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1968 Southern Illinois University Bulletin Edwardsville Campus (Schedule for Late Afternoon, Evening, and Saturday Classes; Fall)

Southern Illinois University Carbondale

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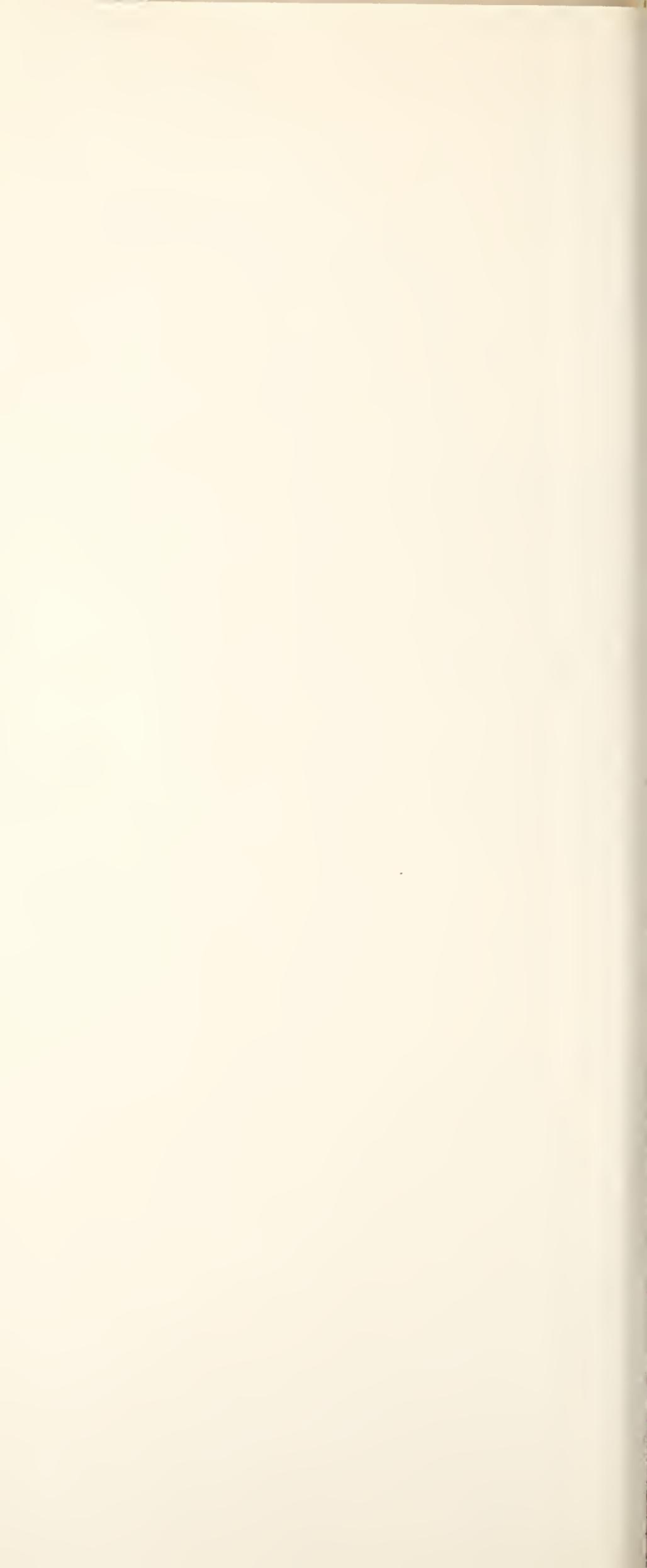
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Southern Illinois
University
Bulletin

*Schedule for Late Afternoon,
Evening, and Saturday Classes,
Edwardsville Campus,
Fall, 1968*





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University Calendar, 1968-1969

Fall Quarter, 1968

New Student Week	Saturday–Monday, September 21–23
Quarter Begins	Tuesday, September 24 (Classes 4:30 P.M. or later)
Thanksgiving Vacation	Tuesday 10 P.M.– Tuesday, 8 A.M., November 26–December 3
Final Examinations	Wednesday–Tuesday, December 11–17

Winter Quarter, 1969

Quarter Begins	Thursday, January 2 (Classes 4:30 P.M. or later)
Final Examinations	Thursday–Wednesday, March 13–19

Spring Quarter, 1969

Quarter Begins	Wednesday, March 26 (Classes 4:30 P.M. or later)
Memorial Day Holiday	Friday, May 30
Final Examinations	Wednesday–Tuesday, June 4–10
Commencement (Edwardsville)	Tuesday, June 10
Commencement (Carbondale)	Wednesday, June 11

Registration Calendars

Fall Quarter, 1968

EDWARDSVILLE CAMPUS

Registration will be held in the Enrollment Office, 1302 Peck Classroom Building.

- June 27–Sept. 24 General Studies Advisement, by appointment (call General Studies Office).
- Aug. 12–21; 24; 26–28; Sept 7 Registration, by appointment. Mon.–Fri. 8:00 A.M.–12:00 noon, 1:00–4:00 P.M.; Sat. 8:00 A.M.–12:00 noon. Additional hours Sept. 26–28, 4:00–6:30 P.M.
- Sept. 9–14 Open registration. Mon.–Fri. 8:00–11:00 A.M., 1:00–4:00 P.M.; Sat. 8:00 A.M.–12:00 noon.
- Sept. 16–18 Open registration. 8:00–11:00 A.M.
- Sept. 24 Central registration. 8:00 A.M.–6:30 P.M.

ALTON CENTER

Registration will be held in the Student Union.

- Aug. 22–23 Open registration. 8:00 A.M.–12:00 noon, 1:00–6:30 P.M.
- Sept. 19 Central registration. 8:00 A.M.–6:30 P.M.

EAST ST. LOUIS CENTER

Registration will be held in ESL 103.

- Sept. 5–6 Open registration. 8:00 A.M.–12:00 noon, 1:00–6:30 P.M.
- Sept. 23 Central registration. 8:00 A.M.–6:30 P.M.

ALL LOCATIONS

- Sept. 24 Evening classes (4:30 P.M. or later) begin.
- Sept. 25 Day classes begin.
- Oct. 1 Last day to add a class.
- Oct. 7 Last day to be eligible for a refund of fees.
- Oct. 15 Last day to withdraw from a class without receiving a grade.
- Dec. 2 Last day to withdraw from school or a class.

General Information

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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 1968-69 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, 3420 Peck Classroom 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.

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 change be approved permitting registration in that class.

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 procedures 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.

F E E S F O R A R E G U L A R Q U A R T E R

The fee schedule is as follows:

	<i>Not more than 5 hrs.</i>	<i>More than 5, less than 11</i>	<i>11 or more</i>
Tuition Fee—Illinois			
Resident	\$14.00	\$28.00	\$42.00
Tuition Fee—Out of			
State	(30.00)	(115.00)	(172.00)
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 Fee	3.00	6.50	10.00
Total—Illinois Resident	\$33.50	\$62.50	\$90.50
Total—Out of State			
Resident	(49.50)	(149.50)	(220.50)

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.

L A T E R E G I S T R A T I O N F E E

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 an appropriate late registration fee. This fee is \$2.00 the first day and an additional \$1.00 per day to a maximum of \$5.00.

A C A D E M I C L O A D

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 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 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.

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.

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.

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 Enrollment Office.
2. NAME CHANGES. Should be made at the Enrollment Office. Verification is required.
3. MARITAL STATUS CHANGES. Should be made at the Enrollment 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

Blue Cross and Blue Shield In-hospital Insurance is offered to all students. Students enrolling in the fall quarter who desire the insurance will join the plan for the four-quarter school year through summer, 1969. Cost of the insurance is \$22.50 for single and \$58.80 for family plan. Coverage will continue throughout the summer quarter period whether or not the student is enrolled in school. This insurance is available at the time of registration.

Schedule of Classes

2

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

Bold-Face Line: The course's identification number is followed by the number of quarter hours of credit and the descriptive title. Following the title, a dotted line separates the title from the prerequisite, if any, which appears at the right-hand end of the line and may continue to the second line.

