  
 (3 cred.) 2 VI, VII, VIII TTh 401HE Miss Paulsen  
 (3 cred.) 3 VII, VIII MWF 401HE Miss Paulsen  
 31 (3 cred.) Sec. 1 III MWF 213HE Miss Zander  
 (3 cred.) 2 III TThS 203HE Miss Zander  
 35 (4 cred.) II MWF 307HE Miss Nymon  
 VI, VII, VIII T 211HE Miss Nymon  
 40 (5 cred.) Sec. 1 III, IV MTWThF 103HE Mrs. Briggs  
 (5 cred.) 2 VI, VII MTWThF 103HE  
 (5 cred.) 3 VIII, IX MTWThF 103HE  
 41 (5 cred.) Sec. 1 III, IV MTWThF 207HE Miss Turnbull  
 V WF  
 (5 cred.) 2 VII, VIII TWThF 207HE Mrs. Briggs  
 IX TTh  
 45 (6 cred.) Lect. V TTh 213HE Miss Ames  
 Lab. Sec. 1 8-11 o'clock TThS Cafeteria Miss Ames  
 2 8-11 o'clock MWF Cafeteria Miss Ames  
 46 (3 cred.) Lect. IV W Cafeteria Miss Dunning  
 Lab. Sec. 1 IV, V MF Cafeteria Miss Dunning  
 2 IV, V TTh Cafeteria Miss Dunning  
 50 (3 cred.) Sec. 1 III, IV MWF 307HE Miss Gorham  
 (3 cred.) 2 VI, VII MWF 307HE Miss Bayor  
 53 (3 cred.) VI, VII MWF 305HE Miss Gorham  
 70 (3 cred.) VI, VII, VIII TTh 107HE Miss Turnbull  
 85 (4 cred.) VII MWF 203HE Miss Jeary  
 VIII M  
 86 (4 cred.) Sec. 1 I and other hours MTWThF Home Mgt House Miss Studley  
 (4 cred.) 2 I and other hours MTWThF Home Mgt House Miss Jeary

- 107 (3 cred.) VI, VII, VIII MWF 311HE Miss Phelps  
 120 (3 cred.) VIII MWF 313HE  
 122 (3 cred.) I, II, III TThS 402HE Miss Esteros  
 125 (3 cred.) IV, V MWF 304HE Miss Walter  
 170 (3 cred.) II MWF 110HE Miss Leichsenring  
 171 (3 cred.) Lect. III MW 110HE Miss Leichsenring  
     III F 5PoH  
     Lab. IV, V Ar  
 176 (4 cred.) Lect. IV MW 313HE Miss Biester  
     Lab. II, III, IV TTh 311HE  
 178 (3 cred.) VI, VII, VIII TTh Hosp Miss Leichsenring  
     V, M 313HE  
 179 (2 cred.) V WF 307HE Miss Nymon  
 180 (5 cred.) IV, V MTWF 401HE  
 202 (2 cred.) Miss Phelps  
 204 (2 cred.) Miss Phelps  
 208 (2 or 3 cred.) Miss Phelps  
 209 (1 cred.) Miss Phelps  
 247 (3 cred.) Miss Noble  
 249 (1 to 2 cred.) Miss Noble  
 270-271 (3 cred.) Miss Leichsenring  
 279 (1 cred.) Miss Biester  
 295-296 (1 to 5 cred.)  
 299 (1 cred.)

### HORTICULTURE

- 1 (3 cred.) III TThS 100GH Mr. Alderman, Mr. Weir  
 25 (3 cred.) VI, VII, VIII MF 107Hr Mr. Phillips  
 56 (3 cred.) VI, VII, VIII T Mr. Longley  
     VI, VII Th 8Hr  
 110 (3 cred.) III TThS 302Hr Mr. Wilcox  
 121 (3 cred.) II MWF 102Hr Mr. Brierley  
 139 (3 cred.) 302Hr Mr. Nylund  
 191 (2 to 4 cred.) Mr. Alderman and staff  
 194 (1 cred.) IX W HrLib Staff  
 241 (2 cred.) Mr. Alderman, Mr. Krantz  
 244 (3 cred.) Mr. Alderman, Mr. Brierley, Mr. Krantz, Mr. Longley  
 247 (9 cred. or less) Graduate School staff in Horticulture  
 248 (3 cred.) Mr. Currence  
 249 Mr. Krantz, Mr. Currence, Mr. Hutchins, Mr. Wilcox

### ORIENTATION

- 1 (1 cred.) V M 107En

### PLANT PATHOLOGY AND BOTANY

- 9 (3 cred.) II, III TThS 106AgrBot Mr. Larson  
 10 (5 cred.) VII, VIII, IX MWF 103-105PP Mr. C. M. Christensen  
 51 (2 to 5 cred.) 103-105PP Mr. C. M. Christensen  
 102 (3 cred.) II MW 302-300AgrBot Mr. Landon  
     I, II F Mr. Larson  
 104 (3 cred.) II MW, II, III F 107PP Mr. C. M. Christensen  
 106 (3 or 5 cred.) VI, VII, VIII TTh 110PP Miss Dossdall  
 110 (5 cred.) III, IV MWF 104PP Mr. Stakman, Mr. Eide  
 111 (4 cred.) VI, VII MWF 107PP Mr. J. J. Christensen, Mr. Kernkamp  
 114 (3 cred.) VI T, VI, VII, VIII Th 104PP Mr. C. M. Christensen  
 120 (3 cred.) VII, VIII, IX MWF 103-105PP Mr. C. M. Christensen, Mr. Moore  
 142 (3 cred.) I, II MWF 302Ad Mr. J. J. Christensen, Mr. Granovsky  
 162 (3 cred.) 300-302AgrBot Mr. Landon  
 204 Mr. Stakman, Mr. J. J. Christensen, Mr. C. M. Christensen, Miss Dossdall, Mr. Eide, Miss Hart  
 208 Mr. Stakman, Mr. C. M. Christensen, Miss Dossdall  
 211 Mr. Stakman  
 252 Mr. Landon

