

1969

1969 Southern Illinois University Bulletin Edwardsville Campus (Schedule of Classes for Late Afternoon, Evening, and Saturday Classes; Fall)

Southern Illinois University Carbondale

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Southern Illinois University *Bulletin*

*Schedule for Late Afternoon,
Evening, and Saturday Classes,
Edwardsville Campus*

Fall Quarter, 1969



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University Calendar

<i>SUMMER, 1969</i>	Quarter Begins	Tuesday, June 17 (Classes 4:30 P.M. or later)
	Independence Day Holiday	Friday, July 4
	Final Examinations	Monday–Friday, August 25–29
	Commencement (Edwardsville)	Friday, August 29
	Commencement (Carbondale)	Saturday, August 30
<i>FALL, 1969</i>	New Student Week	Sunday–Tuesday, September 21–23
	Quarter Begins	Wednesday, September 24 (Classes 4:30 P.M. or later)
	Thanksgiving Vacation	Tuesday, 10 P.M.– Monday, 8 A.M., November 25–December 1
	Final Examinations	Monday–Saturday, December 15–20
<i>WINTER, 1970</i>	Quarter Begins	Monday, January 5 (Classes 4:30 P.M. or later)
	Final Examinations	Monday–Saturday, March 16–21

Registration Calendars, Fall, 1969

EDWARDSVILLE CAMPUS

July 9–September 24.

General Studies Advisement, by appointment (call General Studies Office).

August 4–16.

Registration, by appointment. Mon.–Thurs. 8:00–11:00 A.M., 1:00–6:30 P.M.; Fri. 8:00 A.M.–12:00 noon; Sat. 8:00 A.M.–2:00 P.M.

August 18–26, September 3–5, 22–23.

Open registration. Mon.–Thurs. 8:00–11:00 A.M.; 1:00–6:30 P.M.; Fri.–Sat. 8:00 A.M.–12:00 noon.

September 24.

Central registration. 8:00 A.M.–6:30 P.M.

ALTON CENTER

Registration will be held in the Student Union.

September 13.

Open registration. 9:00 A.M.–3:00 P.M.

EAST ST. LOUIS CENTER

September 6.

Open registration. 9:00 A.M.–3:00 P.M.

ALL LOCATIONS

September 24.

Evening classes (4:30 P.M. or later) begin.

September 25.

Day classes begin.

October 1.

Last day to add a class.

October 8.

Last day to be eligible for a refund of fees.

October 22.

Last day to withdraw from a class without receiving a grade.

December 1.

Last day to withdraw from school or a class.

1 / General Information

THIS BULLETIN contains the schedule of classes to be offered at the Edwardsville Campus and the Alton and East St. Louis centers in the late afternoon, evening, or on Saturday for the fall quarter of the 1969-70 school year. It also provides information relative to advisement and registration, fees, and allied information.

The Edwardsville Campus provides a full schedule of class offerings for day and evening students. Freshman and sophomore courses are scheduled for day and evening students at the Alton and East St. Louis centers.

Guaranteed Center Schedules

A program of Guaranteed Schedules for the centers has been established. Certain courses and sections at the centers are guaranteed on schedules extending through the fall, winter, and spring quarters. These classes will not be cancelled; they are coordinated to offer a variety of full-time academic programs for the incoming freshman as a day student, and they permit efficient progress for the new freshman evening student.

Classes at the centers marked with a + in the schedule are part of this program. For details concerning the full year's schedules, see the separate brochure for each center.

Admission

Inquiries concerning admission to Southern Illinois University should be directed to the Admissions Office at Edwardsville. Applications for admission are accepted at any time during the calendar year but should be initiated at least 30 days prior to the start of the quarter which the student plans to attend.

A student must be officially admitted to the University before registration for classes will be permitted. Students who have not completed the admission requirements by the first day of the quarter will not be permitted to register. A student, to be permitted to attend classes at Southern Illinois University, must have completed registration, which includes admission, advisement, sectioning, and payment of fees.

Social Security Number

Each student seeking admission to the University will need to present a social security number for identification purposes. Any local social security office can provide assistance in obtaining a number or replacing a lost card.

At Alton the social security office is at 1623 Washington Street; at East St. Louis the office is at 435 Missouri Avenue; at Edwardsville the Illinois State Employment Office, 111 West Vandalia, provides social security information.

Required Tests

Each student entering Southern Illinois University directly from high school is required to furnish to the University scores on the test battery administered by the American College Testing Program (A.C.T.). These tests are given at regional test centers throughout the United States in October, December, February, May, and August. Information and application blanks are normally available through the high school guidance director or principal, or may be obtained by writing directly to: American College Testing Program, Box 168, Iowa City, Iowa.

A student who finds it impossible to take the A.C.T. tests may have scores from the College Entrance Examination Board (C.E.E.B.) submitted. The specific scores, which must be submitted if the C.E.E.B. tests are submitted, are Scholastic Aptitude Test, English Composition Test, and Mathematics (Intermediate) Test. In order to have identical test data, a student who submits C.E.E.B. test data will be required to submit scores from the A.C.T. no later than one month after registration.

Transfer students are required to furnish A.C.T. scores to the Student Counseling and Testing Center. (A transcript of these scores is available by sending one dollar and a written request to the American College Testing Program in Iowa City.) If the scores are on file at the student's former school, a request should be made for their forwarding. Test scores are not normally sent with a person's transcript of grades and must be requested separately from the appropriate office at the former school. If the A.C.T. tests have not been taken, arrangements to do so should be made.

Advisement

The advisement system requires all new students to have initial advisement through the General Studies Advisement Office. These offices are maintained at each of the centers for the convenience of the student. Freshmen and sophomores will continue to be advised each quarter prior to registration. Following the student's declaring a major (between reaching 64 and 96 hours of credit), the student is assigned to an adviser in his concentration area. Each student is required to declare a concentration upon achieving 96 hours of credit. Probationary students are also required to receive advisement prior to registration.

Graduate students, both classified and unclassified, must have their schedule approved at the Graduate Office before registering.

Students with a declared major in the Education Division must receive advisement from the Division office prior to registering.

All students should arrange to have advisement early to be sure their schedules will be approved before their registration.

Required Physical Examinations

Each new student desiring to enroll at Southern Illinois University is required to have a physical examination completed prior to his initial registration for classes. A special medical form is provided which is to be completed by the student and his personal physician and returned to the University Health Service.

Registration

Students may register at Edwardsville for classes at any location (see Edwardsville Registration Calendar, p. iv). Students wishing classes at the Alton or East St. Louis Centers, or at a Center and at Edwardsville, may register at that Center during the periods listed on the applicable Registration Calendar. All General Studies students are required to have approval of their schedule by the General Studies Advisement Office.

Each classified graduate student must have his schedule approved by his adviser and the Dean of the Graduate School before registering for classes at the Enrollment Center. Unclassified graduate students need only the approval of the Dean of the Graduate School. Special cards for this purpose are available at the Graduate Office, 2202 General Offices and Services Building.

During the registration process the student goes to the enrollment office where the assignment is made to specific sections of the courses he is to take.

New Students

Students entering the University for the first time are permitted to register only after they have been admitted to the University as evidenced by their receiving the Certificate of Admissions.

Dates for new undergraduate students, freshmen and transfer, will be selective ones in which the students are asked to come to the campus on specific registration dates as determined by the University. Students should not expect to be advised and registered on the same date they are admitted. Appointments for registration will be mailed from the Registrar's Office.

New graduate students after advisement may register during the registration period as shown on the Registration Calendars on page iv. Arrangements should be cleared with the Graduate School to assure that the appropriate adviser will be available before coming to the campus.

Re-Entering Students

Students who have attended the University at some former time but not during the session immediately prior to the time they plan re-entry are expected to register during the periods outlined in the Registration Calendar. Readmission must be completed prior to registration.

Current Students, Edwardsville Campus

For admittance to registration students previously enrolled must present their Southern Illinois University ID cards. No one will be permitted to register without an ID card. Each student currently registered in the University will be continued in his present course of study unless a change of concentration is made. A change of concentration is initiated with the chief academic adviser. The change should be made at the time of advisement; the registrar's copy of the change form should accompany the student's registration. A change of concentration made after a registration has been processed will not be reflected in the student's record until the next registration.

Upperclass students who have declared a concentration and who are currently registered in the University may be self-advised for registration purposes. This does not apply to Business Division or Education Division students. Academic advisement is available and is very desirable. The student should prepare his desired program of classes at each registration period and process through the sectioning area of the enrollment office in accordance with the time of his appointment in order to best achieve the desired schedule of classes and time periods.

Current Students, Carbondale Campus

A student currently enrolled in and attending classes on the Carbondale Campus who desires to register on the Edwardsville Campus will initiate his registration at the sectioning area of the enrollment center in Edwardsville in accordance with the registration calendar except that he may register on the first day of the quarter. Each student will complete the intra-university transfer data form to secure information necessary for the Edwardsville data processing center preparation of registration materials. The student who registers on the first day of the quarter should present his most recent grade report to confirm scholastic eligibility to register.

For the purpose of advisement, the student may wish to have a copy of his transcript sent to the Edwardsville Campus prior to registration.

Payment of Fees

All fees are payable at the time of registration. Upon payment of fees, the fee statement and receipt card will be stamped by the Business Office and returned to the student as a fee receipt. The card should be carried at all times. It serves as official authorization to attend classes as scheduled and must be presented to obtain books and activity cards and to process program changes.

Students unable to pay fees at the time of registration may secure short-term loans from the Student Work and Financial Assistance Office. This must be done before registering.

Fees for a Regular Quarter

The fee schedule is as follows: *

	Not more than 5 hrs.	More than 5, less than 11	11 or more
Tuition Fee—Illinois Resident	\$22.00	\$45.00	\$67.00
Tuition Fee—Out of State Resident	(69.00)	(137.00)	(206.00)
Student Welfare and Recreation			
Building Trust Fund Fee	5.00	10.00	15.00
Book Rental Fee	3.00	6.00	8.00
Student Activity Fee	3.50	7.00	10.50
University Center Fee	5.00	5.00	5.00
Athletic Fund Fee	3.00	6.50	10.00
<i>Total</i> —Illinois Resident	\$41.50	\$79.50	\$115.50
<i>Total</i> —Out of State Resident	(88.50)	(171.50)	(254.50)

* Fees are subject to change whenever conditions make changes necessary.

Graduate students do not rent their textbooks and do not pay the book rental fee. They purchase their books.

Students having special fee status, such as scholarship holders, faculty, and staff, will pay fees according to their particular status. Prior to registration this student will go to the Student Work and Financial Assistance Office to secure certification.

Late Registration Fee

The first day of a quarter is considered the last day of the regular registration period. Registrations thereafter, including those for classes "to be arranged" are considered late registrations and are assessed a late registration fee of \$5.00.

Changing Fee Status

Students making program changes which result in their changing from one fee status to a higher fee status will be assessed additional tuition and fees. Students changing from a higher fee status to a lower fee status may apply for a refund provided the reduction in program is made officially by a program change during the same period at the start of a quarter in which students withdrawing from the University are eligible for a refund. This is usually during the first ten days. For dates refer to the Registration Calendars on page iv.

Academic Load

The normal class load is 16 quarter hours for undergraduate students and 12 quarter hours for graduate students. The maximum load for both is 18 hours. A student with a 4.25 average or above for the preceding quarter may be allowed by written permission of the chief academic adviser or by the dean of his division to take as many as 21 hours. In no case may a student carry or be credited with more than 21 hours in any quarter. A student on probation may not take more than 14 quarter hours.

A person should not register for more than 8 hours if he is employed full time.

The Selective Service System requires a minimum of 12 hours for an undergraduate and 8 hours for a graduate to qualify for a student deferment. There is a further requirement that he complete 48 hours each year.

The National Defense Education Act requires a minimum of 12 hours to qualify for a student loan.

For students receiving benefits under the "GI Bill" (P.L. 358) the following regulations apply:

	<i>Undergraduate</i>	<i>Graduate</i>
Full benefits	14 or more hrs.	12 or more hrs.
$\frac{3}{4}$ benefits	10-13 hrs.	9-11 hrs.
$\frac{1}{2}$ benefits	7-9 hrs.	6-8 hrs.

Prerequisites

Students are responsible for checking course prerequisites in the undergraduate and graduate catalogs and in this class schedule. Those who do not have specific prerequisites for a course may register for it only if they have had a comparable course or have written consent of the instructor.

Auditing of Courses

A student may register for courses in an "audit" status. He receives no letter grade and no credit for such courses. An auditor's registration card must be marked accordingly. He pays the same fees as though he were registering for credit. He is expected to attend regularly and is to determine from the instructor the amount of work expected of him. If an auditing student does not attend regularly, the instructor may determine that the student should not have the audited course placed on his record card maintained in the Registrar's Office. A student registering for a course for credit may change to an audit status or vice versa only for fully justified reasons and only during the first four weeks of a quarter.

Registering for and Dropping Courses

Mere attendance does not constitute registration in a class, nor will attendance in a class for which a student is not registered be a basis for asking that a program adjustment be approved permitting registration in that class. A student is officially registered only for those courses and sections appearing on his registration cards. Changes can be made only after fees are paid and must be made through an official program change at the Enrollment Center.

A student desiring to make a program change must secure approval of his adviser. He will then go to the Enrollment Center. (A student at East St. Louis or Alton may initiate his request to drop a course by going to the General Office.) He is required to present his fee receipt program card and must complete the following procedure. (1) After having been cleared with the Enrollment Center, program changes for which a program change fee is assessed must be presented to the Business Office for payment. (2) The student immediately returns the program change to the Enrollment Center in the Registrar's Office for final processing. (3) A student has not completed his program change until he presents it to the Enrollment Center. **NO CHANGE IS OFFICIAL UNTIL THE PRECEDING PROCEDURE IS COMPLETED.**

A student who finds it necessary to make an adjustment to his program by adding or dropping a course may do so during normal office hours at the Edwardsville Enrollment Office. (No changes will be made on the first day of the quarter.) A program adjustment must be made to drop or add a course. A student may not drop a course merely by stopping attendance. Failure to officially drop a course may result in academic penalty.

Withdrawal from School

A student who finds it necessary to withdraw from school while the quarter is in progress must report to the Student Affairs Office to initiate official withdrawal action. No withdrawal will be permitted during the last two weeks of a quarter except under exceptional conditions. A refunding of fees is permitted only if a withdrawal is officially completed within the first two weeks of a quarter and if the application for a refund is received in the Registrar's Office within two weeks following the last regular registration period. See the Registration Calendar in this bulletin for the specific dates concerning withdrawal and refunding of fees.

A student who registers and then finds that he cannot attend school must also officially withdraw from school. He may do this by asking the Student Affairs Division to initiate official withdrawal action for him. This must be done by the end of the first two weeks if he expects to get a refund.

Cancellation of Registration

A registration including the payment of tuition and fees may be considered invalid if the student is declared to be ineligible to register due to scholastic reasons. The same situation may exist due to financial or disciplinary reasons if certified to the Registrar by the Director of Student Affairs.

Personal Data Changes

Changes in personal data should be reported promptly. Types of change and method of reporting are:

1. ADDRESS CHANGES. Should be reported immediately either at the time of registration or at the Registrar's Office.
2. NAME CHANGES. Should be made at the Registrar's Office. Verification is required.
3. MARITAL STATUS CHANGES. Should be made at the Registrar's Office.
4. LEGAL RESIDENCE CHANGES (whether an Illinois or out-of-state resident.) Must be requested by completion of the *Application to be Classified an Illinois Resident* form in the Registrar's Office. Before the change is made the student must have met the regulations governing residency status as established by the Board of Trustees.