Light-Face 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 7:00 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 "Arranged" should consult the instructor indicated, or the head of the division 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
HUM	—Humanities Building—Alton
LB	—Lovejoy Memorial Library— Edwardsville
PB	—John Mason Peck General Classroom Building—Edwardsville
SCI	—Science Building—Alton
SL	—Science Laboratory Building— Edwardsville
397	—Cartography Laboratory—East St. Louis
UC	—University Center—Edwardsville
Wagner	—Wagner Building—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 spring, 1968, address

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

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite	Instructor
Edw. Alton E. St. Louis	Time				

MAN'S PHYSICAL ENVIRONMENT AND BIOLOGICAL INHERITANCE (GSA)

110a-4	The Earth and Its Environment				
E006	6:00-8:20	M W	PB 0306		
201a-4	Man's Biological Inheritance				H.s. chem.
	Student enrolls in one lecture and one lab.				
Lect E1	6:30-8:15	Tu	PB 0312		
	6:30	Th	PB 0312		
E005	4:30-6:20	M	SL 2211		
E006	6:30-8:20	M	SL 2211		
E017	8:25-10:15	Tu	SL 2211		
E026	6:30-8:20	W	SL 2211		
E035	4:30-6:20	Th	SL 2211		
E036	7:30-9:20	Th	SL 2211		
312-3	Conservation of Natural Resources				
E005	8:30-9:45	Tu Th	PB 0306		Bridwell
331-3	Climate				
E003	6:30-8:20	Tu Th	PB 0306		Bridwell

MAN'S SOCIAL INHERITANCE AND SOCIAL RESPONSIBILITIES (GSB)

101b-4	Survey of Western Tradition				
★E204	6:30-8:20	M W	ANA 108		Wurtz
★E404	6:30-8:20	M W	ESL 112		Martin
103a-4	Sociology-Economics				
E007	6:30-8:20	M W	PB 0314		Teer
E008	8:30-10:20	Tu Th	PB 1414		
★E202	8:30-10:20	Tu Th	ANA 108		Farley
103b-4	Sociology-Economics				
E005	6:30-8:20	M W	PB 3305		
★E201	6:30-8:20	Tu Th	ANA 108		
★E401	6:30-8:20	M W	ESL 104		Carbaugh
201a-4	The Individual and His Cultural Environment				
E003	6:30-8:20	M W	SL 1105		
★E402	8:30-10:20	Tu Th	ESL 104		Hayes
201c-4	The Individual and His Cultural Environment				
★E401	6:30-8:20	Tu Th	ESL 212		Skinner
203a-4	American Politics in the World Environment				
★E202	8:30-10:20	Tu Th	SCI 002		Glaser
300a-3	History of the United States: 1492 to 1815				
E003	8:30-9:45	Tu Th	PB 1307		Barnhart
300b-3	History of the United States: 1815 to 1900				
E003	8:30-9:45	Tu Th	PB 1306		
331-3	The American Educational Systems				
E005	5:30-8:20	W	SL 3114		Goodwin
★E401	5:30-8:20	Th	ESL 224		Zuckerman

MAN'S INSIGHTS AND APPRECIATIONS (GSC)

151-3	Introduction to Poetry				GSD 101b
E010	8:30-9:45	M W	PB 3422		
156-5	Introduction to Music History-Literature				
★E201	6:00-8:20	Tu Th	SCI 102		
157-5	The Dramatic Media: Theater, Cinema, and Television				
★E401	6:00-8:20	M W	ESL 106		Kluth
252-4	Logic				Soph. stand. or complet. 1st-level GSC 151
★E201	6:30-8:20	M W	SCI 103		Emblom
253-4	Literary Masterpieces of Antiquity				151
E010	6:30-8:20	Tu Th	PB 1307		
★E201	8:30-10:20	M W	SCI 002		
254-4	Philosophical Masterpieces				151
E010	6:30-8:20	M W	PB 0309		Seligman
335-3	Studies in Short Fiction				Compleat. 2nd-level GSC
E003	8:30-9:45	Tu Th	PB 2409		

ORGANIZATION AND COMMUNICATION OF IDEAS (GSD)

101a-3	English Composition				
E040	4:30-5:45	M W	PB 2406		
E041	6:30-7:45	Tu Th	PB 3422		
E042	8:30-9:45	M W	PB 2406		

12 GENERAL STUDIES AREA D (GSD)

Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
★E204		6:30-7:45	M W	ANA 101	
★E205		6:30-7:45	Tu Th	ANA 101	
★E206		8:30-9:45	M W	ANA 101	
★E207		8:30-9:45	Tu Th	ANA 101	
★E404		6:30-7:45	M W	ESL 103	
★E405		6:30-7:45	Tu Th	ESL 103	
★E406		8:30-9:45	M W	ESL 103	
★E407		8:30-9:45	Tu Th	ESL 103	
101b-3 English Composition					101a
E010		6:30-7:45	Tu Th	PB 2410	
★E201		6:30-7:45	Tu Th	SCI 003	
★E401		6:30-7:45	M W	ESL 105	
103-3 Oral Communication of Ideas					
E018		6:30-7:45	M W	PB 2406	Salden
E019		8:30-9:45	M W	CB 0194	Salden
★E403		8:30-9:45	Tu Th	ESL 106	Archer
106-0 Intermediate Algebra					
★E202		6:30-8:20	M W	SCI 002	
★E402		6:30-8:20	Tu Th	ESL 105	
112a-4 Introduction to Mathematics					1 yr. h.s. algebra or satis. ACT
★E201		6:30-8:20	Tu Th	SCI 002	Gwillim
114a-5 College Algebra					1½ yrs. algebra, 1 yr. plane geom.
E202		6:00-8:20	M W	SCI 003	
★E402		6:00-8:20	Tu Th	ESL 106	
114c-4 Trigonometry					114a
E002		6:30-8:20	M W	SL 2224	
114d-4 Statistics					114a
E004		6:30-8:20	Tu Th	PB 0314	Rogier
123a-3 Elementary French					
E201		6:30-7:45	Tu Th	ANA 110	
126a-3 Elementary German					
★E401		6:30-7:45	Tu Th	ESL 112	
136a-3 Elementary Russian					
E001		4:30-5:45	Tu Th	PB 2410	
140a-3 Elementary Spanish					
★E201		6:30-7:45	M W	ANA 110	

ACCOUNTING (ACCT)

230-4 Accounting Principles					Soph. stand.
E003		6:30-8:20	M W	PB 2304	Nissing
E004		6:30-8:20	Tu Th	PB 2304	Mains
★E201		6:30-8:20	M W	ANA 100	
231-4 Financial Accounting Analysis					230
E003		8:30-10:20	M W	PB 2304	Milles
E004		8:30-10:20	Tu Th	PB 2304	Donnalley
★E201		8:30-10:20	M W	ANA 100	
330-4 Managerial Cost and Budgeting					231
E003		6:30-8:20	M W	PB 3315	
E004		6:30-8:20	Tu Th	PB 3315	Nourallah
331-4 Principles of Income Taxation					231
E001		6:30-8:20	M W	PB 2403	Milles
351b-4 Accounting Theory and Problems II					351a
E001		6:30-8:20	Tu Th	PB 2403	Donnalley
442-4 Advanced Cost Accounting					341
E001		8:30-10:20	Tu Th	PB 3315	Nourallah
530-4 Conceptual Framework of Accounting					Grad. students only
E001		6:30-10:20	M	PB 2411	Bedel

ADMINISTRATION (ADM)

541-4 Business and Its Legal Environment					Grad. students only
E001		6:30-10:20	Th	PB 3404	Scott
543-4 Personnel Management					540
E001		6:30-10:20	Th	PB 2411	Sokolik

APPLIED SCIENCE (APS)

420-3 Digital Computers in Research					Math 225, 305a
E001		8:30-9:45	Tu Th	CB 0186	Goering
524a-3 Linear and Non-Linear Programing					Bach. Deg. in engin., math., or phys.
E001		8:30-9:45	M W	SL 1224	Hughes
531b-4 Operations Analysis and Synthesis					Bach. deg. in engin., math., or phys.
E001		6:30-8:20	M W	PB 2415	Mundel

Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
Edw. Alton E. St. Louis					

ART (ART)

050-3	Avocational Painting	6:20-10:00	Tu Th	Wagner	
E001					
051-3	Avocational Ceramics	6:20-10:00	Tu Th	Wagner	
E001					
312a-4	Advertising and Graphic Design I	6:30-10:10	Tu Th	SL 0225	202b Kemper
E001					
401-4	Research in Painting	6:30-10:10	Tu Th	SL 0218	310a/b/c Freund
E001					
566-4	Research in Art Education	Arranged			By permit only Altvater
001					
571-2 to 5	Readings in Art History	Arranged			By permit only Jacobson
001					

BIOLOGY (BIOL)

501-2	Research Orientation	4:30-6:20	Th	SL 3225	Cons. of instr. Myer
E001					
504b-3	Instructional Innovation in Secondary School Biology	6:30-9:20	Tu Th	SL 3218	Cons. of instr. Keating
E001					
590a-1	Graduate Biology Seminar	4:30	W	SL 2227	Grad. stand. Axtell
E001					

BUSINESS COMMUNICATIONS (BC)

390-4	Business Communications	6:30-8:20	M W	PB 3313	GSD 101b
E003					

BUSINESS EDUCATION (BSED)

221a-4	Shorthand and Transcription	8:30-10:20	Tu Th	PB 3415	Bulte
E002					
221c-4	Shorthand and Transcription	6:30-8:20	Tu Th	PB 3415	221b Bulte
E001					
304-3	Advanced Typewriting	6:30-8:20	M W	PB 3415	201c Giles
E001					
341-4	Office Machines	8:30-10:20	Tu Th	PB 3412	
E001					
403-3	Teaching Typewriting	6:30-7:45	Tu Th	PB 3417	304 Brady
E001					
405-4	Teaching General Basic Business Subjects	6:30-8:20	M W	PB 3417	Maedke
E001					
414a-3	Organization and Administration of Cooperative Vocational Business Education Programs	5:30-8:20	M	PB 2412	McElroy
E001					
426-4	Office Management	6:30-8:20	M W	PB 3302	Houser
E001					
500-4	Principles and Problems of Business Education	8:30-10:20	M W	PB 3409	Palmer
E001					

CHEMISTRY (CHEM)

375-1	Chemistry Seminar	4:30	M W	SL 2224	
E001					
412-3	Inorganic Preparations	5:30	Tu	SL 2224	235, 305b, or 341c
E001		6:30-9:20	Tu Th	SL 2217	
444-3	Organic Reactions	5:30-6:45	M W	SL 3225	Jason
E001					
561-3	Chemical Thermodynamics	7:30-8:45	M W	SL 3225	Rands
E001					

COUNSELOR EDUCATION (CED)

305-4	Educational Psychology	5:30-8:20	Tu	PB 2412	Parks
E004					
420-4	Educational Statistics	5:30-8:20	M	LB 0042	
E001					
E002		5:30-8:20	Th	PB 1410	
003		Arranged		LB 0034	
					Nextep students only.
422-4	Educational Measurements I	5:30-8:20	Tu F	PB 3305	Eckert
E002					Meets first four Fridays only.