255 Mr. Landon  
 259 Mr. Landon  
 261 Mr. Larson, Mr. Stakman

## RHETORIC

1 (3 cred.)	Sec. 1 I MWF	Mr. Nichols	(3 cred.)	8 I MWF
(3 cred.)	2 I TThS		(3 cred.)	9 I MWF
(3 cred.)	3 I MWF	Mr. Brown	(3 cred.)	10 I MWF
(3 cred.)	4 I TThS		(3 cred.)	11 I TThS
(3 cred.)	5 I MWF	Mr. Drake	(3 cred.)	12 I TThS
(3 cred.)	6 I TThS		(3 cred.)	13 I TThS
(3 cred.)	7 I MWF	Mr. Seidenkrans		
2 (3 cred.)	Sec. 1 I MWF	Miss Thurston	(3 cred.)	5 I TThS
(3 cred.)	2 I MWF		(3 cred.)	6 I TThS
(3 cred.)	3 I MWF		(3 cred.)	7 I TThS
(3 cred.)	4 I MWF		(3 cred.)	8 I TThS
3 (3 cred.)	Sec. 1 I MWF	Mr. Woods		
(3 cred.)	2 I MWF			
(3 cred.)	3 I TThS			
22 (3 cred.)	Sec. 1 II MWF	217En Miss Drathal	(3 cred.)	5 II TThS 217En Mr. Laird
(3 cred.)	2 III MWF	307En	(3 cred.)	6 III TThS 217En
(3 cred.)	3 IV MWF	217En	(3 cred.)	7 IV TThS 217En
(3 cred.)	4 VII MWF	217En Mr. Nichols		
26 (3 cred.)	III MWF	311En Mr. Woods		
28 (3 cred.)	III TThS	311En Mr. Drake		
32 (3 cred.)	II TThS	307En Mr. Humphrey		
33 (3 cred.)	II MWF	307En Mr. Seidenkrans		
51 (3 cred.)	Sec. 1 IV MWF	307En Miss Thurston		
(3 cred.)	2 III TThS	310En Mr. Humphrey		
(3 cred.)	3 IV TThS	307En Mr. Seidenkrans		
54 (3 cred.)	IV TThS	107En Miss Drafahl		
60 (3 cred.)	IV MWF	311Eng Mr. Woods		

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4 (3 cred.)	II MWF	204So Mr. Caldwell
107 (3 cred.)	I TThS	204So Mr. MacGregor
108 (3 cred.)	Lect. VI T	204So Mr. McMiller
	Lab.	VII, VIII, IX T, VI, VII, VIII Th Mr. McMiller
202 (2 to 5 cred.)		
203 (1 cred.)	204So	Mr. Rost
205 (3 cred.)		Mr. Caldwell
206 (3 cred.)		Mr. Caldwell
207 (3 cred.)	II MWF	Mr. Caldwell

## VETERINARY MEDICINE

51 (3 cred.)	I TThS	103Ve Mr. Boyd, Mr. Kernkamp
103 (4 cred.)	103Ve	Mr. Kernkamp
106 (3 cred.)		
108 (3 cred.)	Staff	
109 (3 cred.)	VI MWF	103Ve Mr. Fenstermacher, Mr. Pomeroy
201	Mr. Boyd, Mr. Kernkamp, Mr. Fenstermacher, Mr. Pomeroy	
205	Mr. Boyd, Mr. Kernkamp, Mr. Fenstermacher, Mr. Pomeroy	
209	Mr. Boyd, Mr. Kernkamp, Mr. Fenstermacher, Mr. Pomeroy	
213	Mr. Boyd	
217 (1 cred.)	Staff	
230	Staff	