Hospitalization

Health and hospitalization insurance is offered to all students. Cost of the insurance is \$9.00 per quarter for single and \$28.20 per quarter for family plan. This insurance is available at the time of registration.

2 / Schedule of Classes

Except for the Guaranteed Center Schedules, the University reserves the right to cancel, combine, divide, or limit enrollment in any class or classes; to change the date, time, or place of meeting; to make any other revisions in these course offerings which may become desirable or necessary; and to do so without notice and without incurring obligation.

Explanation of the Schedule

Courses are listed numerically within each subject-matter area. The entry for each course is arranged as follows:

First Line: The course's identification number is followed by the number of quarter hours of credit and the descriptive title. The prerequisites, if any, appear in brackets after the title or on the line immediately below the title.

Section-Number Lines: The first column lists the section numbers. Those sections offered at Edwardsville always begin with 0; those sections offered at Alton always begin with 2; those sections offered at East St. Louis always begin with 4. Following each section number is the time the class begins, between 8:00 A.M. and 4:20 P.M. for daytime classes. An ending time is listed only if the class period is longer than 50 minutes. The section number of each evening class has the letter E prefixed. A + indicates a section which is part of the Guaranteed Center Schedule and is not subject to cancellation. The days when the class meets, the place where it meets, and the instructor's last name complete the entry.

The course numbering system is as follows:

000-099 Courses not properly falling in the following categories

100-199 For freshmen

200-299 For sophomores

300-399 For juniors and seniors

400-499 For seniors and graduate students

500-600 For graduate students only

Students registering for courses listed as TBA (to be arranged) should consult the instructor indicated, or the faculty office if no instructor is listed, to determine time and place of meeting.

The following list of building abbreviations will help in the location of classrooms.

ANA	—Annex A—Alton
CB	—Communications Bldg.—Edwardsville
ESL	—East St. Louis Center
Gym	—Gymnasium—Alton
LB	—Lovejoy Memorial Library—Edwardsville
PB	—John Mason Peck General Classroom Building—Edwardsville

SCI —Science Building—Alton
SL —Science Laboratory Building—Edwardsville
UC —University Center—Edwardsville
Wagner —Wagner Building—Edwardsville
Pract Ctr—Practicum Center—Edwardsville

Final Examinations

For late afternoon, evening, and Saturday classes, final examinations are given during regular class sessions.

For More Information

For additional information concerning admission, fees, etc., address

Director of Admissions	or telephone
Southern Illinois University	692-2720
Edwardsville, Illinois 62025	Edwardsville

To obtain a complete schedule of classes offered on the Edwardsville Campus (including the Alton and East St. Louis Centers) for fall, 1969, address

Central Publications	or telephone
Southern Illinois University	692-3650
Edwardsville, Illinois 62025	Edwardsville

110a-4	The Earth and Its Environment	007	6:00-8:20	T Th	SL 1215	Marlow
201a-4	Man's Biological Inheritance [High school chemistry] Student enrolls in one lecture and one lab. Lectures will be given by CC-TV. Specific room assignment will be made by the Enrollment Center at the time of registration.	Lect E	6:30-8:15 6:30	T Th	TBA TBA	
		005	4:30-6:20	M	SL 2211	
		010	4:30-6:30	M	TBA	
		015	4:30-6:20	T	SL 2211	
		020	4:30-6:20	T	TBA	
		025	4:30-6:20	W	SL 2211	
		030	4:30-6:20	W	TBA	
		035	4:30-6:20	Th	SL 2211	
		040	4:30-6:20	Th	TBA	
		045	4:30-6:20	F	SL 2211	
		050	4:30-6:20	F	TBA	
		051	8:30-10:20	S	SL 2211	
		052	11:30-1:20	S	SL 2211	
		053	1:30-3:20	S	SL 2211	
		056	8:30-10:20	S	TBA	
		057	11:30-1:20	S	TBA	
		058	1:30-3:20	S	TBA	
		060	6:30-8:20	M	SL 2211	
		061	8:25-10:15	T	SL 2211	
		062	6:30-8:20	W	SL 2211	
		063	7:30-9:20	Th	SL 2211	
		064	7:30-9:20	Th	TBA	
312-3	Conservation of Natural Resources	007	8:30-9:45	M W	PB 1410	
330-3	Weather	003	6:30-8:20	M W	PB 0306	
331-3	Climate	003	6:30-8:20	T Th	PB 0306	Baker
		004	6:30-8:20	M W	SL 1215	Thompson

MAN'S SOCIAL INHERITANCE AND SOCIAL RESPONSIBILITIES (GSB)

101b-4	Survey of Western Tradition	036	6:30-8:20	T Th	SL 3114	Pearson
		202	6:30-8:20	M W	ANA 101	
103a-4	Sociology-Economics	009	4:30-6:20	M W	PB 2306	Henslin
		010	6:30-8:20	T Th	PB 0312	
		011	8:30-10:20	M W	PB 0312	
		202	8:30-10:20	T Th	ANA 108	

103-3 Oral Communication of Ideas

018	6:30-7:45	T Th	PB 1309
201	6:30-7:45	T Th	ANA 100
022	6:30-7:45	M W	PB 2406
023	8:30-9:45	M W	PB 0302
033	4:30-5:45	T Th	PB 0302
402	6:30-7:45	M W	ESL A
201	6:30-8:20	T Th	SCI 002

112a-4 Introduction to Mathematics [One year high school algebra, satisfactory ACT score]

114a-5 College Algebra [One and one-half years algebra, one year plane geometry]

202	6:00-8:20	M W	SCI 002
402	6:00-8:20	T Th	ESL A

114c-4 Trigonometry [GSD 114a]

004	6:30-8:20	M W	PB 0302
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114d-4 Statistics [GSD 114a]

005	8:30-10:20	M W	PB 3305
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123a-3 Elementary French [No previous training, concurrent enrollment in Fr 123a]

004	6:30-7:45	T Th	PB 2409
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126a-3 Elementary German [No previous training, concurrent enrollment in Ger 126a]

004	5:30-6:45	M W	PB 2409
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140a-3 Elementary Spanish [No previous training, concurrent enrollment in Span 140a]

004	6:30-7:45	M W	PB 2410
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HEALTH AND PHYSICAL DEVELOPMENT (GSE)

104n-1 Cross Country
Meets first eight weeks only.

001	4:30	MT Th	PB N Patio
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201-3 Healthful Living

005	5:30-8:20	W	SL 1105
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ACCOUNTING (ACCT)

230-4 Accounting Principles [Sophomore standing]

005	8:30-10:20	M W	PB 2405
006	8:30-10:20	M W	PB 1312

331-4 Principles of Income Taxation [231]

001	8:30-12:20	S	PB 2405
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341-4 Cost Accounting Principles [231]

002	6:30-8:20	T Th	PB 2304
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533-4 Managerial Accounting [530]

001	8:30-12:20	S	PB 3303
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ART (ART)

050-3 Avocational Painting

001	6:30-10:00	T Th	Wagner 198
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051-3	Avocational Ceramics	001	6:30-10:00	T Th	Wagner 192	
300a-4	Art Education [Junior standing]	003	6:30-9:20	M W	SL 0209	Buddemeyer
349a-3	Renaissance and Baroque Art	001	4:30-5:45	T Th	SL 0226	Jacobson
358c-4	Prints [358b]	001	6:30-10:20	T Th	SL 0210	Smith
410-4	Research in Prints [358-8]	001	6:30-10:20	T Th	SL 0210	Smith
441-4	Studio in Drawing [202a,b,c]	001	4:30-6:20	TWThF	SL 0217	Davis
511-4	Graduate Printmaking	001	6:30-10:20	TW	SL 0210	Smith
566-4	Research in Art Education	001	TBA			
571-4	Readings in Art History	001	TBA			Hilberry
599-5 to 9	Thesis	001	TBA			
BIOLOGY (BIOL)						
504b-3	Instructional Innovation in Secondary School Biology	001	6:30-9:20	T Th	SL 3210	
590a-1	Graduate Biology Seminar	001	4:30	W	SL 3114	R. Parker
591-1 to 4	Readings in Biology [Consent of faculty chairman]	001	TBA			
593-1 to 4	Special Problems in Biology [Consent of faculty chairman]	001	TBA			
599-2 to 9	Research and Thesis [Consent of faculty chairman]	001	TBA			
BUSINESS ADMINISTRATION (B A)						
540-4	Concepts of Managerial Performance [MBA students only]	001	8:30-12:20	S	PB 3315	
543-4	The Administrator [540]	001	6:30-10:20	Th	PB 3303	
545-4	The Social Framework of Business [541]	001	6:30-10:20	W	PB 3316	
BUSINESS EDUCATION (BS ED)						
324a-4	Advanced Shorthand and Transcription	002	6:30-8:20	M W	PB 3417	
324b-4	Advanced Shorthand and Transcription	001	8:30-10:20	T Th	PB 3417	
327-4	Office Theories and Procedures [201c or equivalent]	001	6:30-8:20	T Th	PB 2406	

BUSINESS EDUCATION (BS ED)						15
414a-3	Organization and Administration of Cooperative Vocational Business Education Program	001	5:30-8:20	T	PB 3302	
417-4	Applications and Fundamentals of Data Processing in Business Education	001	8:30-10:20	T Th	CB 0194	
426-4	Office Management	001	8:30-10:20	M W	PB 1306	
503-4	Tests and Measurements in Business Education	001	6:30-8:20	T Th	PB 3315	
530-4	Research Seminar in Business Education	001	6:30-8:20	M W	PB 3422	
590-2 to 5	Readings in Business Education	001	TBA			
591-2 to 5	Individual Research in Business Education	001	TBA			
599-1 to 9	Thesis	001	TBA			
CHEMISTRY (CHEM)						
341a-3	Organic Chemistry [111c]	001	5:30-6:45	M W	SL 2224	
345a,b,c-2	Organic Chemistry Laboratory	005	5:30-8:20	T Th	SL 2216	
375-1	Chemistry Seminar [Senior standing]	001	5:30	M	SL 2231	
433-3	Intermediate Quantitative Analysis [432a or b, 461c]	001	5:30-6:45	T Th	SL 2224	
490-2	Chemical Literature [235, 305b or 341c, reading knowledge of German or consent of chairman]	001	4:30	M W	SL 2224	
496-2 to 6	Chemical Problems	001	TBA			
562-3	Atomic and Molecular Structure [561]	001	7:00-8:15	M W	SL 2224	
575-1	Graduate Seminar	001	5:30	W	SL 2231	
597-3 to 5	Research and Thesis	001	TBA			
COUNSELOR EDUCATION (C ED)						
305-4	Educational Psychology [By permit only] Four additional sessions TBA.	004	5:30-8:20	W	LB 0042	Ederle
420-4	Educational Statistics Four additional sessions TBA for both sections.	001	5:30-8:20	M	PB 2304	Rochester
		002	5:30-8:20	W	PB 2304	Rochester
422-4	Educational Measurements I Four additional sessions TBA.	001	5:30-8:20	Th	PB 3313	King

426-4	Individual Inventory Four additional sessions TBA.	001	5:30-8:20	T	Pract Ctr	
501-4	Special Research Problems	001	TBA			
510-4	College Student Personnel Services	001	5:30-8:20	M	Pract Ctr	Moore
511-4	Educational Implications of Learning Theories	001	5:30-8:20	Th	PB 1402	
515-4	Psychological Aspects of Education	001	5:30-8:20	T	PB 3313	
522-4	Educational Measurements II	001	5:30-8:20	M	PB 3313	King
525-4	School Behavior Problems and Their Prevention	201	9:00-12:00	S	ANA 104	Meredith
526-4	Advanced Guidance of the Individual: Elementary	001	5:30-8:20	T	PB 2306	Mermis
535-4	Introduction to Individual Measurement	001	5:30-8:20	Th	Pract Ctr	
537-4	Counseling Theory and Practice I	001	5:30-8:20	W	PB 3313	
		002	5:30-8:20	Th	PB 2306	
538-4	Counseling Theory and Practice II	001	5:30-8:20	T	LB 0042	Soper
541-4	Occupational Information and Guidance	001	5:30-8:20	T	PB 1410	Van Horn
542-4	Basic Principles of Guidance	001	5:30-8:20	T	LB 0044	King
543-4	Guidance Through Groups	001	5:30-8:20	T	Pract Ctr	Davis
		002	5:30-8:20	W	Pract Ctr	McBride
		003	5:30-8:20	Th	Pract Ctr	Mermis
545b-4	Seminar in Guidance: Learning and Communication	001	5:30-8:20	W	PB 2412	Mermis
545j-4	Seminar in Guidance: Organization and Administration	001	5:30-8:20	W	PB 3102	Davis
562a-4	Child Development in Education	001	5:30-8:20	Th	PB 1410	
562b-4	Adolescent Development in Education	001	5:30-8:20	M	PB 0314	Ederle
575c-4	Practicum in Secondary Guidance	001	TBA		Pract Ctr	Moore
		002	TBA		Pract Ctr	
		003	TBA		Pract Ctr	Soper

ECONOMICS (ECON)

201-4	Microeconomics [Sophomore standing]	002	8:30-10:20	M W	PB 2411	
200-4	The Monetary System and Economic Policy [201]	003	6:30-8:20	M W	PB 3315	

					ECONOMICS (ECON)			17
441-4	Intermediate Macro Theory [200]	001	6:30-8:20	M W		PB 3409		
450a-3	History of Economic Thought [200, 201 or GSB 211a, 210]	001	4:30-6:20	T Th		PB 3422		
465-4	Mathematical Economics I [440]	001	8:30-10:20	M W		PB 3422		
505-4	Theory of the Firm [504]	001	6:30-10:20	M		PB 3316		
541-4	National Income Theory [441 or consent of instructor] Saturday additional hours TBA.	001	6:30-9:20	M		PB 3314		
542-4	Price Theory [440 or consent of instructor] Saturday additional hours TBA.	001	6:30-9:20	T		PB 3314		
561-4	Advanced Topics in Economic History [Consent of instructor] Saturday additional hours TBA.	001	6:30-9:20	W		PB 3314		
599-1 to 9	Thesis [Consent of instructor]	001	TBA					
EDUCATION ADMINISTRATION (ED AD)								
355-4	Philosophy of Education [C Ed 305] Four extra sessions TBA.	006	5:30-8:20	M		PB 0411	Curry	
		007	9:00-11:40	S		PB 0411	Aranda	
420-4	Legal Basis of American Education	001	5:30-8:20	M		PB 0309	Ackerlund	
434-4	Administrator's Workshop	001	5:30-8:20	Th		PB 2413	Ackerlund	
456-4	School Supervision	001	5:30-8:20	M		PB 0406	Helsel	
		002	9:00-11:40	S		PB 0314	Wheat	
480-4	Backgrounds of Urban Education Four extra sessions TBA.	001	5:30-8:20	Th		PB 1307	Burnett	
500-4	Research Methods	001	5:30-8:20	M		LB 0051	Popp	
		002	5:30-8:20	T		LB 0051	Hildebrand	
		003	5:30-8:20	W		LB 0051	Jordan	
		004	5:30-8:20	Th		LB 0051	Popp	
		005	5:30-8:20	F		LB 0051	Richards	
		006	9:00-11:40	S		LB 0051	Popp	
501-4	Seminar in Educational Administration [524]	001	5:30-8:20	W		PB 3305	Helsel	
506-4	Seminar: Curriculum in Relation to American Culture	001	5:30-8:20	T		SL 2231	Mason	
511a-4	Internship Practicum [Consent of instructor and faculty chairman]	001	TBA					
520-4	Illinois School Law	001	5:30-8:20	T		PB 0314	Wilkins	