14 COUNSELOR EDUCATION (C ED)

Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
426-4	Individual Inventory				Cons. of instr.
E001		5:30-8:20	M	Pract Ctr	McBride
510-4	College Student Personnel Services				Cons. of instr.
E001		5:30-8:20	M W	Pract Ctr	Hansmeier
515-4	Psychological Aspects of Education				
E001		5:30-8:20	Tu	PB 2306	
002	Arranged				Harmin
	Nextstep students only.				
522-4	Educational Measurements II				
E001		5:30-8:20	Th	PB 2412	
525-4	School Behavior Problems				
001		9:00-12:00		S PB 0304	Meredith
535-4	Introduction to Individual Measurements				
E001		5:30-8:20	M	PB 1410	Rochester
537-4	Counseling Theory and Practice I				
E001		5:30-8:20	Tu	Pract Ctr	Pancrazio
E002		5:30-8:20	W	PB 2410	Soper
538-4	Counseling Theory and Practice II				
E001		5:30-8:20	Th	Pract Ctr	Soper
541-4	Occupational Information and Guidance				
E001		5:30-8:20	M	PB 2306	Ederle
542-4	Basic Principles of Guidance				
E001		5:30-8:20	M	PB 0304	Mermis
543-4	Guidance Through Groups				Cons. of instr.
E001		5:30-8:20	Tu	Pract Ctr	McBride
E002		5:30-8:20	Th	Pract Ctr	Mermis
E201		5:30-8:20	Th	ANA 111	Davis
545j-4	Organization and Administration				
E001		5:30-8:20	W	Pract Ctr	Davis
562a-4	Child Development in Education				
E201		4:30-7:20	M	ANA 111	Troyer
562b-4	Adolescent Development in Education				
E001		5:30-8:20	Tu	PB 2406	Mermis
575c-4	Practicum				
E001	Arranged			Pract Ctr	Moore
E002	Arranged			Pract Ctr	Soper
E003	Arranged			Pract Ctr	Pancrazio

ECONOMICS (ECON)

200-4	Macroeconomics				Soph. stand.
E003		6:30-8:20	Tu Th	PB 3303	
201-4	Microeconomics				Soph. stand.
E401		6:30-8:20	Tu Th	ESL 110	Luan
300-4	The Monetary System and Economic Policy				200, 201
E002		8:30-10:20	Tu Th	PB 2405	Livingston
310-4	Labor Problems				200, 201
E001		8:30-10:20	Tu Th	PB 2403	
416-4	Money and Banking II				300
E001		8:30-10:20	M W	PB 3315	
505-4	Theory of the Firm				MBA students only
E001		6:30-10:20	Tu	PB 3404	Drake
542-4	Price Theory				440 or cons. of instr.
E001		6:30-8:20	M W	PB 3409	Dye

EDUCATION ADMINISTRATION (ED AD)

355-4	Philosophy of Education				C Ed 305
E005		7:30-9:20	M	PB 2409	Hofmann
			W	LB 0044	
E401		6:30-8:20	Tu Th	ESL 225	Lee
456-4	School Supervision				
E001		5:30-8:20	Th	PB 3305	
002		9:00-11:40		S PB 0307	Boss
480-4	Backgrounds of Urban Education				Cons. of instr. or fac. chmn.
001	Arranged				Gore
500-4	Research Methods				
E001		5:30-8:20	M	SL 3114	Hileman
E002		5:30-8:20	Tu	PB 1410	Jordan
E003		5:30-8:20	W	PB 1306	Meyers
E004		5:30-8:20	Th	LB 0042	Jordan
005		9:00-11:40		S PB 0309	Schnabel
E401		5:30-8:20	Tu	ESL 104	Pierce
501-4	Seminar in Educational Administration				
E001		5:30-8:20	M	PB 0411	Ackerlund

Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
511a-4 001	Internship Practicum	Arranged			
511b-4 001	Internship Practicum	Arranged			
518-4 E001	Community Junior College Instructional Processes	5:30-8:20	Tu	SL 1105	Boss
520-4 E001	Illinois School Law	5:30-8:20	M	PB 0413	Wilkins
524-4 E001	School Administration	5:30-8:20	W	PB 0412	Ackerlund
525-4 E001	Personnel Administration	5:30-8:20	Tu	PB 0413	Wheat
533-4 E001	School Buildings	5:30-8:20	W	PB 0413	Andree
534a-4 E001	School Finance	5:30-8:20	Tu	PB 1306	Wilkins
554-4 E001	Contrasting Philosophies of Education	5:30-8:20	W	PB 2306	Villemain
	E401	5:30-8:20	Th	ESL 124a	Curry
556-4 E001	Seminar in Educational Supervision	5:30-8:20	Th	PB 2306	Wheat
560-4 001	Curriculum	Cons. of instr. or fac. chmn. for sect. 001 only			Swerdlin
	E002	5:30-8:20	Tu	SL 3114	Smyers
565-4 E001	The Community Junior College	5:30-8:20	M	LB 0044	Goodwin
575a-4 001	Individual Research (Curriculum)	Arranged			Cons. of instr. and fac. chmn.
575b-4 001	Individual Research (Supervision)	Arranged			Cons. of instr. and fac. chmn.
575c-4 001	Individual Research (Buildings)	Arranged			Cons. of instr. and fac. chmn.
575d-4 001	Individual Research (Finance)	Arranged			Cons. of instr. and fac. chmn.
575e-4 001	Individual Research (School Law)	Arranged			Cons. of instr. and fac. chmn.
575f-4 001	Individual Research (Comparative Education)	Arranged			Cons. of instr. and fac. chmn.
575g-4 001	Individual Research (History of Education)	Arranged			Cons. of instr. and fac. chmn.
575h-4 001	Individual Research (Philosophy of Education)	Arranged			Cons. of instr. and fac. chmn.
575j-4 001	Individual Research (Administration)	Arranged			Cons. of instr. and fac. chmn.
575k-4 001	Individual Research (Elementary Administration)	Arranged			Cons. of instr. and fac. chmn.
596-4 001	Independent Investigation	Arranged			
597-1 to 3 001	Thesis	Arranged			Cons. of instr. and fac. chmn.

EDUCATION ELEMENTARY (EDEL)

337-4 E002	Reading in the Elementary Schools	4:30-6:20	Tu Th	PB 0306	314 D. Starr
413-4 E001	Children's Literature	5:30-8:20	Th	CB 0194	Carpenter
415-4 E002	Improvement of Instruction in Arithmetic in the Elementary School	5:30-8:20	Th	SL 3114	Brooks
437-4 E001	Problems in Reading	5:30-8:20	W	PB 0312	
442-4 E001	Science for the Elementary Teacher	5:30-8:20	W	PB 0411	314 Bliss

16 EDUCATION ELEMENTARY (ED EL)

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Edw. Alton E. St. Louis	Time			
505-4	Improvement of Reading Instruction			
E001	5:30-8:20	M	PB 1402	Richardson
E002	5:30-8:20	W	PB 0405	Steinkellner
507-4	Readings in Reading			505
001	Arranged			
509-4	Practicum in Reading		521a,b,c;	cons. of instr.
001	Arranged			
518-4	Supervision of Student Teachers			
E201	5:30-8:20	M	SCI 102	Wehling
521a-4	Diagnosis and Correction of Reading Disabilities			505, cons. of instr.
Lect	5:30-7:20	Th	PB 0405	Bear
Clinic 1	8:00-9:30	S	PB 0406	
Clinic 2	9:30-11:00	S	PB 0406	
Clinic 3	11:00-12:30	S	PB 0406	
542-4	Language Arts in the Elementary School			
001	9:00-11:40		S PB 0412	Brooks
543-4	Teaching the Social Studies in the Elementary School			
E001	5:30-8:20	Tu	LB 0042	Brooks
553-4	Internship in Professional Education			Cons. of instr. or fac. chmn. Darnell
001	Arranged			
557-4	The Elementary Principalship			
001	9:00-11:40		S PB 0314	Steinbrook
561-4	The Elementary School Curriculum			
E001	5:30-8:20	Th	PB 1402	Steinbrook
567a-4	Teaching Competencies and Their Application			Cons. of instr. or fac. chmn. Darnell
001	Arranged			
002	Arranged			Harmin
575a-4	Individual Research (Curriculum)			Cons. of instr. and fac. chmn.
001	Arranged			
575b-4	Individual Research (Supervision)			Cons. of instr. and fac. chmn.
001	Arranged			
575c-4	Individual Research (Language Arts)			Cons. of instr. and fac. chmn.
001	Arranged			
575d-4	Individual Research (Science)			Cons. of instr. and fac. chmn.
001	Arranged			
575e-4	Individual Research (Reading)			Cons. of instr. and fac. chmn.
001	Arranged			
575f-4	Individual Research (Social Studies)			Cons. of instr. and fac. chmn.
001	Arranged			
575g-4	Individual Research (Elementary Education)			Cons. of instr. and fac. chmn.
001	Arranged			
575h-4	Individual Research (Arithmetic)			Cons. of instr. and fac. chmn.
001	Arranged			
575j-4	Individual Research (Problems in Kindergarten-Primary)			Consent of instr. and fac. chmn.
001	Arranged			
596-5 to 9	Independent Investigations			Cons. of instr. and fac. chmn.
001	Arranged			
597-1 to 3	Thesis			Cons. of instr. and fac. chmn.
001	Arranged			

