CALENDAR 1980 - 1982
SUMMER SCHOOL 1980

Registration ............................................. June 16, 1980
Classes Begin ............................................. June 17, 1980
July 4 Holiday ............................................ July 4, 1980
Session Ends ............................................. August 8, 1980

FIRST SEMESTER 1980-81

Orientation and Registration .......................... August 25, 26, 27, 1980
Classes Begin ............................................. August 28, 1980
Labor Day Holiday ....................................... September 1, 1980
Thanksgiving Recess ................................... November 27-30, (Classes dismiss 4 p.m. Wed., Nov. 26) 1980
Exam Period .............................................. December 15-22 (including Saturday, December 20,) 1980
Final Day of Semester ................................... December 22, 1980
Christmas Recess ........................................ December 23-January 14, 1981

SECOND SEMESTER 1980-81

Orientation and Registration .......................... January 15, 16, 1981
Classes Begin ............................................. January 19, 1981
Spring Recess ............................................ March 21-29, 1981
Easter Recess ............................................. April 17-20, 1981
Exam Period .............................................. May 18-23, 1981
Final Day of Semester ................................... May 23, 1981

SUMMER SCHOOL 1981

Registration ............................................. June 15, 1981
Classes Begin ............................................. June 16, 1981
July 4 Holiday ............................................ July 4, 1981
Session Ends ............................................. August 7, 1981

FIRST SEMESTER 1981-82

Orientation and Registration .......................... August 24, 25, 26, 1981
Classes Begin ............................................. August 27, 1981
Labor Day ................................................. September 7, 1981
Thanksgiving Recess ................................... November 26-29, (Classes dismiss 4 p.m. Wed., Nov. 25) 1981
Exam Period .............................................. December 14-21 (including Saturday, December 19,) 1981
Final Day of Semester ................................... December 21, 1981
Christmas Recess ........................................ December 22-January 13, 1982

SECOND SEMESTER 1981-82

Orientation and Registration .......................... January 14-15, 1982
Classes Begin ............................................. January 18, 1982
Spring Recess ............................................ March 20-28, 1982
Easter Recess ............................................. April 9-12, 1982
Exam Period .............................................. May 17-22, 1982
Final Day of Semester ................................... May 22, 1982

SUMMER SCHOOL 1982

Registration ............................................. June 14, 1982
Classes Begin ............................................. June 15, 1982
July 4 Holiday ............................................ July 4, 1982
Session Ends ............................................. August 6, 1982
The graduate programs are accredited by the North Central Association of Colleges and Schools and by the National Council for Accreditation of Teacher Education.

No. 398 May 1980

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The University of Wisconsin-Whitewater is committed to equal opportunity for all persons regardless of age, sex, race, color, national origin, creed, affiliation or handicap in its educational programs, activities and employment policies. This is in compliance with Title IX and Section 504 of the Rehabilitation Act of 1973 (as amended). Refer inquiries to the Affirmative Action Officer, 800 W. Main St., Whitewater, WI 53190.
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The materials contained in this publication incorporate the current policy and regulations of The University of Wisconsin-Whitewater regarding rights, privileges, duties, obligations, prohibitions and policies. They are directive in nature and binding upon the personnel (student, faculty and/or classified) to whom they pertain.

Wisconsin Statutes, Board of Regents resolutions, court opinions of the Wisconsin Attorney General, University administrative regulations, and any other rules or decisions from an authoritative source, which are the basis of this publication, are subject to change.
Success is to be measured not so much by the position that one has reached in life as by the obstacles which he has overcome while trying to succeed.

BOOKER T. WASHINGTON
GENERAL INFORMATION

In the summer of 1960, after two years of planning, graduate education came to the University of Wisconsin-Whitewater campus. The first master's degree was conferred in the summer of 1964.

The growth of the graduate program is indicated by the fact that the number of graduate students registered has increased from 32 in the summer of 1960 to 1,686 in the summer of 1979. In the 1979 summer school, graduate students comprised more than half of the summer enrollment (55 per cent). During the first semester of the 1979-80 academic year a total of 1,885 graduate students were served.

This number places UW-Whitewater as the third largest public and/or private graduate school in terms of "head count" enrollment in the University of Wisconsin System and in the State of Wisconsin, next to UW-Madison, UW-Milwaukee. Of this total number (1,885), 994 graduate students were enrolled in in-service graduate work off the Whitewater campus in other communities of the UW-Whitewater service area.

Graduate degree programs at Whitewater are fully accredited by the North Central Association, the National Council for Accreditation of Teacher Education, and the Wisconsin State Department of Public Instruction.

An extensive program of evening classes is offered for those who are employed. It is possible to complete the master's degree through summer and evening work without being a full time student during the semester.

DEGREES AWARDED. Since the summer session of 1964, when the first master's degree was granted at Whitewater, 3,446 master's degrees have been awarded through December, 1979 commencement (estimated for December, 1979 - 111 degrees). However, the last ten academic years, (1969-70 through August, 1979), plus estimated December, 1979 (111 degrees), have produced 3,264 degrees of this total, or 94 per cent.

The School of Graduate Studies at the University of Wisconsin-Whitewater offers master's degree programs designed to improve instruction in the public schools and to prepare for other services related to the operation of schools. Furthermore, a number of master's degree programs are offered in business areas.

The Master of Science in Teaching degree is intended for secondary, post secondary (i.e. vocational and technical institutions) junior high and elementary teachers who are already certified to teach. The Master of Arts in Teaching degree program offers an opportunity to earn certification to teach in secondary schools and/or post secondary while completing the master's degree. These programs are offered with several emphases specified in detail in the description of the curriculums which follow in the master's degree program section of the bulletin.

In addition, the School of Graduate Studies offers the master's degree in school business management, mental retardation, reading, school psychology, accounting and a program for teachers of the emotionally disturbed, as well as a program for the teaching of children with learning disabilities. There is also a general program in special education, as well as an option relating to the early childhood handicapped.

Accounting degree programs are designed to train professional accountants. Both the M. S. degree and an accounting emphasis under the M.B.A. degree program are offered. Degree programs are also offered in counseling and guidance (M.S.) and in business administration (M.B.A). A degree program is offered in safety education which includes school safety, traffic safety, and occupational safety emphases. The Master of Education-Professional Development (ME-PD) degree program is offered and is tailored to meet the recognized needs and professional improvement goals of experienced teachers.

A M.S. in Communication is designed for both teaching and nonteaching positions with emphases in speech communication, communicative disorders and mass communication (jour-
nalism). Other degree programs are being planned or considered for approval by appropriate state agencies. These will be announced when they have been given final approval.

INFORMATION. For information on schedules, programs, assistantships or other matters, please visit, write, or call:

The School of Graduate Studies
University of Wisconsin-Whitewater
Whitewater, Wisconsin 53190
Telephone: (Area Code 414) 472-1006, 472-1009, 472-3166
Arthur G. McGraw, Jr., Dean

GRADUATE COURSES. Courses numbered 500 or higher are graduate courses which may be applied toward completion of a master's degree. Courses numbered under 500 are undergraduate courses and may not be applied toward the completion of a master's degree. Graduate-level courses (numbered 500 or higher) may not be used to satisfy undergraduate degree requirements. Also, undergraduate courses (numbered under 500) may not be used to satisfy master's degree requirements. A course taken for undergraduate credit may not be later changed to graduate credit or repeated for graduate credit. Courses numbered from 500 to 599 are junior-graduate courses, and courses numbered 600 to 699 are senior-graduate courses. Not more than half of the graduate work in a degree program nor half of the work in a major or emphasis field may be in courses numbered 500 to 699, except by the permission of an individual academic department to waive this requirement, and with the permission of the Dean of the Graduate School (Policy — Graduate Faculty — May 8, 1974). Courses numbered 700 or higher are open only to graduate students.

THE GRADUATE FACULTY. The graduate faculty consists of persons selected from the regular faculty and of visiting staff members. They are selected on the basis of their experience, academic preparation, professional reputation and interest in the graduate program. (See Constitution of the Graduate Faculty on p. 163 for specific requirements for membership in the Graduate Faculty.)

FACULTY COMMITTEES. The Graduate Council is responsible for the formulation of policy and approval of curricular matters for the School of Graduate Studies. The Council is the executive committee of the graduate faculty. Members of the Graduate Council are elected for three-year terms by the graduate faculty of the various departments offering graduate courses. Furthermore, there is a representative standing Committee for Coordination and Planning in graduate matters, as well as individual college graduate studies committees. A Graduate Library Committee is concerned with the development of the library as it pertains to the Graduate School, and a representative of this Library Committee serves on the University Learning Resources Committee.

GRADUATE ASSISTANTSHIPS. The School of Graduate Studies is authorized by the Board of Regents of the University of Wisconsin System to offer graduate assistantships to selected full-time graduate students. All grants are conditional upon legislative appropriation of the funds necessary to support the program. The terms and conditions described here are subject to change without notice. Final decision as to the awarding of assistantships is made by the authorized officials of the University.

The amount of a full graduate assistantship grant is $4,022 for an academic year or $2,011 for a semester. The minimum amount to be granted nonresident graduate students in order for them to qualify for remission of the out-of-state portion of fees is $2,681 for an academic year and $1,340 for a semester. A nonresident student who is granted either a $2,681 academic year assistantship or one for $1,340 for the second semester will also qualify for out-of-state fee remission if he/she attends summer school of that academic year. No graduate assistantship may be granted for less than $650. The regular incidental fees of the University will be paid by the student.

A graduate student holding an assistantship in the amount of $4,022 will be expected to perform twenty hours of service each week for the department to which he/she is assigned. Assistantships of lesser amounts will carry work loads proportionately reduced. Duties will involve such assignments as those of laboratory assistant, research assistant, the preparation of
materials of instruction, or other assignments of an academic nature. Graduate assistants will not teach college level classes. Graduate students who are awarded assistantships are given a formal notice in writing. This notice contains the full terms and conditions of the grant and may contain certain provisions not expressed here.

The holders of assistantships must (1) be graduate students, (2) must be enrolled in a graduate degree program at UW-Whitewater, and (3) must be in good standing status. For persons who have not previously done graduate work, admission in good standing requires an undergraduate average of 2.75 grade points on the four point scale or 2.90 on approximately the last half of the undergraduate work. Persons who have been raised to good standing on the basis of their graduate record (overall grade point average of 3.00 or better) are qualified. A student holding an assistantship is limited to a maximum registration of 12 graduate credits and must be registered for a minimum of 9 graduate credits unless he/she has special permission to be otherwise registered.

A student must be admitted to the UW-Whitewater graduate school into a degree program before he/she is eligible to be considered for a graduate assistantship. New applicants for admission should personally request that transcripts of all undergraduate and graduate work completed be sent to the Dean, School of Graduate Studies, UW-Whitewater (53190) by the Registrar of the schools attended. If a student has already been admitted to the graduate school and is in a degree program, he/she should complete and return the application for assistantship form only.

ARMY R.O.T.C. TWO-YEAR PROGRAM. (FINANCIAL ASSISTANCE). The Military Science Department (Army ROTC) offers a progressive leadership education program that combines challenging academic study and practical training experiences concerning the theories, concepts and principles of leadership, resource management, organization and the operations of the military service. It is an undergraduate program (see undergraduate bulletin for details) but the Department is authorized to offer graduate financial assistance for qualified full-time graduate students. It is awarded to qualified men and women who will not exceed 28 years of age at the completion of two years of graduate study. Military Science courses and completion of Basic Camp (alternate program is available) and Advanced Camp during the summer months is required.

Students receiving financial assistance will receive approximately $3,000 over a two-year period. Individuals must be physically qualified to receive a commission in the United States Army and to serve a minimum of three to six months on active duty.

Application for this financial assistance must be made prior to May of each year. Additional information and application forms are available from the Military Science Department, University of Wisconsin-Whitewater, Salisbury Hall.

CONTINUING EDUCATION AND OUTREACH

STAFF
Thomas S. McLeRoy, Dean, 414-472-1100
Cora Forbush, Associate Dean, Outreach Counselor, 414-472-1003
Robert Weigandt, University Conference Coordinator, 414-472-3165
William Myers, University Camp Coordinator, 414-472-3165
John Bodenstein, Associate Registrar, 414-472-1571
Robert Jeffingwell, Director of Radio, 414-472-1323
W. George Patten, Research, 414-472-1217

OUTREACH COORDINATORS
Rudolph Najar, Letters and Sciences, 414-472-1620
Robert Perinchief, The Arts, 414-472-1222
William Johnston, Education, 414-472-1769
Robert Smith, Business & Economics, 414-472-1945
In the past year, nearly one third of the students at UW-Whitewater were 25 years of age or older. These adults, scattered throughout southeastern Wisconsin and enrolled as full-time or part-time students in on-campus or off-campus classes, comprise the large group of adults served by the Office of Continuing Education and Outreach. Student goals of renewal, discovery or re-discovery, sought through the process of first-time admission or return to this University, serve as the starting point for the Continuing Education and Outreach Staff in shaping educational programs to meet student needs.

The link to campus assistance is as close as the Outreach phone number, 414-472-1100. In addition to the dean, the staff includes four college outreach coordinators, an outreach counselor, a university conference coordinator and an Associate Registrar for Outreach. These persons plan course offerings, advise students, coordinate conferences, seminars and workshops, and handle questions relating to academic records and registration. The student is urged to contact the office for any needed help.

CONTINUING EDUCATION PROGRAMS AND SERVICES

OUTREACH COUNSELING/ADVISING. A counseling/advising service is available to adult students to discuss academic goals and/or to explore educational alternatives. Appointments with appropriate University personnel can be arranged to facilitate entry or return to the University. Students desiring assistance may call the Outreach Coordinator in the college of student interest or, if uncertain about educational goals, the student may call the Outreach Counselor. Names and telephone numbers are listed in the preceding section.

OFF-CAMPUS COURSES. Off-campus courses are offered in many communities in southeastern Wisconsin in response to requests received by the Office of Continuing Education and Outreach and on the basis of results determined by surveys.

Off-campus course credit offered by the University of Wisconsin-Whitewater is fully accredited work. Off-campus courses offered by other accredited colleges and universities will be accepted in transfer by UW-Whitewater (9 credit maximum) provided that a grade of B or better was earned in these courses and they are approved by the department housing the major or emphasis. Whitewater does not offer nor recognize correspondence courses.

Students enrolling in off-campus courses are responsible for making certain that such courses meet the requirements of the curriculum in which they are enrolled. If there is a question about a particular course, the student should contact the academic adviser or the chairperson of the department in which he/she intends to major or seek an emphasis.

No student may enroll in an off-campus course for credit after the second regularly scheduled meeting of the class.

ON-CAMPUS EVENING COURSES. A wide range of classes are offered in the evening (5 p.m. or later) for the convenience of students unable to attend the University during the daytime. Many of these classes meet one night a week for 150 minutes rather than three times a week for 50 minute periods. Students desiring to enroll in on-campus evening graduate level courses must be either admitted to or registered in the School of Graduate Studies, University of Wisconsin-Whitewater.

SUMMER SCHOOL. An eight-week Summer School is offered each year with numerous courses and programs of shorter duration. In addition to a comprehensive program of courses, a wide range of workshops, conferences, and institutes are offered on timely topics of interest to teachers, businessmen, and the general public.

TIMETABLES FOR OFF-CAMPUS, EVENING SCHOOL, OR SUMMER SCHOOL CLASSES MAY BE OBTAINED BY WRITING TO THE OFFICE OF CONTINUING EDUCATION AND OUTREACH OR BY CALLING 414-472-1003.

CONFERENCES, SUMMER CAMPS, SEMINARS AND WORKSHOPS. The University has an active conference program which includes special credit and non-credit programs with diverse interests including an international drum and bugle corps competition. The campus has
facilities which can house and feed up to 4000 persons depending upon the time of the year. Last year, approximately 58,000 persons were attracted to these programs.

**RADIO STATION.** WSUW-FM (91.7 on the dial) is a 1300 watt radio station operated by UW-W. The radio station serves as a laboratory for on-campus radio courses, a vehicle of public service to the community, and as a vehicle of instruction.

**EDUCATIONAL TELEPHONE NETWORK (ETN) OF UW-EXTENSION.** Educational Telephone Network (ETN) provides a system of two-way communication for credit or non-credit courses, available at approximately 185 listening stations located in the state of Wisconsin. An ETN listening station is located on the UW-Whitewater campus. In addition, each county in the state has two or three listening stations within a convenient distance from a student's home. A wide variety of professions accept ETN programs for certification or re-certification requirements.

A semester schedule of programs of course work for academic credit or non-credit seminars and workshops is available by writing the Office of Continuing Education and Outreach, or by calling 414-472-1003.

**TRAVEL/STUDY PROGRAMS.** For a number of years, the University has conducted travel/study programs in this country and around the world. These trips, coordinated by the Office of Continuing Education and Outreach, are directed by members of the University faculty. University credit may be earned upon completion of the preliminary study, class work during the tour, and subsequent assignments. Some field trips do not carry graduate credit. Each student pays for travel, personal expenses, and the appropriate University fees.

**NON-CREDIT ACTIVITIES.** Part of outreach deals with meeting the diverse interests of the residents of Whitewater and the surrounding community through programs and activities which evolve "out there." Ballet, yoga, and violin lessons using the Suzuki method of ear training, are among the activities currently offered. If the student has a yearning for a special learning not found in University catalogs, call us.