524-4	School Administration	001	5:30-8:20	W	PB 0314	Krchniak
534-4	School Finance	001	5:30-8:20	W	PB 0406	Wilkins
551-4	Community Junior College Curriculum	001	5:30-8:20	M	PB 0408	Boss
554-4	Contrasting Philosophies of Education	001	5:30-8:20	W	PB 2413	Villemain
		002	9:00-11:40	S	PB 2413	Hofmann
560-4	Curriculum	001	5:30-8:20	T	PB 2415	Smith
		002	9:00-11:40	S	PB 0408	Smith
563-4	Workshop in School Public Relations	001	5:30-8:20	T	SL 1210	Andree
565-4	The Community Junior College	001	5:30-8:20	Th	SL 1210	Goodwin
575a-4	Individual Research (Curriculum) [Consent of instructor and faculty chairman]	001	TBA			
575b-4	Individual Research (Supervision) [Consent of instructor and faculty chairman]	001	TBA			
575c-4	Individual Research (Buildings) [Consent of instructor and faculty chairman]	001	TBA			
575d-4	Individual Research (Finance) [Consent of instructor and faculty chairman]	001	TBA			
575e-4	Individual Research (School Law) [Consent of instructor and faculty chairman]	001	TBA			
575f-4	Individual Research (Comparative Education) [Consent of instructor and faculty chairman]	001	TBA			
575g-4	Individual Research (History of Education) [Consent of instructor and faculty chairman]	001	TBA			
575h-4	Individual Research (Philosophy of Education) [Consent of instructor and faculty chairman]	001	TBA			
575j-4	Individual Research (Administration) [Consent of instructor and faculty chairman]	001	TBA			
575k-4	Individual Research (Elementary Administration) [Consent of instructor and faculty chairman]	001	TBA			
596-5 to 9	Independent Investigation [Consent of instructor and faculty chairman]	001	TBA			
597-1 to 3	Thesis [Consent of instructor and faculty	001	TBA			

314-4	Elementary School Methods [Ed Ad 355, consent undergraduate teacher education advisement office] Not open to continuing day students; equivalent laboratory time must be arranged. Four extra sessions TBA.	003	5:30-8:20	W	PB 0309	Carpenter
337-4	Reading in the Elementary Schools [314, C Ed 305, Ed Ad 355]	003	4:30-6:20	T Th	PB 0406	Starr
413-4	Children's Literature [C Ed 305] Four extra sessions TBA.	001	5:30-8:20	Th	LB 0042	Darnell
415-4	Improvement of Instruction in Arithmetic in the Elementary School [Math 310]	002	5:30-8:20	W	PB 1414	Swordlin
442-4	Science for the Elementary Teacher [314]	001	5:30-8:20	Th	PB 0411	Bliss
480-4	Backgrounds of Urban Education	001	5:30-8:20	Th	PB 1307	Burnett
505-4	Improvement of Reading Instruction	001 002	5:30-8:20 5:30-8:20	T W	PB 0304 PB 0408	Richardson Turner
507-2 to 4	Readings in Reading [505, consent of instructor]	001	TBA			
509-4 to 8	Practicum in Reading [521a, consent of instructor]	001	TBA			
513-4	Materials and Methods for the Assessment of the Disabled Reader [505]	001	5:30-8:20	W	PB 0403	Richardson
518-4	Supervision of Student Teachers	001	5:30-8:20	M	PB 0304	Wehling
521a-4	Diagnosis and Correction of Reading Disabilities [505, consent of instructor] Student enrolls for lecture and one clinic.	Lect Clinic 1 Clinic 2 Clinic 3	5:30-7:20 8:00-9:30 9:30-11:00 11:00-12:30	T S S S	PB 0403 PB 0405 PB 0405 PB 0405	Turner
521b-4	Diagnosis and Correction of Reading Disabilities [521a, consent of instructor] Student enrolls for lecture and one clinic.	Lect Clinic 1 Clinic 2 Clinic 3	5:30-7:20 8:00-9:30 9:30-11:00 11:00-12:30	Th S S S	PB 0403 PB 0405 PB 0405 PB 0405	Bear
542-4	Language Arts in the Elementary School	001	5:30-8:20	T	PB 2412	Darnell
543-4	Teaching the Social Studies in the Elementary School	001	5:30-8:20	T	PB 1307	Carpenter
553-4	Practicum in Urban Education	001	TBA			Burnett, Wheadon

557-4	The Elementary Principalship [524, consent of instructor]	001	5:30-8:20	Th	PB 3316	Wheat
561-4	The Elementary School Curriculum	001	9:00-11:40	S	PB 1306	Comer
567a-4	Teaching Competencies and their Application	001	TBA			Harmin
		002	5:30-8:20	M	PB 1312	Wheadon
575a-4	Individual Research (Curriculum) [Consent of instructor and faculty chairman]	001	TBA			
575b-4	Individual Research (Supervision) [Consent of instructor and faculty chairman]	001	TBA			
575c-4	Individual Research (Language Arts) [Consent of instructor and faculty chairman]	001	TBA			
575d-4	Individual Research (Science) [Consent of instructor and faculty chairman]	001	TBA			
575e-4	Individual Research (Reading) [Consent of instructor and faculty chairman]	001	TBA			
575f-4	Individual Research (Social Studies) [Consent of instructor and faculty chairman]	001	TBA			
575g-4	Individual Research (Elementary Education) [Consent of instructor and faculty chairman]	001	TBA			
575h-4	Individual Research (Arithmetic) [Consent of instructor and faculty chairman]	001	TBA			
575j-4	Individual Research (Kindergarten-Primary) [Consent of instructor and faculty chairman]	001	TBA			
575k-4	Individual Research (Elementary Administration) [Consent of instructor and faculty chairman]	001	TBA			
596-5 to 9	Independent Investigation [Consent of instructor and faculty chairman]	001	TBA			
597-1 to 3	Thesis [Consent of instructor and faculty chairman]	001	TBA			
EDUCATION SECONDARY (ED S)						
315-4	High School Methods [Ed Ad 355, consent of undergraduate teacher education advisement office] Student must arrange equivalent laboratory time.	004	7:30-10:20	Th	PB 0403	Smith

EDUCATION SECONDARY (ED S)							21
407-4	The Junior High School Four extra sessions TBA.	001	5:30-8:20	T	PB 2414	Hileman	
480-4	Backgrounds of Urban Education Four extra sessions TBA.	001	5:30-8:20	Th	PB 1307	Burnett	
488-4	Teaching Social Studies in Secondary Schools Four extra sessions TBA.	001	5:30-8:20	W	PB 1313	Tom	
505-4	Improvement of Reading Instruction	001 002	5:30-8:20 5:30-8:20	T W	PB 0304 PB 0408	Richardson Turner	
507-4	Readings in Reading	001	TBA				
508-4	Seminar: Trends in Selected Areas in Secondary Schools	001	5:30-8:20	W	PB 1309	Schnabel	
509-4	Practicum in Reading	001	TBA				
513-4	Materials and Methods for the Assessment of the Disabled Reader [Consent of instructor]	001	5:30-8:20	W	PB 0403	Richardson	
518-4	Supervision of Student Teachers	001	5:30-8:20	M	PB 0304	Wehling	
521a-4	Diagnosis and Correction of Reading Disabilities [Consent of instructor] Student enrolls for lecture and one clinic	Lect Clinic 1 Clinic 2 Clinic 3	5:30-7:20 8:00-9:30 9:30-11:00 11:00-12:30	T S S S	PB 0403 PB 0405 PB 0405 PB 0405	Turner	
521b-4	Diagnosis and Correction of Reading Disabilities [521a, consent of instructor] Student enrolls for lecture and one clinic	Lect Clinic 1 Clinic 2 Clinic 3	5:30-7:20 8:00-9:30 9:30-11:00 11:00-12:30	Th S S S	PB 0403 PB 0405 PB 0405 PB 0405	Bear	
553-4	Practicum in Urban Education	001	TBA			Burnett, Wheadon	
562-4	The High School Curriculum	001	5:30-8:20	W	PB 1312	Smyers	
564-4	High School Principalship [524, consent of instructor]	001	5:30-8:20	Th	PB 2415	Andree	
567a-4	Teaching Competencies and Their Application [Consent of instructor or faculty chairman]	001 002	TBA 5:30-8:20			Harmin Wheadon	
575a-4	Individual Research (Curriculum) [Consent of instructor or faculty chairman]	001	TBA				
575b-4	Individual Research (Supervision) [Consent of instructor or faculty chairman]	001	TBA				

575c-4	Individual Research (Language Arts) [Consent of instructor or faculty chairman]	001	TBA			
575d-4	Individual Research (Science) [Consent of instructor or faculty chairman]	001	TBA			
575e-4	Individual Research (Reading) [Consent of instructor or faculty chairman]	001	TBA			
575f-4	Individual Research (Social Studies) [Consent of instructor or faculty chairman]	001	TBA			
575g-4	Individual Research (Secondary Education) [Consent of instructor or faculty chairman]	001	TBA			
575h-4	Individual Research (Higher Education) [Consent of instructor or faculty chairman]	001	TBA			
575j-4	Individual Research (Junior College) [Consent of instructor or faculty chairman]	001	TBA			
596-5 to 9	Independent Investigation [Consent of instructor and faculty chairman]	001	TBA			
597-1 to 3	Thesis [Consent of instructor and faculty chairman]	001	TBA			
ENGINEERING (ENGR)						
101a-3	Engineering Graphics	003	6:30-9:20	M W	SL 1216	Bishop
200a-3	Circuit Analysis [Math 150a or concurrent enrollment]	002	5:00-6:20	T Th	SL 3225	McKay
201a-1	Circuit Analysis Laboratory	003	6:30-9:20	T	SL 1212	McKay
363b-3	Surveying [Math 114b]	004	6:30-9:20	Th	SL 1212	Hord
395-2 to 8	Readings in Engineering [Junior or senior standing]	001	9:30-2:20	S	SL 3225	
465-4	Automatic Control Theory	001	TBA			
472-3	Digital Computers in Research [Math 225]	001	5:00-6:50	M W	SL 1210	McKay
590-2 to 4	Readings in Engineering Mathematics [Consent of	001	8:30-9:45	T Th	CB 0186	Wallace

300-4	Principles of English Grammar [Completion of second-level GSC]	002	6:30-8:20	T Th	PB 1308	Van Syoc
302a-4	Survey of English Literature: Beginnings to 1550 [Completion of second-level GSC]	002	8:30-10:20	M W	PB 0303	Cobb
309a-4	Survey of American Literature to 1860 [Completion of second-level GSC]	002	6:30-8:20	T Th	PB 1313	
309b-4	Survey of American Literature Since 1860 [Completion of second-level GSC]	002	8:30-10:20	M W	PB 0309	Austin
391-3	Usage in Spoken and Written English [Completion of second-level GSC]	003	8:30-9:45	T Th	PB 2411	Steinman
392-3	Professional Writing I [Completion of second-level GSC]	001	9:00-11:45	S	PB 0302	Hobbie
404a-4	Middle English Literature Excluding Chaucer [Completion of second-level GSC, junior standing]	001	4:30-6:20	M W	PB 0303	Wood
458a-4	American Fiction: Novels to 1914 [Completion of second-level GSC, junior standing]	001	6:30-8:20	M W	PB 2414	Joost
460d-4	English Drama: Modern British [Completion of second-level GSC, junior standing]	001	4:30-6:20	T Th	PB 0303	Going
485-4	Problems in the Teaching of English [Completion of second-level GSC, junior standing]	001	6:30-8:20	T Th	PB 2411	Steinman Frogner
499-2 to 4	Readings in English [Consent of adviser]	001	TBA			
500-4	Materials and Methods of Research in English [Graduate standing, by permit only]	002	8:30-10:20	M W	PB 3317	Hoyenga
501-4	Old English Grammar [Graduate standing, by permit only]	001	6:30-8:20	T Th	PB 3317	Wood
534-4	Studies in Early 19th Century American Writers [Graduate standing, by permit only]	001	4:30-6:20	M W	PB 3316	Austin
560-4	Studies in Renaissance Drama [Graduate standing, by permit only]	001	8:30-10:20	T Th	PB 3317	Taylor
598-1 to 4	Independent Review of English and American Literature [Consent of adviser, by permit only]	001	TBA			
599-2 to 4	Thesis [Consent of adviser, by permit only]	001	TBA			

FINANCE (FIN)

320-4	Corporation Finance [Acct 230, 231; Econ 200, 201]	001	8:30-10:20	T Th	PB 2403
423-4	Commercial Banking Operations [420]	002	6:30-8:20	T Th	PB 3314
520-4	Finance [MBA students only]	001	6:30-10:20	T	PB 3316

FOREIGN LANGUAGES (F L)

399-3 to 9 Readings [201, consent of chairman]

001 TBA

FRENCH (FR)

123a-1 French Conversation [Concurrent enrollment in GSD 123a]

PB 2409

499-2 to 5 Readings in French [201, one quarter 220, consent of chairman]

001 TBA

545-3 Applied Linguistics and Remedial Phonetics [Graduate standing]

TBA

GERMAN (GER)

126a-1 German Conversation [Concurrent enrollment in GSD 126a]

PB 2409

499-2 to 5 Readings in German [201, one quarter 220, consent of chairman]

001 TBA

514-3 Seminar in Folklore [Graduate standing]

PB 0309

ITALIAN (ITAL)

499-3 Readings in Italian [201, one quarter 220, consent of chairman]

PB 2410

RUSSIAN (RUSS)

499-2 to 5 Readings in Russian [201, one quarter 220, consent of chairman]

001 TBA

SPANISH (SPAN)

140a-1 Spanish Conversation [Concurrent enrollment in GSD 140a]

PB 2410

415-3 Phonetics [201; one quarter 220 or graduate standing or consent of chairman]
499-2 to 5 Readings in Spanish [201, one quarter 220, consent of chairman]

GENERAL BUSINESS ADMINISTRATION (GBA)

140-4	Introduction to Business	006	6:30-8:20 6:30-7:20 7:30-8:20 6:30-8:20 6:30-7:20 7:30-8:20 6:30-8:20 7:30-8:20 6:30-7:20 6:30-8:20 6:30-7:20 7:30-8:20	M W W M W W M W W M W W	PB 1402 PB 1402 PB 3302 PB 1402 PB 1402 PB 1316 PB 1402 PB 1402 PB 3302 PB 1402 PB 1316 PB 1402
		007			
		008			
		009			
342-4	Contracts—Agency Law	002	8:30-10:20	T Th	PB 2414

GEOGRAPHY (GEOG)

410a-4	Quantitative Methods in Geography (Same as Govt 410a and Soc 410a)	001	6:30-8:20	T Th	PB 0406	Guffy Crowther
461b-3	Regional Geography of Anglo-America	001	5:30-8:20	M	PB 1412	Collier
501-4	Geographic Techniques II	001	5:30-8:20	W	Tract 14B	Koepke
520-4	Seminar in Physical Geography	001	8:30-12:30	S	SL 1215	Miller
521-4	Seminar in Economic Geography	001	5:30-8:20	W	PB 1412	Collier
530-2 to 4	Independent Studies in Geography	001	5:30-8:20	W	PB 1412	Collier
570-4	Philosophy, Theory, and Practice of Planning	001	5:30-8:20	M	Tract 14B	Roth
573-4	Urban Renewal	001	5:30-7:20	T Th	Tract 14B	Lossau
599-2 to 8	Thesis	001	TBA			Kazeck