# SCHOOL OF BUSINESS ADMINISTRATION

## ECONOMICS

- 2 (5 cred.) Lect. III TTh BuAud Mr. Filipetti and others  
 Sec. 1 I MWF 6VH 5 V MWF 6VH  
 2 II MWF 210VH 6 VI MWF 115VH  
 3 II TThS 115VH 7 VIII MWF 115VH  
 4 IV MWF 205VH
- 3 (5 cred.) Lect. VII TTh BuAud Mr. Stehman and others  
 Sec. 1 I TThS 115VH 5 V MWF 113VH  
 2 II MWF 221VH 6 VI MWF 221VH  
 3 II TThS 113VH 7 VII MWF 203TSV  
 4 III MWF 115VH 8 VIII MWF 205VH
- 5 (5 cred.) Lect. II F NHAud Mr. Kozelka and others  
 Sec. 1 I MWThF 2VH 5 V MWThF 2VH  
 2 III MWThF 6VH 6 VI MWThF 113VH  
 3 III MWThF 210VH 7 VII MWThF 115VH  
 4 IV MWThF 115VH 8 VIII MWThF 207TSV
- 6 (5 cred.) Lect. I MW NMAud Mr. Uppgren and others  
 Sec. 1 I TThS 210VH 7 IV MWF 304IA  
 2 I TThS 221VH 8 IV TThS 113VH  
 3 II MWF 207TSV 9 V MWF 221VH  
 4 II TThS 207TSV 10 VI MWF 209TSV  
 5 III MWF 207TSV 11 VII MWF 205VH  
 6 III TThS 105VH 12 VIII MWF 209TSV
- 7 (5 cred.) Lect. I TTh NMAud Mr. Yeager and others  
 Sec. 1 I MWF 113VH 9 V MWF 115VH  
 2 I MWF 210VH 10 V MWF 205VH  
 3 I MWF 203TSV 11 VI MWF 210VH  
 4 II MWF 115VH 12 VI MWF 420MurH  
 5 II TThS 210VH 13 VII MWF 207TSV  
 6 III MWF 205VH 14 VII MWF 209TSV  
 7 III TThS 2VH 15 VII MWF 6VH  
 8 IV MWF 207TSV 16 VIII MWF 203TSV
- 8 (3 cred.) Sec. 1 II MWF 6VH Mr. Filipetti and others  
 (3 cred.) 2 IV MWF 209TSV  
 (3 cred.) 3 VI MWF 210P
- 9 (3 cred.) Sec. 1 I MWF 301VH Mr. Filipetti and others  
 (3 cred.) 2 II MWF 209TSV (3 cred.) 4 VI MWF 207TSV  
 (3 cred.) 3 III TThS 209TSV (3 cred.) 5 VII MWF 210P
- 22 (4 cred.) Lect. VI T BuAud Mr. Heilman and others  
 Rec. Sec. 1 I MWF 307VH 6 IV MWF 307VH  
 2 I TThS 306VH 7 V MWF 203TSV  
 3 II MWF 307VH 8 VI MWF 218P  
 4 II TThS 307VH 9 VII MWF 210VH  
 5 III MWF 307VH 10 VIII MWF 302MurH
- 23 (4 cred.) Lect. Sec. 1 II T 15MeS Mr. Heilman and others  
 (4 cred.) 2 II Th 15MeS  
 Rec. Sec. 1 I MWF 306VH 9 VII MWF 306VH  
 2 I TThS 307VH 10 VIII MWF 306VH  
 3 II MWF 306VH 11 IX MWF 306VH  
 4 III MWF 306VH 12 6:40-8:00 MW 307VH  
 5 III TThS 306VH 13 6:40-8:00 TTh 307VH  
 6 IV MWF 306VH 14 8:10-9:30 MW 307VH  
 7 V MWF 306VH 15 8:10-9:30 TTh 307VH  
 8 VI MWF 306VH
- 28 (3 cred.) I MWF 335EE Mr. Palmer
- 32 (1 cred.) Sec. 1 I MTWThF 209VH Miss Donaldson and others  
 (1 cred.) 2 VI MTWThF 209VH  
 (1 cred.) 3 VI MTWThF 211VH
- 33 (1 cred.) Sec. 1 IV MTWThF 209VH Miss Donaldson and others  
 (1 cred.) 2 VII MTWThF 209VH
- 34 (1 cred.) VII MTWThF 211VH Miss Donaldson and others
- 35 (3 cred.) IV MWF 210VH Miss Donaldson and others
- 38 (3 cred.) Sec. 1 I MTWThF 211VH Miss Donaldson and others  
 (3 cred.) 2 II MTWThF 211VH



- 41 (3 cred.) III MTWThF 209VH Miss Donaldson and others  
 50 (3 cred.) Sec. 1 IV TThS 1 VH Mr. Graves  
 (3 cred.) 2 VIII MWF 1 VH Mr. Graves  
 98 Ar  
 104 (3 cred.) VI MWF 205VH Mr. Garver  
 122 (3 cred.) I MWF 221VH Mr. Mudgett  
 127 (3 cred.) IV MWF 113VH Mr. Myers  
 140 (3 cred.) VI MWF 2VH Miss Canoyer  
 142 (3 cred.) Sec. 1 III MWF 1 VH Mr. Myers and others  
 (3 cred.) 2 III TThS 2P  
 (3 cred.) 3 VI MWF 1 VH  
 149 (3 cred.) II TThS 4VH Mr. Upgren  
 155 (3 cred.) Sec. 1 II MWF 325C Mr. Stehman and others  
 (3 cred.) 2 III TThS 1 VH  
 (3 cred.) 3 VII MWF 4VH  
 161 (3 cred.) Lect. I MW NHAud Mr. Childs and others  
 Sec. 1 I F 205VH  
 2 I F 207TSV  
 3 I S 2VH  
 4 II Th 221VH  
 5 III Th 113VH  
 6 IV Th 207VH  
 7 VI Th 203TSV  
 8 VII Th 203TSV  
 9 VIII Th 203TSV  
 162 (3 cred.) Sec. 1 I MWF 4VH Mr. Hoffman  
 (3 cred.) 2 VII MWF 1 VH Mr. Hoffman  
 175 (3 cred.) Sec. 1 I TThS 4VH Mr. Boddy  
 (3 cred.) 2 IV MWF 313Z  
 (3 cred.) 3 VII MWF 105VH Mr. Garver  
 185 (3 cred.) III TThS 207VH Mr. Vaile  
 192 (3 cred.) III MWF 221VH Mr. Blakey  
 204 (3 cred.) VIII½-IX TTh 206VH Mr. Garver  
 234 (3 cred.) VII WF, VIII F 206VH Mr. Blakey  
 243 (3 cred.) VIII½-IX MW 206VH Mr. Upgren  
 257 (3 cred.) VII-VIII½ TTh 206VH Mr. Heilman