**REGENT SPONSORED CAMPS AND WORKSHOPS.** Each summer the Board of Regents sponsors several workshops at which graduate credit may be earned. Credits for these courses are accepted as residence credit, but students are requested to clear with the University to learn if the course will be accepted in their degree program as a required or an elective course.
GENERAL ADMISSION REQUIREMENTS

APPLICATION — INITIAL FEE FOR ADMISSION TO A DEGREE PROGRAM. Wisconsin legislation requires that effective with the 1978-79 fall semester and later semesters or sessions, a $20 NONREFUNDABLE fee must accompany each new graduate application for admission to a degree program. Effective May 1, 1979, noncandidate for degree students and qualified seniors who only register for graduate-level courses ARE NOT required to pay this fee.

This fee and the Application for Admission form must be submitted in an envelope provided. Transcripts may be enclosed or mailed to the Graduate School. The application cannot be processed until the $20 fee has been received.

REACTIVATION. Students who do not enroll in a graduate course at UW-Whitewater within a calendar year are considered inactive. Inactive students are NOT required to pay the $20 application fee in order to register for classes, but must update and reactivate their file by completing a reactivation form which may be secured from the Graduate School Office. After the completed form has been returned to the Graduate School Office, it will be processed and the student will be eligible to register for graduate-level courses.

In general, all persons who hold a bachelor’s or advanced degree from an accredited school may register in graduate-level courses for graduate credit. Proof of a bachelor’s or higher degree is required. These students are classified as noncandidate for degree (NCFD) students. However, for persons who wish to be admitted to a graduate degree program, admission procedures require more detail including major or emphasis department approval. In addition to completion of an admission form obtained from the Graduate School Office, the student is required to submit official transcripts of all undergraduate and graduate work completed here and elsewhere.

Admission to a degree program differs from a noncandidate for degree (NCFD) registration in graduate course work, since certain grade point averages are required for good standing admission (2.75 overall on a 4.00 scale or a 2.90 on the last half of the undergraduate work completed), or for probationary admission (2.25 to 2.74 overall grade point average on a 4.00 scale). An individual with an overall undergraduate grade point average of between 2.25 and 2.74 on the 4.00 scale may be accepted in good standing if he or she takes a graduate admission test and scores at a level to be determined by the department. Such score must be above the 50th percentile to meet the requirements of the accrediting association in the particular field. Persons whose undergraduate grade point average is between 2.25 and 2.74 on the 4.00 scale who either do not take the test referred to above or fail to achieve the specified score may be admitted on probation. Grade point requirements for admission to a degree program do not apply to the “noncandidate for degree” category. Previous admission as an undergraduate or completion of a bachelor’s degree does not confer automatic admission to a graduate degree program.

Admission and registration of graduate students is processed by the office of the School of Graduate Studies, and applications for admission may be obtained from this office. The University Admissions Office processes only undergraduate admissions. The School of Graduate Studies has two major categories of students: Noncandidate for degree students (NCFD) and students applying for a specific graduate degree program. Applicants for degree programs are asked to have transcripts sent from all institutions of higher education they have attended. These should be mailed directly to the School of Graduate Studies at Whitewater by the registrars of the schools attended. It is not possible to grant admission to a graduate degree program until these transcripts are available. Applications for admission should be submitted at least a month before the beginning of the first term the applicant plans to attend. Certain degree programs have “deadline” dates for submission of applications. Applicants should check with the Graduate School office on this when considering application for admission. The applicant is notified as to his/her admission status and adviser.

PHYSICAL EXAMINATION REQUIREMENT. University regulations require that all graduate students participating in a program leading to the master’s degree who were admitted on or after August 1, 1968, shall file a report of physical examination and health record with the
University Health Center. This will be reported on a form supplied by the office of the School of Graduate Studies at the University at the time the student is notified of admission as a graduate student. The report will be filed prior to first registration as a graduate student. Students who are admitted as “non-candidate for degree” or “transfer” graduate students and who are not involved in a program leading to the master’s degree at Whitewater need fill out only the yellow medical history sheet. Students who have been admitted as “non-candidate for degree” or “transfer” students and who later elect to enter a program leading to the master’s degree will be required to submit a report of physical examination at the time they enter a program leading to the degree.

ADMISSION TO DEGREE PROGRAMS AND OTHER CATEGORIES

Students may be admitted to a graduate degree program either in good standing or on probation. Certain other special categories are established for persons not interested in completing a degree at this institution and for those entering on “qualified probation” admission. These special categories are “non-candidate for degree,” “guest transfer or credit,” and “qualified probation” status.

ADMISSION IN GOOD STANDING. Admission in good standing is based upon the following requirements:
1. Possession of a baccalaureate or higher degree from an accredited institution.
2. Satisfactory mental and physical health.
3. An overall undergraduate grade point average of 2.75 (4.00 basis) or a 2.90 grade point average in the last half of the undergraduate program. An individual with an overall undergraduate grade point average of between 2.25 and 2.74 on the four point scale may be accepted in good standing if he or she takes a graduate admission test and scores at a level to be determined by the department. Such score must be above the 50th percentile or meet the requirements of the accrediting association in the particular field.
4. In the Master of Science in Teaching degree and certain other programs certification to teach is required for admission. This certification in Wisconsin may include certification by any state agency regularly empowered to issue teaching licenses, such as the State Department of Public Instruction and the Wisconsin State Board of Vocational and Adult Education. Certification for teaching by states other than Wisconsin is acceptable.

ADMISSION ON PROBATION. The requirements for admission on probation are the same as those for good standing admission except that persons whose undergraduate grade point average is between 2.25 and 2.74 on the four point scale who either do not take the test referred to above or fail to achieve the specified score may be considered for admission on probation. Students admitted on probation who achieve a 3.00 overall grade point average upon completion of twelve (12) credits of graduate work will be moved to good standing status. Those failing to achieve a 3.00 overall grade point average upon completion of these twelve (12) credits of graduate work will be ineligible to take further graduate work in that degree program but may continue to take graduate work and seek admission to another degree program. (Graduate Council Policy Adopted November 3, 1977.)

ADMISSION ON “QUALIFIED PROBATION.” With the permission of the Dean of the Graduate School and the major or emphasis department concerned, students who do not meet the 2.25 minimum overall grade point average may be admitted to the probationary category, provided (a) they take a graduate admission test as specified by the college or department concerned and score in the 50th percentile or above, or (b) they take at least six credits of appropriate undergraduate or graduate course work at the discretion of the major or emphasis department and earn a grade of “B” or better in each course. Six credits taken in this category will not apply toward the master’s degree.

Students in this category may not take more than twelve (12) credits without having been admitted to a graduate degree program. If a student in this category completes six to 12 credits of advanced undergraduate or graduate course work with grades of “B” or better, the course work must be acceptable to the department offering the graduate program to which the student is seeking admission.
TRANSFER STUDENTS—(GUEST TRANSFER OF CREDIT). Persons attending another graduate school who wish to take graduate courses at Whitewater to transfer to that institution may do so. The School of Graduate Studies provides a form to be completed by an official of the graduate school to which the credits are to be taken in transfer. The form certifies that the student is attending the other institution and states the provisions for approval of the work taken at Whitewater toward the degree at the other institution.

NON-CANDIDATE FOR DEGREE STUDENTS (NCFD). Persons who hold the bachelor’s degree from an accredited college or university or who hold an advanced degree but do not wish to be admitted to a graduate degree program are classified as NCFD students. Evidence of a bachelor’s degree or an advanced degree is required for a NCFD student. This category allows the student to enroll in graduate level courses and to receive graduate credit for this work. No limitation is placed upon the number of courses or credits a student may take while in this category. If a NCFD student later wishes to be admitted to a degree program, he/she must complete all of the formal requirements for admission required of those seeking admission to that graduate degree program. This includes payment of the $20 nonrefundable initial admission fee to a degree program. The acceptance of graduate course work taken prior to admission to a degree program, including course work as a NCFD, toward fulfilling requirements of a specific degree program is at the discretion of the major or emphasis department offering the degree program. Furthermore, a maximum of nine graduate level credits taken as an NCFD student at UW-Whitewater prior to the term the student is admitted to a degree program can be used to satisfy requirements of that degree program. (It is assumed in this statement that the credits would be appropriate to the degree program.) (Policy passed by the Graduate Council November 3, 1977.)

For NCFD students who possessed an overall undergraduate grade point average of less than 2.25 and who later wish to be considered for admission to a degree program, the regulation pertaining to the loss of six credits (graduate or undergraduate) will apply as in the case of the “Qualified Probation” student (see section on Qualified Probation).

POLICY FOR SENIORS TAKING GRADUATE COURSES

Upon the written recommendation of the departmental chairperson of the student’s major or emphasis, a senior may be allowed to take graduate credits, PROVIDED he/she is eligible for admission to the graduate school in good standing (2.75 overall or 2.90 on approximately the last half of the undergraduate credits earned), and PROVIDED that the total graduate credits taken by an undergraduate does not exceed six (6) graduate credits (revised policy passed by the Graduate Council on November 3, 1977). For eligible UW-Whitewater seniors, undergraduate fees will be charged for this graduate-level course work. The graduate-level credits cannot be used to satisfy requirements for the bachelor’s degree.

Undergraduate Seniors from Institutions Other Than UW-Whitewater. Students with senior status (90 credits or more) from other colleges and universities may also avail themselves of this policy, EXCEPT that graduate fees will be assessed for the 3-6 graduate-level credits. The student must establish his/her eligibility for this privilege with the Dean of the School of Graduate Studies and be in good standing at his/her institution (2.75 g.p.a. overall or 2.90 g.p.a. on approximately the last half of the credits earned to date). If the student wishes to enroll for both undergraduate and graduate courses, undergraduate fees apply for all courses. If the student enrolls for only graduate-level courses, graduate fees will be charged senior students from institutions other than UW-Whitewater.

STUDENT AUDIT POLICY

A graduate student may audit courses under the following stipulations:

1. Must receive consent of the department chairperson and the instructor offering the course.
2. Register as an auditor.
3. No change from audit to credit or credit to audit will be permitted.
4. Appropriate fees are to be paid for the course. Wisconsin residents 62 or older may audit courses without charge except for payment of special class or laboratory fees, and subject to space in the class.

5. No credit will be granted for the course, but it will appear on the permanent record as an audit provided the instructor reports satisfactory attendance.

6. An audited course may be repeated for credit in another semester or term.

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<tr>
<th>CREDITS</th>
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<th>NON-RESIDENT</th>
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Fee schedule subject to change without notice.

PROBATION DUE TO GRADE DEFICIENCIES

(See Course Repeat Policy on p. 10)

A student who fails to maintain a 3.00 (B) overall grade point average for all graduate work completed at this institution is placed on academic probation. A student placed on probation for reasons of academic deficiency must attain a 3.00 overall grade point average within the next 12 graduate level credits at this institution in order to be returned to good standing status, (3.00 overall G.P.A. or better). This includes graduate courses that are repeated. Failure to accomplish this will result in the student being dropped from his/her degree program with ineligibility to take further graduate work in that degree program. However, he/she may continue to take graduate work in a non-candidate for degree status (NCFD) and/or seek admission to another degree program. (Graduate Council Policy Adopted November 3, 1977.)

Not more than one course with a grade of C in the major or emphasis field nor more than two courses with a grade of C outside the major or emphasis field may be counted toward completion of a master's degree. No grade below C in the major or emphasis area, or other required courses, may be applied toward the completion of a degree program. (Amended Paragraph Adopted by the Graduate Council December 12, 1979.)

COURSE REPEAT POLICY

A graduate student is allowed to repeat at most one course in his/her major or emphasis area and one other course in his/her degree program. Although the original course and grade remain on the transcript, the last grade earned replaces the old grade and credit and is the only grade that will count in computing the grade point average. Courses may be repeated only once.

Students who are on probation when admitted to a degree program, or who are placed on probation when they have less than an overall 3.00 grade point average, must attain a 3.00 overall grade point average with the next 12 graduate level credits attempted at this institution in order to be returned to good standing or be dropped from that degree program. This includes graduate courses that are repeated. This course repeat policy may be used only within the 12 credit limitation total, as indicated here and in the previous section on “Probation Due to Grade Deficiencies” on page 10, as students work toward gaining or returning to good standing status. Furthermore, students who have been dropped from a degree program may not use the repeat policy for the purpose of readmission to that degree program. (Policy passed by the Graduate Council on November 3, 1977.)

The Graduate Studies Committee of the College of Business and Economics has set a somewhat more restrictive course repeat policy. Check with the major or emphasis department in the college on this matter when considering a course repeat and/or with Dr. Karl Fraedrich, Associate Dean, Room #4033, Carlson Hall, 414-472-1945.
PROGRAM PREREQUISITES

The following degree programs are approved by the governing agencies of the University of Wisconsin System and by the North Central Association.

Students entering the various majors or emphases offered should have completed work in the major or emphasis field as follows: (These represent minimal requirements. Other requirements are stated in the description of each degree program.)

BUSINESS EDUCATION. Undergraduate major in business education for the Master of Science in Teaching program. Undergraduate major in business administration or the equivalent for the Master of Arts in Teaching program.

COMMUNICATIVE DISORDERS. Entering students who have not received a baccalaureate degree in communicative disorders are required to supplement their academic preparation until it is comparable to an undergraduate major in communicative disorders prior to admission to the graduate program.

MASS COMMUNICATION (JOURNALISM). At least 15 credits in the area of emphasis (journalism and/or radio-television film) for regular admission to the program. Individuals who have not completed the 15 credits of course work will have their transcripts and relevant experience individually evaluated to determine whether their backgrounds are acceptable or if additional course work is required.

SPEECH COMMUNICATION. Undergraduate program in speech communication or speech communication and theatre which totals at least 20 semester hours and is appropriate to plans for future academic study.

ELEMENTARY EDUCATION. Undergraduate major in elementary education with certification to teach at the elementary level.

EMOTIONALLY DISTURBED. Students with a bachelor’s degree in a non-teaching area are required to enroll in additional appropriate courses prior to regular admission to this program.

HISTORY AND SOCIAL STUDIES. Thirty-four undergraduate credits from history and social studies and consent of the department of emphasis.

JUNIOR HIGH TEACHERS-General Science Emphasis Only. Certification to teach in either elementary or secondary schools is required for admission to the program. Requirements differ for those certified for elementary and secondary teaching. A total of at least 30 graduate credits is required.

Persons completing the program must fulfill State Department of Public Instruction certification requirements to teach science in junior high school. Undergraduate and graduate credits can be counted toward these certification requirements. Persons entering the program without a science major or elementary certification may have to take work beyond the minimum number of credits in the program to meet the certification requirements. In addition to the certification requirements in science, the following specific courses are required:

Conversion of Secondary Teachers to Junior High Teachers.

Persons already certified to teach in secondary schools are required to take the following courses:

470710 Curriculum in the Secondary Schools - 3 credits or
434775 Junior High Curriculum - 3 credits
423678 Adolescent Development - 3 credits or
840732 Seminar in Adolescence - 3 credits
421650 Introduction to Guidance - 3 credits
432764 Developmental Reading - 3 credits or
470665 Developmental Reading in the Secondary Schools - 3 credits
424740 Seminar in Techniques of Educational Research - 3 credits is required
Conversion of Elementary Teachers to Junior High Teachers

Persons already certified to teach elementary school are required to take the following courses:

- 430775 Junior High Curriculum - 3 credits
- 423703 Psychological Foundations of Education or
- 840732 Seminar in Adolescence - 3 credits
- 424740 Seminar in Techniques of Educational Research - 3 credits (required)

**Science Requirements:** At least 15 credits must be taken in graduate courses in the area of general science. This may include a 3-credit graduate course in the teaching of science, such as 470629—Teaching Science in Secondary Schools, which would emphasize junior high science curricula, as well as graduate courses in science from the following four areas: biology, chemistry, physics and earth/space science (geology, meteorology, astronomy, physiography, and oceanography). Science course work must be selected so that the total of the candidate's undergraduate and graduate course work in science consists of at least:

1. 14 credits in each of two of the following sciences: biology, chemistry, earth science and physics

2. 10 credits in each of the remaining two sciences

3. 6 credits selected from any of the aforesaid sciences.

A conservation course and at least 6 credits of mathematics must also have been included in either the undergraduate or the graduate program. Certification to teach in either elementary or secondary schools required for admission to this program.

**Human Relations Requirement:** See Page 14 (Wisconsin Department of Public Instruction)

**Degree Program Options:** The student, in consultation with his/her adviser, will select one of the following options to fulfill the general degree requirements. In options 2 and 3, a minimum of 30 approved credits is required.

1. Completion of 36 semester credits of course work.

2. Comprehensive Examination Option. The written examination will cover all science course work taken.

3. Thesis Option. The writing and defense of a thesis. Up to 6 credits may be applied toward completion of the degree.

**LANGUAGE AND LITERATURE** (English Emphasis) At least 20 semester hours in the area of emphasis.

**LEARNING DISABILITIES.** Candidates must be certified elementary or special education teachers (could take secondary level teachers under some circumstances) and have two years of successful teaching experience.

**MENTAL RETARDATION.** Certification to teach. Students with a bachelor's degree in a non-teaching area are required to enroll in additional appropriate courses prior to regular admission to this program.

**MUSIC.** Undergraduate major in music with approximately 50 per cent of the work in music, including basic musicianship and performance.

For diagnostic and counseling purposes, an audition and written examination are required.