GOVERNMENT (GOVT)

410a-4	Quantitative Methods in Political Science (Same as Geog 410a and Soc 410a)	001	6:30-8:20	T Th	PB 0406	Guffy Crowther
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499-4	Scope and Method of Political Science [20 hours of upper division work in government]	001	9:30-1:20	S	PB 1308	
521-2 to 5	Readings in Government [Consent of faculty chairman]	001	TBA			
529-4	Seminar in Public Administration	001	5:30-9:20	W	PB 1304	McHargue
599-2 to 5	Thesis [Consent of faculty chairman]	001	TBA			
HEALTH EDUCATION (H ED)						
355-4	Introduction to Public Health	001	5:30-9:20	Th	PB 2412	Grist
HISTORY (HIST)						
102-4	Survey of Asian Civilization	002	6:30-8:20	M W	PB 1307	
332a-3	Medieval History	001	6:30-7:45	T Th	PB 0309	Wurtz
401a-4	History of the South	001	6:30-8:20	T Th	PB 0408	Nordhauser
410-2 to 5	Special Readings in History [Consent of faculty chairman]	001	TBA			
420-4	The French Revolution	001	6:30-8:20	T Th	PB 0307	Gallaher
430a-3	Late Modern Europe: 1815-1880	001	8:30-9:45	T Th	PB 0307	
452-3	Historical Research and Thesis Writing	001	9:00-11:40	S	PB 2406	Santoni
		002	8:30-9:45	M W	PB 2406	Rosenthal
500-4	History Seminar Additional hours TBA.	001	5:00	W	PB 2406	Riddleberger
510-2 to 5	Readings in History [Consent of faculty chairman]	001	TBA			
575a-3	Studies in Latin American History	001	5:00-6:15	T Th	PB 2406	Millett
599-1 to 9	Thesis [Consent of faculty chairman]	001	TBA			
HUMANITIES (HUM)						
301-3 to 4	Humanities Honors [By permit only] The Search for Authenticity in the Short Story and Poetry of Spanish America (20th Century).	002	6:30-7:45	T Th	TBA	Osiek

308-4	School Library Technical Processes Lab hours TBA.	001	5:30-8:20	Th	PB 1302	Holzberlein
403-4	School Library Functions and Management Lab hours TBA.	001	5:30-8:20	W	PB 1302	Holzberlein
406-4	Library Materials for Adolescents Lab hours TBA.	001	5:30-8:20	T	PB 1302	
417-4	Audio-Visual Methods in Education Student enrolls for one lecture section, one quiz section, and one hour per week self- instruction.	Lect B 006 011 017 018 019 023 024	5:30-7:20 5:30 5:30 4:30 7:30 7:30 5:30 6:30	W M T W W W Th Th	PB 0304 PB 0410 PB 0410 PB 0410 PB 0410 PB 0304 PB 0410 PB 0410	Thota
440-2	Photography for Teachers Lab hours TBA.	001	5:30-7:20	T	PB 0411	Gilligan
445-4	Preparation of Teacher-Made Audio-Visual Materials Lab hours TBA for all three sections.	001 002 003	5:30-8:20 5:30-8:20 9:00-11:40	T Th S	PB 0409 PB 0409 PB 0409	Madison
530-4	History of Books and Libraries	001	5:30-8:20	M	PB 1302	Holzberlein
548-4	Supervision and Administration of an Audio-Visual Program	001	5:30-8:20	W	PB 0411	Gilligan
549-4	Visual Learning	001	5:30-8:20	W	PB 0409	
560-4	Seminar in Instructional Materials	001	5:30-8:20	Th	TBA	
MANAGEMENT SCIENCE (M S)						
381-4	Management Systems II [310,380]	003	8:30-10:20	M W	CB 0186	
588-4	Seminar in Management Systems [583, QM 513]	001	6:30-10:20	W	PB 3404	
MARKETING (MKTG)						
371-4	Principles of Marketing Management [QM 211]	001	6:30-8:20	T Th	PB 2405	
471-4	Advertising Policy and Management [470]	002	8:30-10:20	T Th	PB 2415	

MATHEMATICS (MATH)

101-4	Fundamental Mathematics	202	6:30-8:20	M W	SCI 003	
		402	6:30-8:20	T Th	ESL C	
150a-4	Elementary Calculus and Analytic Geometry [GSD 114c]	007	6:30-8:20	M W	PB 0303	Oursler
225-4	Programming for Digital Computers [GSD 114a]	006	6:30-8:20	T Th	CB 0186	Wallace
305a-4	Applied Mathematics for Physical Science [252a, Phys 211c]	002	6:30-8:20	T Th	SL 1225	Wilson
321-4	Elementary Matrix Algebra [150b]	003	6:30-8:20	M W	SL 1225	Poynor
351-4	Multivariable Calculus [252b]	001	8:30-10:20	M W	SL 1225	Kessler
395-2 to 5	Readings in Mathematics [12 hours of 300-400 level math, 4.0 average, consent of instructor]	001	TBA			
410a-4	Statistical Analysis [GSD 114a]	001	4:30-6:20	T Th	SL 1225	Clemans
433-3	Theory of Point Sets [252b, 6 hours in 300-level courses or higher]	001	8:00-9:15	T Th	PB 0303	Bennewitz
446b-3	Structure of Mathematics [Experience in teaching or consent of instructor]	001	6:30-7:45	T Th	PB 0303	Holden
455a-3	Advanced Mathematics for the Physical Sciences [305b or consent of instructor]	001	5:00-6:15	T Th	SL 1224	Kurth
458a-3	Finite Mathematics [252a or consent of instructor]	001	6:30-7:45	T Th	PB 0302	Sturley
472a-3	Computer Science [225, 305a, 321]	001	8:30-9:45	T Th	CB 0186	Wallace
475a-3	Numerical Analysis [252b or 305a, consent of instructor]	001	5:00-6:15	M W	CB 0186	Garder
501a-3	Real Variables	001	4:45-6:00	M W	SL 1224	
520a-3	Modern Algebra [420a, concurrent enrollment in 520b]	001	8:00-9:15	M W	SL 3225	Lazerson
550a-1 to 5	Seminar in Algebra [Consent of instructor]	001	TBA			Poynor
550c-1 to 5	Seminar in Analysis [Consent of instructor]	001	TBA			A. Livingston
555a-3	Complex Variables [452c]	001	6:30-7:45	M W	SL 1224	A. Livingston
576a-3	Advanced Topics in Applied Mathematics	001	6:30-7:45	T Th	SL 1224	Garder

580a-3	Mathematical Methods of Statistics [452 or 455]	001	8:00-9:15	M W	SL 1224	
595-1 to 5	Special Project	001	TBA			
599-1 to 5	Thesis	001	TBA			
MUSIC (MUS)						
002e-1	SIU Community Choral Society	001	7:30-9:20	T	PB 1402	Van Camp
003-1	University Symphony Orchestra [By permit only]	001	8:00-10:00	T	CB 1029	Schieber
205a-3	Theory of Music	001	4:30	MTWTh	CB 0194	Oberlag
307-4	Recreational Music. Additional hour TBA.	001	5:30	M W F	PB 3404	
442b-3	Contrapuntal Forms	001	4:30	M W F	PB 3404	Kresteff
481-2 to 6	Readings in Music Theory [By permit only]	001	TBA			
482-2 to 6	Readings in Music History-Literature [By permit only]	001	TBA			
483-2 to 6	Readings in Music Education [By permit only]	001	TBA			
499-1 to 3	Independent Study [By permit only]	001	TBA			
501-3	Introduction to Graduate Study in Music	001	5:30-8:20	M	CB 0194	Blakely
519a-3	Vocal Pedagogy and Literature	001	4:30	M W F	TBA	Moore
540a-u 2 or 4	Private Applied Music [By permit only]	001	TBA			
553b-3	Seminar in Materials and Techniques—Instrumental	001	5:30-8:20	W	CB 0194	Fjerstad Tarwater
560-2 to 6	Seminar in Music Education	001	5:30-8:20	T	CB 0194	Joseph Tarwater
566-1	Instrumental Ensemble [By permit only]	001	TBA			Fjerstad Schieber
567-1	Choral Ensemble [By permit only]	001	TBA			Van Camp
599-3 to 9	Thesis [By permit only]	001	TBA			
PERSONNEL (PERS)						
451-4	Labor Relations Law and Collective Bargaining [GBA 340]	002	8:30-10:20	T Th	PB 2410	

PHILOSOPHY (PHIL)

301-4	Philosophy of Religion [Sophomore standing]	001	6:30-8:20	T Th	PB 0413	F. Marti
490-4	Special Problems: Kant	001	TBA			F. Marti
495-2 to 12	Independent Readings	001	TBA			
502a-2	Methods of Teaching Philosophy [Graduate standing]	001	TBA			Glossop
546-4	Empiricism [Graduate standing]	001	6:30-8:20	T Th	PB 1304	Keene
565-4	Ethical Theory [Graduate standing]	001	4:30-6:20	T Th	PB 3317	Seligman

PHYSICAL EDUCATION (PE)

350-4	Methods and Materials for Teaching Physical Education Activities in the Elementary School Additional eight hours TBA for Sections 003 and 004.	003 004	5:30-8:20 5:30-8:20	W M	LB 0033 LB 0033	Luedke Moehn
389-4	Affiliation in Physical Education	001	TBA			Herrold
475-4	Individual Research	001	TBA			Herrold
501-4	Curriculum in Physical Education	001	5:30-7:20	T Th	LB 0033	Archangel
502-4	Foundation of Motor Skills	001	6:30-9:50	M	PB 2412	Showers

PHYSICS (PHYS)

211a-4	University Physics [Concurrent enrollment in Math 150a] Student enrolls for both lecture and problem session.	Lect B 009	6:30 7:30	MT Th M Th	SL 1105 SL 1105	
212a-1	University Physics Laboratory [Concurrent enrollment in 211a]	009 010	7:30-8:20 6:30-8:20 6:30-9:20	T W F	SL 1218 SL 1218 SL 1218	
304-4	Thermodynamics and Kinetic Theory [211b]	001	6:00-7:50	M W	SL 0226	
419-4	Introduction to Theoretical Physics [Math 305]	001	6:00-7:50	T Th	SL 0226	
420-2 to 5	Special Projects	001	TBA			
510a-3	Classical Mechanics	001	8:00-9:20	T Th	SL 0226	
531a-3	Quantum Mechanics	001	8:00-9:20	M W	SL 0226	
590-1 to 5	Research in Physics	001	TBA			

461-4 Methods Design and Work Measurement

002 6:30-8:20 T Th PB 3404

PSYCHOLOGY (PSYC)

301-4 Child Psychology [GSB 201c]

003 4:30-6:20 T Th PB 3315 Kuenzli
004 6:30-8:20 M W PB 0312

303-4 Adolescent Psychology [GSB 201c]

003 6:30-8:20 T Th PB 1312 Starr

305-4 Introduction to Personality Dynamics [GSB 201c]

003 5:30-7:20 T Th PB 1412

307-4 Social Psychology [GSB 201c]

002 6:30-8:20 M W PB 1306 Engbretson

420-4 Experimental Analysis of Behavior [GSB 201c]
Four Friday sessions, fifth through eighth week.

001 5:30-8:20 M F SL 2212 McLaughlin

431-4 Psychopathology [305]
Meets first four Fridays only.

002 5:30-8:20 Th F PB 0314 McMahon

432-4 Mental Hygiene [305]

001 8:30-12:20 S PB 3305 Starr

440-4 Theories of Personality [305]
Four Friday sessions, fifth through eighth week.

001 5:30-8:20 M F PB 3302 Behring

465-4 Group Dynamics and Individual Behavior [307]
Meets first four Fridays only.

002 5:30-8:20 W F PB 2415 Russo

474-4 Psychology of Employee Relations [320]
Four Friday sessions, fifth through eighth week.

001 5:30-8:20 M F PB 2413 Daugherty

490-1 to 4 Independent Projects [Concentration in psychology, consent of chairman]

001 TBA

501a-4 Proseminar in General Psychology [Admission to graduate program in psychology]

001 5:30-7:20 T Th PB 3102 Kohfeld, McCall, McLaughlin

520-4 Research Design and Inference I [211b]

001 7:30-9:20 T Th PB 3102 Brinkmann

530-4 Personality Theory and Dynamics [440]

001 5:30-8:20 M PB 3317 Clodfelder

541a-4 Psychodiagnostics I [211b, 421, consent of instructor]

001 5:30-8:20 W PB 3317 Taliana

590-4 Readings in Psychology [Consent of chairman]

001 TBA

591-4 Research in Psychology [Consent of chairman]

001 TBA

593-2 to 4	Practicum in Psychology [Consent of instructor and chairman]	001	TBA						
593s-2 to 4	Practicum in Psychology: School Psychology [Consent of instructor and chairman]	001	TBA						
599-2 to 4	Thesis [Consent of chairman]	001	TBA						
QUANTITATIVE METHODS (Q M)									
210-4	Introduction to Quantitative Methods [GSD 114a]	005	6:30-8:20	M W				PB 3303	
510-4	Statistical Analysis for Decision Making [MBA students only]	001	6:30-10:20	M				PB 3404	
SCIENCE AND TECHNOLOGY (SC & T)									
415-1	Instructional Innovation for the Physical Sciences	001	9:00-12:00	S				SL 0226	Zurheide
SOCIOLOGY (SOC)									
302-4	Contemporary Social Problems	002	8:30-10:20	M W				PB 1414	Grubb
396-1 to 5	Readings in Sociology [Consent of faculty chairman]	001	TBA						
405-4	Current Sociology	001	6:30-8:20	T Th				PB 1414	Humphreys
410a-4	Quantitative Methods in Sociology (Same as Govt 410a and Geog 410a)	001	6:30-8:20	T Th				PB 0406	Guffy, Crowther
451-4	Social Thought II: The Sociological Movement	001	4:30-6:20	T Th				PB 1414	Reynolds
501-4	Survey of Sociological Theory	001	6:30-8:20	M W				PB 2306	Blain
596-2 to 6	Readings in Sociology [Consent of faculty chairman]	001	TBA						
599-2 to 6	Thesis [Consent of faculty chairman]	001	TBA						
SOCIAL WELFARE (SOC W)									
383-4	Introduction to Interviewing	001	5:30-7:20	M W				PB 0307	Teer
SPECIAL EDUCATION (SP ED)									
410a-4	Problems and Characteristics of the Emotionally Disturbed Child [414] Meets first four Fridays only.	001	5:30-8:20	M F				PB 0403	

				T F	PB 3303
410b-4	Problems and Characteristics of the Mentally Retarded Child [414] Section 002 meets first four Fridays only.	002	5:30-8:20		
410c-4	Problems and Characteristics of the Gifted Child [414, by permit only] Section 002 meets first four Fridays only.	001 002	8:30-12:20 5:30-8:20	S ThF	PB 0406 PB 2414
414-4	The Exceptional Child [C Ed 305] Meets first four Fridays only.	002	5:30-8:20	W F	PB 2405
420b-4	Methods and Materials in the Education of the Educable Mentally Handicapped [410b] Meets first four Fridays only.	001	5:30-8:20	M F	PB 0412
428-4	Speech Correction for the Classroom Teacher (Same as S P & A 428) Additional hours TBA.	001	5:30-8:20	Th	CB 2012 Taylor
430-4	Behavior Modification in Special Education [Psyc 420] Meets first four Fridays only.	001	5:30-8:20	W F	PB 1410
496-1 to 8	Readings and Independent Study in Special Education [By permit only]	001	TBA		
501-4	Special Research Problem [By permit only]	001	TBA		
577-4 to 8	Practicum in Special Education [By permit only]	001	TBA		
590a-4	Seminar: Mental Retardation [By permit only]	001	5:30-8:20	W	SL 3114
SPEECH (SPCH)					
417-4	Contemporary Public Address Additional hours TBA	001	5:30-8:20	M	CB 0186
532-2	Areas and Techniques of Research	001	5:30-7:20	W	CB 0186 Stoppe
SPEECH PATHOLOGY AND AUDIOLOGY (S P & A)					
428-4	Speech Correction for the Classroom Teacher (Same as Sp Ed 428) Additional hours TBA.	001	5:30-8:20	Th	CB 2012 Taylor
515-1 to 4	Readings in Speech Pathology [Graduate standing] Additional hours TBA.	001	5:30	W	CB 2012 Lieblich
522a-4	Seminar in Organic Speech Problems: Cleft	001	5:30-8:20	T	CB 2012 Carey

THEATER (THEA)

403-4	Dramatic Theory and Criticism Additional hours TBA.	001	5:30-8:20	T	PB 2413	Archer
519-1 to 4	Theater Practicum Additional hours TBA.	001	5:30	M	CB 2015	Kluth

VOCATIONAL-TECHNICAL INSTITUTE (VTI)

CCS 111-2	Audio-Visual Aids	001	6:30-8:20	Th	SL 3225	
CCS 115-2	Art and Music. Additional three hours TBA.	001	7:30	T	PB 0403	Naylor

TECHNICAL AND ADULT EDUCATION (T & AE)

English Review						
		001	6:30-8:20	T	PB 0412	
		002	6:30-8:20	Th	PB 0412	
		003	6:30-8:20	W	PB 1315	
		004	8:30-10:20	W	PB 1315	
Reading Improvement						
		001	4:30-6:20	T	PB 0412	
		002	4:30-6:20	Th	PB 0412	
		003	6:30-8:20	W	PB 0412	
		004	8:30-10:20	W	PB 0412	

Course Descriptions

This section contains descriptions for courses offered in the previous section of this bulletin. Courses are listed numerically within each subject-matter area and in the same order in which they appear in the previous section.