## BUSINESS ADMINISTRATION

- 51 (3 cred.) Lect. VI T MNHAud Mr. Neville and others  
 Sec. 1 I ThS 203TSV  
 2 I ThS 209TSV  
 3 II ThS 203TSV  
 4 III ThS 207TSV  
 52 (3 cred.) Lect. IV Th BuAud Mr. Neville and others  
 Sec. 1 I TS 207TSV  
 2 I TS 105VH  
 3 II TS 209TSV  
 4 II TS 2VH  
 5 III TS 113VH  
 6 III TS 6VH  
 7 VI TTh 1 VH  
 8 VI TTh 207VH  
 9 VII TTh 207VH  
 10 VII TTh 113VH  
 57 (3 cred.) VI MWF 203TSV Mr. Graves and others  
 58 (3 cred.) Sec. 1 II TThS 1 VH Mr. Blakey  
 (3 cred.) 2 IV MWF 4VH  
 (3 cred.) 3 VII MWF 313Z  
 60 (3 cred.) III TThS 205VH Mr. Graves  
 64 (3 cred.) IV MWF 210P Mr. Doseff  
 67 (3 cred.) I MWF 105VH Miss Canoyer  
 68 (3 cred.) VI MWF 6VH Mr. Lewis  
 69 (3 cred.) VII MWF 113MeS Miss Canoyer  
 70 (3 cred.) Sec. 1 IV MWF 2VH  
 (3 cred.) 2 VII MWF 113VH  
 71 (3 cred.) II MWF 1 VH Mr. Nightingale  
 72 (3 cred.) I MWF 1 VH Mr. Nightingale  
 77 (3 cred.) Lect. III M MNHAud Mr. Vaile and others  
 Sec. 1 I ThS 205VH  
 2 II WF 205VH  
 3 III ThS 203TSV  
 4 IV WF 203TSV  
 5 V WF 207VH  
 6 VI TTh 2VH  
 7 VII TTh 4VH  
 8 VIII WF 2VH

- 88 (3 cred.) Sec. 1 II MWF 203TSV Mr. Vaile and others  
(3 cred.) 2 VIII MWF 207VH
- 89 (3 cred.) Sec. 1 II MWF 207VH Mr. Filipetti and others  
(3 cred.) 2 II TThS 313Z  
(3 cred.) 3 VIII MWF 4VH
- 91 (1 cred.) Lect. VI T 4VH Mrs. Boehmler  
Sec. 1 V Th 307VH 3 VII W 307VH  
2 VI Th 307VH 4 VIII W 307VH
- 93 (1 cred.) Sec. 1 VII-VIII M 307VH Mrs. Boehmler  
(1 cred.) 2 VII-VIII T 307VH Mrs. Boehmler  
(1 cred.) 3 VIII-IX F 307VH Mrs. Boehmler
- 94 (1 cred.) Sec. 1 V-VI T 307VH  
(1 cred.) 2 V-VI W 307VH  
(1 cred.) 3 VI-VII F 307VH  
(1 cred.) 4 VII-VIII Th 307VH
- 98 Ar
- 101 (3 cred.) Sec. 1 II TThS 207VH Mr. Boddy and others  
(3 cred.) 2 III MWF 105VH Mr. Boddy and others  
(3 cred.) 3 IV TThS 4VH Mr. Boddy and others  
(3 cred.) 4 VI MWF 105VH Mr. Boddy and others
- 102 (3 cred.) Sec. 1 II MWF 225C Mr. Boddy and others  
(3 cred.) 2 II TThS 105VH Mr. Boddy and others  
(3 cred.) 3 IV MWF 207VH Mr. Boddy and others  
(3 cred.) 4 VI MWF 4VH Mr. Boddy and others  
(3 cred.) 5 VII MWF BoAud Mr. Boddy and others
- 112 (3 cred.) Sec. 1 II MWF 105VH Mr. Mudgett and others  
(3 cred.) 2 III MWF 207VH Mr. Mudgett and others  
(3 cred.) 3 III TThS 4VH Mr. Mudgett and others  
(3 cred.) 4 VI MWF 207VH Mr. Mudgett and others
- 118 (3 cred.) Lect. IV M MurAud Mr. Lund  
Lab. 1 VI-VII TTh 306VH  
2 VIII-IX TTh 306VH
- 130 (3 cred.) Sec. 1 II MWF 113VH Mr. Whelen and others  
(3 cred.) 2 IV TThS 105VH  
(3 cred.) 3 6:40-8:00 p.m. MW 203TSV  
IV MWF 105VH
- 139 (3 cred.) II MWF 4VH Mr. Stehman
- 146 (3 cred.) II MWF 4VH Mr. Stehman
- 150 (3 cred.) Sec. 1 I TThS 113VH Mr. Lund  
(3 cred.) 2 II MWF 2VH
- 151 (3 cred.) Sec. 1 III MWF 2VH Mr. Heilman  
(3 cred.) 2 VII MWF 2VH  
(3 cred.) 3 8:10-9:30 p.m. MW 203TSV
- 152 (3 cred.) Sec. 1 I MWF 209TSV  
(3 cred.) 2 II TThS 6VH
- 153 (3 cred.) Sec. 1 I TThS 207VH Mr. Ostlund  
(3 cred.) 2 IV MWF 6VH Mr. Ostlund  
(3 cred.) 3 VIII MWF 6VH
- 167 (3 cred.) Sec. 1 I TThS 1 VH Mr. Yoder and others  
(3 cred.) 2 IV MWF 1 VH  
(3 cred.) 3 VII MWF 207VH
- 170 (3 cred.) Lect. II T 301VH Mr. Immer  
Lab. 1 II-III Th 301VH  
2 II-III S 301VH
- 177 (3 cred.) IV MWF 221VH Mr. Blakey
- 181 (3 cred.) Sec. A I TThS 6VH Mr. Reighard  
(3 cred.) B VII MWF 221VH Mr. Upgren  
(3 cred.) C VI-VII½ TTh 105VH Mr. Vaile  
(3 cred.) D Sec. 1 VII½-VIII TTh 1 VH Mr. Yoder  
(3 cred.) 2 VIII-IX½ MW 105VH  
(3 cred.) E IV MWF 211VH Miss Donaldson  
(3 cred.) F VI½-VII TTh 205VH Mr. Mudgett  
(3 cred.) G VII TTh 301VH  
(3 cred.) I VI½-VII TTh 6VH Mr. Nightingale
- 183 Members of staff