**READING.** Certification to teach.

**SCHOOL BUSINESS MANAGEMENT.** Undergraduate major in business education, business administration or the equivalent.

**SCHOOL PSYCHOLOGY.** In addition to the general admission requirements of the School of Graduate Studies, the following requirements are prerequisites for admission to the program: 15 hours of undergraduate credit in psychology, including 840215—Basic Statistical Methods; 840331—Psychology of Childhood or 840332—Psychology of Adolescence; 840304—Psychology of Personality; 880424—Human Learning; 840345—Behavior Disorders; an autobiographical letter; three letters of recommendation from persons familiar with the candidate's
academic and personal qualifications; and a personal interview with members of the school psychology committee.

Requirements for School Psychologist Certification: All of the above course work, plus 12 additional credits in areas relevant to school psychology, plus a year of satisfactory supervised experience, and letters of recommendation from the Director of the School Psychology Training Program in consultation with the school psychology committee and the supervisor(s) of the student's internship.

Human Relations Requrement (Wis. D.P.I.) See page 14.

SCIENCE AND MATHEMATICS. At least 15 credits in one subject area of specialization.

COUNSELING AND GUIDANCE. The general admission requirements of the School of Graduate Studies and possession of the bachelor’s degree. A personal interview, as scheduled with a member of the Guidance and Counseling faculty, is required.

MASTER OF EDUCATION - PROFESSIONAL DEVELOPMENT

a. A baccalaureate degree is required
b. Two years of teaching experience is required
c. GPA requirements are the same as current requirements for existing programs

MASTER OF BUSINESS ADMINISTRATION

a. Bachelor's degree from an accredited institution.
b. Satisfactory score on GMAT and an undergraduate g.p.a. which will meet the admission policy formula when combined with the GMAT score. (See p. 43)

MASTER OF SCIENCE—ACCOUNTING

Same as for the M.B.A. degree program.

MASTER OF SCIENCE—SAFETY (see p. 53)
CERTIFICATION TO TEACH

IN THE M.S.T. PROGRAM. The Master of Science in Teaching degree is designed for certified teachers only. Certification to teach in the area of the graduate major or emphasis is a prerequisite for admission to a program leading to the M.S.T. Certification to teach in appropriate areas in Wisconsin schools is granted by either the State Department of Public Instruction or by the State Board of Vocational and Adult Education. Certification to teach in other states is acceptable for admission to the program but does not guarantee certification in Wisconsin.

HUMAN RELATIONS REQUIREMENT. All professional school personnel who receive INITIAL licenses from the Wisconsin Department of Public Instruction after July 1, 1977, must complete a program in human relations [Wis. Adm. Code, section PI 3.03 (1)]. For further information concerning this requirement, students should consult their advisers or the Director of Human Relations, 2031 Winther Hall, UW-Whitewater.

DEFICIENCIES

If the major or emphasis department finds that a student lacks the proper background for graduate studies, it may specify that deficiencies be made up even though the student has met the minimum prerequisites as stated in the section on prerequisites. In some cases, these deficiencies may have to be made up by registering in undergraduate courses which would not be counted toward completion of the master's degree.

REGISTRATION, MAXIMUM LOAD

A schedule of graduate courses is published before the beginning of each term and contains complete instructions for registration for a particular term. Usually, students are not admitted to a graduate course after the first week of classes in a term.

During a summer session, a graduate student in good standing may register for a maximum of 9 credits, and a student on probation may register for a maximum of 6 credits provided that he/she registers for the full eight-week summer session. Students registering for less than the full summer session may register for 1 credit for each week attended plus 1 additional credit, provided that the total registration does not exceed the maximum stated in this paragraph. The University does not encourage students to enroll in more than 9 credits. Any student who needs to carry more than 9 credits should counsel with the appropriate dean's office of his/her major or emphasis pertaining to this matter. During a semester the maximum registration is 15 credits. Students on probation are advised to limit their maximum registration to 12 credits or less.

The University reserves the right to cancel classes that have insufficient registration and to close enrollment in classes which are filled to capacity.

TRANSFER OF CREDIT

(Policy reviewed by Graduate Council on Nov. 3, 1977)

Graduate level work completed at other accredited institutions and in University of Wisconsin System Extension courses may be transferred to the University of Wisconsin-Whitewater to apply toward a graduate degree subject to the following provisions:

1. Credit in courses must carry a grade of B or higher.
2. Credits in courses to be transferred must be applicable to the student's proposed graduate degree program at Whitewater.
3. A maximum of nine credits may be accepted from other accredited graduate institutions.
4. No credit will be accepted in transfer for a correspondence course.
5. Academic departments may or may not include questions for the major or emphasis area comprehensive examination for the master's degree from courses accepted in transfer to Whitewater. The student should contact his/her major or emphasis department about this matter.

6. At least one graduate-level course offered by UW-Whitewater must have been completed before a request for transfer of credit from another university can be processed (Graduate Council Policy - Feb. 10, 1977).

7. Nothing in this statement shall be interpreted as restricting the number of credits which may be taken at other institutions under specific consortium arrangements which may be entered into by the University (e.g. SWAP-CON—Southern Wisconsin Allied Programs Consortium).

IMPORTANT: The student wishing to transfer credit should complete a form available at the Graduate Office and must provide transcripts if they are not already on file. Applications for transfer of credit will be accepted and processed when the student is enrolled in a degree program and has completed at least one graduate-level course offered by UW-Whitewater. (Graduate Council Policy - Feb. 10, 1977). The acceptance of any graduate course work taken prior to admission to a degree program, including course work as a NCFD, toward fulfilling requirements of a specific degree program is at the discretion of the major or emphasis department offering the degree program. Only graduate students admitted to and enrolled in a graduate degree program may request a transfer of credit. NCFD students may not request a transfer of credit.

GRADING (A B C D F)

Grading is based on a 4.00 system with a grade of "A" providing four grade points per credit. An average of 3.00, "B", is required to remain in good standing as a graduate student. If an instructor feels that a good reason exists, a grade of "I" (Incomplete) in a course may be given at the end of the term. An incomplete grade that has not been made up at the end of a calendar year following the term that it was given becomes a failing grade, except when deferred by faculty request due to student illness or other reasonable and good cause. When an incomplete grade is given, a contract form is completed and signed by both the student and the instructor outlining the conditions necessary for completion of the course work. Both the student and the instructor will have a copy of the contract indicating the deadline for completion.

A progress (P) grade is given to report only thesis and teacher residency credit. Successful completion of the thesis or residency credit will change the "P" grade to a regular letter grade (e.g., A-B, etc.) when completion of the thesis or residency credit is accomplished. It is the instructor’s responsibility to report a grade to the Registrar.

Finally, an "N" grade (no grade) which appears on a graduate transcript is treated like an "F" grade when determining the overall grade point average of a student. The Registrar will assign an "N" grade for the course if an instructor does not report a grade for a student. The student is responsible for clearing the record relative to this grade and must contact the instructor.

PASS-FAIL POLICIES

1. Any workshop may be taken on a pass-fail basis.

2. Departments may designate other courses which may be taken pass-fail; these will be indicated in advance in the graduate timetable.

3. The decision on whether a course taken on pass-fail will count in a degree program will be made by the major or emphasis department or by the college in case of college degree requirements (e.g. M.B.A. degree). Students in a degree program or contemplating entering such a program are advised to get the appropriate permission prior to taking a pass-fail course.

4. A student who is registered pass-fail will receive a grade of S or F. Each instructor will decide what constitutes pass. It is recommended that instructors tell their students what will constitute pass before the deadline for changing registration.
5. The deadline for changing registration is the third class meeting. After that, a student's registration may not be changed from pass-fail to regular grade or vice versa.

6. An "F" grade will count in calculating the student's grade point average. An "S" grade will not count.

(Policy passed by the Graduate Faculty September 24, 1974.) (Policy reaffirmed by the Graduate Council, December 12, 1979)

CHANGES IN REGISTRATION, CANCELLATION OF COURSES OR WITHDRAWAL FROM SCHOOL

Rules of the University apply as stated in the Bulletin and in the regular academic term timetables. Changes from one course to another may not be made after the first week of the term. A course may be cancelled during the first nine weeks of the semester and up to 50 per cent of a course completion in summer school, and up to 50 per cent of a course completion for a short-term course in the regular semester. In cases of withdrawal from school, the refund regulations as stated in the current University timetables and course schedules apply.

It is extremely important that a graduate student who wishes to change registration, add or cancel a course, or withdraw from school, obtain and complete the proper forms available from the School of Graduate Studies. Failure to do this may result in a failing grade for non-attendance. If necessary, the forms may be obtained by mail or requested by telephone.

FEES

Fees are set by the Board of Regents of the University of Wisconsin System and are subject to change without notice. Fees shown are those in effect at the time this bulletin was prepared. The fees include University Center and activity fees, but do not include textbook rental fees which are not paid by graduate students. The cost of textbooks, if assigned, differs widely in various classes but may be expected to total $15-20 per class. Graduate students who enroll in one or more undergraduate courses as part of their credit program (e.g., student teaching, etc., under the M.A.T. program) along with graduate courses in a particular term are required to pay graduate fees for this undergraduate course credit. UW-System regulations indicate that fees charged are determined by the classification of the student (graduate, undergraduate) and not by the level of course work in which he or she will enroll.

A graduate student who wishes to receive only undergraduate credit must obtain forms from the Office of Admissions, Baker Hall, and seek admission as an undergraduate. This will automatically withdraw the student from the graduate school and change classification to undergraduate status. Upon proper application to the Graduate School, a student may reapply for graduate status if his/her plans change at a later date.

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<tr>
<th>CREDITS</th>
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<th>NON-RESIDENT</th>
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All fees are subject to change without notice in accordance with Board of Regents policy.

A graduation fee of $16.00 is charged. Payment should be made to University Accounting Office, UW-Whitewater.
TEXTBOOKS

Graduate students pay no textbook rental fees and are expected to purchase texts and other instructional materials that are assigned in courses. Students should check with the instructor of the course for the needed materials and textbooks. Since text requirements differ widely, no attempt is made here to estimate textbook purchase costs. The Textbook Library is not authorized to sell or to rent books to graduate students. The University Bookstore (Moraine Hall) sells graduate texts and other course materials.

RESIDENCY REGULATIONS

Any student who has been a bona fide resident of the State of Wisconsin for one full calendar year prior to the beginning of the semester of enrollment shall be exempt from payment of nonresident tuition. In determining bona fide residence, eligibility for voting in the state, motor vehicle registration, self-supporting status, and filing of Wisconsin income tax returns shall be considered. In addition, nonresident members of the Armed Forces (including their families) who are stationed in the state, shall be entitled to exemption from nonresident tuition. Any student who is a graduate of a Wisconsin high school and whose parents are bona fide residents of this state for 12 months next preceding the beginning of any semester or session for which the student registers at a university or center or whose last surviving parent was a bona fide resident of this state for the 12 months preceding his death is entitled to the nonresident tuition exemption.

A student from another state who is in this state principally to obtain an education will not be considered to have established a residence in Wisconsin by virtue of attendance at an educational institution.
GRADUATION REQUIREMENTS

General requirements for graduation are printed here. Specific requirements for each degree are stated with the description of that degree program and these may vary from the basic general requirements.

**CREDIT REQUIREMENTS.** A minimum of 30 graduate credits distributed according to the requirements of the specific program being followed is required by the School of Graduate Studies. If more than 30 credits are required in a particular program, this will be stated in the program description contained in the Bulletin. Undergraduate courses taken to make up deficiencies in background or in supervised teaching will not be counted toward the number of graduate credits required for the degree. A minimum of 3.00 g.p.a. (B) in all graduate course work taken at Whitewater, as well as in all graduate level courses taken in the student’s major or emphasis is required for graduation.

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<tr>
<th>Name of Degree</th>
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<th>Interpretation of Major or Emphasis</th>
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<tbody>
<tr>
<td>M.S.T.</td>
<td>Elementary Education</td>
<td>Only graduate level courses with prefix 43 — Elementary Education</td>
</tr>
<tr>
<td>M.S.T.</td>
<td>Secondary Education, Post Secondary Education (e.g. vocational-technical institutions)</td>
<td>Academic emphasis indicated (Academic Dept. number prefix) courses in business education, economics, geography, history, political science, sociology, English, biology, mathematics, physics, music, general science</td>
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<tr>
<td>M.A.T.</td>
<td></td>
<td>Academic emphases are same as in the M.S.T. program.</td>
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<tr>
<td>M.S.Ed.</td>
<td>Reading</td>
<td>15- to 19-credit core of graduate reading courses.</td>
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<tr>
<td>M.S.Ed.</td>
<td>School Business Management</td>
<td>Core of graduate courses as indicated in business and S.B.M. area.</td>
</tr>
<tr>
<td>M.S.Ed.</td>
<td>School Psychology</td>
<td>Entire program, as indicated in Bulletin format.</td>
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<tr>
<td>M.S.Ed.</td>
<td>Special Education</td>
<td>The major is considered special education and NOT the emphases of mental retardation, emotionally disturbed, learning disabilities, general and early childhood.</td>
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<tr>
<td>M.E.P.D.</td>
<td>Individual Professional Goals</td>
<td>The major is the entire planned program of the student made with his/her adviser and approved by the Review Committee to best fit the student’s individualized graduate program for professional development goals.</td>
</tr>
<tr>
<td>M.S.</td>
<td>Safety Education</td>
<td>Only graduate courses with 46 prefix.</td>
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<tr>
<td>M.S.</td>
<td>Communication</td>
<td>Academic emphases (666) speech communication, (662) communicative disorders, (664) mass communication (journalism).</td>
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</table>
M.S.  Guidance and Counseling  The major is the entire program and credits as indicated NOT the emphases in elementary school, secondary school, or vocational-general.

M.S.  Accounting  Entire program and credits as indicated in the Bulletin.

M.B.A.  Entire program as indicated in the Bulletin, MBA — NOT emphases in management, marketing, accounting, managerial economics, finance, business education, international business.

(Reviewed and Revised by the Graduate Council - Nov. 3, 1977)

SECOND MASTER’S DEGREE—UW-WHITEWATER. The following policy pertains to students who seek a second master's degree at UW-Whitewater (Policy Graduate Council - Dec. 2, 1970): At least one-half of the credits for the new degree must be taken in the new program.

CREDIT RESTRICTIONS (Workshops, Individual Studies, and Special Studies). Not more than 3 credits of Individual Studies may be carried in a single term. Not more than 4 credits in Individual Studies (Individual Studies Policy adopted by Graduate Faculty, May 9, 1974) nor more than a total of 9 credits of individual studies, workshops, or special studies (not more than 6 credits), may be applied toward the completion of the degree. The 9-credit limitation is to be construed as an upper limit. Individual departments retain the prerogative to allow fewer than 9 hours to apply toward their respective graduate degrees (revised policy passed by the Graduate Council - Nov. 3, 1977). EXCEPTION: M.E.P.D. students — Refer to program Guidelines.

INSTITUTES. By action of the Graduate Faculty on December 13, 1972, institute courses carrying graduate credit, usually with extramural funding, i.e., N.S.F., comparable in content and laboratory activities to any other regularly scheduled on-campus course, are not to be included in the 9 credit limitation set for workshops, individual studies, special studies, etc., indicated in the preceding paragraph pertaining to credit restrictions. A special course number (—797I) is assigned for institutes.

GRADUATE CREDIT FOR TRAVEL ABROAD. "A proposal for a graduate workshop in a foreign country should be judged on the same merits as those for graduate workshop courses to be offered in the State of Wisconsin." (Policy — Graduate Faculty — May 16, 1972.)

APPLICATION FOR CANDIDACY AND TIME LIMIT. Students who have completed not less than 12 to 15 credits of graduate work and are in good standing are required to file an application for candidacy form obtained from the Graduate Office. All course deficiencies must have been removed and all subject matter prerequisites in the area of specialization must have been met by the student. This is intended primarily to determine the student's plans for course work to complete the degree. The student has seven years to complete the degree from the date he/she is admitted to the degree program. Any extension of this time requires action by the Graduate Council and must be based on good cause, such as unusual health conditions, fulfillment of military obligation, or other extenuating circumstances that the local Graduate Council may recognize. Any action requesting an extension of time for completion of a master's degree program shall be initiated by the student to his/her major or emphasis department. The department, in turn, will present recommendations on such request for extension of time to the Graduate Council for action (policy — Graduate Council — Sept. 11, 1974).
DEGREE PROGRAM OPTIONS — GENERAL REQUIREMENTS. At the discretion of the major or emphasis department, the following options are available to the graduate student:

Plan I. A minimum of 30 credit hours of course work, including a thesis of one to six credits.

Plan II. A minimum of 30 credit hours of course work, including a comprehensive examination.

Plan III. A minimum of 36 credit hours of course work. MST, MAT, MBA MEPD, MS (Guidance and Counseling) only. In the MST/MAT programs, this option is not open to those students who have started a thesis or who have failed a comprehensive examination. Since this option is at the discretion of the major or emphasis department, MST/MAT students should check with the major or emphasis department relative to election of this option.

A major or emphasis department may set additional requirements for any plan. The graduate student should check with his/her department concerning the options available, since departments differ relative to these degree program requirements and options.

PLAN I. A minimum of 30 credit hours of course work including a thesis for which up to six credits may be earned in the major or emphasis field. This credit may be applied toward the completion of course requirements in the major or emphasis. An oral thesis examination is required.