EDUCATION SECONDARY (EDS)

315-4	High School Methods			Ed Ad 355
E004	5:30-8:20	W	CB 0194	
	Four extra sessions arranged.			
505-4	Improvement of Reading Instruction			
E001	5:30-8:20	M	PB 1402	Richardson
E002	5:30-8:20	W	PB 0405	Steinkellner
507-4	Readings in Reading			505, cons. of instr.
001	Arranged			
508-4	Seminar: Trends in Selected Areas in Secondary Schools			
001	9:00-11:40		S PB 0408	Hileman
509-4	Practicum in Reading		521a,b,c;	cons. of instr.
001	Arranged			

Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
513-4	Materials and Methods for the Assessment of Disabled Readers				505
E001		5:30-8:20	W	PB 1410	Richardson
518-4	Supervision of Student Teachers				
E201		5:30-8:20	M	SCI 102	Wehling
521a-4	Diagnosis and Correction of Reading Disabilities				505, cons. of instr.
Lect		5:30-7:20	Th	PB 0405	Bear
Clinic 1		8:00-9:30	S	PB 0406	
Clinic 2		9:30-11:00	S	PB 0405	
Clinic 3		11:00-12:30	S	PB 0406	
553-4	Internship in Professional Education				Cons. of instr. or fac. chmn. Swerdlin
001		Arranged			
562-4	The High School Curriculum				
E001		5:30-8:20	W	PB 1402	Madson
564-4	High School Principalship				
E001		5:30-8:20	M	PB 1306	Andree
567a-4	Teaching Competencies and Their Application				Cons. of instr. or fac. chmn.
001		Arranged			Darnell
002		Arranged			Harmin
570-4	Extra Class Activities				
E001		5:30-8:20	Th	SL 1105	Allsup
575a-4	Individual Research (Curriculum)				Cons. of instr. and fac. chmn.
001		Arranged			
575b-4	Individual Research (Supervision)				Cons. of instr. and fac. chmn.
001		Arranged			
575c-4	Individual Research (Language Arts)				Cons. of instr. and fac. chmn.
001		Arranged			
575d-4	Individual Research (Science)				Cons. of instr. and fac. chmn.
001		Arranged			
575e-4	Individual Research (Reading)				Cons. of instr. and fac. chmn.
001		Arranged			
575f-4	Individual Research (Social Studies)				Cons. of instr. and fac. chmn.
001		Arranged			
575g-4	Individual Research (Secondary Education)				Cons. of instr. and fac. chmn.
001		Arranged			
575h-4	Individual Research (Higher Education)				Cons. of instr. and fac. chmn.
001		Arranged			
575j-4	Individual Research (Junior College)				Cons. of instr. and fac. chmn.
001		Arranged			
596-5 to 9	Independent Investigation				Cons. of instr. and fac. chmn.
001		Arranged			
597-1 to 3	Thesis				Cons. of instr. and fac. chmn.
001		Arranged			

SPECIAL EDUCATION (SPED)

410a-4	Problems and Characteristics of the Emotionally Disturbed				
E001		5:30-8:20	M	F PB 0412	Reinking
		Meets first four Fridays only.			
410b-4	Problems and Characteristics of the Mentally Retarded Child				
E001		5:30-8:20	Tu	PB 0408	Tucker
				F PB 0406	
		Meets first four Fridays only.			
410c-4	Problems and Characteristics of the Gifted Child				
E001		5:30-8:20	Th	PB 0408	Zenk
				F PB 0409	
		Meets first four Fridays only.			
413a-4	Directed Observation of the Emotionally Disturbed				
001		Arranged			Reinking
413b-4	Directed Observation of the Educable Mentally Handicapped				
001		Arranged			Tucker
414-4	The Exceptional Child				
E001		5:30-8:20	W F	LB 0042	
		Meets first four Fridays only.			

Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite	Instructor
420b-4	Methods and Materials in the Education of the Educable Mentally Handicapped					
E001		5:30-8:20	ThF	PB 0413		
		Meets first four Fridays only.				
428-4	Speech Correction for the Classroom Teacher (Same as S P & A 428)					
E001		5:30-8:20	Th	CB 2012		Carey
496-1 to 8	Readings and Independent Study in Special Education					
						By permit only
001	Arranged					Shaffer
501-4	Special Research Problem					By permit only
001	Arranged					
590a-4	Seminar: Mental Retardation					By permit only
E401		5:30-8:20	Th	ESL 104		Tucker

ENGINEERING (ENGR)

101a-3	Engineering Graphics					
E003		6:30-9:20	M W	SL 1216		Bishop

ENGLISH (ENG)

300-4	Principles of English Grammar				Compleat. 2nd-level GSC	
E002		4:30-6:20	Tu Th	PB 0307		Duncan
302a-4	Survey of English Literature to 1550				Compleat. 2nd-level GSC	
E002		6:30-8:20	Tu Th	PB 0309		
309a-4	Survey of American Literature to 1860				Compleat. 2nd-level GSC	
E002		8:30-10:20	M W	PB 0309		
391-3	Usage in Spoken and Written English				Compleat. 2nd-level GSC	
E002		8:30-9:45	Tu Th	PB 0309		
404a-4	Middle English Literature				Jr. stand.	
E001		4:30-6:20	M W	PB 2415		Drake
421a-4	English Poetry: Early Romantics				Jr. stand.	
E001		8:30-10:20	Tu Th	PB 2415		Bailey
468-4	American Drama				Jr. stand.	
E001		6:30-8:20	Tu Th	PB 0412		Going
485-4	Problems in the Teaching of English				Jr. stand.	
E001		6:30-8:20	Tu Th	PB 0307		Steinman, Frogner
500-4	Materials and Methods of Research in English				Grad. stand.	
E002		8:30-10:20	M W	PB 2415		McDermott
514-4	Studies in Restoration and 18th Century Literature				Grad. stand.	
E001		4:30-6:20	M W	PB 0307		Graham
537-4	Studies in 20th Century American Writers				Grad. stand.	
E001		6:30-8:20	Tu Th	SL 2227		Zanger
555-4	Studies in the Victorian Novel				Grad. stand.	
E001		8:30-10:20	Tu Th	PB 2406		Duncan

FINANCE (FIN)

320-4	Corporation Finance				Acct 230, 231; Econ 200, 201	
E003		6:30-8:20	Tu Th	PB 2405		Meador
425-4	Investments				424	
E001		6:30-8:20	Tu Th	PB 3313		Glynn
523-4	Financial Management				520	
E001		6:30-10:20	M	PB 3404		Meador

FOREIGN LANGUAGES (FL)

French (Fr)

123a-1	Elementary French Conversation				Con. enrol. in GSD 123a	
E201		7:55-8:20	Tu Th	ANA 110		
500-2	Seminar in Contemporary French Literature				Grad. stand., con. enrol. in 501	
E001	Arranged					Pellegrino
501-2	Seminar on a Selected French Author				Grad. stand., con. enrol. in 500	
E001	Arranged					Pellegrino

German (Ger)

126a-1	Elementary German Conversation				Con. enrol. in GSD 126a	
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Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
★E401	7:55-8:20	Tu Th	ESL 112		
513-3	Twentieth Century German Novel				Grad. stand.
E001	5:05-6:20	Tu Th	PB 0406		Guenther
Italian (Ital)					
201a-3	Intermediate Italian		2yrs. h.s.	Ital. or	GSD 144, or equiv.
E001	6:30-7:45	M		PB 0307	
			W	PB 0408	
220a-2	Intermediate Italian Conversation				Con. enrol. in 201a or cons. of instr.
E001	7:55-8:45	M		PB 0307	
			W	PB 0408	
Russian (Rus)					
136a-1	Elementary Russian Conversation				Con. enrol. in GSD 136a
E001	5:55-6:20	Tu Th		PB 2410	
Spanish (Span)					
140a-1	Elementary Spanish Conversation				Con. enrol. in GSD 140a
★E201	7:55-8:20	M W		ANA 110	
201a-3	Intermediate Spanish		Two yrs. h.s.	Span. or	GSD 140 or equiv.
E002	4:30-5:45	M W		PB 3409	
525-3	The Spanish Ballads				Grad. stand.
E001	5:05-6:20	M W		PB 2411	Goode

GENERAL BUSINESS ADMINISTRATION (GBA)