## MEDICAL SCHOOL

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

### ANATOMY

- 1 (4 cred.) I ThS 304IA Dr. Richard Miller
- 61 (9 cred.) II TThFS 102IA Dr. A. T. Rasmussen
- 101 (9 cred.) VI, VII MTWTh 102IA Dr. E. A. Boyden
- 166 (4 cred.) VII TTh 104IA Dr. R. D. Sundberg

### BACTERIOLOGY

- 1 (4 cred.) Lect. II MWF 129MH Dr. R. Marwin, Dr. DeKruif  
Lab. Sec. A I MWF  
B IV MWF
- 53 (5 cred.) VIII MWF 15MeS Dr. C. E. Skinner
- 101 (5 cred.) IV TThS 15MeS Dr. Ziegler
- 104 (4 cred.) VI MWF 12MeS Dr. C. E. Skinner
- 116 (3 cred.) VII, VIII TTh 12MeS Dr. Wm. McLimans
- 122 (3 cred.) III TThS 214MH Dr. H. O. Halvorson
- 203 (1 cred.) IX Th 214MH Dr. Wm. McLimans

### NEUROPSYCHIATRY

- 171 VII, VIII TTh PoHAMph

### PHARMACOLOGY

- 8 (1 cred.) (for nurses) IX TTh 12MeS Dr. Wright and others  
Lab. VII, VIII T

### PHYSIOLOGICAL CHEMISTRY

- 57 2 cred.) VI MW 15MeS Dr. Armstrong, Dr. Glick
- 100a (2 cred.) VII, VIII, IX W and VI, VII, VIII F 310MH Dr. Armstrong, Dr. Carr
- 101 (6 cred.) Lect. IV MWF 15MeS Dr. Armstrong, Dr. Barnum, Dr. Carr, Dr. Cohen, and Dr. Glick  
Quiz I F 15MeS  
Lab. Sec. 1 I, II, III MW 310MH  
2 I, II, III ThS 310MH

### PHYSIOLOGY

- 2 (4 cred.) Lect. IV TThS 113MeS Dr. Reinecke  
Lab. Sec. A I, II Th 301MH  
B VI, VII Th 301MH
- 58 (5 cred.) Lect. III, IV M and IX F 111MeS Dr. King  
Quiz VI Th 12MeS  
Lab. VI, VII, VIII F 301MH
- 104 (6 cred.) Lect. IV MTWF 214MH Dr. Visscher and staff  
Conf. VII F  
Lab. Sec. A 9:00-11:20 MW 301MH  
B 1:30-4:00 MW 301MH

### SCHOOL OF NURSING

- 1 IX F 113MeS Miss Kitchell
- 11B I, II, III Th PoH Dietetic Lab Miss G. Thomas
- 13 VII MW 2317PoH Miss Roller
- 14 VI MW 111MeS Mrs. Coe

- 15 II, III, IV MWF PoHAmph Miss Love
- 18 VI MTWTh PoHAmph Miss Love and staff
- 21 VII MW PoHAmph Miss Erickson
- 41 VIII MWF PoHAmph Miss Guatefald
- 45 VI, VII F 1326 PoH Miss Love
- 50 IX TTh 111MeS Mrs. Randall