Graduate students electing Plan I (thesis) in any degree program must formally enroll and pay fees for at least one semester credit of thesis (799) and not to exceed six credits of thesis. Enrollment and fee payment for thesis credit is done only once even though the thesis may require more than one term to complete. The amount of thesis credit is determined in conference with the student’s thesis adviser and should be agreed upon with the adviser before paid registration for thesis credit.

Students may elect in a succeeding term to increase the number of thesis credits that were originally agreed upon and for which fees were paid. However, the increase in thesis credits, when added to the original agreement, must not exceed the maximum of six credits allowed for a thesis.

Theses submitted under Plan I: Each thesis is expected to contain evidence of research on the part of the student and must be submitted in a form and quality specified by the School of Graduate Studies. The School of Graduate Studies may specify the style of documentation, organization and arrangement of theses. However, these standards are normally left to the respective departments since practices may differ in various disciplines. The degree is not conferred until this requirement has been met. The thesis should be submitted in final form, along with the abstract of thesis and the “Completion of Thesis” form, by the end of the term in which the student plans to graduate. A thesis progress report is required by the Graduate School office about a month prior to the final submission and the taking of the oral examination on the thesis.

INFORMATION FOR GRADUATE ADVISERS AND INSTRUCTIONS FOR GRADUATE STUDENTS WRITING A THESIS. The School of Graduate Studies believes there is a need for some simple codification of the stylistic and mechanical problems involved in putting a thesis into final form. The School of Graduate Studies recommends that a student writing a thesis use as a guide William Giles Campbell’s Form and Style in Thesis Writing manual (latest edition), unless his major or emphasis department specifically designates that he/she follows some other generally accepted manual such as The Mila Style Sheet, Publication Manual of the American Psychological Association or Kate L. Turabian’s A Manual for Writers of Term Papers, Thesis, and Dissertation.

All of these publications may be purchased at the University Bookstore. (Moraine Hall)

General Information. The graduate student should deliver the original and first copy of the thesis to the School of Graduate Studies, Roseman 2047. These should be unbound and unpunched and should be delivered to the Graduate School in a box or in a heavy Kraft envelope.

Abstract. An abstract of the paper should be prepared and the original and first copy delivered to the Graduate School with the thesis. Abstracts should be handed in loose. The abstract, which also requires a title page, consists of (1) a short statement of the problem; (2) a
brief exposition of the methods and procedures used in gathering the data; and (3) a condensed summary of the findings of the study. Abstracts should contain 300 to 500 words and should approximate two typewritten pages double spaced. Students may obtain an instruction sheet for writing the abstract from the Graduate School.

Completion of Thesis Form. This form should be obtained from the Graduate School, completed by the student, signed by the thesis committee chairperson, and delivered to the Graduate School by the student with the completed paper.

Paper. Theses should be typed on good quality bond paper, sixteen- or twenty-pound weight and 8½ x 11 inches in size. At least 50 per cent rag content should be used. Do not use erasable bond paper. Copies of the original may be carbon or photocopy.

PLAN II. A minimum of 30 credit hours of work, including a written and/or oral comprehensive examination, is required.

Comprehensive Examination. Passing comprehensive examinations in the major or emphasis field is a requirement for the completion of the master's degree under this plan. Examinations may be oral and/or written, at the discretion of the major or emphasis department. Written examinations are intended to take approximately four to five hours. Comprehensives are given once each term. Questions may cover any graduate work done in the major or emphasis, including credits transferred from another institution. Comprehensive examinations are graded either "passed" or "failed."

Miscellaneous Information - Plans I and II

A major or emphasis department may set additional requirements for both Plans I and II. The student formally declares his/her option for Plan I by registering for—799 Thesis Research. The student declares Plan II when submitting his/her application to take the comprehensive examination. The student shall have failed Plan I at any time his/her thesis committee formally indicates failure; he/she shall have failed Plan II when his/her comprehensive exam is adjudged a failure.

The student shall consult his/her adviser early in his/her studies to determine which plan best meets the needs of the student. Plan I may be advised for those who wish to seek depth in an academic area, while those who prefer a breadth of knowledge may select Plan II. Changing options after a plan has been declared penalizes the student who has either prepared a thesis or invested his/her time in preparing for the comprehensive examination. In relation to changing options, the Graduate Faculty has adopted the following policy:

Academic departments which offer Plan I and Plan II shall permit the student to change options only once. However, the change must occur before the student has failed twice in his/her first choice of plans.

No graduate student may take an oral or a written comprehensive examination (Plan II) or an oral examination on a thesis (Plan I) unless he/she has a minimum grade point average of 3.00 (B) (4.00 scale) in both the overall graduate level credits earned at UW-Whitewater and in the major or emphasis area, and is in good standing status. Furthermore, any "incomplete" (I) grades must be cleared by the student before he/she may take either the comprehensive examination (oral or written) and/or the oral examination on the thesis under Plan I or Plan II.

In general, a graduate student may not plan to take the oral or written comprehensive examination (Plan II) and/or the oral examination on the thesis (Plan I) until the term in which he/she expects to graduate. The only exceptions to this policy may be those students who are planning to move from the state, having nearly completed their course work, and who need to complete this course work and the examination to meet the degree requirements. Also, graduate students who have completed all graduate course requirements, excluding thesis credit, such as those about to do the semester of student teaching in the M.A.T. program are to be considered exceptions.

The major or emphasis department will be responsible for certifying that the requirements for graduation have been met by the student.
APPLICATION FOR GRADUATION. An application form for graduation must be obtained from the School of Graduate Studies. This form must be completed and returned during the first week of summer school or the first month of the semester in which the student plans to graduate. A graduation fee of $16, subject to change, should be paid with the filing of the request for graduation. Payment of this fee should be made directly to University Accounting, UW-Whitewater. This fee covers cost of diploma and the rental charge for the cap, gown, and hood. Attendance at the graduation ceremony is voluntary; however, the $16 must be paid regardless of attendance or nonattendance at the commencement ceremony. This fee should be designated “graduation fee” and made not later than one month before the date of graduation. If the student fails to complete degree requirements, the graduation fee is not paid again; however, a new application form for graduation must be obtained and filed by the student with the School of Graduate Studies.

RESIDENCE REQUIREMENTS. The School of Graduate Studies requires that a master’s degree candidate earn a minimum of 30 credits of which at least 21 credits must be earned from the University of Wisconsin-Whitewater. Individual degree programs may have requirements beyond the above residency requirements. Nothing in this statement shall be interpreted as restricting the number of credits which may be taken at other institutions under specific consortium arrangements which may be entered into by the University.

Off-campus (evening and Saturday) courses are considered residence credit if taught by a qualified instructor employed by UW-Whitewater.

Work taken at Pigeon Lake in the biological sciences is designated as residence credit.

GENERAL NOTICES

The information contained in this bulletin supersedes previous publications. Assurance cannot be given that courses listed here will be given in any specific term. Courses and programs approved after the publication of this bulletin may be offered even though they are not listed here. Fees are subject to change without notice.

Graduate students are responsible for the meeting of terms and conditions specified here for completion of the degree and exceptions to the regulations may not be made except through actions taken by authorized committees of the graduate faculty or the entire graduate faculty in a regular meeting.

The University of Wisconsin-Whitewater reserves the right not to release a student’s records or any information based on the record when the student has failed to discharge any obligation, financial or otherwise, to the University.

A graduate student may choose to follow either the rules and regulations of the graduate school as published in the current Bulletin or, if it is to his/her advantage, to follow the rules and regulations of either the older bulletin under which he/she was admitted to the graduate school or any subsequent bulletin. It is not possible to “split” bulletins and use rules from each for the advantage of the student. The student must follow the rules of only one bulletin (Graduate Faculty Policy - Dec. 2, 1971).

POLICY ON FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT. In accordance with the Family Educational Rights and Privacy Act of 1974, the University of Wisconsin-Whitewater has established a written institutional policy and adopted procedures covering the privacy rights of students. The institution maintains the confidentiality of student education records and does not release any of these records except as provided by the law. Inquiries regarding specific items in the policy may be obtained from the Office of the Registrar or the Office of the Associate Dean of Student Life.

*Students receiving such credit pay on-campus fees. Faculty instructional allocation may be a part of the on-campus teaching load even though the course may actually be held away from the campus in another community.*
AFFIRMATIVE ACTION POLICY. The University of Wisconsin-Whitewater is committed to an affirmative action plan and provides access to equal opportunities for all persons regardless of age, sex, color, national origin, creed, affiliation, or handicap in its educational programs, activities and employment policies.

COUNSELING OF GRADUATE STUDENTS. At the time of admission to a graduate program, a graduate student is assigned an adviser by his/her major or emphasis department. In most cases, the adviser is a faculty member within the major or emphasis department who is a qualified member of the graduate faculty. Students who enter the graduate school without declaring a major or emphasis (NCFD students) are advised by the graduate dean or by an appropriate graduate faculty member of the student’s choice. The School of Graduate Studies reserves the right to assign students to advisers outside their major or emphasis department if this becomes necessary due to the number of students involved.

Advising for course selection is nonstructured and student initiated. Graduate students are encouraged to consult the graduate school Bulletin and with their assigned adviser and/or departmental chairperson before registration if there are questions concerning course selection. However, advisers will be available for consultation at registration to assist students.

STUDENT APPEAL PROCEDURE. An appeal by a graduate student relative to a problem involving graduate policies, procedures, or other academic matters is initiated by the student through his/her adviser. Appropriate appeal procedures will then be followed as established by the individual college and/or academic department within the college.

Appeals involving “NCFD” graduate students, who have no assigned adviser, will be initiated by the student to the college or academic department where the problem occurs. In cases of question, the student should contact the graduate dean for appropriate direction concerning appeal.

Appeals involving policy statements are resolved at the unit level issuing the policy statement. That is, appeals involving graduate school policy, although usually initiated by the student through his/her academic department or college, will be resolved by the Graduate Council. Appeals involving college or academic department policy will be resolved by the appropriate unit within the college. In cases when an appeal involves a college or academic department policy that supersedes graduate school policy, the appeal will be resolved by the appropriate unit within the college. (Policies passed by the Graduate Council - Nov. 3, 1977.)

LEARNING RESOURCES

Learning Resources provides a variety of library, archival, and instructional media to meet the specialized and intensive information needs of graduate students and their faculty. Nearly a quarter of a million books, a fifth of a million government documents, and several thousand maps are in the permanent collections, along with audiovisual, archival, and other materials. Nearly two thousand periodicals are received. In the development of these collections, particular attention is paid to the needs of graduate students.

Learning Resources professional staff work closely with teaching faculty to select, acquire, and provide instructional resources and to assist students in finding the information they need. Night and weekend hours of operation are particularly helpful to part-time and commuting students.

The Documents and Research Collections Service of Learning Resources is a limited federal depository, and provides publications of such agencies as the Office of Education, census reports, transcripts of hearings by congressional committees, scientific publications of the National Oceanic and Atmospheric Administration, NASA, and the Smithsonian Institution, reports of numerous federal regulatory agencies, and many federally published periodicals. It also receives Wisconsin government documents and publications of the United Nations and other international organizations and is a depository of the Defense Mapping Agency. As an Area Research Center of the State Historical Society of Wisconsin, it provides on-campus access to the massive manuscript, archival, and newspaper holdings of the Society.
Audiovisual Resources, another part of Learning Resources, supports teaching and learning by providing instructional equipment for use in the classroom. The Learning Materials Center provides a wide range of curricular and instructional materials of interest to graduate students in education, and houses the audiovisual library.

The Information and Instruction Service helps students with the location of information on a particular subject and the use of the large law collection, corporate annual reports, Educational Resources Educational Resources Information Center documents, numerous indexes to periodicals, and other references. Furthermore, reference librarians will help students use computerized bibliographical services which search thousands of sources for information on a specific topic. When students' information needs cannot be met locally, the Information and Instruction Service can usually obtain required materials through inter-library loan.

Learning Resources supports graduate study whether it is conducted on or off the campus. Collections of books for use in business classes have been established in the libraries of the UW-Rock County and UW-Waukesha County Centers. Reference service is available by mail or telephone and borrowed materials may be either renewed or returned by mail. For more information on these or other Learning Resources services, consult the Circulation Service.

COMPUTER CENTER

The Computer Center, located on the main floor of Hyer Hall, provides several services of interest to graduate students. One is the library of statistical routines for analysis of research project data both in the batch and time-sharing modes. In the batch mode, both the BMDP and SPSS statistical packages are available. For small data sets similar programs are available in a time-sharing mode.

Consultation services are available for those who need help in developing a code book, need instruction on the operation of a keypunch, need help in interpreting the documentation or need help in interpretation of the output. Keypunching services are extremely limited but are available on a time-available priority and are billable. There is no charge for machine time, cards and use of the keypunches if the user does it himself and the project is directly related to a course of study. Information about any of these services can be obtained by calling the Computer Center (414-472-1325).

UNIVERSITY POLICE

PARKING. The University Police are responsible for Motor Vehicle registration and issuance of identification cards. All faculty, staff and students of the University are required to register their motor vehicles and pay appropriate fees to the University Police if they wish to use University owned and controlled parking facilities. They may purchase parking decals which permit them to park in any of the University controlled parking lots. Fees vary according to the period of time covered and are subject to change annually to reflect the cost of operation. The University maintains a number of metered parking lots where cars may be parked by paying the meter fee. These stalls do not require a parking decal, but you must pay the meter even if you have a valid parking permit. Free parking is available in the gravel lot adjacent to Williams Center. Guest parking permits are available from the University Police Office on Starin Road. A complete set of parking regulations may be obtained at the University Police Headquarters, 735 Starin Road, free of charge. Information and parking permits are available 24 hours a day. Call 414-472-4660 for additional information.

ID CARDS. The University Police also issue student and faculty ID cards. The first card is free, however, there is a replacement charge of $2.00 for lost ID cards. The hours for obtaining an ID card are 8:00 a.m. to 4:00 p.m., Monday through Friday. If a graduate student is unable to come during these hours, special arrangements can be made with the University Police by
phoning 414-472-4660. IDs can be validated at University Police, Registrar’s Office, or at the main desk of the Library.

Business Office Hours
8:00 a.m. to 4:00 p.m.

Extended Hours for Registration
8:00 a.m. to 6:00 p.m.

PLACEMENT SERVICES

The services of the Placement Office are available to Graduate School students as the need may arise. Many students take advantage of these services as they explore career fields, develop career plans, prepare themselves for the job search and actually search for employment. The services include a library of career information, assistance in establishing a credential file, employment counseling and consultation, employment interview opportunities, frequent job listings and an employer referral system for the benefit of registrants.

For more information and registration procedures contact:

Placement Services
Library Building - Room 2002
DEGREE PROGRAMS
THE MASTER OF SCIENCE IN TEACHING DEGREE

The Master of Science in Teaching degree is offered for secondary, post-secondary (e.g. vocational-technical institutions), junior high and elementary teachers. Students in an elementary or secondary program must be certified to teach in the area of the graduate emphasis. Students may be admitted to the junior high program (general science emphasis) with certification to teach in the elementary or secondary schools. A minimum of 30 appropriate graduate credits, properly distributed, is required in the program. Students are required to pass a comprehensive examination in the emphasis field, or write and defend a thesis, or satisfactorily complete a 36-credit program. However, the "36-credit option" is offered at the discretion of the emphasis department. If the 36-credit option is to be considered by the student, he/she must check with his/her department of emphasis to ascertain if such an option is available. An emphasis department may set additional requirements; students should check on this.

THE MASTER OF SCIENCE IN TEACHING For Secondary and Post-Secondary (e.g. vocational-technical institutions) Teachers

The Master of Science in Teaching for secondary and post-secondary teachers (e.g. vocational-technical institutions) is offered in the following areas: Business education; history and social studies (with emphases in economics, geography, history, political science and sociology); language-literature area (with an emphasis in English); music (with an emphasis in either elementary or secondary music); mathematics and science (with an emphasis in biology, mathematics, or physics).

Requirements for the M.S.T. for Secondary and Post-Secondary (e.g. vocational-technical institutions) Teachers.

A minimum of 30 appropriate credits of graduate work distributed as follows:

**Group I Liberal Arts**
3-6 credits
These credits must be taken by the student in either liberal arts foundation courses that are offered in other than the emphasis area of study, or in liberal arts courses in academic areas other than the area of emphasis.

**Group II Professional Education**
6-9 credits

**Group III Courses in the Emphasis**
15-21 credits
These courses are intended to provide additional depth in the student's teaching field and to increase familiarity with new knowledge, problems, and trends.

**Research Course**
3 credits
A research course, either 424740 or an appropriate research course developed by the academic department, is required. The academic department may require the student to take a departmental research course in lieu of 424740. The student should check on this course with his/her emphasis department.

**Options for Completion of the Degree**
The completion of the degree includes three options as follows:

1. Writing and defense of a thesis for which 1-6 graduate semester credits may be given. An oral examination on the thesis is required.
2. The passing of a written and/or oral comprehensive examination in the emphasis field. (The student should check with the department of emphasis on this option as procedure varies among departments.)
3. At the discretion of the individual department, successful completion of (six) 6 appropriate additional graduate semester hours in the academic area of specialization; in effect, a 36-hour master’s degree. In this option, 18 of the 36 hours must be in courses open only to graduate students (700 level), except with the permission of an individual academic department to waive this requirement and with the permission of the Dean of the School of Graduate Studies. (Policy—Graduate Faculty, May 8, 1974.) This option is not open to those students who have started a thesis or who have failed a comprehensive examination. The student should check with the emphasis department relative to the availability of this option.