140-4	Introduction to Business				
E004	6:30-8:20	M W		PB 3303	Blackledge
E005	8:30-10:20	Tu Th		PB 3303	Blackledge
★E201	6:30-8:20	Tu Th		ANA 100	Potter
★E401	6:30-8:20	M W		ESL 110	Statler
340-4	Organization and Decision-Making			140, GSB	201a,c
E003	6:30-8:20	M W		PB 2405	Potter
341-4	Organizational Problems				340
E003	6:30-8:20	Tu Th		PB 3302	Jain
440-4	The Legal Environment of Business				140
E002	6:30-8:20	M W		PB 3313	Scott
441-4	Business Policy				341, 440
E001	8:30-10:20	M W		PB 3313	

GEOGRAPHY (GEOG)

426a-4	Photogrammetry				
001	Arranged				
471a-4	Regional Planning				
E001	6:30-8:20	M W		PB 1412	Kahn
490a-2	Tutorial in Geography				Cons. of Dr. Kircher
001	Arranged				Marlow
511-4	Philosophy of Geography				
E001	5:30-8:20		Th	PB 1412	Collier
520-3	Seminar in Physical Geography				
E001	5:30-7:20	M		SL 1215	Gore
	Three Saturday field trips.				
521-4	Seminar in Economic Geography				
E001	5:30-8:20	Tu		PB 1412	Koepke
530-2 to 4	Independent Studies in Geography				Cons. of Dr. Kazeck
E001	Arranged				Kircher
599-4 to 8	Thesis				
001	Arranged				Kazeck

GOVERNMENT (GOVT)

479-4	Topics in International Relations				370
E001	6:30-8:20	Tu Th		SL 2224	Feeney
545-4	Seminar in American Politics				
E001	5:30-9:20	M		SL 0226	Ellsworth

HISTORY (HIST)

372a-4	History of Russia: To 1905				GSB 101b,c
E001	6:30-8:20	M W		PB 0406	Santoni

Course No.—Hours	Descriptive Title	Days	Place	Prerequisite Instructor
Edw. Alton E. St. Louis	Time			
430a-3 E001	Late Modern Europe: 1815 to 1880 6:30-7:45	Tu Th	PB 0406	GSB 101b Gallaher
435c-3 E001	Advanced American History: 1929 to 1939 8:30-9:45	M W	PB 0314	GSB 300a,b,c Weiss
500-4 E002	History Seminar 8:30-10:20	Tu Th	PB 2412	Rosenthal

HUMANITIES (HUM)

301-3 E002	Humanities Honors 6:30-7:45	Tu Th	SL 2231	Cons. of instr. Corr
	The "Death of God" Theme			

INSTRUCTIONAL MATERIALS (IM)

308-4 E001	School Library Technical Processes 5:30-8:20	W	PB 0410	
406-4 E001	Library Materials for Adolescents 5:30-8:20	M	PB 0410	Holzberlein
417-4 Lect EB	Audio-Visual Methods in Education 5:30-7:20	W	PB 0304	Thota
	Student enrolls in one lecture, one quiz section, and one hour per week self-instruction.			
E009	4:30	W	PB 0410	
E010	7:30	W	PB 0409	
E011	5:30	Th	PB 0410	
E012	6:30	Th	PB 0410	
E013	7:30	Th	PB 0410	
E014	5:30	Tu	PB 0411	
E015	6:30	Tu	PB 0411	
422-4 E001	Book Selection 5:30-8:20	Tu	PB 0410	
440-2 E001	Photography for Teachers 5:30-7:20	Tu	PB 0409	Gilligan
445-4 E001	Preparation of Teacher-Made Audio-Visual Materials 5:30-8:20	M	PB 0409	Madison
530-4 E001	History of Books and Libraries 5:30-8:20	Th	PB 0409	Holzberlein
548-4 001	Supervision and Administration of an Audio-Visual Program 9:00-11:40	S	PB 0409	Gilligan
549-4 E001	Visual Learning 5:30-8:20	Th	PB 0411	Gilligan

MANAGEMENT OPERATING SYSTEMS (MOS)

281-4 E001	Principles of Computer Programming 6:30-8:20	M W	CB 0186	Cons. of instr. Erich
380-4 E001	Management Operating Systems I 4:30-6:20	M W	CB 0186	Acct 231 Miller
E002	8:30-10:20	M W	CB 0186	Miller
580-4 E001	Management Systems 6:30-10:20	Tu	PB 2411	Grad. students only

MARKETING (MKTG)

370-4 E003	Consumer Behavior 8:30-10:20	Tu Th	PB 3316	GSB 103b, 201c, Econ 201, QM 211 Bosse
371-4 E002	Principles of Marketing Management 8:30-10:20	M W	PB 3303	370 Gwin
452-4 E001	Physical Distribution Management 6:30-8:20	Tu Th	SL 3225	470, QM 310 DeBord

MATHEMATICS (MATH)

150a-4 E004	Elementary Calculus and Analytic Geometry 6:30-8:20	M W	SL 1225	GSD 114a,c
225-4 E004	Programming and Digital Computers 6:30-8:20	Tu Th	CB 0186	GSD 114a
305a-4 E001	Applied Mathematics for the Physical Sciences 6:30-8:20	Tu Th	SL 1210	252b, Phys 211c
321-4 E002	Elementary Matrix Algebra 6:30-8:20	M W	SL 1224	150b
351-4 E001	Multivariable Calculus 8:30-10:20	M W	SL 2224	252b

Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
410a-4 E001	Statistical Analysis	4:30-6:20	Tu Th	SL 1225	GSD 114a
433-3 E001	Theory of Point Sets	4:30-5:45	Tu Th	SL 1224	252b and 6 hrs. courses numbered 300 or higher, or cons. of instr. Poynor
446b-3 E001	Structure of Mathematics	6:30-7:45	Tu Th	SL 1224	Exp. in teach. or cons. of instr. Holden
455a-3 E001	Advanced Mathematics for the Physical Sciences	6:30-7:45	Tu Th	SL 0226	252b Garder
458a-3 E001	Finite Mathematics	6:30-7:45	Tu Th	SL 1225	Exp. in teach. or cons. of instr. Sturley
472a-3 E001	Computer Science	8:30-9:45	Tu Th	CB 0186	225, 305a, 321 Rutledge
501a-3 E001	Real Variables	8:30-9:45	M W	SL 1225	452c Bennewitz
520a-3 E001	Modern Algebra	4:30-5:45	M W	SL 1224	420 Lindstrum
550-1 to 10 001	Seminar	Arranged			Cons. of instr.
551a-3 E001	Functional Analysis	6:30-7:45	M W	SL 2231	421, 452 Kessler
595-1 to 10 001	Special Project	Arranged			
599-1 to 9 001	Thesis	Arranged			

MUSIC (MUS)

002e-1 E001	Community Choral Society	7:30-9:30	Tu	PB 1402	Van Camp
003-1 E001	Orchestra	8:00-10:00	Tu	CB 1029	By permit only Kendall
420-1 E001	Music Education Practicum	5:30-7:20	Th	CB 1029	Brauer
461a-3 001	Teaching Techniques and Materials for the Beginning and Intermediate Levels	Arranged			By permit only
461b-3 001	Teaching Techniques and Materials for the Advanced Student	Arranged			By permit only
465-3 E001	Development and Teaching of Strings	5:30-8:00	Tu	CB 0158	By permit only Kendall
481-2 to 6 001	Readings in Music Theory	Arranged			By permit only
482-2 to 6 001	Readings in Music History and Literature	Arranged			By permit only
483-2 to 6 001	Readings in Music Education	Arranged			By permit only
501-3 E001	Introduction to Graduate Study in Music	5:30-8:00	M	CB 0194	By permit only Blakely
522-3 E001	Seminar: Music History and Literature	5:30-8:00	Tu	CB 0194	By permit only Kresteff
560-3 E001	Seminar in Music Education	5:30-8:00	W	PB 3404	By permit only Tulloss, Kresteff
599-3 to 9 001	Thesis	Arranged			By permit only

PERSONNEL (PERS)

453-4 E001	Advanced Problems in Industrial Relations	6:30-8:20	M W	PB 3422	451
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PHILOSOPHY (PHIL)

200-4 E003	Types of Philosophy	6:30-8:20	Tu Th	PB 2409	Livergood
495-2 to 12 001	Independent Readings	Arranged			Cons. of chmn.