Man's Physical Environment and Biological Inheritance (GSA)

110-8 (4,4) 'The Earth and Its Environment. A study of the earth, its major domains and its space environment; student investigation of earth substances, processes and utilization of energy. An investigative approach for study of the observational and measurement techniques of the earth scientist. Lecture, laboratory, and individual study. Must be taken in a,b sequence. Prerequisite: one year of high school chemistry.

201-8 (4,4) Man's Biological Inheritance. Basic biological concepts are explored at levels of integration ranging from the molecular to the ecosystem. Topics include structure and function of cells and organisms, genetics, continuity of life, problems of populations, environmental control, evolutionary development, interrelationships between plants and animals. Must be taken in a,b sequence. Prerequisite: high school or college chemistry.

312-3 Conservation of Natural Resources. A study of man's use and misuse of natural environment.

330-3 Weather. A study of weather elements basic to understanding the various atmospheric happenings, with application to agriculture, industry, recreational resources, etc. May take only 330 or 331 for General Studies credit.

331-3 Climate. Description and interpretation of climatic regions and their influence on human activity. May take only 330 or 331 for General Studies credit.

Man's Social Inheritance and Social Responsibilities (GSB)

101-8 (4,4) Survey of Western Tradition. (b) Political, economic and cultural history of Europe from the Early Middle Ages to the end of the Napoleonic Age. (c) History of Europe from Congress of Vienna to the present.

103-8 (4,4) Sociology-Economics. An introduction to the great economists and sociologists and especially to those writers who are regarded as both. (a) A historical development of sociological ideas and introduction to such concepts as social structure, role behavior, and social institutions. (b) A historical development of economic ideas and an introduction to economic concepts, institutions, and problems. Should be taken in a,b sequence.

201-8 (4,4) The Individual and His Cultural Environment. A study of human behavior in the light of cultural and psychological processes. (a) Anthropology: An examination of the biological and cultural origins of mankind; cultural diversity and human behavior; characteristic features of tribal societies, including economy, social organization, language, art, religion, and political organization; place of non-industrialized societies in the modern world. (c) Psychology: Surveys modern psychological approaches to individual behavior; includes basic developmental processes such as learning and motivation plus a study of personality and related adjustment problems. Prerequisite: 101 or 103.

203-8 (4,4) American Politics in the World Environment. (a) The theory, organization, and operation of American government. (b) Analysis and interpretation of human geographic patterns; world population, settlement, economic activities. Meets State Constitution requirements.

300-9 (3,3,3) History of the United States. A general survey of the political, social, and economic development of the United States. (a) 1492 to 1815, (b) 1815 to 1900, (c) 1900 to the present.

331-3 The American Educational Systems. A critical and problematic study of education as a major social enterprise of a free society in its context of international involvements. The formative influences upon the American educational systems, its basic characteristics, difficulties and prospects are explored through the disciplines comprising the intellectual-cultural foundations of education. Designed for all students irrespective of major discipline or professional pursuit.

341-3 Marriage. An examination of marriage in various societies with an emphasis on the origins, changes, and present status of dating, courtship, and marriage in the United States.

Man's Insights and Appreciations (GSC)

151-3 Introduction to Poetry. Introduction to the enjoyment of poetry. Practice in techniques of critical reading and writing. Prerequisite: GSD 101a,b.

155-5 Introduction to Art. Basic introduction to the visual arts, particularly painting, sculpture, and architecture. The primary objective is to cultivate skill and discrimination in seeing and understanding works of art from many periods.

156-5 Introduction to Music History-Literature. An introduction to the elements of music, and to the important composers, periods, styles, and forms of music.

252-4 Logic. Study and practice in the analysis of verbal traps, relations between statements, deductive arguments, and inductive inferences.

253-4 Literary Masterpieces of Antiquity. Reading and discussion of selected literary texts from Classical and Hebraic Antiquity.

254-4 Philosophical Masterpieces. Reading and discussion of selected philosophic masterpieces of western civilization.

335-3 Studies in Short Fiction. The development of the short story as an artistic expression, its techniques, and its versatility, from the early 19th century to the present.

Organization and Communication of Ideas (GSD)

101-6 (3,3) English Composition. Basic rhetorical principles in expository writing. Must be taken in a,b sequence.

103-3 Oral Communication of Ideas. The basic principles and techniques of oral communication as applied to everyday speech activities.

112-9 (4,5) Introduction to Mathematics. A study of logical rules of deduction: the real number system, and mathematical structures. Prerequisite: one year of high school algebra and satisfactory score on A.C.T. An alternative course for 114-9. Must be taken in a,b sequence.

114-9 (5,4) College Algebra, and Trigonometry. A logical study of the algebraic properties of number systems, polynomials, equations, functions, matrices, exponential and logarithmic functions, trigonometric function. (a) principally algebra. (c) principally trigonometry. An alternative course for 112-9. Must be taken in a,c sequence. Prerequisite: one and one-half years high school algebra and one year high school geometry, or equivalent.

114d-4 Statistics. Descriptive statistics, probability distributions, sampling, statistical inference, regression and correlation. An alternative course for 114c. Prerequisite: 114a.

123-9 (3,3,3) Elementary French. Open to students who have had no previous work in French. Must be taken in a,b,c sequence.

126-9 (3,3,3) Elementary German. Open to students who have had no previous work in German. Must be taken in a,b,c sequence.

140-9 (3,3,3) Elementary Spanish. Open to students who have had no previous work in Spanish. Must be taken in a,b,c sequence.

Health and Physical Development (GSE)

104-(1 per activity) Individual and Team Activity (Men). (c) Basketball, (f) Soccer, (g) Speedball, (j) Softball, (n) Cross Country, (t) Touch Football, (u) Wrestling, (x) Handball.

201-3 Healthful Living. Personal and community health. Presents scientific health information as a basis for developing wholesome health attitudes and practices.

Accounting

230-4 Accounting Principles. Study of the basic accounting principles, con-

cepts, conventions, and standards; their application to the analysis and recording of business transactions; and the reporting of the accumulated results. Measurement of income, and matching of expense with revenues through the use of the accrual basis in the accounting system. Prerequisite: sophomore standing.

331-4 Principles of Income Taxation. Study of the Federal Income Tax laws as they affect individuals, partnerships, corporations, estates, and trusts, in determination of the taxable income for computing the tax liability due. Prerequisite: 231.

341-4 Cost Accounting Principles. Comprehensive study of job order and process cost systems, related joint and by-product costing, and estimated cost procedures. Prerequisite: 231.

533-4 Managerial Accounting. Consideration of programs and techniques of internal control and reporting for management, cost concepts and applications, variable costing, cost-volume-profit relationships, budgeting concepts, and complex problems for managerial decision. Prerequisite: 530.

Art

050-3 Avocational Painting. An exploration of painting and drawing media for the interested non-major. Emphasis upon individual development of understanding and appreciation of painting media through direct experience in the practice of painting. May be repeated. Three hours credit applicable to degree except in art and design and teacher education.

051-3 Avocational Ceramics. An exploration of the ceramics arts for the interested non-major. Emphasis upon individual development of understanding and appreciation of pottery media through direct experience in the practice of the craft. May be repeated. Three hours credit applicable to degree except in art and design and teacher education.

300-12 (4,4,4) Art Education. Theory and practice of art activities in the elementary schools. Designed for elementary education students.

349-9 (3,3,3) Renaissance and Baroque Art. Architecture, sculpture, and painting from the waning of the middle ages to the beginnings of modern movements in the 18th century. (a) The Renaissance in northern Europe. (b) The Renaissance in Italy and the south. (c) Mannerism, Baroque, and Rococo art. May be taken independently. Recommended preparation, but not prerequisite: 225.

358-12 (4,4,4) Prints. Introduction to printmaking as a medium. Studio projects in intaglio, relief, and planographic processes. Prerequisite: 202-15.

Biology

504-9 (3,3,3) Instructional Innovation in Secondary School Biology. A laboratory-oriented workshop of group participation in varied approaches to experimentation and problem solving in the biological sciences.

590-3 (1,1,1) Graduate Biology Seminar. Lectures presented by faculty, visiting investigators, and students. Students present one seminar per quarter. Continuous attendance required.

591-1 to 4 Readings in Biology. Supervised readings in specialized areas. No credit toward a secondary concentration in biology. Prerequisite: consent of instructor.

593-1 to 4 Special Problems in Biology. Supervised investigation. Prerequisite: consent of instructor.

Business Administration

540-4 Concepts of Managerial Performance. Emphasizes the role of management in achieving efficient work organizations. Reviews the various approaches to management as a foundation of realistic understanding of the broad range of problems confronting managers. Case problems supplement text materials. Restricted to Master of Business Administration students.

543-4 The Administrator. A focus upon the changing issues faced by managers in their efforts to achieve better management of human resources. The point of view is that of the line manager rather than that of a personnel-staff specialist. The case method facilitates the search for sensitive understanding and operational guidelines; the goal is to develop leadership patterns conducive to a satisfying, as well as an efficient, organizational entity. Prerequisite: 540.

545-4 The Social Framework of Business. Critical examination of the role of business in modern society. Emphasis on the large corporation, the responsibility of its management, the relationship of the corporation to the individual, the professional role of the manager, and the efficient management of the firm's resources. Prerequisite: 541.

Business Education

324a-4 Advanced Shorthand and Transcription I. The development of high-level dictation and transcription skill and knowledge. Prerequisites: 221c or three semesters of other formal instruction in shorthand-transcription and the ability to transcribe on the typewriter new-matter dictation taken at a sustained rate of 80 words per minute.

324b-4 Advanced Shorthand and Transcription II. A continuation of 324a. Prerequisites: 324a or four semesters of other formal instruction in shorthand-transcription and the ability to transcribe on the typewriters new-matter dictation taken at a sustained rate of 90 words per minute.

327-4 Office Theories and Procedures. A study of office efficiency, techniques, filing procedures, financial and legal responsibilities, and other office activities. Opportunities to explore reference sources, to prepare for and participate in interviews, to make self evaluations, and to pursue areas of special interest. Operation of dictating and transcribing equipment. Prerequisite: 201c or equivalent.

414-6 (3,3) Organization and Administration of Cooperative Vocational Business Education Programs. Philosophy and objectives of cooperative vocational programs, methods of selecting students and work stations, placing and supervising students on part-time jobs, preparation of instructional materials, job analyses, conducting related information courses, evaluating workers and work stations, advisory committees, and public relations aspects of cooperative programs.

417-4 Application of Data Processing in Business Education. Acquaints business teachers with data processing applications in high school business classes. Emphasis on vocabulary development, unit record equipment, concepts of programming, and fundamentals of computer applications applicable to high school students. Approximately one-third of course is spent in machine operation. Prerequisite: Management Operating Systems 280.

426-4 Office Management. The principles of management as applied to office problems. Emphasis on the role of the office in business management; office organization; physical facilities and layout of the office; office services, procedures, standards, and controls.

503-4 Tests and Measurements in Business Education. The selection, construction, administration, and interpretation of tests and test scores in business education subjects. Principal emphasis on teacher-made tests, especially of the performance type, with secondary attention to published tests in the field.

590-2 to 5 Readings in Business Education. Supervised readings in selected subjects. Prerequisite: consent of instructor.

591-2 to 5 Individual Research in Business Education. Selection and investigation of a problem; use of relevant sources and techniques; collection, evaluation, and interpretation of data; and the writing of a report on the investigation. Prerequisite: consent of instructor.

Chemistry

341-9 (3,3,3) Organic Chemistry. Three lecture hours per week. Must be taken in a,b,c sequence. Prerequisite: 111c.

345-6 (2,2,2) Organic Chemistry Laboratory. Must be taken in a,b,c sequence. Prerequisite: 305a or concurrent enrollment in 341a.

375-0 to 3 Chemistry Seminar. One lecture per week. Prerequisite: senior standing.

433-3 Intermediate Quantitative Analysis. A study of the analysis of complex materials, with emphasis on separations, functional group analysis, and instrumental applications. Two lecture and three laboratory hours per week. Prerequisites: 432a or b, 461c.

490-2 Chemical Literature. A study description of the various sources of chemical information and the techniques for carrying out literature searches. Two lecture hours per week. Prerequisites: 235, 305b or 341c, reading knowledge of German or consent of instructor.

496-2 to 6 Chemical Problems. Investigation of relatively simple problems under the direction of a staff member. Prerequisites: senior standing, concentration in chemistry with 4.0 average, and consent of chairman.

562-3 Atomic and Molecular Structure. A survey of basic principles in atomic spectroscopy, quantum chemistry, and statistical thermodynamics. Lecture. Prerequisite: 561.

575-1 to 3 Graduate Seminar. Advanced level talks presented and discussed by graduate students. Required for all graduate students.

Counselor Education

305-4 Educational Psychology. Study of the learner and the learning process. Includes study of behavior, discipline, development, the school environment, application of learning theories, and methods of assessment. Prerequisite: GSB 201c.

420-4 Educational Statistics. The statistics needed by teachers for classroom use, the reading of educational literature, and informal educational research. Includes methods of organizing and presenting data, describing group performance, describing individual performance, model distributions, measure of relationship, measures of reliability, and tests of significance. Prerequisite: 305.

422-4 Educational Measurements I. Study of the philosophy and techniques of measurements. Special attention to the construction and use of teacher-made tests. Prerequisite: 305.

426-4 Individual Inventory. Principles and procedures for studying individual pupils and their problems for guidance purposes. Emphasis on interview, observation, ratings, case study, cumulative record, etc.