THE MASTER OF SCIENCE IN TEACHING FOR JUNIOR HIGH TEACHERS (General Science emphasis only)

Certification to teach in either elementary or secondary schools is required for admission to the program. Requirements differ for those certified for elementary and secondary teaching. A total of at least 30 graduate credits is required.

Persons completing the program must fulfill Wisconsin Department of Public Instruction certification requirements to teach science in junior high school. Undergraduate and graduate credits can be counted toward these certification requirements. Persons entering the program without a science major or elementary certification may have to take work beyond the minimum number of credits in the program to meet the certification requirements. In addition to the certification requirements in science, the following specific courses are required:

Conversion of Secondary Teachers to Junior High Teachers

Persons already certified to teach in secondary schools are required to take the following courses:
- 430710 Curriculum in the Secondary Schools—3 credits or
- 430775 Junior High Curriculum — 3 credits
- 423678 Adolescent Development — 3 credits or
- 840732 Seminar in Adolescence — 3 credits
- 431650 Introduction to Guidance — 3 credits
- 432764 Developmental Reading — 3 credits or
- 470665 Developmental Reading in the Secondary Schools — 3 credits
- 424740 Seminar in Techniques of Educational Research — 3 credits is required.

Conversion of Elementary Teachers to Junior High Teachers

Persons already certified to teach elementary school are required to take the following courses:
- 430775 Junior High Curriculum — 3 credits
- 420703 Psychological Foundations of Education or
- 840732 Seminar in Adolescence — 3 credits
- 424740 Seminar in Techniques of Educational Research — 3 credits (required)

Science Requirements: At least 15 credits must be taken in graduate courses in the area of general science. This may include a 3-credit graduate course in the teaching of science, such as 470629—Teaching Science in Secondary Schools, which would emphasize junior high science curricula, as well as graduate courses in science from the following four areas: biology, chemistry, physics and earth/space science (geology, meteorology, astronomy, physiography, and oceanography). Science course work must be selected so that the total of the candidate’s undergraduate and graduate course work in science consists of at least:

1. 14 credits in each of the two following sciences: biology, chemistry, earth science and physics.
2. 10 credits in each of the remaining two sciences.
3. 6 credits selected from any of the aforesaid sciences.
A conservation course and at least 6 credits of mathematics must also have been included in either the undergraduate or the graduate program. Certification to teach in either elementary or secondary schools required for admission to this program.

Degree Program Options

The student, in consultation with his/her adviser, will select one of the following options to fulfill the general degree requirements. In options 2 and 3, a minimum of 30 approved credits is required.

1. Completion of 36 semester credits of course work. This option is not open to those students who have started a thesis or who have failed a comprehensive examination.
2. Comprehensive examination option. The written examination will cover all science course work taken.
3. Thesis option. The writing and defense of a thesis. Up to 6 credits may be applied toward completion of the degree.

THE MASTER OF SCIENCE IN TEACHING FOR ELEMENTARY TEACHERS

Certification to teach at the elementary level is required for admission to the program. A minimum of 30 credits of graduate work is required for the degree. Course work will be distributed as follows:

A. A minimum of thirty semester hours of graduate credit is required.
B. A minimum of fifteen semester hours of graduate credit should be in courses open only to graduate students. (700 numbered courses)
C. The graduate semester hours must be distributed as follows:
   1. Eighteen to twenty-four hours in the area of elementary education.
   2. Six to twelve semester hours shall be in liberal arts foundations courses or other liberal arts courses.
D. A research course, either 424740, or an appropriate research course developed by the department, is required. The department may require the student to take a departmental research course in lieu of 424740.
E. The completion of the degree includes three options, as follows:
   1. Writing a thesis, for which up to six graduate semester credits may be given.
   2. Writing and passing a comprehensive examination in the elementary education field.
   3. At the discretion of the Department of Elementary Education, successfully completing six additional graduate semester hours; in effect, a 36 hour master's degree. In this option, 18 of the 36 hours must be in the courses open only to graduate students. This option is not open to those people who have started a thesis or who have failed a comprehensive examination.

Middle School Mathematics Emphasis: The University of Wisconsin-Whitewater departments of Elementary Education and of Mathematics have designed a flexible program for the middle school teacher of mathematics leading to the Master of Science in Teaching-Elementary Education degree.

During the past decades middle school mathematics has changed from a general review of arithmetic to a broad exploration of such mathematical topics as algebra, geometry and measurement, probability and statistics, problem solving and use of computers. It is important for the middle school mathematics teacher to have a comprehensive background in these topics.

The MST-Elementary Education-Middle School-Mathematics Emphasis program will provide the student with a comprehensive background in mathematics and will allow selection from many relevant elementary education courses designed to enhance the student's teaching techniques.
THE MASTER OF SCIENCE IN TEACHING — MUSIC

I. Requirements in music and music education courses:
   A. Kodaly Emphasis:
      21 credits in music education, including 150740 Seminar in Music Education Research Techniques, and 18 credits selected from the following:
      150759 Beginning Training in Kodaly Music Skills, 3 cr.
      150760 Intermediate Training in Kodaly Music Skills, 3 cr.
      150761 Advanced Training in Kodaly Music Skills, 3 cr.
      150762 Folk Music in the Kodaly Curriculum, 3 cr.
      150763 Principles of Kodaly for Choral Directors (elective) 3 cr.
      150764 History and Philosophy of the Kodaly Concept (required), 3 cr.
      150765 Methodology in the Kodaly Curriculum, 3 cr.
      150766 Advanced Methodology in the Kodaly Curriculum, 3 cr.
   B. General Emphasis:
      10 credits in music education, including 150740, Seminar in Music Education Research Techniques, 10 credits in music divided between the areas applied music, music theory, music history

II. Liberal Arts requirement: 3-6 credits

III. Professional Education requirement: 6-9 credits. Total credits: 30

IV. Other requirements: Option of comprehensive examination or thesis (1-6 cr.)
THE MASTER OF ARTS IN TEACHING DEGREE

The Master of Arts in Teaching degree is designed for persons who hold a bachelor's degree from an accredited institution but who lack the courses required for teacher certification. In a single program, it offers the master's degree, certification to teach in secondary schools, and post-secondary (e.g. vocational-technical institutions) schools, and an opportunity to strengthen or develop teaching areas. The program is offered only for training secondary and post-secondary (e.g. vocational-technical institutions) teachers. The Office of Directed Teaching must approve each application for admission to the program and requires an interview with the prospective student as part of the process of determining suitability for the teaching profession. The applicant should become thoroughly aware of the requirements for completion of the M.A.T. program and for certification to teach prior to the interview. This should be done through a study of the Graduate Bulletin and, if possible, through a conference with a member of the School of Graduate Studies staff or the chairperson of the emphasis department.

Should the applicant be unable to come to the campus for an interview at the time of application, admission on a tentative basis may be granted, but the Office of Directed Teaching may specify that actual admission awaits the interview.

A minimum of 30 graduate credits and 12 undergraduate credits in directed teaching and seminar is required for completion of the program. The requirements for certification to teach in secondary schools or post-secondary schools (e.g. vocational-technical institutions) must be met in order to receive the degree. In the event the applicant for the program has an undergraduate major for which there is not a demand for teachers, he/she will be advised to develop another major. This may require additional work as an undergraduate in the new major area in order to qualify for admission as a graduate student in that area. Such undergraduate work would not be counted toward the master's degree.

For certification, a major of 34 credits in the field is required. It is strongly recommended that a minor of at least 22 credits be completed in addition. In completing the major and minor, the student may count both graduate and undergraduate credits.

The Master of Arts in Teaching is offered with emphases in the following areas: Business education; history and social studies (with emphases in economics, geography, history, political science, or sociology); language-literature area (with an emphasis in English); music; mathematics and science (with emphases in biology, mathematics, or physics). The degree is offered only for training as secondary or post-secondary teachers (e.g. vocational-technical institutions).

REQUIREMENTS FOR THE MASTER OF ARTS IN TEACHING*

1. Graduate credit in professional education—12 credits minimum to include appropriate courses in educational psychology, developmental reading in the secondary school, an appropriate course to meet the human relations requirement and a methods course in the emphasis area. (Since several states require measurement and evaluation for certification to teach, in addition, it is recommended, but not required, that the student take a measurement course.)

2. A research course—either 424740, Seminar in Techniques of Educational Research, or an appropriate research course offered by the emphasis department, is required. The emphasis department may require the student to take a departmental research course in lieu of 424740. An emphasis departmental research course will be counted as part of the 18-24 credits specified in number 4 below.

3. Undergraduate credits in Directed Teaching and Seminar — 12 credits.

*Candidates for certification to teach any subject in the science and/or social studies area must fulfill the following law: Wisconsin Statutes s.118.19 (6). "In granting certificates for the teaching of courses in economics, social studies, and agriculture, adequate instruction in cooperative marketing and consumers' cooperatives shall be required. In granting certificates for the teaching of the courses in science and social studies, adequate instruction in the conservation of natural resources shall be required."
4. Graduate credits in major or minor fields to strengthen or develop teaching areas — 18-24 credits minimum, at least 12 of these in the emphasis. If music is the student’s emphasis area then 10 hours of music education, including 150740, Seminar in Music Education Research Techniques and 10 hours of music divided between the areas of applied music, music theory, and music history.

5. The Human Relations Requirement (see page 14).

6. The completion of the degree includes three options, as follows:
   a. Writing a thesis, for which up to six graduate semester credits may be given, and its successful formal defense.
   b. Passing a comprehensive examination in the emphasis field.
   c. At the discretion of the individual department, successfully completing six additional graduate semester hours in the emphasis; in effect, a 36 hour master’s degree. In this option, 18 of the 36 hours must be in the courses open only to graduate students, except with the permission of an individual academic department to waive this requirement and with the permission of the Dean of the School of Graduate Studies. (Policy — Graduate Faculty, May 8, 1974.) This option is not open to those students who have started a thesis or who have failed a comprehensive examination.

7. Total minimum of credits in the program — 42 credits. An emphasis department may set additional requirements. Students should check on this with their department of emphasis.

MASTER OF SCIENCE IN EDUCATION DEGREE

MASTER OF SCIENCE IN EDUCATION - SPECIAL EDUCATION

The graduate program in special education offers a student the opportunity to earn a M.S.Ed. degree with or without Wisconsin teaching certification. The M.S.Ed. degree program without certification is designed to increase teaching competency of already certified teachers and/or to prepare the student for other professional responsibilities in nonclassroom settings, such as administration, curriculum development and adult programming. This degree program also allows students interested in specializing within an area of education for exceptional children, such as severe/profound multiply handicapped, an opportunity to acquire knowledge and skill in this critical area. Students who are interested in this program should consult with the appropriate graduate adviser in the Department of Special Education.

The M.S.Ed. degree program may also be planned to include a sequence of studies leading to certification in emotional disturbance, learning disabilities, mental retardation and early childhood: exceptional educational needs. These programs prepare teachers to work with children with exceptional educational needs (EEN). Students interested in earning a M.S.Ed. degree in one of these areas should consult with the appropriate adviser in the Department of Special Education. Students planning to teach in states other than Wisconsin should obtain the certification requirements of that state prior to meeting with an adviser.

Students are generally advised to begin their course of study during the summer because each of the degree programs leading to certification requires a minimum of one summer session and one academic year of study. By initiating full time studies in the summer, the student has usually completed all of the requisites for a graduate practicum prior to the spring semester.

Admission to graduate M.S.Ed. degree programs requires a conference with an adviser in the Department of Special Education and three letters of recommendation from persons familiar with the student’s personal and professional qualifications. Continuation in all graduate M.S.Ed. degree programs is dependent upon participation in non-credit faculty-student seminars and graduate faculty approval for practicum placement. Admission to the learning disability program also requires evidence of successful teaching experience. All students should follow the general admission procedures of the School of Graduate Studies outlined in this bulletin.

The M.S.Ed. degree programs require that a student successfully complete a minimum of 30 graduate credits in a program planned cooperatively by the student and the adviser. Programs which include coursework for teaching certification may require some additional credits
contingent upon the student’s previous training. (New Human Relations requirement for initial teaching certification. See page 14.) In addition, the candidate must successfully complete a comprehensive examination or a thesis. Those electing to write a thesis must include 1-6 credits of 480799-Thesis Research in their respective course of study.

LEARNING DISABILITIES AND EMOTIONAL DISTURBANCE PROGRAMS — CONSORTIAL AGREEMENT — COOPERATIVE PROGRAMS WITH UW-PLATTEVILLE

There is a cooperative program between UW-Whitewater and UW-Platteville under consortial agreement (SWAP-CON) at the graduate level in the areas of learning disabilities and emotional disturbance. For information about this program contact Arthur G. Mcgraw, School of Graduate Studies, UW-Whitewater or James Stoltenberg, College of Education, UW-Platteville.

MASTER OF SCIENCE IN EDUCATION — SPECIAL EDUCATION — WITHOUT TEACHING CERTIFICATION

This master’s degree program offers students already holding teacher certification in special education the greatest program flexibility. The number of required courses is held to a minimum allowing the student, in consultation with the adviser, to choose a course of study following his/her specific interests and aspirations. The program requirements are listed below:

Foundations
424740 Seminar in Techniques of Educational Research 3

General Studies (minimum of 6 credits required)
The student may select a variety of courses for the purpose of meeting program objectives in consultation with the adviser.

Specialization - Special Education (minimum of 15 credits required)
480721 The Exceptional Child 3
480556 Introduction to Mental Retardation 3
480655 Introduction to Emotional Disturbance 3
480664 Learning and Language Disorders 3
480771 Seminar: Research in Mental Retardation 3
480772 Seminar: Curricular Developments in Facilitative Education 3
480780 Seminar: Research in Developmental Disabilities 3

All graduate special education courses are available options to complete training objectives.

MASTER OF SCIENCE IN EDUCATION — MENTAL RETARDATION — WITH TEACHING CERTIFICATION

Foundations
424740 Seminar in Techniques of Educational Research 3

General Studies (minimum of 6 credits required)
Students must have completed courses in child or adolescent development, tests and measurement, methods of instruction and practicum with normal children.
480721 The Exceptional Child 3
480664 Learning and Language Disorders 3
480666 Guidance of the Handicapped 3

Specialization - Mental Retardation (minimum of 15 credits required)
480556 Introduction to Mental Retardation 3
480657 Education of the Educable Retarded OR
480659 Education of the Adolescent Retarded OR
480665 Education of the Trainable Retarded 3
480771 Seminar: Research in Mental Retardation 3

* Required course
** Required course unless student has taken undergraduate equivalent
*** Two of the three graduate seminar courses listed must be taken
480772 Seminar: Curricular Developments in Facilitative Education* *** 3
480780 Seminar: Research in Developmental Disorders*** 3
489790 Practicum - Elementary/Secondary* 1-6

Students will be certified in EMR-Elementary, EMR-Secondary and/or TMR, on the basis of course work selected and the type of differentiated practicum experience completed.

Human Relations Requirement (see page 14).*

**MASTER OF SCIENCE IN EDUCATION-MENTAL RETARDATION — MODERATE/SEVERE/PROFOUND MULTIPLY HANDICAPPED WITH TEACHER CERTIFICATION (MR)**

<table>
<thead>
<tr>
<th>Foundations</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>424740 Seminar in Techniques of Educational Research*</td>
<td>3</td>
</tr>
</tbody>
</table>

**General Studies** (minimum of 6 credits required)

Students must have completed courses in pre-school or child development, tests and measurements, methods of instruction and practicum with normal children.

480721 The Exceptional Child** 3
480655 Introduction to Emotional Disturbance** 3
480666 Guidance of the Handicapped** 3
480684 Learning and Language Disorders** 3

**Specialization** - Mental Retardation-SPMH (minimum of 24 credits required)

480556 Introduction to Mental Retardation** 3
480576 Introduction to SPMH* 3
480665 Education of the Trainable Retarded** 3
480676 Techniques for the Multiply Handicapped* 3
480686 Instructional Systems for SPMH* 3
489725 Fieldwork with Exceptional Child-SPMH* 1-3
480771 Seminar: Research in Mental Retardation*** 3
480772 Seminar: Curricular Developments in Facilitative Education*** 3
480780 Seminar: Research in Developmental Disorders*** 3
489790 Practicum - TMR or SPMH* 1-6

Human Relations Requirement (see page 14) *

* Required course
** Required course unless student has taken undergraduate equivalent
*** Two of the three graduate seminar courses listed must be taken
MASTER OF SCIENCE IN EDUCATION — EMOTIONAL DISTURBANCE — WITH TEACHING CERTIFICATION

**Foundations**
- 424740 Seminar in Techniques of Educational Research  
  **Credits** 3

**General Studies** (minimum of 6 credits required)
- 480721 The Exceptional Child**  
  3  
- 480664 Learning and Language Disorders**  
  3  
- 480666 Guidance of the Handicapped**  
  3

Students must have completed courses in child or adolescent development, tests and measurement, methods of instruction and practicum with normal children.