PHYSICAL EDUCATION (PE)

350-4 E002	Methods and Materials for Teaching Physical Education Activities in the Elementary School	5:30-9:20	W	PB 2414	Luedke
E401		5:30-9:20	Th	ESL 221	Moehn

Course No.—Hours	Descriptive Title	Time	Days	Place	Prerequisite Instructor
402-4	Organization and Administration of Intramural and Extramural Activities				
E001		6:30-9:20	W	PB 2413	Brick
475-2 to 4	Individual Research				
001	Arranged				Herrold
501-4	Curriculum in Physical Education				
E001		5:30-8:20	M	PB 2413	Archangel
502-4	Foundations of Motor Skills				
E001		5:30-9:20	Th	PB 2413	Showers
509-4	Supervision of Health and Physical Education				
E001		5:30-8:20	Tu	PB 2413	Herrold
525-2 to 6	Readings in Physical Education				
001	Arranged				Herrold

PHYSICS (PHYS)

300a-4	University Physics IV				211
E002		6:30-8:20	M W	SL 1210	Slotboom
300b-1	University Physics IV Laboratory				212, Con. enrol. in 300a
E002		6:30-9:20		F SL 0212	Slotboom
510a-3	Classical Mechanics				301
E001		8:00-9:15	M W	SL 2227	Boedeker
580-3	Selected Topics in Physics: Mathematical Physics				Math 305a
E001		6:30-7:45	M W	SL 2227	Sanders

PRODUCTION (PROD)

460-4	Production Management				GBA 340
E001		6:30-8:20	Tu Th	PB 3316	Ingwersen

PSYCHOLOGY (PSYC)

301-4	Child Psychology				GSB 201c
E003		6:30-8:20	M W	PB 1307	Kuenzli
305-4	Introduction to Personality Dynamics				GSB 201c
E002		6:30-8:20	Tu Th	PB 0304	Walsh
406-4	Learning Processes and Applications				211a
E001		5:30-8:20	M F	PB 2410	F. Starr
	Meets first four Fridays only.				
420-4	Experimental Analysis of Behavior				GSB 201c
E001		5:30-8:20	M F	SL 2212	McLaughlin
	Meets first four Fridays only.				
432-4	Mental Hygiene				305
E001		5:30-8:20	ThF	PB 1306	Kuenzli
	Meets first four Fridays only.				
440-4	Theories of Personality				305
E001		5:30-8:20	M F	PB 0408	Hartman
	Meets first four Fridays only.				
451-4	Advanced Child Psychology				301
E001		5:30-8:20	M F	PB 0312	Skinner
	Meets first four Fridays only.				
465-4	Group Dynamics and Individual Behavior				307
E001		5:30-8:20	ThF	PB 2406	Russo
	Meets first four Fridays only.				
474-4	Psychology of Employee Relations				320
E001		6:30-8:20	Tu Th	PB 2415	Daugherty
490-1 to 4	Independent Projects				Cons. of chmn.
001	Arranged				
501a-4	Proseminar in General Psychology				Cons. of chmn.
E001		5:30-7:20	Tu Th	PB 2414	McCall
520-4	Research Design and Inference I				211
E001		7:30-9:20	Tu Th	PB 2414	Brinkmann
541a-4	Psychodiagnostics I				211b, 421, cons. of instr.
E001		5:30-8:20	M	PB 2414	Harris
590-1 to 4	Readings in Psychology				Cons. of chmn.
001	Arranged				
591-1 to 4	Research in Psychology				Cons. of chmn.
001	Arranged				
593-2 to 4	Practicum in Psychology				Cons. of instr.
001	Arranged				Engbretson

QUANTITATIVE METHODS (QM)

211-4	Statistical Analysis for Business Decisions				210
E002		6:30-8:20	Tu Th	PB 3412	Schwier

Course No.—Hours Descriptive Title Prerequisite
 Edw. Alton E. St. Louis Time Days Place Instructor

510-4 Statistical Analysis Grad. students only
 E001 6:30-10:20 W PB 2411 Luan

REHABILITATION (REHB)

480-2 Introduction to Rehabilitation
 E001 5:30-8:20 W PB 2409 Bernstein
 580-2 Practicum in Rehabilitation Services
 001 Arranged Schumacher
 585-4 Practicum in Rehabilitation Counseling
 001 Arranged Schumacher

SOCIAL WELFARE (SOC W)

481-4 Processes in Social Work 375
 001 Arranged Irvine

SOCIOLOGY (SOC)

321-4 Socialization of the Individual 301
 E001 6:30-8:20 M W PB 1414 Henslin
 333-4 Community Organization 301
 E401 6:30-8:20 Tu Th ESL 220 Teer
 405-4 Current Sociology 301
 E001 4:30-6:20 M W PB 0309
 427-4 Personality and Social Adjustment 321
 E001 6:30-8:20 Tu Th PB 1414 Henslin
 542-4 Seminar on the Family
 E001 6:30-10:20 Tu LB 0044 Taylor

SPEECH PATHOLOGY AND
 AUDIOLOGY (SP & A)

428-4 Speech Correction for the Classroom Teacher (Same as Sp Ed
 428)
 E001 5:30-8:20 Th CB 2012 Carey
 Additional hours arranged.

VOCATIONAL-TECHNICAL
 INSTITUTE (VTI)

CCS 101-4 Child Care
 E001 4:30-7:20 M PB 2409
 Lab Two hours to be arranged.
 E401 4:30-7:20 Tu ESL 222
 Lab Two hours to be arranged.
 CCS 105-3 Language Arts
 E401 5:30-7:20 Th ESL 222
 Lab Three hours to be arranged.
 CCS 109a-2 Personal Interaction
 E401 4:30-8:20 W ESL 222

TECHNICAL AND ADULT
 EDUCATION (T & AE)

English Review
 E001 8:30-10:20 Tu SL 0226
 E002 8:30-10:20 Th SL 0226
 E003 8:30-10:20 W PB 0307
 E004 6:30-8:20 W PB 0307
 Reading Improvement
 E001 4:30-6:20 Tu SL 0226
 E002 4:30-6:20 Th SL 0226
 E003 6:30-8:20 W SL 0226
 E004 8:30-10:20 W SL 0226



Course Descriptions

3

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.

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) An historical development of sociological ideas and introduction to such concepts as social structure, role behavior, and social institutions. (b) An 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.

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.

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

157-5 The Dramatic Media: Theater, Cinema, and Television. A study of dramatic media, theater, television, and film with emphasis on the roles and techniques of artists and craftsmen involved. Required theater attendance and television and film viewing. Appropriate research activity.

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.

106-0 Intermediate Algebra. A non-credit course for students who need remedial work in mathematics.

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. Prerequisite: high school intermediate algebra and plane geometry. An alternative course for 112-9. Must be taken in a,c sequence.

114d-4 Statistics. Descriptive statistics, probability distributions, sampling, statistical inference, regression and correlation. An alternative course for the second quarter of 114. 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.

136-9 (3,3,3) Elementary Russian. No previous knowledge of Russian required. 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.

Accounting

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

231-4 Financial Accounting Analysis. Introduction to valuation concepts of assets, liabilities, and ownership equities; control of cash, valuation of receivables, inventory valuations and price level changes, fixed asset valuation of receivables, inventory valuations and price level changes, fixed asset valuation and depreciation policy, equity accounting and concepts, bonds, partnerships, and corporations; basics in financial statement analysis—use of ratios and their interrelationship with other factors; funds and cash flow concepts. Prerequisite: 230.

330-4 Managerial Cost and Budgeting. Control concepts, essentials of job order and process costing; budgets and budgeting for planning and control, standards and flexible budgets and use of "exception" principle through variance analysis; control of fixed costs, relevant cost analysis for managerial decision making, capital planning. Prerequisite: 231.

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.

351b-4 Accounting Theory and Problems II. Comprehensive study of the equity accounts, their valuation, presentation, etc. Prerequisite: 351a.

442-4 Advanced Cost Accounting. Managerial control and profit planning through capital budgeting, inventory planning, subjective probabilities, statistical methods, and operations research; direct and relevant costing; nonmanufacturing costs; differential and comparative cost analysis. Prerequisite: 341.

530-4 Conceptual Framework of Accounting. Deals with such specifics as accounting records and systems, aspects of income measurement, price levels, principles of financial statement analysis, and fund flow statements. Prerequisite: MBA students only.

Applied Science

420-3 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.

524-6 (3,3) Linear and Non-Linear Programming. Optimization techniques for processes with linear and nonlinear constraints. The application of operations research principles, gradient methods, game theory, peak-seeking methods, and dynamic programming to management and control problems. Prerequisite: bachelor's degree in mathematics, natural science, or engineering.

531-8 (4,4) Operations Analysis and Synthesis. Mathematical bases for decisions and programming in industry; models, methods, and objectives of systems engineering; specific methods and problems; emphasis on practical validity and use of empirical methods. Problem solving in operations research, including research-type reports by students. Prerequisite: bachelor's degree in mathematics, natural science, or engineering.

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.

312a-4 Advertising and Graphic Design I. Deals with the basic tools of the advertising designer. Introduction to styles of type, lettering techniques, layout problems, and reproduction processes for advertisements and illustrations in papers, magazines, posters, television, and pamphlets. Creative exercises in designing with type and illustrations.

Business Communications

390-4 Business Communications. Designed to improve understanding of the vital role of effective communication in business and to develop skill in business writing with emphasis on the preparation of reports. Provides an opportunity to learn effective use of a business library; to collect and interpret data; to present information in a logically organized and acceptable form.

Business Education

221-12 (4,4,4) Shorthand and Transcription. Study of Gregg shorthand theory and the development of skill and knowledge required for dictation and transcription. (a) Prerequisite: may not be taken for credit by students who have had previous high school or other formal instruction in shorthand. (b) Prerequisite: 221a or one semester of other formal instruction in shorthand-transcription. (c) Prerequisites: 221b.

304-3 Advanced Typewriting. Development of advanced skills in typing business correspondence, manuscripts, forms, and tables; preparation of copy from rough draft materials. Prerequisites: 201c.