501-2 to 8 Special Research Problems. For majors in Counselor Education. Formulating, investigating, and reporting on a problem in the area of guidance. Prerequisites: advanced standing, consent of instructor.

510-4 College Student Personnel Services. An overview of the student personnel program in higher education for the beginning graduate student. Various types of organizational structures in higher education. Description and discussion of the functions of college student personnel programs, with emphasis on the organizational relationships of the various functions. Prerequisite: admission to program.

511-4 Educational Implications of Learning Theories. Survey of the major theories of learning. Emphasizes the implications of these theories for classroom practice. Prerequisite: advanced standing.

515-4 Psychological Aspects of Education. Designed to survey the applications of psychology to educational settings. Prerequisite: advanced standing.

522-4 Educational Measurements II. Study of standardized tests and other measuring devices to reveal individual and group characteristics. Emphasizes application and interpretation for counseling, education, and research purposes. Prerequisites: 420, 422.

525-4 School Behavior Problems and Their Prevention. A survey of the approaches to the study of personality-development and socialization of the school child. Methods used in the correction of behavior problems are considered. Prerequisite: consent of instructor.

526-4 Techniques in Individual Guidance. Each student employs psychometric procedures, makes observations, and holds interviews with a pupil, his parents, teachers, and others. Prerequisite: consent of instructor.

535-4 Introduction to Individual Measurement. Survey of theories and practices in the individual assessment of human behavioral characteristics, to develop understanding and appreciation of these concepts for use in the counseling relationship. Prerequisite: 522.

537-4 Counseling Theory and Practice I. Systematic study of the major approaches to counseling. Observation and practice utilized to supplement didactic discussion. Prerequisite: 542.

538-4 Counseling Theory and Practice II. Systematic study of major theories of counseling as applied to school situations. Supervised experience in role-playing or laboratory experience utilizing these approaches. Prerequisite: 537.

541-4 Occupational Information and Guidance. Designed for school counselors, industrial supervisors, and teachers to give an orientation to and experience with occupational information and vocational adjustment. Prerequisite: 542.

542-4 Basic Principles of Guidance. Introductory course on student personnel services. Survey of philosophy, principles, and organization of guidance services. Prerequisite: 305.

543-4 Guidance Through Groups. Study of the methods, techniques, and materials for the organization and utilization of groups for guidance purposes. Prerequisite: 442.

545-8 to 16 Seminar. (a) Problems in guidance. A seminar designed to analyze current problems in guidance. Prerequisite: advanced standing. (b) Learning and Communications. Students examine theory and research related to communication by reviewing literature, designing studies, and conducting research projects. Prerequisite: consent of instructor. (f) Pupil adjustment. Analyses various concepts of adjustment and instruction. Analyses research in classroom learning and implications for the classroom. Included are practice and review, transfer of training, retention and forgetting, and motivation. Prerequisite 511. (j) Organization and administration. Analysis of principles, procedures, and plans necessary for initiating, developing, and appraising a school guidance program. Prerequisite: 537.

562-8 (4,4) Human Development in Education. Theories and research evidence regarding child development and behavior are investigated. These considerations focus upon implications for research and educational practices. (a) Childhood. Prerequisite: advanced standing. (b) Adolescence. Must be taken in a,b sequence.

575c-1 to 12 Practicum in Secondary Guidance. Supervised experience in guidance functions. Includes counseling with secondary school pupils, conducting parent interviews, consulting with teachers, and the collection and dissemination of information. Prerequisite: consent of practicum coordinator.

Economics

201-4 Microeconomics. Principles and characteristics of the market economy. Theory of the business firm, supply, demand, and prices. Analysis of earnings of productive resources, including wages, rent, interest, and profit. Introduction to market structure and public policy. Prerequisite: sophomore standing.

300-4 The Monetary System and Economic Policy. Study of relationships between money, credit, prices, and economic activity. How the banking system creates money; the Federal Reserve System. Introduction to public finance and fiscal policy; the role of public finance in full employment policy. Introduction to international financial relationships. Prerequisite: 200.

441-4 Intermediate Macro Theory. Basic analytical concepts of the modern theory of aggregative income. Prerequisite: 200, 201 or consent of instructor.

450-6 (3,3) History of Economic Thought. The development of economic thought; (a) ancients to 1850; (b) 1850 to present. Must be taken in a,b sequence. Prerequisites: 200, 201.

465-4 Mathematical Economics I. A systematic survey of mathematical economic theory. Conditions of static equilibrium (including stability conditions), dynamic models using difference equations, and linear production models of input-output analysis and activity analysis (linear programming). Prerequisites: 440, consent of instructor.

505-4 Theory of the Firm. Price determination under competitive conditions and under other market structures. Includes demand analysis, business forecasting, returns to factors of production, and evaluation of capital outlays. Prerequisite: 504.

541-4 National Income Theory. Keynesian and post-Keynesian developments in national income theory. Empirical research concerned with characteristics and magnitudes of important national income concepts, such as the consump-

tion function. Recent American policies and problems bearing on national income fluctuations. Prerequisite: 441 or consent of instructor.

542-4 Price Theory. Designed to develop skills in the use of the analytical tools, including the basic mathematical techniques, used in price theory. Prerequisite: 440 or consent of instructor.

Educational Administration

355-4 Philosophy of Education. The philosophical principles of education and the educational theories and agencies involved in the work of the schools. Prerequisite: Counselor Education 305.

420-4 Legal Basis of American Education. Particular emphasis is placed on common law principles.

434-4 Administrator's Workshop. A special program for the consideration of administrative problems pertinent to superintendents, high school principals, and elementary school principals.

456-4 School Supervision. The function of the principal or supervisor in the improvement of instruction. Some activities, methods, and devices for improving the effectiveness of teaching.

480-4 Backgrounds of Urban Education. (Same as Elementary Education 480 and Secondary Education 480.) A study of social, economic, and demographic factors as they impinge upon programs in urban schools, particularly those in the inner city. Prerequisite: consent of instructor.

500-4 Research Methods. Introduction to educational research with practical training in research writing techniques and evaluation in education.

501-4 Seminar in Educational Administration. The interdisciplinary approach to the study of the theory of educational administration. Open to students in approved sixth year and doctoral programs only.

506-4 Seminar: Curriculum in Relation to American Culture. The effect of historical movements on curriculum in our nation at all ages and grade levels continued on a more intensive basis as applied to present-day curricular patterns. Prerequisite: 460 or consent of instructor.

511-12 (4,4,4) Internship Practicum. The study of theory and practice in school administration pursued simultaneously by the student in cooperation with a public school and the Department. Prerequisite: consent of the department advisory committee.

520-4 Illinois School Law. Study of the legal aspects of Illinois public education with principal emphasis on statutory law and its interpretation by the courts. Prerequisite: 420.

524-4 School Administration. Designed primarily for those who look forward to positions as supervisors, principals, or superintendents.

534a-4 School Finance. A study of the principles and issues of Public School Finance. Revenues, expenditures, indebtedness, and fiscal controls.

551-4 Community Junior College Curriculum. Expanding curricula of the community junior college. College parallel, occupational technical, general developmental, and adult and community service programs critically analyzed. Investigation of techniques of curriculum development that implement desirable program changes. Prerequisite: 565 or consent of instructor.

554-4 Contrasting Philosophies of Education. Deals both historically and contemporaneously with the ideologies which have developed from different concepts of education. Prerequisite: 355 or Philosophy 355 or equivalent.

560-4 Curriculum. Modern practices and procedures in curriculum development, with attention to the professional, social, economic, and other major factors, in curriculum planning.

563-4 Workshop in School Public Relations. Designed to meet the needs of teachers, supervisors, and administrators, in the area of public relations. Prerequisite: consent of instructor.

565-4 The Community Junior College. Survey of the community junior college movement. History, philosophy, objectives, and expansion of this unique American educational phenomenon. Special attention given to these factors in the developing social scene that significantly influence the character of community junior colleges.

575-2 to 4 Individual Research. Selection, investigation, and writing of a research assignment under the personal supervision of a graduate faculty mem-

ber in one of the following areas: (a) curriculum, (b) supervision, (c) buildings, (d) finance, (e) school law, (f) comparative education; (g) history of education, (h) philosophy of education, (j) administration, (k) elementary education. Prerequisites: 500, approval of adviser, consent of instructor.

580-4 Research Seminar in Urban Education. (Same as Elementary Education 580.) Investigations in problems of teaching strategies and learning in inner city classrooms. Inquiries include review of existing relevant research as well as the design and testing of new research methodologies. Prerequisites: last half of master's program or beyond, consent of instructor.

596-5 to 9 Independent Investigation. Field study required of each student working for the sixth-year specialists certificate.

597-1 to 3, 598-1 to 3, 599-1 to 3. Thesis. Minimum of 5 hours to be counted toward the master's degree.

Elementary Education

314-4 Elementary School Methods. The fundamental principles of education, the interpretation of current educational theory and practice, the processes of teaching and learning involved in elementary education. Prerequisites: Counselor Education 305, Educational Administration 355.

337-4 Reading in the Elementary Schools. The principles of reading, factors that condition reading, together with grade placement of aims and materials; diagnostic and remedial treatment. Prerequisites: 314, Counselor Education 305, Educational Administration 355.

413-4 Children's Literature. Emphasizes types of literature, analysis of literary qualities, and selection and presentation of literature for children. Not for students who have had English 213. Prerequisite: Counselor Education 305.

415-2 to 4 Improvement of Instruction in Arithmetic in the Elementary School. Items to be taught, the grade placement of content, newer instructional practices and materials of instruction, and means of evaluating achievement. Prerequisites: 314, GSD 112.

442-4 Science for the Elementary Teacher. Study of content and methods of elementary school science.

480-4 Backgrounds of Urban Education. (See also Educational Administration 480 and Secondary Education 480.)

505-4 Improvement of Reading Instruction. (See Secondary Education 505.) First course in the reading sequence. Survey of reading problems, aspects of the reading process, modern practices in teaching reading.

507-2 to 4 Readings in Reading. Independent reading; acquaintanceship with the literature and research in reading. Conference periods. Prerequisites: 505, consent of instructor.

509-4 to 8 Practicum in Reading. For advanced student. Teaching demonstrations and evaluations. Each student works with a group of reading disability cases. Prerequisites: 512a,b, and c, and consent of instructor.

518-2 to 4 Supervision of Student Teachers. The function of the supervisory teacher in the student teacher situation. Particular attention to the problem of student teaching in the public schools. Designed for present and prospective teachers who wish to be more effective in dealing with student teachers.

521-12 (4,4,4) Diagnosis and Correction of Reading Disabilities. Causes of reading difficulties; observation and interview procedures; standardized tests, instruments, and informal inventories; analysis techniques; experiences in preparing materials for corrective purposes. Each student diagnoses and treats a reading disability case under supervision. Prerequisites: 505, or concurrent registration with 505, and teaching experience.

542-4 Language Arts in the Elementary School. The practical bearing of investigation and theory on the improvement of current practices in the teaching of the language arts other than reading. Attention given to evaluation of teaching materials in these areas.

543-4 Teaching the Social Studies in the Elementary School. Organization of material for teaching purposes, techniques of classroom presentation, bibliographies or materials, use of audio and visual aids to instruction, and techniques for evaluating student progress. Readings, lectures, and discussions related to required teaching experience.

557-4 The Elementary Principalship. Designed to meet many of the particular needs of persons interested in qualifying for appointments as elementary school principals. Other than the administrative responsibilities of the elementary principal, such topics as the grouping of pupils, the elementary school's program, and personnel area studied.

561-4 The Elementary School Curriculum. A critical study of the reorganization, construction, and administration of the elementary school curriculum, and the installation, adaptation, and administration of the revised curriculum.

567-12 (4,4,4) Teaching Competencies and Their Application. Individualized and flexible group study of teaching behavior in competency centers. Skills are developed, applied, and tested in simulated or field settings.

575-2 to 4 Individual Research. The selection, investigation, and writing of a research topic, under the personal supervision of a member of the departmental graduate staff, in one of the following areas: (a) curriculum, (b) supervision, (c) language arts, (d) science, (e) reading, (f) social studies, (g) problems in elementary education, (h) arithmetic, (j) problems in kindergarten-primary, (k) elementary education administration and supervision.

580-4 Research Seminar in Urban Education. (See Educational Administration 580.)

596-5 to 9 Independent Investigation. Field study required of each student working for the sixth year specialist certificate. The work should be done in the setting of a school system where the student is employed or where full cooperation is extended. The study involves selecting of the problem, survey of pertinent literature, recording of results, and appropriate interpretations and summarizations.

597-1 to 3; 598-1 to 3; 599-1 to 3 Thesis. Minimum of 5 hours to be counted toward a master's degree.

Secondary Education

315-4 High School Methods. Study and discussion in various types of procedures used for effective classroom teaching. The problem approach and unit method are stressed. Prerequisites: Counselor Education 305, Educational Administration 355.

407-4 The Junior High School. The place of the junior high school in the organizational pattern, with major emphasis upon the areas of organization, administration, and curriculum.

480-4 Backgrounds of Urban Education. (See Educational Administration 480 and Elementary Education 480.)

488-4 Teaching Social Studies in Secondary Schools. Objectives, scope and sequence of curriculum, methods of teaching different courses and age groups, materials and evaluation. Prerequisite: 315.

505-4 Improvement of Reading Instruction. (See Elementary Education 505.)

507-2 to 4 Readings in Reading. Independent reading; acquaintanceship with the literature and research in reading. Conference periods. Prerequisites: 505, consent of instructor.

508-4 Seminar: Trends in Selected Areas in Secondary Schools. For students in advanced graduate work. Individual class members read basic bibliography related to secondary education and read widely about trends in the area of their own teaching fields. Prerequisites: completion of half or more of the work leading to a master's degree, consent of the instructor.

509-4 to 8 Practicum in Reading. For advanced students; teaching demonstrations and evaluations. Each student works with a group of reading disability cases. Prerequisites: 521a,b,c and consent of instructor.

521-12 (4,4,4) Diagnosis and Correction of Reading Disabilities. Causes of reading difficulties; observation and interview procedures; standardized tests, instruments, and informal inventories; analysis techniques; experiences in preparing materials for corrective purposes. Each student diagnoses and treats a reading disability case under supervision. Prerequisites: 440 or 505 or concurrent registration with 505, and teaching experience.

562-4 The High School Curriculum. Designed to permit students to work in groups on problems related to the high school curriculum. Such problems should originate in the schools where the students are or will be employed. The point of view maintained is that procedures should be very domestic. The

instructor serves as a coordinator of activity; resource people are used freely. Prerequisite: one other graduate course in curriculum.

564-4 High School Principalship. Problems met specifically by the high school principal. Emphasizes his role in relation to guidance, curriculum, schedule-making, extracurricular activities, public relations, budgeting of time, etc. Prerequisites: Educational Administration 424, consent of instructor.

567-12 (4,4,4) Teaching Competencies and Their Application. Individualized and flexible group study of teaching behavior in competency centers. Skills are developed, applied, and tested in simulated or field settings.

575-2 to 4 Individual Research. The selection, investigation, and writing of a research topic, under the personal supervision of a member of the departmental graduate staff, in one of the following areas: (a) Curriculum, (b) Supervision, (c) Language Arts, (d) Science, (e) Reading, (f) Social Studies, (g) Problems in Secondary Education, (h) Higher Education, (j) Junior College.

596-5 to 9 Independent Investigation. A field study required of each student working for the sixth-year professional certificate. The work should be done in the setting of a school system where the student is employed or where full cooperation is extended. The study involves selecting of the problem, survey of pertinent literature, recording of results, and appropriate interpretations and summarizations.