**Specialization - Emotional Disturbance** (minimum of 15 credits required)
- 480655 Introduction to the Emotionally Disturbed*  
  3  
- 480660 Education of the Severely Emotionally Disturbed*  
  3  
- 480755 Techniques of Teaching the Emotionally Disturbed-Elem.* OR  
  3  
- 480756 Techniques of Teaching the Emotionally Disturbed-Sec.*  
  3  
- 480770 Social Issues in the Identification and Education of the Emotionally Disturbed.  
  3  
- 480774 Diagnosis of Learning Disabilities*  
  3  
- 480778 Remediation of Learning Disabilities-Elementary* OR  
  3  
- 480779 Remediation of Learning Disabilities-Secondary*  
  3  
- 489725 Fieldwork with the Exceptional Child-ED*  
  3  
- 489790 Practicum - Elementary/Secondary*  
  1-6

Students will be certified in ED-Elementary or ED-Secondary on the basis of course work selected and the type of differentiated practicum experience completed.

Human Relations Requirement (see page 14).*

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MASTER OF SCIENCE IN EDUCATION — LEARNING DISABILITIES — WITH TEACHING CERTIFICATION

**Foundations**
- 424740 Seminar in Techniques of Educational Research*  
  **Credits** 3

**General Studies** (minimum of 6 credits required)

Students must have completed courses in child or adolescent development, tests and measurement, methods of instruction and practicum with normal children.
- 480721 The Exceptional Child**  
  3  
- 432767 Diagnosis of Reading Difficulties* OR  
  3  
- 432766 Reading Disabilities* OR  
  3  
- 470665 Developmental Reading in the Secondary Schools*  
  3

**Specialization - Learning Disabilities** (minimum of 15 credits required)
- 480664 Learning and Language Disorders**  
  3  
- 480680 Speech and Language Development in the Child**  
  3  
- 480774 Diagnosis of Learning Disabilities*  
  3  
- 480778 Remediation of Learning Disabilities-Elementary* OR  
  3  
- 480779 Remediation of Learning Disabilities-Secondary*  
  3  
- 480663 Prescriptive Teaching for Regular Educators  
  3  
- 480773 Consultation Techniques for Special Educators  
  3

* Required course
** Required course unless student has taken undergraduate equivalent
480777 Development of Instructional Materials for EEN
489725 Fieldwork with the Exceptional Child-LD*
489712 Residency in Teaching* OR
489790 Practicum - Elementary/Secondary*

Students will be certified in LD-Elementary or LD-Secondary on the basis of their course work selected and the type of differentiated practicum experience completed.

Human Relations Requirement (see page 14).*

MASTER OF SCIENCE IN EDUCATION — EARLY CHILDHOOD: EXCEPTIONAL EDUCATIONAL NEEDS — WITH TEACHING CERTIFICATION

Foundations
424740 Seminar in Techniques of Educational Research* 3

General Studies (minimum of 6 credits required)
480721 The Exceptional Child** 3

Student must have completed courses in preschool child development, tests and measurement, methods of instruction and practicum with normal children. The student in consultation with the adviser may select a variety of courses designed to meet his/her program objectives.

Specialization - Early Childhood: EEN (minimum of 15 credits required)
480520 Introduction to the Education of Young Handicapped Children* 3
480621 Habilitation of Young Handicapped Children I* 3
480622 Habilitation of Young Handicapped Children II* 3
480632 Working with the Family of the Young Handicapped Child* 3
489725 Fieldwork with Exceptional Children-EC:EEN* 1-3
480680 Speech and Language Development in the Child* 3
480780 Seminar: Research in Developmental Disorders 3
489790 Practicum* 1-6

Human Relations Requirement (see page 14).*

MASTER OF SCIENCE IN EDUCATION — READING

This degree is designed to prepare teachers to provide special services in reading at the elementary and/or secondary level, and to certify students as reading teachers and/or as reading specialists. Developmental reading courses at the elementary and secondary levels must be taken if a student wants K-12-certification.

Requirements for the degree: Plan I—A minimum of 30 credit hours of course work, including a thesis, with a grade point average of 3.00 (4.00 scale); Plan II—A minimum of 30 credit hours of course work with a grade point average of 3.00 and a comprehensive examination.

THE PROGRAM. The requirements are given below; however, a specific course of study should be planned by the student in consultation with his/her adviser to meet state requirements for reading teacher or reading specialist certification.

I. RESEARCH SEQUENCE (3-9 credits)
424740 Seminar in Techniques of Education Research (Required) 3
436799 Thesis 1-6

II. EDUCATIONAL FOUNDATIONS SEQUENCE (3-6 credits)
420643 Education in Urban Society 3
420702 Philosophical Foundations of Education 3
423703 Psychological Foundations of Education 3
420704 Sociological Foundations of Education 3

III. RELATED COURSE SEQUENCE (6-9 credits)

* Required course
** Required course unless student has taken undergraduate equivalent
The courses are to be determined in consultation with the student's specified graduate adviser.

IV. READING SEQUENCE (15-19 credits)
432764 Developmental Reading 3
470665 Developmental Reading in the Secondary Schools 3
432766 Reading Disabilities 3
432767 Diagnosis of Reading Difficulties 3
439768 Practicum (Required) **** 3
432771 Planning and Implementing Reading Programs***** 3
432772 Reading in the Content Areas 3
432773 Research Related to the Teaching of Reading***** 3
439774 Field Experience in Reading Programs*** 2-3

READING CENTER. The Center offers diagnostic and remedial services for children with reading problems. Graduate students work with these children during their practicum experience.

MASTER OF SCIENCE IN EDUCATION — SCHOOL PSYCHOLOGY

Requirements for Master's Degree: A minimum of 30 credits, consisting primarily of course work appropriate for school psychologist certification; however, the exact courses will be determined in consultation with specified graduate advisers.

Requirements for Provisional School Psychologist Certification: A minimum of 48 graduate hours of psychology and professional education, including a minimum of 39 credits in psychology, with an average of at least 3.00 (4.00 scale) and a letter of recommendation of competence by the Director of the School Psychology Training Program in consultation with the members of the school psychology committee. Completion of the starred courses from the list of the school psychology program, and a minimum of 9 graduate hours of professional education courses, including courses from educational foundations and special education. The exact courses are to be determined in consultation with a specified graduate adviser to allow for the development of areas of emphases and specialization, e.g. Community-mental Health, Computer Applications, and Administration. Graduate students majoring in psychology may not repeat any course in the program. A comprehensive examination in the term in which the student is to graduate is required. Transfer of credits follows current graduate school and psychology department policies. A student must be involved in a minimum of 15 hours in a setting that meets the Wisconsin State Department of Public Instruction requirements for human relations experience as well as academic completion of a minorities course. See Human Relations requirement p. 14.

In addition to standard admission requirements, the department requires 15 hours of undergraduate credit in psychology (including 840-215 Basic Statistical Methods; 840-331-Psychology of Childhood or 840-332 Psychology of Adolescence; 840-304 Psychology of Personality; 840-424 Human Learning; 840-345 Behavior Disorders) an autobiographical letter; three letters of recommendation from persons familiar with the candidate's academic and personal qualifications; and a personal interview with members of the school psychology committee.

Requirements for School Psychologist Certification: All of the above course work, plus 12 additional credits in areas relevant to school psychology, plus a year of satisfactory supervised experience, and letters of recommendation of competence from the Director of the School Psychology Training Program in consultation with the school psychology committee and the supervisor(s) of the student's internship.

<table>
<thead>
<tr>
<th>The School Psychology Program</th>
<th>Prerequisites</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A - Psychological Foundations (A minimum of 6 graduate credits):</td>
<td>840-304 or six credits in psych.</td>
<td>3</td>
</tr>
<tr>
<td>840-545 Behavior Disorders</td>
<td>840-215 or equivalent</td>
<td>3</td>
</tr>
<tr>
<td>840-615 Research Design*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

** Prequisite 439768 and 432771
***** Prequisite 432764 and 470665

**** Prequisite 432764 or 470665, 432768 and 432767
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>840-624</td>
<td>Human Learning</td>
<td>None</td>
</tr>
<tr>
<td>840-630</td>
<td>Studies in Infancy and Early Childhood</td>
<td>None</td>
</tr>
<tr>
<td>840-635</td>
<td>Maturity and Old Age</td>
<td>None</td>
</tr>
<tr>
<td>840-640*</td>
<td>Psychological Tests and Measures</td>
<td>None</td>
</tr>
<tr>
<td>840-731*</td>
<td>Seminar in Child Psychology</td>
<td>None</td>
</tr>
<tr>
<td>840-732*</td>
<td>Seminar in Adolescence</td>
<td>None</td>
</tr>
<tr>
<td>840-746*</td>
<td>Psychopathology*</td>
<td>None</td>
</tr>
</tbody>
</table>

**Area B - Educational Foundations (A minimum of 6 graduate credits):**

*Regular education methods or curriculum courses:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>430-762</td>
<td>Curriculum in the Elementary School</td>
<td>None</td>
</tr>
<tr>
<td>430-764</td>
<td>Developmental Reading, or</td>
<td>None</td>
</tr>
<tr>
<td>470-665</td>
<td>Developmental Reading in the Secondary Schools</td>
<td>None</td>
</tr>
<tr>
<td>432-766</td>
<td>Reading Disabilities, or</td>
<td>None</td>
</tr>
<tr>
<td>470-710</td>
<td>Curriculum in the Secondary School</td>
<td>None</td>
</tr>
</tbody>
</table>

*Special Education methods course:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>480-621</td>
<td>Habilitation of Young Handicapped Children I, or</td>
<td>None</td>
</tr>
<tr>
<td>480-622</td>
<td>Habilitation of Young Handicapped Children II, or</td>
<td>None</td>
</tr>
<tr>
<td>840-625</td>
<td>Studies in Creativity and</td>
<td>None</td>
</tr>
<tr>
<td>480-625</td>
<td>Giftedness, or</td>
<td>None</td>
</tr>
<tr>
<td>480-721</td>
<td>The Exceptional Child, or</td>
<td>None</td>
</tr>
<tr>
<td>480-755</td>
<td>Techniques of Teaching the Emotionally Disturbed - Elementary, or</td>
<td>None</td>
</tr>
<tr>
<td>480-755</td>
<td>Techniques of Teaching the Emotionally Disturbed - Adolescent, or</td>
<td>None</td>
</tr>
<tr>
<td>480-772</td>
<td>Seminar: Curricular Developments in Facilitative Education</td>
<td>Consent of Instructor</td>
</tr>
</tbody>
</table>

*Supervision, administration, school law, or other educational foundations courses:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>420-445</td>
<td>History and Philosophy of Education, or</td>
<td>None</td>
</tr>
<tr>
<td>420-643</td>
<td>Education in Urban Society, or</td>
<td>None</td>
</tr>
<tr>
<td>420-702</td>
<td>Philosophical Foundations of Education, or</td>
<td>None</td>
</tr>
<tr>
<td>420-704*</td>
<td>Sociological Foundations of Education, or</td>
<td>None</td>
</tr>
<tr>
<td>420-705</td>
<td>Educational Classics, or</td>
<td>None</td>
</tr>
<tr>
<td>420-707</td>
<td>Significant Issues in Education, or</td>
<td>None</td>
</tr>
<tr>
<td>427-772</td>
<td>Legal Aspects of Education</td>
<td>None</td>
</tr>
</tbody>
</table>

**Area C - Core Professional Training (A minimum of 33 graduate credits):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>840-644</td>
<td>Behavior Modification I*</td>
<td>6 undergraduate credits in psych., including 840-217 or 840-303 or equiv.</td>
</tr>
<tr>
<td>840-645*</td>
<td>Behavior Modification II*</td>
<td>840-644 or equiv. with consent of instr.</td>
</tr>
<tr>
<td>840-651</td>
<td>Interpersonal Relations and Social Interactions</td>
<td>None</td>
</tr>
<tr>
<td>840-686</td>
<td>Interview and Psychotherapy Techniques</td>
<td>840-304 or 840-345 or equivalent</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Requirements</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>840-735</td>
<td>Differential Diagnosis of Developmental Disabilities</td>
<td>15 hrs. of psychology and consent of instr.</td>
</tr>
<tr>
<td>840-745</td>
<td>Individual Intelligence Testing*</td>
<td>840-615 or 840-640, admission to school psychology program or consent of instr.</td>
</tr>
<tr>
<td>480-774</td>
<td>Diagnosis of Learning Disabilities*</td>
<td>Consent of instr.</td>
</tr>
<tr>
<td>840-786</td>
<td>Interview and Psychotherapy Techniques - Child*</td>
<td>840-746 or concurrent enrollment in 840-746 or consent of instr.</td>
</tr>
<tr>
<td>840-787</td>
<td>Interview and Psychotherapy Techniques - Adolescent*</td>
<td>840-746 or concurrent enrollment in 840-746 or consent of instr.</td>
</tr>
<tr>
<td>840-793</td>
<td>Assessment of Personality*</td>
<td>840-745 or taken concurrently with 840-745, and admission into school psychology program</td>
</tr>
<tr>
<td>840-794</td>
<td>Theories of Personality</td>
<td>840-304 or equiv.</td>
</tr>
<tr>
<td>840-795</td>
<td>Theories of Psychotherapy</td>
<td>840-746 and 840-794 or consent of instr.</td>
</tr>
<tr>
<td>840-797</td>
<td>Supervised Clinical Practicum I*</td>
<td>840-745 and 840-793 and admission into school psychology program</td>
</tr>
<tr>
<td>840-798a</td>
<td>Supervised Clinical Practicum II*</td>
<td>840-797</td>
</tr>
</tbody>
</table>

There is a maximum of 15 credits in 600 level courses during the first year of the program. Under no circumstances may 500 level courses be taken by students in the program. Second year students may take only 700 level courses.
MASTER OF SCIENCE IN EDUCATION—SCHOOL BUSINESS MANAGEMENT

The program provides students an opportunity to pursue a course of study which will qualify them for certification as a school business manager. An undergraduate degree from an accredited institution with a major in the field of business or business education is desirable. However, the program has the flexibility to tailor programs to capitalize on the student’s past education and work experience. Each student is required, on completion of the program, to have 9-12 graduate credits in school business management, 9-12 graduate (or undergraduate) credits in business administration, and 9-12 graduate (or undergraduate) credits in educational foundations areas.

Requirements for completion of the M.S.Ed. include:

(1) A minimum of 30 semester graduate credits, and
(2) A thesis or comprehensive examination

Required Courses:

School Business Management
- 290-770 School Finance and Accounting 3
- 290-771 School Business Management Techniques 3
- 290-772 Legal Aspects of Education 3
  The student must select a minimum of three credits from the following courses:
  - 290-773 School Plant Planning 3
  - 290-776 School Personnel Administration 3
  - 290-777 School Auxiliary Services 3
  - 260-636 Purchasing and Materials Management 3

Business Administration**
- 240-646 Insurance 3
  The student must select a minimum of six credits from the following courses:
  - 210-542 Cost Accounting 3
  - 210-701 Accounting Foundations 3
  - 210-655 Government and Not-for-Profit Accounting 2
  - 240-545 Investments 3
  - 220-647 Data Processing for Business 3
  - 230-756 Public Finance and Taxation 3
  - 290-782 Collective Negotiations in Education 3

Electives. Graduate-level courses in the areas of accounting, business administration, business education, finance, management, economics, or educational foundations are determined in consultation with the student’s adviser on the basis of the candidate’s needs and interests. Students with fewer than six undergraduate credits in accounting are strongly urged to select additional accounting courses to improve their chances for employment. Non-eduation students should consult with their adviser in regard to the Wisconsin Human Relations Requirement (see page 14).

** Required courses in this area may be waived if similar courses have been taken as an undergraduate. Course substitutions in the area must have prior departmental approval.
MASTER OF EDUCATION—
PROFESSIONAL DEVELOPMENT (MEPD)

The MEPD degree is designed to provide experienced teachers a master's degree program that can be tailored to meet their individual professional needs and goals. Each program must indicate a research course which includes methodology, interpretation, and evaluation of research data. Beyond this stipulation, there are no specific course requirements for the degree; each student, in consultation with his/her adviser, plans a program of studies tailored to the individual's needs.

Admission Requirements. For admission to the program, a baccalaureate degree is required, and the candidate must have completed at least two years of teaching experience. (A maximum of six credits taken prior to meeting the experience requirement may count toward the degree, provided they are deemed by the adviser and the Review Committee to be appropriate to the program.)

Procedure. A student desiring to enroll in the MEPD program must complete an application to the UW-Whitewater School of Graduate Studies if he/she has not already done so. An additional application to the MEPD program is required. The student will meet with his/her adviser and plan a program of studies for the degree. At least two-thirds of the specific courses must be listed. The remaining one-third may be selected later, with the consent of the adviser, from offerings which are appropriate to the original plan. This program will be submitted to a standing Program Review Committee for approval or modification. A student must present completed application materials, including the proposed program, by July 1 for the first semester, by November 1 for the second semester, and by April 1 for the summer session.

Degree Program Options. The student, in consultation with his/her adviser, will select one of the following options to fulfill the general degree requirements. In options 2 and 3, a minimum of 30 approved credits is required.

1. Completion of 36 credits of course work.

2. Comprehensive Examination Option. This option requires that there be an identifiable area of emphasis. Identification of an area of emphasis shall be a student and adviser decision. This examination may be written and/or oral at the discretion of the adviser and emphasis area. The examination shall cover the emphasis area, which emphasis shall contain at least twelve credits.

3. Thesis Option. Up to six credits may be applied toward the completion of the degree.

Limitations. The MEPD degree may not be used to prepare for certification in specialized areas in which there are already existing graduate degree programs at UW-Whitewater. These include Counseling and Guidance, Reading, School Business Management, School Psychology, and Special Education.