341-4 Office Machines. A study of the capabilities and operational characteristics of basic types of office machines; a consideration of ap-

propriate uses of each kind of machine. Laboratory practice required. A unit in data processing gives opportunity for key-punch instruction.

403-3 Teaching Typewriting. Instructional procedures, skill-building principles and techniques, selection and preparation of instructional materials, standards of achievement, and evaluation of pupil performance. Prerequisite: 304.

405-4 Teaching General Basic Business Subjects. Instructional procedures, analysis and selection of materials, preparation of teaching units, evaluation of pupil performance.

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.

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.

500-4 Principles and Problems of Business Education. A study of the fundamentals of business education; its relation to business, to general and vocational education, and to guidance programs; its history, current status, and trends; special emphasis on objectives and curriculum problems.

Chemistry

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

412-3 Inorganic Preparations. A study of several important types of inorganic syntheses. One lecture and six laboratory hours per week. Prerequisites: 235 and 305b or 341c.

444-3 Organic Reactions. An intermediate course with emphasis on monofunctional compounds. Additional topics, not included in elementary courses. Three lecture hours per week. Prerequisite: 341c.

561-3 Chemical Thermodynamics. Basic methods and theories as applied to chemical problems. Lecture. Prerequisites: 461c and demonstrated capability.

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.

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. 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.

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. Prerequisites: 412, 542.

538-4 Counseling Theory and Practice II. Systematic study of major

theories of counseling as they apply to school situations. Supervised experience in role-playing or laboratory experience utilizing these approaches to counseling. 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.

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.

545j-4 Organization and Administration. Analysis of principles, procedures, and plans necessary for initiating, developing, and appraising a school guidance program. Prerequisite: 537a.

562-8 (4,4) Child 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. May 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.

Economics

200-4 Macroeconomics. An introduction to national economic systems with attention to the meaning and measurement of national income, and the causes of fluctuations therein. National economic objectives and policies, including the distribution of income, the level of employment factors affecting stability and growth, the role of taxation. Prerequisite: sophomore standing.

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.

310-4 Labor Problems. Survey of labor force, wage and employment theory, unemployment including economic insecurity, trade unionism, and collective bargaining from the standpoint of public policy. Prerequisites: 200 and 201.

416-4 Money and Banking II. Evolution of money systems, theories of effect of money supply on national income, debt, asset-holdings, etc.; relationships of money supply to specific industries and key economic variables and considerations. Prerequisite: 300.

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.

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.

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

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.

533-4 School Buildings. Various phases of physical plant design and maintenance of concern to the school administrator.

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

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.

556-4 Seminar in Educational Supervision. Special research problems in supervision for advanced graduate students.

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

575-1 to 4 Individual Research. Selection, investigation, and writing of a research assignment under the personal supervision of a graduate faculty member 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.

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

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

Elementary Education

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: Counselor Education 305, Educational Administration 355 and Elementary Education 314.

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 and GSD 112.

437-4 Problems in Reading. Practices and trends in the teaching of reading; materials of instruction in reading, particularly remedial materials; techniques and materials for prevention of reading difficulties; diagnosis and remediation of reading difficulties. Prerequisites: 337 and senior standing. Not open to students having had 505.

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

505-4 Improvement of Reading Instruction. 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. Prerequisite: 505.

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, 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. A course 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.

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 are 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.

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 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. Prerequisite: Educational Administration 335.

505-4 Improvement of Reading Instruction. 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 and consent of instructor.

508-4 Seminar: Trends in Selected Areas in Secondary Schools. For students in advanced graduate work. Individual class members will 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 and 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: 505.

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 democratic. 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. Designed to deal with 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. Prerequisite: Educational Administration 424 and 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.

570-4 Extra-Class Activities. Cocurricular activities of the junior and senior high school including intramural and interscholastic functions.

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, (k) Junior High School Methodology.

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 will involve selecting of the problem, survey of pertinent literature, recording of results, and appropriate interpretations and summarizations.

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

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 Child. 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.

413a-4 Directed Observation of the Emotionally Disturbed Child. Student observation and participation in group and individual work with emotionally disturbed children. Often taken concurrently with 410a. Prerequisite: consent of instructor.

413b-4 Directed Observation of the Educable Mentally Handicapped. Student observation and participation in group and individual work with mentally retarded children. Often taken concurrently with 410b. Prerequisite: consent of instructor.

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. Prerequisite: Psychology 301 or 303 or consent of instructor.

420b-4 Methods and Materials in the Education of the Educable Mentally Handicapped. Usually offered in conjunction with practice teaching, dealing with methods and materials needed in teaching educable mentally retarded in special education programs. Prerequisite: 410b.

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.

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.

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.

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.

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.

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.

421-16 (4,4,4,4) English Poetry. (a) Early Romantics: major emphasis on general background and on Blake, Coleridge, and Wordsworth; (b) later Romantics: emphasis on Byron, Shelley, and Keats, the minor figures; (c) Victorian poets: Tennyson, Browning, Arnold, and other poets of England, 1830-1900; (d) modern British poets. May be taken separately.

468-4 American Drama. The rise of the theater in America, with reading of plays, chiefly modern.

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

500-2 Materials and Methods of Research in English. The principal tools of literary scholarship and the more important studies and journals. Practice in preparation of selective bibliographies and scholarly reports.

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.

Foreign Languages

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.

500-2 Seminar in Contemporary French Literature. A study of the *nouveau roman* and anti-theater from 1950 to the present.

501-2 to 6 Seminar on a Selected French Author. Intensive study of one author. May be taken a maximum of 3 times.

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.

513-3 20th Century German Novel. Continuation of 512. Study of representative writers of expressionism, "Neue Sachlichkeit," etc. Lectures, reports.

Italian

201-9 (3,3,3) Intermediate Italian. Development of listening, speaking, reading and writing skills on the intermediate level, with special attention to the role of Italian culture in world civilization. Prerequisite: GSD 144, or two year of high school Italian, or equivalent.

220-6 (2,2,2) Intermediate Italian Conversation. Development of oral skill on an intermediate level. Prerequisite:

Russian

136-3 (1,1,1) Russian Conversation. Conversation and oral drill taken with GSD 136 by students who wish additional oral training; elected only by students enrolled in GSD 136. 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.

201-9 (3,3,3) Intermediate Spanish. Composition, oral practice, rapid reading of modern authors with special attention to the role of Spanish culture in world civilization. Must be taken in a,b,c sequence. Prerequisite: GSD 140 or two years of high school Spanish, or equivalent.

525-3 The Spanish Ballads. The romance studied as a part of the literature and folklore of Spain and the New World.

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.

340-4 Organization and Decision-Making. Development of understanding of organizational behavior and decision theory and of analytical skills through case analysis and discussion. Examination of processes of group formation and development, conformity and direction, influence and decision-making, problem solving, role specialization and differentiation, status and social power distribution, satisfaction, and goal internalization and commitment. Prerequisites: 140 and GSB 201a,b,c.

341-4 Organizational Problems. Application of the concepts, understanding, and techniques to major categories of recurring organizational problems faced by complex business units and described in case situations. Features such as position specifications, authority structures, territorial imperatives, performance measurements, and procedures involving compensation, communication, and employee selection and promotion. Designing organizational patterns to meet specific situational needs. Prerequisite: 340.

440-4 The Legal Environment of Business. Varied facets of the external and internal legal environments within which business firms operate. Use of cases and readings which describe and analyze the legal framework supporting, facilitating, and guiding everyday business decisions. Common law, statutory law, and administrative law as they affect the business environment. Prerequisite: 140.

441-3 Business Policy. Development of a top-management view leading to the formulation of general policies to be followed by the organization. Determination of objectives, the development of plans for their achievement, organizing administrative personnel to carry them out, implementation of programs, measurement of results, and the reappraisal of objectives, plans and action-patterns in the light of evolving situations. Prerequisites: 341 and 440.

Geography

426-9 (3,3,3) Photogrammetry. (a) Principles and practice of terrestrial and aerial photogrammetric mapping, including planning flights, control surveys, uncontrolled mosaics, radial-line control, simple stereoplottling instruments, parallel distortions, graphical tilt determination, trimetrogen charting, and economics. (b) An advanced study of photogrammetric principles including controlled mosaics, rectification, graphical, mechanical, and analytical space orientation. Readings and reports from current technical literature. The principles of many photogrammetric plotters are studied together with economic relation of these instruments to density of field control, office methods, and personnel. (c) A study of the soil and rock areas of the United States and the patterns present in aerial photographs. Fundamental elements of soil patterns are analyzed to permit determination of materials present and their properties. Emphasis is placed on photo interpretation for engineering and regional planning purposes. Laboratory. Prerequisite: 363a or consent of instructor.

471-8 (4,4) Regional Planning. Area and regional development, theory, and practices.

490-1 to 2 (8 total) Tutorial in Geography. Individual and small group conferences with staff members to examine geographic concepts.

511-4 Philosophy of Geography. The nature of geography. Current trends in the field, present-day geographers, and schools of thought. Geography's place among the disciplines.

599-2 to 9 Thesis. Minimum of 5 hours to be counted toward a master's degree.

Government

479-4 Topics in International Relations. A detailed study of a selected topic in the area of international relations. Designed primarily for government concentrations with advanced standing.