SCHOOL OF PUBLIC HEALTH

- 3 (2 cred.) VI MW BuAud Dr. O'Brien
- 4 (2 cred.) VI TTh 129MH Dr. Thomson
- 50 (3 cred.) III MWF 129MH
- 52b (1 cred.) Sec. 1 VII, VIII T 313HE(UF)  
(1 cred.) 2 VII, VIII Th 313HE(UF)
- 55 (2 cred.) VI MW 214MH Dr. Sullivan
- 57 (2 cred.) VII TTh 129MH Dr. Boynton
- 58 (3 cred.) VII MWF 12MeS Dr. Boynton
- 59 (3 cred.) Sec. 1 IV MWF 129MH Miss Grout  
(3 cred.) 2 IV MWF 104LA Dr. Thomson
- 62 (3 cred.) III MWF 214MH Miss Mickey
- 63 (3 cred.) Sec. 1 IV MWF 12MeS Miss Mickey  
(3 cred.) 2 VI MWF 129MH Miss Mickey
- 65 Miss Taylor
- 66 Miss Taylor
- 67 Miss Taylor
- 70 Miss Taylor
- 80 (3 cred.) VII, VIII TTh 214MH Mr. Treloar
- 92 (4 cred.) Lect. IV MWF 113MeS Dr. Henschel  
Lab. VI, VII, VIII
- 100 (5 cred.)
- 102 (3 cred.) II MWF 214MH Mr. Pierce
- 103 II, III MWF SBHLab Dr. Kabler
- 105 (3 cred.) III TThS 129MH Dr. Anderson
- 106 (3 cred.) I MWF 214MH Dr. Anderson
- 108 (2 cred.) VI TTh 214MH Dr. Simons
- 125 (3 cred.) VIII, IX WF 12MeS Miss Grout
- 128 (3 cred.) Dr. Foker
- 129
- 133 (3 cred.) I TThS 214MH Dr. Clarke
- 138 Dr. Aldrich, Miss Mouw, and associates
- 171 Miss Taylor
- 173 Miss Taylor
- 174 (2 cred.) Miss Taylor
- 190 Miss Taylor
- 200 Dr. Anderson, Dr. Diehl, and others
- 210 IX M 12MeS Dr. Anderson and staff
- 227 Miss Grout

BIOSTATISTICS

- 130w (3 cred.) III TThS 15MeS Mr. Treloar
- 131 (2 cred.) Sec. 1 I, II TThS 118MH  
(2 cred.) 2 VI, VII, VIII MW 118MH
- 150 (3 cred.) Mr. Treloar
- 200 Dr. Anderson, Dr. Diehl, and others
- 201 Mr. Treloar
- 211 (1 cred.) Mr. Treloar

HOSPITAL ADMINISTRATION

- 163 (3 cred.) III, IV TTh, VII, VIII TTh 206TSB Mr. Stephan
- 165 (3 cred.) III F 206TSB Mr. Stephan
- 166 (3 cred.) III M 206TSB Mr. Stephan

# INDEX

	Page		Page
Administration, Business .....	43	German .....	18
Administration, Educational .....	33	Greek .....	14
Administration, Hospital .....	47	History .....	19
Agricultural Biochemistry .....	37	History of Art .....	11
Agricultural Economics .....	37	History and Philosophy of Education .....	33
Agricultural Education .....	32	Home Economics .....	40
Agricultural Engineering .....	37	Home Economics Education .....	34
Agricultural Journalism .....	38	Horticulture .....	41
Agronomy and Plant Genetics .....	38	Hospital Administration .....	47
American Studies .....	9	Humanities .....	16
Anatomy .....	46	Industrial Education .....	34
Animal and Poultry Husbandry .....	38	Italian .....	27
Anthropology .....	9	Japanese .....	20
Architecture .....	9	Journalism .....	20
Art .....	9	Journalism, Agricultural .....	38
Art, History of .....	9	Latin .....	14
Art Education .....	9, 32	Library Instruction .....	7
Astronomy .....	11	Linguistics and Comparative Philology .....	21
Bacteriology .....	46	Mathematics .....	22
Biostatistics .....	47	Methods and Directed Teaching .....	34
Botany .....	11	Military Science and Tactics .....	7
Business Administration .....	44	Music .....	22
Chemistry .....	11	Music Education .....	35
Analytical .....	12	Natural Science .....	17
Inorganic .....	11	Naval Science and Tactics .....	7
Organic .....	12	Neuropsychiatry .....	46
Physical .....	13	Nursing .....	46
Physiological .....	46	Nursing Education .....	35
Child Welfare .....	13	Orientation .....	41
Classics .....	14	Personal Orientation .....	17
Communication .....	16	Pharmacology .....	46
Comparative Philology .....	21	Philosophy .....	24
Composition .....	15	Physical Education for Men .....	7, 35
Curriculum and Instruction .....	32	Physical Education for Women .....	7, 36
Dairy Husbandry .....	38	Physics .....	24
Drawing and Descriptive Geometry .....	10	Physiological Chemistry .....	46
Economics .....	43	Physiology .....	46
Economics, Agricultural .....	37	Plant Pathology and Botany .....	41
Education .....	32	Political Science .....	25
Education, Agricultural .....	32	Portuguese .....	27
Education, Art .....	32	Poultry Husbandry .....	38
Education, History and Philosophy of .....	33	Psychology .....	25
Education, Home Economics .....	34	Psychology, Educational .....	33
Education, Industrial .....	34	Public Health .....	47
Education, Music .....	35	Rhetoric .....	42
Education, Nursing .....	35	Romance Languages .....	26
Education, Physical for Men .....	7, 35	Russian .....	28
Education, Physical for Women .....	7, 36	Scandinavian .....	28
Educational Administration .....	33	Social Science .....	17
Educational Psychology .....	33	Social Work .....	29
Engineering, Agricultural .....	37	Sociology and Social Work .....	28
English .....	14	Sociology .....	28
Entomology and Economic Zoology .....	39	Soils .....	42
Family Life .....	16	Spanish .....	27
Fine Arts ( <i>See</i> History of Art)		Speech .....	30
Food Technology .....	39	Teaching, Methods and Directed .....	34
Forestry .....	39	Veterinary Medicine .....	42
French .....	26	Zoology .....	31
General Studies .....	16		
Geography .....	17		
Geology and Mineralogy .....	17		