Students enrolled in the MEPD program will be limited to those areas in which UW-Whitewater currently offers graduate courses.

Any student admitted to the Graduate School subsequent to the implementation of the MEPD program must complete at least 75 per cent of the work toward the degree after formal admission to the program. Any student admitted to the graduate school prior to the implementation
of the MEPD program may transfer up to 50 per cent of the required hours from work taken prior to formal admission to the MEPD program, provided such course work is deemed by the adviser and the Review Committee to be appropriate to the student's professional needs and/or goal.

The credit restrictions on workshops, institutes, field practice, and special studies listed on page 19 of this bulletin do not apply to the MEPD program as per the approved program Guidelines.

MASTER OF BUSINESS ADMINISTRATION DEGREE

The MBA is a professional degree program that provides individuals with advanced academic work in the functional aspects of public and private organizations. The academic program provides the individual with general competencies for overall management and allows a degree of specialization in an area of particular interest to the candidate. Applicants to the MBA program must first meet the general admission requirements of the Graduate School (see page 7). The College of Business and Economics specifies additional requirements of all applicants as described below.

Admission Requirements

Admission into the MBA program is limited to admission in Good Standing status using the criteria:
(a) Minimum of 975 composite based on the formula GMAT + 200 X (overall undergraduate GPA). OR
(b) Minimum 1025 composite based on the formula GMAT + 200 X (upper division undergraduate GPA).
(c) Foreign students must also have on record a TOEFL score of at least 550 or equivalent on another exam.

The GMAT is the Graduate Management Admission Test which is required of every applicant before being considered for admission.

An application file is not reviewed for admission consideration until official transcripts and the GMAT score are on file.

Due to increasing enrollments, admission may be limited despite fulfillment of the minimum entrance requirements indicated above.

Academic Program Policies

1. Students are subject to the policies, procedures, and requirements in effect at the time they are officially admitted to the MBA program.
2. In order to enroll in 700 level courses offered in the College of Business and Economics (except Business Education and School Business Management), a student must be admitted to the MBA or MS-Accounting program. MEPD students must have prior permission from the Coordinator of MEPD program.
3. A 3.00 GPA is required in Emphasis courses, in courses prescribed for the program, and in all graduate work undertaken. Grades earned outside the program cannot be used to adjust the program GPA.
4. Each candidate upon being admitted will be assigned an adviser. A candidate must obtain approval from his/her adviser before enrolling in courses. Courses taken without the approval of the adviser may not apply toward completion of the program. Prior to entering the program or during the first four weeks of the semester, each candidate shall prepare a program in consultation with his/her adviser. This program must then be submitted to the Associate Dean for approval. Any changes (including add/drop) to the program must have the written approval of the Associate Dean. All changes are initiated by the student through his/her adviser.
5. Individual Studies (XXX700) and/or Readings and Research (XXX790) may not be used as electives but may be used to satisfy up to 3 credits in the Emphasis. A copy of the proposal must be on file in the Associate Dean's Office prior to registration. The student should initiate these requests with the instructor.

6. Courses in the Common Body of Knowledge must be taken at the beginning of the MBA program. Program and course prerequisites will be rigidly enforced. Failure to comply will result in the student being dropped from the course.

7. Students who are dropped from the program for academic reasons or who fail to meet the admission requirements are not eligible to pursue further graduate work in the MBA or MS-Accounting programs in the College of Business and Economics.

8. The maximum course load is 12 graduate credits during fall and spring semesters and 6 credits during the summer term.

9. Students are allowed to repeat a maximum of two courses in their program. At most one of these may be an Emphasis course. No course may be repeated more than once.

10. A maximum of 9 credits may be transferred into a graduate business program. Transfer credit will not be allowed in the Emphasis area. All transfer credit is subject to the approval of the Associate Dean of the College of Business and Economics.

11. Business related course work taken in an applicant's undergraduate program, where the applicant has graduated more than five years prior to the date of admission to the Graduate School may not be considered as satisfactory in meeting Common Body Knowledge requirements.

12. Candidates in the MBA or MS-Accounting programs who do not enroll in a graduate course at UW-Whitewater for two consecutive semesters are considered inactive. Upon being reactivated, the candidate must conform to any new requirements in the program.

13. Within the confines of the Graduate School Constitution, Bylaws, and policies and procedures adopted by the Graduate Council, the Graduate Studies Committee in the College of Business and Economics is the final governing authority on all policy and procedural matters in the graduate business program.

**Degree Requirements**

General requirements for the completion of the MBA include a minimum of 36 graduate credits which may include a thesis of up to 6 credits. All students are required to have adequate preparation in the Common Body of Knowledge as defined by the American Assembly of Collegiate Schools of Business (AACSB). Those individuals not having sufficient preparation will be required to take additional graduate courses. Normally a program of study for those not having prior business preparation would require two calendar years to complete.

**I. Common Body of Knowledge**

(These courses must be completed at the beginning of the MBA Program)

A. 210701 Accounting Foundations  
   230703 Statistics Foundations  
   230704 Economics Foundations  
   250705 Computer Foundations  
   260702 Mathematics Foundations

B. 240718 Financial Management  
   240721 Legal Environment  
   250719 Operations Management  
   250720 Organization Theory and Policy  
   260716 Marketing

**II. Breadth Elective Area**

(These courses may be taken during the semester in which a student completes the Common Body of Knowledge requirements.)

A. Choose one: 260731 Advanced Statistical Methods  
   260732 Operations Research

B. Choose one: 230736 Business Conditions Analysis  
   230737 Managerial Economics
C. 250741 Managerial and Organizational Behavior
D. *250791 Business Policy and Environment

E. Free electives

The remaining elective credits (6-15) are free electives and may be chosen from any 730 or above level courses offered in the departments of Accounting, Business Education and Office Administration, Economics, Finance and Business Law, Management or Marketing. In consultation with the adviser these courses are chosen outside the student’s emphasis area for the purpose of broadening the student’s competence for overall management.

The following restrictions apply to the selection of the free electives:

1. At least 24 credits in the Breadth Elective Area and Area Emphasis (described below) must be from courses numbered above 730 and beyond the Common Body of Knowledge.

2. Not more than 6 credits may be selected from any one Emphasis area.

3. A department may require that certain courses be taken in the free elective area as requirements for their majors. These may not be in the student’s Emphasis area.

4. It is also possible to meet up to six credits of Breadth requirement using other graduate level courses offered by the University. These courses must clearly complement a student’s program. On the recommendation of the student’s adviser and with the approval of the Associate Dean, these courses may be incorporated into the student’s program. These six credits may be met as follows:

- 600 level courses offered in the departments of Accounting, Business Education and Office Administration, Economics, Finance and Business Law, Management or Marketing
- Business Education and Office Administration Courses 220701, 220751, 220752, 220766, 220776, 290770, 290771, 290772, 290773, 290775, 290776.
- 700 level courses offered outside the College of Business and Economics.

III. Area of Emphasis

| Accounting | Managerial Economics |
| Business Education | Management (General, Personnel, or Production) |
| Finance | Marketing |
| International Business | |

On the recommendation of the student’s adviser and with the approval of the Associate Dean, a thesis of up to 6 credits may be included in the 9 credit emphasis.

OUTREACH PROGRAM. Courses leading to graduate degrees in business are offered off campus in the evening at the UW Centers in Waukesha and Janesville. Known as the Business Outreach program, it is designed to assist primarily the working adult or those unable to attend classes on a full-time basis during the day. Admission and degree requirements are the same as those in the full-time program although special counseling and mail registration services are utilized. For further information call or write the Associate Dean of the College of Business and Economics (Carlson Building, Room 4033, Telephone No. 414-472-1945).

* This course must be taken in the last semester (or in the last 12 credits for Outreach students) of the student’s program.
MASTER OF SCIENCE DEGREE

THE MS ACCOUNTING PROGRAM

The Master of Science in Accounting degree program is designed primarily as a first professional degree for candidates with a non-business undergraduate background. Candidates with an accounting major or equivalent undergraduate background may consider either the MBA program, or, if a greater degree of specialization is desired, the MS program. Programs for completion of the MS degree are designed to fit the individual needs of the student and satisfy the academic requirements to write the Certified Public Accountant examination.

All candidates for the MS degree are required to complete a minimum of 30 credits of graduate work, depending upon their undergraduate preparation. An oral comprehensive examination is also required for completion of the MS program.

Admission Requirements: Same as MBA Program

Degree Requirements

Individuals will be required to take the following Common Body of Knowledge courses if the respective functional courses were not included in their undergraduate preparation.

I. Common Body of Knowledge
   210701 Accounting Foundations
   230703 Statistics Foundations
   230704 Economics Foundations
   250705 Computer Foundations
   260702 Mathematics Foundations
   240718 Financial Management
   240641 Business Law Applications
   250719 Operations Management
   250720 Organization Theory and Policy
   260716 Marketing
   (0-30 cr.)

II. Accounting Course Requirements
   210541 Intermediate Accounting I
   210542 Cost Accounting
   210543 Intermediate Accounting II
   210651 Income Tax Accounting
   210661 Consolidations
   210751 Financial Accounting
   210755 Managerial Accounting and Controllership
   210761 Accounting and Information Systems
   210765 Advanced Auditing
   (25 cr.)

III. Three of the following five courses:
   210781 Advanced Accounting Theory I
   210782 Advanced Accounting Theory II
   260731 Advanced Statistical Methods
   250791 Business Policy and Environment
   250732 Operations Research
   (9 cr.)

Students who have taken any of these courses before entering the MS-Accounting program may select electives to constitute a 30-credit program. 210652 Advanced Income Tax Accounting, 210655 Governmental and Not-For-Profit Accounting, 210657 CPA Problems, 210658 Budgeting; Profit Planning and Control, 210662 Ethics and Standards of the Accounting Profession, 210664 Analysis of Financial Reports, 210775 Income Determination are recommended.

A candidate must have a minimum of 16 credits of course work above the 730 level.

MASTER OF SCIENCE IN COMMUNICATION

Emphases:
- Communicative Disorders
- Mass Communication (Journalism)
- Speech Communication

All three emphases provide graduate study for (1) persons not certified to teach with professional goals in business or private and/or clinical practice, or the mass media, or other non-educational areas; (2) persons certified to teach who want more background in their specialty; and (3) persons with a liberal arts degree desiring certification to teach.

* This course must be taken in the last semester (or in the last 12 credits for Outreach students) of the student’s program.
COMMUNICATIVE DISORDERS EMPHASIS

The graduate program in Communicative Disorders is designed to provide graduate education to those with an undergraduate major in Communicative Disorders. Entering students who have not received a baccalaureate degree in Communicative Disorders are required to supplement their academic preparation until it is comparable to an undergraduate major in Communicative Disorders prior to admission to the graduate program.

Master of Science Degree candidates must meet all academic and practicum requirements for certification by the American Speech-Language-Hearing Association, the Wisconsin Department of Public Instruction (when applicable) and all requirements of the University of Wisconsin-Whitewater.

To ensure that students meet the program requirements, they must select an adviser from the faculty in Communicative Disorders to plan their course of study.

Minimum Requirements

PLAN A

Candidates entering the program with a Bachelor of Science in Education or a Bachelor of Science/Arts in Liberal Arts, who do not need or do not desire public school certification, are required to complete a minimum of 33 graduate credit hours: 24 credits in Communicative Disorders including three (3) credits in Practicum: Communicative Disorders. In addition, candidates will successfully complete either: 1) A thesis and its oral defense in which 1-6 graduate credits can be included in the 33 credit degree program OR 2) A written comprehensive examination during the semester of anticipated graduation.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>** 662582</td>
<td>Audiology</td>
<td>3</td>
</tr>
<tr>
<td>** 662584</td>
<td>Aural Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>** 662585</td>
<td>Fluency Disorders</td>
<td>3</td>
</tr>
<tr>
<td>** 662670</td>
<td>Diagnostic Methods in Communicative Disorders</td>
<td>3</td>
</tr>
<tr>
<td>** 662680</td>
<td>Speech and Lang. Develop. in the Child</td>
<td>3</td>
</tr>
<tr>
<td>** 662681</td>
<td>Language Assessment and Intervention</td>
<td>3</td>
</tr>
<tr>
<td>** 662686</td>
<td>Disorders of Voice</td>
<td>3</td>
</tr>
<tr>
<td>** 662688</td>
<td>Neuro. Disorders of Speech and Language I</td>
<td>3</td>
</tr>
<tr>
<td>** 662689</td>
<td>Neuro. Disorders of Speech and Language II</td>
<td>3</td>
</tr>
<tr>
<td>* 662709</td>
<td>Seminar: Fluency Disorders</td>
<td>3</td>
</tr>
<tr>
<td>* 662710</td>
<td>Speech and Lang. in the Clinical Environment</td>
<td>3</td>
</tr>
<tr>
<td>* 662711</td>
<td>The Dysarthrias</td>
<td>3</td>
</tr>
<tr>
<td>* 662713</td>
<td>Seminar in Normal and Dis. Lang.</td>
<td>3</td>
</tr>
<tr>
<td>* 662764</td>
<td>Comm. Language Special Populations</td>
<td>3</td>
</tr>
<tr>
<td>* 662570</td>
<td>Practicum: Communicative Disorders</td>
<td>3</td>
</tr>
<tr>
<td>* 662712</td>
<td>Research Methods in Communicative Disorders or equivalent research course (i.e. 424740)</td>
<td>3</td>
</tr>
</tbody>
</table>

*Required at the graduate level.
**Required at the graduate level unless taken as undergraduate.
PLAN B

Candidates entering the program with a Bachelor of Science/Arts in Liberal Arts, who wish to receive public school certification, are required to complete a minimum of 40 credit hours: 24 credits in Communicative Disorders including 3 credits in Practicum; plus 15 credits, specified below, to meet the requirements of the Department of Public Instruction. In addition, candidates will successfully complete either:

1) A thesis and its oral defense in which 1-6 graduate credits can be included in the 40 credit degree program OR 2) A written comprehensive examination during the semester of anticipated graduation.

** 662582 Audiology                  3
** 662584 Aural Rehabilitation       3
** 662585 Fluency Disorders           3
** 662670 Diagnostic Methods in Communicative Disorders 3
** 662680 Speech and Lang. Develop. in the Child 3
** 662681 Language Assessment and Intervention 3
** 662686 Disorders of Voice           3
** 662688 Neuro. Disorders of Speech and Language I 3
** 662689 Neuro. Disorders of Speech and Language II 3
* 662709 Seminar: Fluency Disorders   3
* 662710 Speech and Lang. in the Clinical Environment 3
* 662711 The Dysarthrias              3
* 662713 Seminar in Normal and Dis. Language 3
* 662764 Comm. Lang. Special Populations 3
* 662750 Practicum: Communicative Disorders 3
* 662712 Research Methods in Communicative Disorders or equivalent research course (i.e. 424740) 3
** 470665 Developmental Reading in the Secondary School or
** 430764 Developmental Reading or approved reading course 3
** 423681 Human Ability and Learning or
** 840624 Human Learning or approved course in learning 3
** Human Relation requirement. (See page 14 Wisconsin Department of Public Instruction)
*** 479411 Student Teaching 5
*** 470470 Student Teaching Seminar 2
*** 470450 Methods: Communicative Disorders 3
+ Required at the graduate level.
** Required at the graduate level unless taken as undergraduate.
*** Required course but no graduate credit given.

MASS COMMUNICATION (JOURNALISM) EMPHASIS

Persons with at least 15 credits in the area of emphasis (journalism and/or radio-television-film) are eligible for regular admission to the program. The transcripts and relevant experience of other persons will be individually evaluated to determine whether the person has an acceptable background or whether he/she must take additional coursework.

MINIMUM REQUIREMENTS

PLAN A

Individuals with a liberal arts degree who plan on using their training in professional print or broadcast journalism, or mass communication related fields, or individuals who are already certified teachers and wish to concentrate on adding to their knowledge in mass communication should follow this plan.

The completion of the degree under Plan A requires a minimum of 30 credits and successful completion of one of the following options: (1) an approved professional project (2-3 graduate credits); (2) a thesis (2-3 graduate credits); (3) a written comprehensive exam in communication (mass communication emphasis). Furthermore, each of the options requires suc-
cessful oral defense of the written work. Credit for the thesis or professional project may be applied toward the 30 credits required for the degree.

666622 Communication Theories or its undergraduate equivalent........................................... 0-3
666620 Listening Behavior or
666624 Cross Cultural Communication or
666753 Oral Communication for the Professions................................................................. 3
424740 Techniques of Education Research or
   A research course offered by the Department of Communication.................................. 3
   Electives in mass communication prefixed by 664 (Journalism) and/or radio-
   television-film courses prefixed by 666 (Speech Communication) chosen with
   the consent of the graduate adviser........................................................................... 12-24
   Electives related to area of emphasis chosen with consent of graduate adviser.......... 0-9

MINIMUM REQUIREMENTS

PLAN B

Certified Teachers who want to blend additional training in mass communication and professional education should follow this plan.

The completion of the degree under Plan B requires a minimum of 30 credits and successful completion of one of the following options: (1) an approved professional project (2-3 graduate credits); (2) a thesis (2-3 graduate credits); (3) a written comprehensive exam in communication (mass communication emphasis). Furthermore, each of the options requires successful oral defense of the written work. Credit for the thesis or professional project may be applied toward the 30 credits required for the degree.