597-1 to 3, 598-1 to 3, 599-1 to 3 Thesis. Minimum of 5 hours to be counted toward a master's degree.

Engineering

101-9 (3,3,3) Engineering Graphics. (a) Basic principles of graphic communications. Pictorial projection, sections and conventions, dimensioning auxiliary views, freehand lettering, and sketching. (b) Graphical solution of problems involving the understanding of the space relationships of points, lines, and planes; intersections and developments. (c) Auxiliary views, threads and fasteners, dimensioning. Laboratory must be taken in a,b,c sequence.

200-9 (3,3,3) Circuit Analysis. Integrated study of circuits AC, DC, and non-sinusoidal; network theorems and introductory transient analysis. Must be taken in a,b,c sequence. Prerequisite: concurrent enrollment in 201.

201-3 (1,1,1) Circuit Analysis Laboratory. Laboratory experiments exemplify the material covered in 200. Prerequisite: concurrent enrollment in 200

363-6 (3,3) Surveying. (a) Use and care of surveying instruments. Fundamental principles of surveying, computations, land surveying. (b) Field astronomy, route surveying, introduction to photogrammetry, hydrographic surveying, and subsurface surveys. Prerequisite: GSD 114c.

472-3 Digital Computers in Research. Basic foundations used in operations research. An intensive study in the use of digital computers as related to topics such as probability and statistics, matrices, game theory, Monte Carlo techniques, distribution and scheduling problems, and simulation. Prerequisite: Mathematics 225.

590-2 to 4 Readings in Engineering Mathematics. Selected topics in applied mathematics. Emphasis upon setting up and solving differential, difference, and integral equations for problems of practical significance in engineering design and systems analysis.

English

300-4 Principles of English Grammar. Required for English students. Others should take 391. Credit not allowed for both courses.

302-12 (4,4,4) Survey of English Literature. (a) to 1550, (b) 1550-1750, (c) after 1750. May be taken in any sequence.

309-8 (4,4) Survey of American Literature. (a) to 1860, (b) since 1860. May be taken in either sequence.

391-3 Usage in Spoken and Written English. Usage and structure of English. Prerequisite to student teaching, except in English concentrations, which require 300.

392-3 Professional Writing I. Introductory course for undergraduates. Prerequisite to 492, but credit for the course does not constitute automatic admission to 492. Prerequisite: consent of instructor.

404-12 (4,4,4) Middle English Literature. (a) Middle English literature excluding Chaucer; (b) Chaucer: early poems and *Troilus*; (c) Chaucer: *Canterbury Tales*. May be taken separately.

458-8 (4,4) American Fiction. (a) The novel in America from its beginnings to the early 20th century. (b) trends and techniques in the American novel and short story since 1914. May be taken separately.

460-16 (4,4,4,4) English Drama. (a) Elizabethan drama: from the beginning of the drama in late Middle Ages through its flowering in such Elizabethan playwrights as Greene, Peele, Kyd, Marlowe, Heywood, Dekker, but excluding Shakespeare; (b) Jacobean drama: the Jacobean and Caroline playwrights: Jonson, Webster, Marston, Middleton, Beaumont and Fletcher, Massinger, Ford, Shirley; (c) Restoration and 18th century drama: after 1660, representative types of plays from Dryden to Sheridan; (d) modern British drama. May be taken separately.

485-4 Problems in the Teaching of English. Aims, methods, materials, tests, programs, and other aspects of English instruction in the high school.

499-2 to 6 Readings in English. For English majors only. Departmental approval required. No more than four hours may be taken in any one quarter.

500-4 Materials and Methods of Research in English. The principal tools of literary scholarship and the more important studies and journals. Practice in the preparation of selective bibliographies and scholarly reports.

501-4 Old English Grammar. The development of the forms, the grammar, and readings.

Finance

320-4 Corporation Finance. A study of the principal duties of corporate financial officers and the problems of administrative financial management of business. Topics include planning, budgeting and control, external sources of capital. Prerequisites: Accounting 230, 231; Economics 200, 201.

423-4 Commercial Banking Operations. The administration and operation of a commercial bank, including organization structure and asset management. Major problems are analyzed through the study of cases. Prerequisite: 420.

520-4 Finance. Basic aspects of business finance. Sources of capital, short- and long-term financial planning and policy-making, the impact of the banking systems and of money or capital markets on business finance. Restricted to Master of Business Administration students.

Foreign Languages

399-3 to 9 Readings. Readings in selected works of representative writers. Offered in French, Spanish, and German. May be taken for one, two, or three quarters. Primarily for students with no foreign language concentration, but may be taken for credit in foreign language concentration with consent.

French

123-3 (1,1,1) French Conversation. Conversation and oral drill taken with GSD 123 by students who wish additional oral training; elected only by students enrolled in GSD 123. May be taken separately.

545-3 Applied Linguistics and Remedial Phonetics. Fundamentals of linguistics with particular reference to their application to classroom procedures in the teaching of French, plus the analysis and correction of individual pronunciation difficulties. Prerequisite: bachelor's degree with emphasis in foreign languages.

German

126-3 (1.1.1) German Conversation. Conversation and oral drill taken with

GSD 126 by students who wish additional oral training; elected only by students enrolled in GSD 126. May be taken separately.

Spanish

140-3 (1,1,1) Spanish Conversation. Conversation and oral drill taken with GSD 140 by students who wish additional oral training; elected only by students enrolled in GSD 140. May be taken separately.

General Business Administration

140-4 Introduction to Business. An overview of the basic nature of business in an essentially market-disciplined economic system. Emphasis on the interdisciplinary nature of business and the broad administrative principles governing organized human endeavor. Introduction to business and economic terminology and to the case method of developing analytical ability.

342-4 Contracts—Agency Law. Study and discussion of the terminology, definitions, and principles of contract law applicable to the contractive problems in the operation of a business, including the relevant provisions of the uniform commercial code. The application of the principles of agency law by the entrepreneur in operating his firm, and his legal liability to his agency and third parties with whom he deals.

Geography

410-8 Quantitative Methods in Geography. Statistical and computer research techniques for geographers.

461-7 (4,3) Advanced Regional Geography: Anglo-America. Deals geographically with present-day U.S. and Canada. (a) A general survey of the area, open to students without a concentration. (b) Investigates specific topics in depth, for students with a concentration in geography.

501-4 Geographic Techniques II. Emphasizes the conceptual framework of geography library and bibliographic techniques, and geographic writing.

Government

410-8 (4,4) Quantitative Methods in Political Science (Same as Geography 410) Statistical and computer research techniques for political scientists.

499-4 Scope and Method of Political Science. Introduction to major schools of thought and basic research techniques in political science. Prerequisites: 200, 20 upper division hours in government.

521-1 to 12 Readings in Government. Supervised readings in selected subjects. Not more than 6 hours may apply toward the master's degree. Prerequisite: consent of instructor.

529-2 to 9 Seminar in Public Administration. Prerequisite: consent of instructor.

Health Education

355-4 Introduction to Public Health. Philosophy, organization, administration, and functions of federal, state, and local, official and voluntary public health agencies. Periodic field trips involved.

History

102-4 Survey of Asian Civilization. An introduction to the history of East Asia from the earliest times to the twentieth century. Emphasis on China and Japan.

332-9 (3,3,3) Medieval History. (a) Early Middle Ages, 500-1000. (b) High

Middle Ages, 1000–1300. (c) Late Middle Ages, 1300–1500. Prerequisite: sophomore standing.

401–4 History of the South. (a) The Old South. (b) The New South. An intensive study of the social, economic, political, and cultural developments of the South.

410–2 to 5 Special Readings in History. Supervised reading for students with sufficient background. Registration by special permission only. Offered on demand.

420–4 The French Revolution. A sketch of the passing of feudalism in France, the background and development of the revolutionary movement, and the Napoleonic period.

430–9 (3,3,3) Late Modern Europe. (a) Age of Revolution, 1815–1880. (b) 1880–1918. (c) Since 1918. Age of Dictatorships.

452–3 Historical Research and Thesis Writing. (For students with history concentrations.) The rules of historical research studied and applied to a definite topic.

500–3 to 9 History Seminar. (a) American history, (b) European history, (c) Latin American history.

510–2 to 5 Readings in History. Registration by special permission only.

575–9 (3,3,3) Studies in Latin American History. A content and research course concerning selected studies in Latin American history.

599–1 to 9 Thesis. Minimum of 5 hours to be counted toward a master's degree.

Humanities

301–3 to 4, 302–3 to 4, 303–3 to 4 Humanities Honors. Prerequisite: completion of the second-level General Studies courses and invitation of the Humanities Honors Program Committee. Accepted in lieu of third-level GSC requirement.

Instructional Materials

308–4 School Library Technical Processes. Organization of library materials for effective service. Acquisition, classification, cataloging, preparation, preservation, and circulation. Laboratory assignments.

403–4 School Library Functions and Management. Effective library services in relation to the educational objectives of elementary and secondary school programs: organization, supervision, finance, housing, equipment, standards, and evaluation.

406–4 Library Materials for Adolescents. A study of the aids, methods, and criteria for the selection and use of books and other instructional materials for students in the high school. Open to juniors with consent of instructor.

417–4 Audio-Visual Methods in Education. Selection and utilization of instructional materials in the learning environment, elementary through adult levels. Audio and visual materials and procedures are emphasized with some attention given to bibliographies and reference books for teachers.

440–2 Photography for Teachers. Techniques of picture-taking and the preparation of color slides of community resources for use in classroom instruction and for school public relations.

445–4 Preparation of Teacher-Made Audio-Visual Materials. Laboratory practice in the preparation of bulletin boards, opaque materials, models, slides, recordings, feltboards, and other graphic materials. Prerequisite: 417 or consent of instructor.

530–4 History of Books and Libraries. The evolution of the printed book and the rise and development of modern libraries.

548–4 Supervision and Administration of an Audio-Visual Program. Provides professional information and training for persons with administrative responsibilities at the district or unit level. Primarily designed for directors of Instructional Materials and Audio-Visual Centers. Prerequisite: 417 or consent of instructor.

549–4 Visual Learning. Learning from pictures in the classroom, the design of still and moving pictures, pictures used in testing perception, and the place of pictures in advertising and communication. Prerequisite: consent of instructor.

560-4 Seminar in Instructional Materials. Designed to give advanced graduate students an opportunity to investigate and discuss topics in instructional materials before the seminar group. Topics selected depend on background and interest of individuals. Prerequisite: consent of instructor.

Management Operating Systems

381-4 Management Operating Systems II. A study of the complexities involved in the simultaneous integration of several sub-systems. Teams of students design company or corporate-wide management operating systems. The computer is used. Prerequisites: Accounting 341, Marketing 452, Production 460, senior standing.

588-4 Seminar in Management Systems. Broadens and deepens understanding of the application of management science to business. Brings together computer-supported quantitative methods and considers ways of making these tools available for business decisions. Problems are taken from such areas as distribution, production, inventory, finance, budgeting, managerial accounting, and personnel. Prerequisites: 583, Quantitative Methods 513.

Marketing

371-4 Principles of Marketing Management. An introductory survey of the problems encountered by the marketing executive and the analytical and evaluative systems available which can be used to improve his operating efficiency. Emphasis is placed on the use of marketing management factors in the areas of markets, products, distribution, price, and promotion. Prerequisite: 370

471-4 Advertising Policy and Management. Advertising strategy, planning, and research and their relationship to other marketing tools. Emphasis on problems faced by marketing and business executives in administering the advertising effort. Prerequisite: 470.

Mathematics

101-4 Fundamental Mathematics. Basic notions of sets; number systems and their algebraic properties and some computational aspects; ordering of real numbers, inequalities, and absolute value; intuitive geometry; relations, variables, and functions. Individual instruction given as needed until completion of intermediate algebra. Ten lecture and laboratory hours per week. May not carry credit toward some degrees. Graded on pass-fail basis only.

150-8 (4,4) Elementary Calculus and Analytic Geometry. Elementary differential and integral calculus with analytic geometry and applications. Includes the definite integral and differentiation of transcendental functions. Must be taken in a,b sequence. Prerequisite: GSD 114c.

225-4 Programming for Digital Computers. An intensive course. Topics include computer organization and characteristics, machine language coding, flow charts, subroutines, symbolic coding, and compiler systems. Equipment of the University's Data Processing and Computing Center is used for applications. Prerequisite: GSD 114a.

305-8 (4,4) Applied Mathematics for Physical Sciences. (a) Ordinary differential equations, Laplace transforms, second order linear differential equations with singular points, special functions. (b) Fourier series and boundary value problems, solution of partial differential equations of the first and second order. Must be taken in a,b sequence. Prerequisite: 252b.

321-4 Elementary Matrix Algebra. Introduction to the algebra of matrices and theory of determinants: inverse of a matrix, rank and equivalence, linear equations, and linear dependence. Prerequisite: 150b.

351-4 Multivariable Calculus. Vector algebra, functions of several variables, the differential and integral calculus. Topics include directional derivatives, maxima and minima, gradient, divergence and curl, line and surface integrals, Green's Theorem, Stoke's Theorem, and integrals independent of path. Prerequisites: 252b, Physics 211a.

395-2 to 12 Readings in Mathematics. Supervised reading in selected subjects. Prerequisites: 12 hours of 300- or 400-level mathematics, 4.0 average in mathematics and consent of chairman.

410-16 (4,4,4,4) Statistical Analysis. For students in fields using statistical methods but not required to take calculus. Includes (a) elements of probability, estimation, and testing hypotheses; (b) the general linear model (multiple linear regression, analysis of variance, analysis of covariance) and non-parametric statistics; (c) design of experiments; (d) sample survey techniques. May not be used to satisfy requirements for a mathematics concentration. Three lectures and two laboratory hours per week. Must be taken in either a,b,c,d or a,b,d,c sequence. Prerequisite: GSD 114a.

433-3 Theory of Point Sets. General properties of sets; topology of plane sets; closed sets and open sets in metric spaces, homeomorphisms and continuous mappings, connectedness. Prerequisite: 252b and 6 hours in courses numbered 300 or higher, or consent of instructor.

446-2 to 10 Structure of Mathematics. Designed to assist experienced teachers in extending their understanding of mathematics. (a) Elementary School Mathematics, (b) Junior High School Mathematics. Does not count credit toward a mathematics concentration. Prerequisites: experience in teaching, consent of instructor.

455-9 (3,3,3) Advanced Mathematics for the Physical Sciences. Introduction to various topics such as complex variable theory with applications, operational calculus (Laplace and other transforms), vector field theory, and partial differential equations. May be taken separately or in any sequence. Prerequisite for a: 252b; for b,c: 305a.

458-6 (3,3) Finite Mathematics. An introduction to topics in finite mathematics such as logic, sets, probability, linear algebra, and Markov chains. Designed for students preparing for high school teaching and for advanced students in the behavioral sciences. Prerequisite: 252a or consent of instructor.

472-9 (3,3,3) Computer Science. An introduction to computing systems and the mathematics of computation. (a) Computer organization, design, and programming systems. (b) Linear system problems, linear programming and network problems. (c) Digital simulation problems, linear and other probabilistic problems. Prerequisites: 225, 305a, 321.

475-9 (3,3,3) Numerical Analysis. Introduction to approximation methods including finite differences and interpolation; numerical differentiation and quadrature; least squares approximation; numerical solution of linear and nonlinear systems; numerical integration of systems of ordinary and partial differential equations. Emphasis upon error analysis throughout. Must be taken in a,b,c sequence. Prerequisites: 305a or 252b, consent of instructor.