History

372-8 (4,4) History of Russia. (a) To 1905. (b) Since 1905. May be taken separately or in any sequence. Prerequisite: GSB 101b,c.

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

435-12 (3,3,3,3) Advanced American History. (a) 1865-1900. (b) 1900-1929. (c) 1929 to present. Prerequisite: GSB 300-9.

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

Humanities

301-3 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.

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.

422-4 Book Selection. Principles for selection and evaluation; use of standard selection aids, reviews and annotations, including policies governing the building and maintenance of the collection.

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. For directors of Instructional Materials and Audio-Visual Centers. Prerequisite: 417 or consent of the 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.

Management Operating Systems

281-4 Principles of Computer Programming. A comparative study of stored program concepts, binary coding principles, study of machine language and symbolic coding; definition of problem and preparation of flow charts and block diagrams. Work involves practice problems requiring the preparation of flow charts, block diagrams, coding, preparation of source programs, and test running on computer equipment. Prerequisite: consent of instructor.

380-4 Management Operating Systems I. A study of organizational decision making within the concept of systems with emphasis on information flows, decision centers and the application of data processing techniques. A major portion of the course is student development of an information, decision-making, and control system for a specific small-scale business enterprise. The computer is used. Prerequisite: Accounting 231.

Marketing

370-4 Consumer Behavior. An interdisciplinary approach to the analysis and interpretation of consumer buying habits and motives and the resultant purchases of goods and services. The purchaser's psychological, economic, and sociocultural actions and reactions are stressed as they relate to a better understanding of consumption. Prerequisites: GSB 103b, GSB 201c, Economics 201, and Quantitative Methods 211.

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.

452-4 Physical Distribution Management. A systematic, integrated treatment of problems of managing the flow of raw materials, parts, semi-manufactured and finished goods from their sources to the ultimate consumer. Stress on the application and logic of quantitative decision tools to the problems of spatial relationships of plant capacity and storage facilities and their connecting transportation linkages. Prerequisites: 470 and Quantitative Methods 310.

Mathematics

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.

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.

305-6 (3,3) Applied Mathematics for the Physical Sciences. (a) Ordinary differential equations, linear algebra, and applications. (b) Additional topics in applied mathematics such as finite difference methods; Laplace transforms, and Fourier series. Must be taken in a,b sequence. Prerequisites: 252b and Physics 211c.

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.

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 and 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: 305b or consent of instructor.

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, and 321.

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. Topics from group theory, ring theory, and field theory; including Sylow theorems, solvable groups, nilpotent groups, rings with descending and ascending chain conditions, elementary divisor theorem for R-modulus, Galois theory, and cyclotomy. Must be taken a,b,c sequence. Prerequisite: 419 or consent of instructor.

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. (f) Logic and Foundations. (g) Topology. Prerequisite: consent of instructor.

551-9 (3,3,3) Functional Analysis. The theory of linear transformations between infinitely dimensional topological vector spaces, including Banach and Hilbert spaces, with various applications. The basic notion for the study is that of a functional or continuous scalar-valued linear transformation. Must be taken in a,b,c sequence. Prerequisites: 501c and 421b.

595-1 to 10 Special Project. An individual project, including a written report. (a) in algebra; (b) in geometry; (c) in analysis; (d) in probability and statistics; (e) in mathematics education; (f) in logic and foundations; (g) in topology.

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.

420-1 Music Education Practicum. A shop-laboratory course dealing with the selection, adjustments, maintenance, and repair of musical instruments.

461-6 (3,3) (a) Teaching Techniques and Materials for the Beginning and Intermediate Levels. Designed to meet the needs of applied students in which the problems of private studio teaching and college-level teaching are discussed. (b) **Teaching Techniques and Materials for the Advanced Student.** Prerequisite: 461a

465-3 Development and Teaching of Strings. Place and function of string education in the elementary and secondary schools. Techniques of heterogeneous and homogeneous string teaching. Developing and sustaining interest in the string program. Resource aids. May be repeated for a total of 9 hours credit. Prerequisite: senior standing.

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

522-3 Seminar: Music History and Literature. Advanced study in special periods of music history-literature.

560-3 Seminar in Music Education. Trends, current practices, philosophies of music education.

Personnel and Industrial Relations

453-4 Advanced Problems in Industrial Relations. Exploration and development of labor, management, and government relations. A study of conflict and harmony between them as individual units and as a totality. Emphasis is placed on the internal grievance procedure and the roles of the National Labor Relations Board, Federal Mediation and Conciliation Service, arbitrators, and other tripartite bodies in Industrial Relations. Cases and reports are incorporated. Prerequisite: 451.

Philosophy

200-4 Types of Philosophy. Survey of the traditional branches and problems of philosophy, such as religion, metaphysics, epistemology, ethics, political theory, aesthetics, and history.

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.)

402-4 Organization and Administration of Intramural and Extramural Activities. Planning intramural programs of sports. Planning and coordinating extramural activities commonly associated with physical education.

475-2 to 4 Individual Research. The selection, investigation and writing of a research topic under supervision of an instructor. (a) Dance, (b)

kinesiology, (c) measurement, (d) motor development, (e) physiology of exercise, (f) history and philosophy.

501-4 Curriculum in Physical Education. Principals 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.

509-4 Supervision of Physical Education. The functions of supervision in physical and health education; basic principles and methods of supervision. Techniques and methods for increasing the effectiveness of the program at the elementary and high school levels.

525-2 to 6 Readings in Physical Education. Supervised reading in selected subjects. Prerequisite: consent of instructor and chairman of department. Open only to last-quarter seniors and graduate students.

Physics

300a-4 University Physics IV. A continuation of 211 covering modern physics. Three lecture and two recitation hours per week. Prerequisites: 206 or 211, Mathematics 252b or concurrent enrollment.

300b-1 University Physics Laboratory IV. Consists of the classic experiments in modern physics: Millikan oil drop, e/m , Franck-Hertz, Foucault velocity of light and black body radiation along with experiments in nuclear physics. Prerequisite: concurrent enrollment in 300a.

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 (E); 401 (C).

580-3 to 6 Selected Topics in Physics. Topics of special interest. Prerequisite: consent of instructor.

Production

460-4 Production Management. Analysis of the basic functions of manufacturing firms. Students work on a project of their choice in conjunction with the lectures and class discussions. Topics include blueprint reading, equipment and tools, plant layout, product flow, materials handling, quality control, cost control, production control, methods engineering, product engineering, inventory control, the use of PERT, and financial concepts as related to production management. Several plant visits are conducted during the course. Prerequisite: General Business Administration 340.

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.

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.

406-4 Learning Processes and Applications. An examination of processes by which behavior is acquired, changed, or extinguished; an application of learning principles developed in the learning laboratory. Prerequisite: consent of instructor.

420-4 Experimental Analysis of Behavior. Scientific methodology as an approach to investigation and classification of problems involved in understanding the psychological nature of man. Prerequisite: 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.

451-4 Advanced Child Psychology. An examination of the concepts, methods, and problems of human development with consideration of both its psychological and psychosocial aspects. Prerequisite: 301 or 303 or consent of the 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 counsel-

ing, 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) Acquisition of behavior, sensory and perceptual processes, motivation and emotion. (c) Personality and individual differences, new conceptual and methodological developments and trends. To be taken in sequence. Prerequisite: consent of instructor. Open to students in other areas by arrangement with 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.

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 and 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 the 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.

Quantitative Methods

211-4 Statistical Analysis of Business Decisions. A further exploration of statistical concepts as applied to business situations including analysis of variance, multiple regression analysis, and non-parametric statistics, under conditions of uncertainty. Prerequisite: 210.

Rehabilitation

480-2 An Introduction to Rehabilitation. A survey of the philosophy, procedures and practices underlying the rehabilitation movement, including the history and legislation that have contributed to its rapid development.

580-1 to 6 Practicum in Rehabilitation Services. Familiarization with the functions of various rehabilitation settings through observation and participation in those activities—usually one day per week. Prerequisite: consent of instructor.

585-1 to 16 Practicum in Rehabilitation Counseling. Practice in developing counseling skills under close supervision in a variety of settings. Prerequisites: Guidance 537a and consent of instructor.

Social Welfare

481-4 Processes in Social Work. Theory, rationale, and practice of casework, group work, social welfare organization, and the roles of supervision, administration, and research in relation to each. Case material study and discussion with field observation and practice. Prerequisite: 375 or consent of instructor.

Sociology

321-4 Socialization of the Individual. The process of socialization in infancy, childhood, and adolescence; development of habits; attitudes, sentiments; emergence of the self; integration of the individual and society. Prerequisite: 301 or GSB 103a.

333-4 Community Organization. Factors involved in community organization; types, aims, and objectives; community diagnosis; individual case study of specific community. Prerequisite: 301 or GSB 103a.

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.

427-4 Personality and Social Adjustment. Basic mechanisms of adjustive behavior; concepts and criteria of personal integration and social adjustment; varieties of adjustive and non-adjustive behavior; theories of personal organization and disorganization; selected problems. Prerequisite:

site: 321 or Psychology 305 or consent of instructor.

542-4 Seminar on the Family. The family as a field of sociological study. Assessment of significant historical and contemporary writing. Prerequisite: 15 hours of sociology including 340, or 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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