# *The Bulletin of the* UNIVERSITY of MINNESOTA

A Brief Summary of Financial Operations for the  
Year Ended June 30, 1947

Prepared by the Office of the Vice President, Business  
Administration, to Promote a Better Understanding  
of the Finances of the University

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Volume L, Number 46

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# THE SOURCES OF UNIVERSITY INCOME

July 1, 1946 to June 30, 1947

## FROM THE STATE

<b>The Legislative Maintenance Appropriation</b> .....	\$ 4,825,000.00
For the general support of instructional, research, and administrative departments, and maintenance of buildings and grounds, including the Department of Agriculture and the Agricultural Schools and Experiment Stations.	
<b>The 23/100 Mill Tax</b> .....	251,611.59
The standing direct property tax for the general support of the University.	
<b>The State's Share of the Cost of Indigent Patients at the University of Minnesota Hospitals</b> .....	310,000.00
<b>The Special Projects Administered and Carried on by the University for the General Benefit of the People of the State</b> .....	540,000.00
These special projects include Agricultural Extension, County Agents, Beneficent of Manganiferous Ores, Soils Survey, Dairy Manufacturing, Medical Research, Livestock Sanitary Board, Crop Breeding and Testing, Child Welfare, Psychopathic Hospital Maintenance, Mastitis Control, Potato and Vegetable Research, General Research, Minnesota Institute of Research, Home Demonstration and 4-H Club Work.	

## FROM THE FEDERAL GOVERNMENT

<b>Instruction, Research, and Extension</b> .....	963,845.38
This income is divided: for instruction, \$126,690.44; for agricultural research, \$152,041.49; for agricultural extension \$685,113.45.	
<b>Armed Forces—Instruction and Research</b> .....	315,038.26

## FROM THE PERMANENT UNIVERSITY FUND

<b>Instruction, Research, and Extension</b> .....	533,511.29
The principal of the fund, amounting to \$20,409,002.75 on June 30, 1947, was derived from land set aside by the Federal Government and 10 per cent of the occupational tax on iron ore. The income is used for general university support.	

## FROM THE SWAMP LAND FUND

<b>Instruction, Research, and Extension</b> .....	69,748.81
The principal of the fund was derived from land set aside by the State of Minnesota. The University participates in the income.	

## FROM FEES AND RECEIPTS

<b>Instruction, Research, and Extension</b> .....	7,903,790.84
This income is divided: student tuition fees, \$4,970,565.98; counties' share of indigent hospital patients, \$406,401.70; other hospital receipts, \$973,511.32; dental infirmary receipts, \$93,234.27; other departmental receipts such as laboratory fees, sales of livestock and agricultural products, \$1,457,184.07; miscellaneous receipts for plant extension, \$2,893.50.	

## FROM SELF-SUPPORTING SERVICE ENTERPRISES AND REVOLVING FUNDS

<b>Instruction, Research, and Extension</b> .....	9,485,238.30
The University operates dormitories and dining halls, cafeterias, a printing department, a laundry, garages, bookstores, cold storage plant, and other enterprises and revolving funds, for the purpose of rendering service to the student body and of reducing the cost of general university operations. Of this amount \$22,993.23 was used for plant extension.	

## FROM TRUST FUNDS

<b>Instruction, Research, and Extension</b> .....	2,874,001.16
The trust funds include gifts and donations for scholarships, prizes, and income from endowments for teaching, research, and the care of the sick. Of this amount \$312,049.89 was used for plant extension.	

## FROM INTERCOLLEGIATE ATHLETICS

<b>Instruction, Research, and Extension</b> .....	569,563.77
Includes receipts for plant extension, \$3,561.12.	

## TOTAL RECEIPTS

<b>Free Unencumbered Balance, July 1, 1946</b> .....	\$28,641,349.40
	7,760.32
	\$28,649,109.72