501-9 (3,3,3) Real Variables. A basic course in mathematical analysis. (a,b) The real number system; fundamental theorems in limits and continuity; open, closed, compact, and connected sets in Euclidean and metric spaces; the Riemann and the Riemann-Stieltjes integrals and functions of bounded variation; infinite series; uniform continuity; uniform convergence of series and improper integrals; arcs and curves; implicit function theorem; multiple integrals. (c) The general theory of measure and integration from an abstract point of view. Additive classes of sets, Borel sets, measurability, measure and outer measure; integrable functions, convergence theorems; absolute continuity and the Radon-Nikodym theorem; Fubini's theorem. Must be taken in a,b,c sequence. Prerequisite: 452c.

520-9 (3,3,3) Modern Algebra. Displays some of the richness of algebra when mathematical systems other than the traditional one based upon the real numbers are considered. Abstract theory of groups, rings, and fields, with particular attention to examples from permutation groups, matrices, vector spaces, and polynomial and other function spaces; rational numbers and fields, complex numbers, unique factorization, algebraic number fields. Must be taken in a,b,c sequence. Prerequisite: 420.

550-1 to 10 Seminar. Supervised study and preparation of reports on assigned topics. Reports presented for class discussion. (a) Algebra. (b) Geometry. (c) Analysis. (d) Probability and Statistics. (e) Mathematics Education. Prerequisite: consent of instructor.

555-9 (3,3,3) Complex Variables. Classical and modern analytic function theory, including Cauchy-Riemann equations, Cauchy-Goursat theorem, conformal mapping, normal families, Reimann mapping theorem, calculus of

residues, analytic continuation, Riemann surfaces, entire functions. Must be taken in a,b,c sequence. Prerequisite: 452c.

580-9 (3,3,3) Mathematical Methods of Statistics. A presentation of probability and statistical inference based on an axiomatic approach and employing advanced mathematical concepts. Topics include the theory of measure and integration in \mathbb{R} , foundations of probability, random variables and distributions in \mathbb{R} , sampling distributions, tests of hypotheses, theory of estimation. Must be taken in a,b,c sequence. Prerequisite: 452, 455.

595-1 to 10 Special Project. An individual project, including a written report. (a) Algebra; (b) Geometry; (c) Analysis; (d) Probability and Statistics; (e) Mathematics Education.

599-1 to 9 Thesis. Minimum of 5 hours to be counted toward the Master of Arts degree.

Music

002-7 (1,1,1,1,1,1) Choral Ensembles. (a) Collegiate Singers, (b) University Chorus, (c) Male Chorus, (d) Women's Glee Club, (e) Southern Illinois University Community Choral Society, (f) Madrigal Singers, (g) Concert Chorale. May be taken in any sequence. Any part may be repeated for twelve quarters. Prerequisite: auditions for a,f,g.

205-9 (3,3,3) Theory of Music. Advanced harmonic techniques, modulation, altered chords, chromatic harmony, counterpoint, and introduction to contemporary harmonic principles. Must be taken in sequence. Prerequisite: 105c.

307-4 Recreational Music. For those interested in the less formal approach to music and for prospective leaders for recreational activities.

442-6 (3,3) Contrapuntal Forms. (a) Analysis and creative writing in the style of Palestrina and his contemporaries and the contrapuntal-harmonic technique of Bach. (b) Analysis and creative writing of the larger imitative forms. Must be taken in a,b sequence. Prerequisite: 205c.

499-1 to 3 Independent Study. The capable student engages in original investigations with faculty specialists. May be repeated for credit. Prerequisite: consent of instructor.

501-3 Introduction to Graduate Study in Music. Basic bibliographical and historical research techniques in music theory literature, and education.

519-9 (3,3,3) Vocal Pedagogy and Literature. (a) A study of vocal pedagogy with emphasis on the techniques and materials to be used with beginning voice students. (b) Advanced vocal pedagogy with related study of the history of singing and of the teaching of singing. (c) A survey of literature for solo voice and its relation to vocal pedagogy.

560-2 to 6 Seminar in Music Education. Trends, current practices, philosophies of music education.

566-1 Instrumental Ensemble. Participation in a chamber or large ensemble for purposes of studying and performing literature in the field of the major instrument other than solo literature.

567-1 Vocal Ensemble. Participation in a chamber or large ensemble for purposes of studying and performing literature in the field of the vocal music other than solo literature. Includes madrigal groups, choral ensembles, women's chorus, etc.

599-3 to 9 Thesis.

Personnel and Industrial Relations

451-4 Labor Relations Law and Collective Bargaining. An analysis of labor relations legislation and the complex interrelations of management, employees, and labor unions, as well as of collective bargaining contracts, their scope, enforceability, and significance to labor relations. Cases and reports are incorporated. Prerequisite: General Business Administration 340.

Philosophy

301-4 Philosophy of Religion. An analysis of problems in the psychology,

metaphysics, and social effects of religion. The nature of mystical experience, the existence of God, and problems of suffering, prayer, and immortality.

490-2 to 12 Special Problems. Seminar for qualified seniors and graduate students to pursue specific topics in depth. Varied content. Prerequisite: consent of instructor.

495-2 to 12 Independent Readings. Independent study in philosophy on a tutorial basis. Prerequisite: consent of instructor and chairman.

Physical Education

350-4 Methods and Materials for Teaching Physical Education Activities in the Elementary School. The organization and conduct of the program, program planning, evaluation of materials, observation and practice in creative rhythms, singing games, folk dancing, and games of low organization. (Required for elementary education.)

389-4 Affiliation in Physical Education. Observing and assisting instructor in planning, scheduling, and conducting a physical education program. Students acquire this experience by working in area schools. Prerequisite: consent of instructor.

475-2 to 4 Individual Research. The selection, investigation, and writing of a research paper under the supervision of instructor.

501-4 Curriculum in Physical Education. Principles and procedures for curriculum construction and revision; criteria for selecting activities and judging outcomes and the place of the physical education course of study within the total curriculum.

502-4 Foundations of Motor Skills. Application of physiological, kinesiological, and mechanical principles to intelligent control of large-muscle activities. Recommended background: a course in kinesiology.

Physics

211-12 (4,4,4) University Physics. A basic course for science, mathematics, and pre-engineering students. (a) Kinematics, dynamics, and statics. (b) Thermodynamics, wave motion, acoustics, optics. (c) Electrostatics, electric current theory, magnetism, and electromagnetic waves. Three lecture and two recitation hours per week. Must be taken in a,b,c or a,c,b sequence. Prerequisite: (a) Mathematics 150a or concurrent enrollment; (b,c) 211a, Mathematics 150b or concurrent enrollment.

212-3 (1,1,1) University Physics Laboratory. Experiments in mechanics, heat, sound, light, electricity, and magnetism. Meets three hours per week. Prerequisite: concurrent enrollment in 211.

304-4 Thermodynamics and Kinetic Theory. A macroscopic study of the thermal properties of matter and the laws of the thermodynamics. Kinetic theory and the distribution of molecular velocities. Transport phenomena. Prerequisite: 211b.

420-2 to 5 Special Projects. Each student is assigned to a definite investigative topic. Adapted to advanced undergraduate students. Prerequisite: 8 hours of physics courses above 300.

510-9 (3,3,3) Classical Mechanics. Variational principles and Lagrange's equations; rigid body motion; special relativity; canonical equations, small oscillations including non-linear problems; perturbation methods; classical theory of fields. Prerequisite: 301.

531-9 (3,3,3) Quantum Mechanics. Wave mechanics, matrix mechanics, transformation theory of quantum mechanics; angular momentum, perturbation theory, scattering theory. Prerequisites: 415, Mathematics 407 or consent of instructor.

590-1 to 9 Research in Physics (Thesis). 1-5 hours each quarter. Prerequisite: consent of faculty.

Production

461-4 Methods Design and Work Measurement. Design of work systems,

methods, and techniques employed in the measurement of work. Emphasizes current philosophy underlying improvement of work methods and procedures used to measure work performed. Covers four major areas: methods design, standardizing the operation, work measurement, and training the operator. A number of projects correlating with the course material are assigned. Prerequisite: 460.

Psychology

301-4 Child Psychology. A study of the biological and psychological development of the child from birth through puberty, and of relevant research methods and results. Prerequisite: GSB 201c.

303-4 Adolescent Psychology. Examines the physical and psychological development of the adolescent, and the relevance of childhood development to adolescent problems. Prerequisite: GSB 201c.

305-4 Introduction to Personality Dynamics. Exploration of human motivations, personality patterns, and ways of coping with the stresses of modern life. Prerequisite: GSB 201c.

307-4 Social Psychology. Introduction to the study of the individual's interaction with his social environment. Considers problems of social learning, attitude formation, communication, social influence processes, and group behavior. Prerequisite: GSB 201c.

420-4 Experimental Analysis of Behavior. An examination of the principles of respondent and operant conditioning in human and animal behavior. Lecture and laboratory. Prerequisite: GSB 201c.

431-4 Psychopathology. Classification, description, etiology and treatment of the disorders of personality organization and behavioral integration. Observations in a state mental hospital setting. Prerequisite: 305 or consent of instructor.

432-4 Mental Hygiene. An integration of psychological knowledge and principles concerning factors and conditions affecting the individual which tend to facilitate or determine health.

440-4 Theories of Personality. A review and critical evaluation of major personality theories and their supporting evidence. Prerequisite: 305 or consent of instructor.

465-4 Group Dynamics and Individual Behavior. Examination of research and theory in the area of small-group interaction. Examines such topics as group structure and function, group problem-solving, leadership, etc. Prerequisite: 320 or consent of instructor.

474-4 Psychology of Employee Relations. A study of job satisfaction and morale, psychological aspects of labor relations, industrial counseling, social and organizational variables as they affect psychological climate in employee relations. Prerequisite: 320 or consent of instructor.

490-1 to 8 Independent Projects. Independent readings and projects in psychology. Prerequisite: consent of instructor and chairman.

501-12 (4,4,4) Proseminar in General Psychology. Basic conceptual and methodological problems in the study of behavior. (a) History and systems of psychology, philosophy of science, scientific methodology, behavior theory. (b) Personality and individual differences, new conceptual and methodological developments and trends. Must be taken in a,b,c sequence. Prerequisite: consent of instructor. Open to students in other areas by consent of chairman.

520-4 Research Design and Inference I. Study of elements of probability, design, and analysis of simple experiments including t and F tests; selected non-parametric tests and multiple regression analysis. Prerequisite: 211b or Counselor Education 420.

530-4 Personality Theory and Dynamics. Intensive treatment and critical analysis of several representative approaches to personality. Consideration also of important personality concepts common to most theoretical approaches. Prerequisite: consent of instructor.

541-6 to 8 (4, 2 to 4) Psychodiagnostics I. Introduction to clinical psychology with attention to the function and clinical use of individual intelligence tests. Theories of intelligence and related research. Age scales with emphasis on infant and child testing. Point scales and tests of deterioration with emphasis

on child and adult testing. Lecture and practicum. Prerequisites: 520, consent of instructor.

590-1 to 16 Readings in Psychology. Readings in selected topics in psychology under staff supervision. Prerequisite: consent of chairman.

591-1 to 36 Research in Psychology. Research under staff supervision in selected areas of psychology. Prerequisite: consent of chairman.

593-1 to 18 Practicum in Psychology. Practicum experience in a professional setting is offered under staff supervision in the following areas: (e) Clinical Psychology, (f) Counseling Psychology, (h) Industrial Psychology, (j) Child Psychology, (k) Community Health Psychology, (l) Teaching of Psychology, (s) School Psychology.

Quantitative Methods

210-4 Probability in Decision Making. Introduction to certain modern mathematical concepts and methods applicable to business decisions including probability, probability distributions, and elements of calculus. Prerequisite: GSD 114d.

510-4 Statistical Analysis for Decision-Making. Statistical techniques applicable to business including distributions of one variable, index numbers, time series, multivariate distributions. Introduction to probability, sampling, estimation with confidence intervals, tests of hypotheses, regression, and correlation. Restricted to Master of Business Administration students.

Science and Technology

415-1 to 3 Instructional Innovation for the Physical Sciences. A variety of subject matter with regard to its order of presentation in a course, the type of plausibility arguments most successful in a "derivation," the types of demonstrations most appropriate to the subject matter, and the relation of laboratory work to the lecture content.

Sociology

302-4 Contemporary Social Problems. Discussion and analysis of selected contemporary social problems with consideration of alternative courses of action. Prerequisite: 301.

396-1 to 5 Readings in Sociology. Supervised reading in selected subjects. Prerequisite: consent of chairman.

405-4 Current Sociology. A survey of important trends in contemporary social thought. Reading, reporting, and evaluating content of leading sociological journals. Prerequisite: consent of instructor.

451-4 Social Thought II: The Sociological Movement. From romanticism to realism; rise and development of scientific social thought. Prerequisite: consent of instructor.

501-4 Survey of Sociological Theory. The development of sociology as a science of society, from synthetic philosophy to analytic sociology. Prerequisite: 451 or consent of instructor.

Social Welfare

383-4 Introduction to Interviewing. Theory and practice of interviewing as a means of gaining information, and of understanding and imparting the same. Focus is on the interview as a tool in social work, but principles are generally applicable. Prerequisite: GSB 103a or 201c.

Special Education

410a-4 Problems and Characteristics of the Emotionally Disturbed Child.

Diagnosis, screening, classroom management, placement considerations, goals, and the effective use of ancillary services. Emphasis on the understanding of maladaptive behavior through principles of learning and behavior dynamics. Observations.

410b-4 Problems and Characteristics of the Mentally Retarded. Objectives, curriculum, methods, and materials of instruction for slow learners. Emphasis upon the principles of learning as they can be applied to this group. Observations. Prerequisite: Counselor Education 305 or Psychology 301 or 303.

410c-4 Problems and Characteristics of the Gifted Child. Designed to help teachers in the identification of, and programming for, gifted and talented children. Prerequisite: Counselor Education 305 or Psychology 301 or 303.

414-4 The Exceptional Child. Physical, mental, emotional, and social traits of all types of exceptional children. Effects of handicaps in learning situations. Methods of differentiation and techniques for rehabilitation. Individual case studies used; observations and field trips. Prerequisites: Counselor Education 305, Psychology 301 or 303.

420b-4 Methods and Materials in the Education of the Educable Mentally Handicapped. Offered in conjunction with practice teaching. Methods and materials needed in teaching educable mentally handicapped children.

428-4 Speech Correction for the Classroom Teacher. (Same as Speech Pathology and Audiology 428.) Etiology and therapy of common speech defects. Open to in-service teachers, seniors and graduate students in education.

496-1 to 8 Readings and Independent Study in Special Education. Study of a highly specific problem area in the education of exceptional children. Open only to selected seniors and graduate students. Prerequisites: 414, consent of staff.

501-4 Special Research Problem. For majors and minors in the field of special education. Choosing and conducting research activities. The student to select a topic for research and present it, upon completion, to the staff. Prerequisite: consent of staff.

577-4 to 12 Practicum in Special Education. Supervised experience in school or institution programs for atypical children. Special research project. Open to graduate students only. Prerequisites: 410a or b or consent of staff.

590-12 (4,4,4) Seminar: Mental Retardation. Critical review of administrative practices, research, theories and etiological factors relevant to programs in the education of children who are mentally retarded or gifted. Implications of research in related disciplines. Application of theories to practice. Open to advanced graduate students in special education only. Prerequisite: consent of instructor.

Speech Pathology and Audiology

428-4 Speech Correction for the Classroom Teacher. (Same as Special Education 428.) Etiology and therapy of common speech defects. Open to in-service teachers, seniors, and graduate students in education.

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