# THE EXPENDITURES FOR UNIVERSITY OPERATIONS

July 1, 1946 to June 30, 1947

<b>FOR ADMINISTRATION OF THE UNIVERSITY</b> .....	\$ 798,328.24
The expenses of the offices of the President, the Vice Presidents, the Comptroller, the Dean of Students, the Dean of Women, the Dean of Admissions and Records, Office of Civil Service Personnel, and other general administrative offices.	
<b>FOR THE GENERAL UNIVERSITY</b> .....	1,146,330.81
The expenses of the library, general bulletins and publications, lectures and convocations, the storehouses, truck service, inter-campus trolley, and other services of an all-university character.	
<b>FOR INSTRUCTION AND RESEARCH</b> .....	11,126,184.71
The expenses of college instruction and research, Agricultural Schools and Experiment Stations, the University of Minnesota Hospitals, Summer Session, Agricultural and General Extension (General Fund, \$7,760,951.04; Federal Funds, \$956,975.00 exclusive of \$12,249.94 Federal Funds included in General University total; Special State Appropriations, \$2,406,959.18; Armed Forces War Training Programs, \$1,299.49).	
<b>FOR PHYSICAL PLANT OPERATIONS</b> .....	1,537,006.73
The expenses of maintaining and operating the buildings and other improvements on the land of the Main Campus and the Farm Campus.	
<b>FOR PHYSICAL PLANT EXTENSION</b> .....	851,877.36
Purchase of land and real estate, \$174,206.04; Mayo Memorial Fund, \$16,269.70; Cadet Nurses School and Residence, \$24,109.46; additions to Hospitals, \$11,070.35; Crookston dormitory, \$156,793.29; temporary classroom and office buildings, \$25,491.36; trailer camp, \$226,875.92; prefabricated houses, \$156,364.27; Rosemount Research Center—plant modification, \$14,316.92; athletic field expansion, \$14,716.25; Pioneer Hall addition, \$10,000.00; dormitory—Como Ave., \$11,117.74; miscellaneous \$10,546.06.	
<b>FOR SELF-SUPPORTING SERVICE ENTERPRISES AND REVOLVING FUNDS</b> .....	9,797,902.05
The operating and capital expenditures for dormitories and dining halls, cafeterias, printing department, and other self-supporting enterprises and revolving funds.	
<b>FOR TRUST FUND PURPOSES</b> .....	2,543,574.74
Scholarships, fellowships, prizes, and trust fund expenditures for teaching and research, care of the sick and other trust purposes.	
<b>FOR INTERCOLLEGIATE ATHLETICS</b> .....	502,991.34
The operating expenses of intercollegiate athletics and that part of the physical education expense paid from receipts of intercollegiate athletics.	
<b>TRANSFERS AND ADJUSTMENTS</b> .....	336,270.29
Redemption of Union building certificates, \$90,000.00; Flour and Corn Exchange buildings depreciation, \$45,000.00; trust fund endowment increase, \$79,160.32; outstanding obligations and allotments decrease, \$130,387.35; and increase in other reserves, \$252,497.32.	
<b>Total Expenditures, Transfers and Adjustments</b> .....	\$28,640,466.27
<b>Free Unencumbered Balance, June 30, 1947</b> .....	8,643.45
	<hr/> \$28,649,109.72



## A FEW INTERESTING FACTS ABOUT THE UNIVERSITY

STUDENTS	1943-44	1944-45	1945-46	1946-47
Collegiate Enrollment .....	12,633	13,273	25,484	36,578
Fall Quarter—2nd week.....	(7,205)	(8,917)	(11,396)	(27,103)
Non-Collegiate Enrollment .....	23,806	17,871	12,096	15,915
Extension .....	11,503	18,584	21,706	19,086

### STAFF—ALL FUNDS—1946-47

Academic Staff* .....	1,562	2,035	2,154	2,733
Civil Service Staff* .....	1,378	2,144	2,436	2,777

### COLLEGES

Departments	Departments
Science, Literature, and Arts.....	26
Institute of Technology.....	13
Department of Agriculture.....	30
Medical Sciences .....	18
College of Education.....	9
Graduate School .....	12
Schools of Dentistry, Law, Pharmacy, Business Admin- istration, and Library Instruc- tion, University and General Colleges—each .....	1

### LAND—June 30, 1947

	Acres	Value
Minneapolis Campus .....	187.92	\$4,516,658.09
St. Paul Campus—Agriculture .....	688.89	671,130.32
Branch Stations		
Crookston .....	915.89	142,650.97
Morris .....	823.82	61,137.53
Grand Rapids .....	454.60	34,095.00
Duluth .....	272.74	41,344.00
Waseca .....	597.30	70,752.50
Cloquet .....	3,662.09	63,347.03
Excelsior .....	229.89	41,271.22
Rosemount .....	4,680.00	1,606.20
Total .....	12,513.14	\$5,643,992.86

### BUILDINGS—June 30, 1947

	Number	Value	Number	Value
Minneapolis Campus .....	63	\$21,027,644.38	40	\$ 280,016.94
St. Paul Campus—Agriculture.....	29	3,243,132.89	51	291,539.81
Off-Campus Buildings .....				452,245.74
Branch Stations				
Crookston .....	10	713,165.07	45	164,907.98
Morris .....	10	644,283.23	23	146,487.22
Duluth .....	1	29,520.00	21	52,724.56
Grand Rapids .....	2	157,416.62	42	106,515.56
Itasca .....			32	43,532.57
Waseca .....			34	58,314.02
Excelsior .....			28	74,538.19
Cloquet .....			32	46,538.83
Rosemount .....			17	18,081.25
Total .....	115	\$25,815,162.19	365	\$1,735,442.67

### EQUIPMENT—June 30, 1947

	Total	Livestock	Books and Museum Collections	Other
Minneapolis Campus .....	\$ 9,588,255.52		\$5,356,040.45	\$4,232,215.07
Department of Agriculture .....	1,718,867.41	\$138,800.04†	369,782.36	1,210,285.01
Trust Funds .....	324,287.43	235.00†	2,735.29	321,317.14
Service Enterprises.....	1,673,703.67			1,673,703.67
Total .....	\$13,305,114.03	\$139,035.04	\$5,728,558.10	\$7,437,520.89

### ENDOWMENT—June 30, 1947

	Value
For General Purposes .....	\$20,409,002.75
Unassigned Funds Operating Temporarily as an Endowment.....	469,438.33
For Student Aid—Scholarships, Prizes, and Loans .....	813,308.75
For Educational Purposes .....	6,179,795.45
For Other Purposes .....	2,124,078.44
Endowment—Subject to Annuity.....	570,104.66
	\$30,565,728.38

Student Loan Funds—Cash Available .....	360,314.94
Notes Receivable .....	145,433.58

**Total** .....

The University's complete "Financial Report" will be mailed upon request.

\* Reduced to a full-time basis.

† Valuation \$25,000 and under.

‡ As of June 30, 1946.

**W. T. MIDDLEBROOK, Vice President**