666622 Communication Theories or its undergraduate equivalent........................................... 0-3
   A 600 or 700 level seminar in mass communication.................................................... 3
666620 Listening Behavior or
666624 Cross Cultural Communication or
666753 Oral Communication for the Professions................................................................. 3
   Electives in mass communication prefixed by 664 (Journalism) and/or radio-
   television-film courses prefixed by 666 (Speech Communication) chosen with
   the consent of graduate adviser........................................................................... 9-18
424740 Techniques of Education Research................................................................. 3
   Electives in professional education............................................................................ 3-6
   Electives in liberal arts outside the emphasis area chosen with consent of
   graduate adviser......................................................................................................... 0-9

MINIMUM REQUIREMENTS

PLAN C

Persons who have a liberal arts degree and who want to become certified teachers should follow this plan.

The completion of the degree under Plan C requires a minimum of 42 credits and successful completion of one of the following options: (1) an approved professional project (2-3 graduate credits); (2) a thesis (2-3 graduate credits); (3) a written comprehensive exam in communication (mass communication emphasis). Furthermore, each of the options requires successful oral defense of the written work. Credit for the thesis or professional project may be applied toward the 42 credits required for the degree.

666622 Communication Theories or its undergraduate equivalent........................................... 0-3
   A 600 or 700 level seminar in mass communication.................................................... 3
666620 Listening Behavior or
666624 Cross Cultural Communications or
666753 Oral Communication for the Professions................................................................. 3
Electives in mass communication prefixed by 664 (Journalism and/or radio-television-film courses prefixed by 666 (Speech Communication) chosen with the consent of graduate adviser .......................................................... 9-12
424740 Techniques of Education Research .......................................................... 3
470665 Developmental Reading in the Secondary School ........................................... 3
Elective in educational psychology ........................................................................... 3
479411 Directed Teaching-Secondary ........................................................................ 10
470470 Post Student Teaching Seminar ..................................................................... 2

(Human Relations requirement, see page 14 in current graduate bulletin.)

**SPEECH COMMUNICATION EMPHASIS**

Since individuals in this degree program may use their education in diverse ways, they must work with their faculty adviser to develop a graduate program tailored to their particular needs.

In addition to the general Graduate School requirements, students should have completed an undergraduate program in Speech Communication or Speech Communication and Theatre which totals at least 20 semester hours and is appropriate to their plans for future academic study.

**MINIMUM REQUIREMENTS**

**PLAN A**

Individuals with a liberal arts degree who plan on using their training in business or other non-educational fields or individuals who are teachers who wish to concentrate on strengthening their knowledge in Speech Communication should follow this plan.

The completion of the degree under Plan A requires a minimum of 30 credits and successful completion of one of the following options: (1) an approved thesis (1-3 graduate credits); (2) a written comprehensive exam in Speech Communication or Speech Communication and Theatre; (3) after successful completion of 15 graduate credits in Speech Communication and/or Theatre, the student may, on an individual basis, petition the graduate faculty of the Department of Communication for permission to complete the degree with a minimum of 36 credits. Furthermore, option 1 and 2 require successful oral defense of the written work. Thesis credit may count toward the 30 credits required for the degree.

666622 Communication Theories or undergraduate equivalent .................................... 0-3
666657 Classical Rhetoric or undergraduate equivalent .............................................. 0-3
666701 Introduction to Graduate Study in Speech ....................................................... 3
Electives in Speech Communication ........................................................................... 9-21
424740 Techniques of Education Research or
680790 Bibliography .................................................................................................... 3
Electives chosen with consent of graduate adviser or
A 9 credit concentration in Theatre ................................................................. 3-9

**MINIMUM REQUIREMENTS**

**PLAN B**

Certified teachers who want to blend additional training in Speech Communication and professional education should follow this plan.

The completion of the degree under Plan B requires a minimum of 30 credits and successful completion of one of the following options: (1) an approved thesis (1-3 graduate credits); (2) a written comprehensive exam in Speech Communication or Speech Communication and Theatre; (3) after successful completion of 15 graduate credits in Speech Communication and/or Theatre, the student may, on an individual basis, petition the graduate faculty of the Department of Communication for permission to complete the degree with a minimum of 36 credits. Furthermore, option 1 and 2 require a successful oral defense of the written work. Thesis credit may count toward the 30 credits required for the degree.
MINIMUM REQUIREMENTS

PLAN C

Individuals who have a liberal arts degree and who want to become certified teachers should follow this plan.

The completion of the degree under Plan C requires a minimum of 42 credits and successful completion of one of the following options: (1) an approved thesis (1-3 graduate credits); (2) a written comprehensive exam in Speech Communication or Speech Communication and Theatre; (3) after successful completion of 15 graduate credits in Speech Communication and/or Theatre, the student may, on an individual basis, petition the graduate faculty of the Department of Communication for permission to complete the degree with a minimum of 48 credits. Furthermore, options 1 and 2 require a successful oral defense of the written work. Thesis credit may count toward the 42 credits required for the degree.

MASTER OF SCIENCE IN COUNSELING AND GUIDANCE

The program in counselor education provides graduate level training for students interested in learning counseling for a variety of educational and community settings. Program emphases are available for school counseling, higher education, and vocational/general. Students within school counseling must elect a specialization in elementary or secondary. Students within vocational/general must elect a specialization in vocational or marriage and family.

IMPORTANT: In addition to meeting the general graduate school requirements, a student must (a) qualify for either good standing with earned 2.75 undergraduate GPA or better, or probation standing with earned 2.25 undergraduate GPA or better, (b) submit a personal essay pertaining to career goals and plans (c) submit the names of three references and (d) have a personal interview with the program coordinator and the student’s potential adviser. Students are encouraged to make application as soon as possible to facilitate this process.

Students wishing to practice in the public schools should check state requirements for counselor certification in whatever state practice is intended. Individuals interested in associate or clinical membership in the American Association of Marriage and Family Therapy may be required course work and clinical supervision beyond degree and emphasis requirements to meet the academic preparation and professional standards of the Association.
Students must have within their undergraduate preparation 6 credits in psychology and/or sociology and 3 credits in statistics or measurement. Students who do not have these courses must complete them as undergraduate or graduate courses which will not be part of the degree program. These will be scheduled with the adviser and must be completed before enrolling in advanced courses.

The program of study is a 36-42 credit program depending on the student's previous academic preparation. Students may elect to write a thesis research paper for 6 credits to replace two course electives. A one-year (fall-spring) practicum is part of the preparation required. Practicum policy statements should be obtained from the department office.

### Basic Required courses

All students are required to take:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>421718</td>
<td>Principles of Counseling</td>
<td>3</td>
</tr>
<tr>
<td>421719</td>
<td>Appraisal Procedures in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>421721</td>
<td>Group Procedures in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>421722</td>
<td>Theories of Counseling</td>
<td>3</td>
</tr>
<tr>
<td>421726</td>
<td>Seminar in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>424740</td>
<td>Techniques of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>429790</td>
<td>Supervised Practicum in Counseling</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>(2 semesters in length)</td>
<td>30</td>
</tr>
</tbody>
</table>

421718 and 421726 serve as prerequisites for all other courses

### Additional Required Courses

In addition to the above required courses, program emphases have additional requirements as listed below.

#### School Counseling Emphasis:

*Elementary Specialization* (6 credits required and 6 elective credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>421720</td>
<td>Vocational Development &amp; Information Services</td>
<td>3</td>
</tr>
<tr>
<td>421723</td>
<td>Counseling in Elem. &amp; Jr. High Schools</td>
<td>3</td>
</tr>
</tbody>
</table>

*Secondary Specialization* (3 credits required and 9 elective credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>421720</td>
<td>Vocational Development &amp; Information Services</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Higher Education Emphasis (3 credits required and 9 elective credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>421729</td>
<td>Student Services in Higher Education</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Vocational/General Emphasis:

*Vocational Specialization* (6 credits required and 6 elective credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>421720</td>
<td>Vocational Development &amp; Information Services</td>
<td>3</td>
</tr>
<tr>
<td>421724</td>
<td>Vocational Counseling of Adolescent and Adult</td>
<td>3</td>
</tr>
</tbody>
</table>

*Marriage and Family Specialization* (6 credits required and 6 elective credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>421731</td>
<td>Intro. to Marriage &amp; Family Counseling</td>
<td>3</td>
</tr>
<tr>
<td>421733</td>
<td>Theory &amp; Techniques of Marriage &amp; Family Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>

### Elective Courses

The balance of a student's program is completed from a wide variety of graduate elective courses offered by the University. The selection of elective courses applicable to a particular student's plan of study and career goals must be approved by the student's adviser prior to enrollment in the particular course.
Review of Progress

A formal review of progress procedure by the counselor education faculty is completed after the student completes the first 6 hours (421718 and 421726). This must be completed before additional courses may be taken within the program. This review will be continued as students progress through the course sequence.

MASTER OF SCIENCE IN SAFETY (MSS)

The MSS is designed to provide graduate level experiences in several different areas of safety. The program enables students to pursue specific preparation in occupational, traffic, or school safety. A program which meets the student’s individual goals may also be approved by the Department.

The general requirements for completion of the M.S.S. degree in this program, include a minimum of 30 credits and a comprehensive examination. Students may elect to write a thesis research paper. Credit for the thesis (1-6) is included in the 30-credit degree program. A comprehensive examination is not required if the thesis option is selected.

REQUIRED COURSES:

1. Core Courses:
   - 460-650 Behavioral Aspects of Accident Prevention
   - 424-752 Safety Communications
   - 424-740 Seminar in Techniques of Educational Research

2. Emphasis Areas
   A. Occupational Safety (Prerequisite 462-380 Industrial Accident Prevention)
      - 462-683 Industrial Safety Management
      - 462-684 Industrial Hygiene
      - 462-685 Fire Protection/Prevention
      - 460-688 Human Factors Engineering
      - 460-787 System Safety Analysis
   
   B. Traffic Safety
      - 460-655 Alcohol and Other Drugs
   
   C. School Safety
      - 460-655 Alcohol and Other Drugs
      - 460-672 Organization and Administration of School Safety

ELECTIVE COURSES

Graduate courses offered by the University, which may serve as electives to the safety program are listed below. Elective provisions presented below concerning a particular program must be approved by the student’s adviser.

- 460-581 Motor Fleet Safety
- 460-655 Alcohol and Other Drugs
- 460-688 Human Factors Engineering
- 460-787 System Safety Analysis
- 461-661 Problems & Materials of Driver Education
- 461-665 Advanced Driving Techniques
- 461-666 Police in Highway Traffic Enforcement
- 461-765 Highway Traffic Administration
- 461-767 Traffic Engineering
- 462-582 Safety in the Construction Industry
- 462-583 Introduction to Security
- 462-683 Industrial Safety Management
- 462-684 Industrial Hygiene
- 462-685 Fire Protection/Prevention
- 463-679 Organization and Administration of School Safety
469-790 Practicum
460-690 Workshop in Safety Education
460-696 Special Studies
460-700 Individual Studies
460-797-I Institute
460-798 Workshop
460-799 Thesis Research

220-645 Records Management
230-658 Urban Transportation
230-703 Statistics Foundations
250-719 Operations Management
250-741 Managerial and Organizational Behavior
250-751 Management of Human Resources I
250-762 Inventory Systems
250-769 Manufacturing Seminar
260-702 Mathematics Foundations
420-704 Sociological Foundations of Education
420-705 Educational Classics
420-706 John Dewey’s Philosophy of Education
420-707 Significant Issues in Education
421-650 Introduction to Guidance
422-658 Introduction to Utilization of Instructional Media
422-635 Design & Production of Instructional Materials
422-754 Advanced Design & Production of Instructional Materials
423-678 Adolescent Development
423-681 Human Abilities and Learning
423-682 Educational Statistics
423-701 Human Development
423-703 Psychological Foundations of Education
424-742 Foundations of Measurement
424-743 Construction and Use of Teacher-Made Tests
427-772 Legal Aspects of Education
427-775 Administration and Organization of Public Schools
428-580 Interaction Lab for Teacher Development
428-675 Understanding and Dealing with Disruptive Classroom Behavior
430-769 Supervision of Classroom Instruction
430-776 The School Principalship
470-710 Curriculum in the Secondary School
470-770A Supervision of Student Teachers
480-657 Education of the Educable Mentally Retarded
480-721 The Exceptional Child
630-556 Environmental Radiation Protection
630-703 Environment and Man
840-608 Community Psychology
840-644 Behavior Modification I
840-651 Interpersonal Relations & Social Interactions
880-555 Social Psychology
880-776 Crime, Delinquency and Correction
No bird soars too high if he soars with his own wings.

WILLIAM BLAKE
GRADUATE COURSE OFFERINGS

The departmental code numbers are in parenthesis following each department name.

Accounting (210)
American Studies (612)
Art (110, 115)
Biology (630)
Business Education and Office Administration (220)
Chemistry (640)
Coaching (410, 411, 412, 413, 419)
Communication (662, 664, 666)
Economics (230)
Educational Foundations and Counselor Education (420, 421, 422, 423, 424, 426, 427, 428, 429)
Elementary Education (430, 431, 432, 434, 436, 439)
English (680)
Finance and Business Law (240)
Foreign Languages (702, 704, 706, 708)
Geography (722)
Geology (726)
Health, Physical Education and Recreation (440, 442, 444, 446, 449)

History (740)
Management (250)
Marketing (260)
Mathematics (760) Computer Science (765)
Music (150)
Philosophy (782)
Physics (800) Astronomy (805)
Political Science (820)
Psychology (840)
Religious Studies (786)
Safety Education (460, 461, 462, 463, 469)
School Business Management (290)
Secondary Education (470, 479)
Sociology (880) Anthropology (613)
Social Welfare (860)
Special Education (480, 489)
Theatre and Dance (131, 133)
Women's Studies (619)

COURSE NUMBERS

500 Series — Junior-Graduate Courses

600 Series — Senior-Graduate Courses. Not more than half of the credits earned either in the student's entire program or in the major field or emphasis may be in courses in the 500 and 600 series, except by the permission of an individual academic department to waive this requirement and with the permission of the Dean of the Graduate School.

700 Series — Courses open only to graduate students. Credits in courses numbered under 500 cannot be applied toward the completion of an advanced degree. Courses numbered 500 and above may be used to apply only to master's degree programs and cannot be used to apply to bachelor's degree programs. Furthermore, courses numbered under 500 may not be used to satisfy master's degree program credit requirements.

Course Deletion Policy (adopted by the Graduate Faculty on December 3, 1975.) Courses which have not been taught within a five-year period of time should be deleted from the Graduate Bulletin. The individual departments should determine exceptions to this rule and carry the responsibility for enforcing the policy.

Abbreviations: Prereq.—Prerequisite
ART (11-) (110) Studio (115) History

LIBERAL ARTS FOUNDATION COURSE

115701 Art and the Artist in Contemporary Culture 3 credits
A slide lecture and discussion course to acquaint students with theories concerning art today as it is affected by the society in which they live, its thought pattern, as well as the social, political, economic and religious setting.

ART (110) Studio

110606 Drawing VI 3 credits
Advanced studio experience in drawing. Prereq: 9 credits in drawing.

110607 Drawing VII: Research 2 credits
A highly specialized course offering directed research in a specific problem related to drawing. Prereq: 9 credits in drawing.

110624 Painting IV 3 credits
Advanced studio experience in painting. Prereq: 9 credits in painting.

110625 Painting V: Research 2 credits
A highly specialized course offering directed studio research in a specific problem related to painting. Prereq: 9 credits in painting.

110636 Printmaking IV 3 credits
Advanced studio experience in printmaking. Prereq: 9 credits in printmaking.

110637 Printmaking V: Research 2 credits
A highly specialized course offering directed research in a specific area related to printmaking. Prereq: 9 credits in printmaking.

110644 Sculpture IV 3 credits
Advanced studio experience in sculpture. Prereq: 9 credits in sculpture.

110645 Sculpture V: Research 2 credits
A highly specialized course offering directed studio research in a specific created problem related to sculpture. Prereq: 9 credits in sculpture.

110654 Ceramics IV 3 credits
Advanced studio experience in ceramics. Prereq: 9 credits in ceramics.

110655 Ceramics V: Research 2 credits
A highly specialized studio course offering directed studio research in a specific created problem related to ceramics. Prereq: 9 credits in ceramics.

110656 Technical Study in Ceramics 3 credits
Exploration of technical concerns within ceramics. Emphasis is on clay composition and analysis, glaze calculation and formulation, study of ceramic minerals, kiln design, construction and operation. Prereq: 110352

110674 Metal and Jewelry IV 3 credits
An advanced course oriented towards the design and creation of art objects relegated to the body and its close proximity. Specifically aimed at the serious metals student. Prereq: 110373.
110675 Metal and Jewelry V: Research  
This course is designed to supply the student with information necessary to function as a professional artist/craftsman as well as further develop his personal work. Prereq: 110474.

110684 Communication Graphics IV  
Emphasis is on conceptual and visual graphic design problem solving in the third dimension. The student analyzes, defines objectives and develops and presents in comprehensive 3-D format, graphic design solutions for package design, point of purchase promotional display, exhibit design and a 3-D area of special interest. Prereq: 110383, 110311.

110685 Communication Graphics V: Research  
With consultation and guidance from the instructor, the student defines objectives and realizes graphic design solutions for a self-promotional "resume" and an area of defined graphic special interest. The final presentation encompasses an imaginatively coordinated portfolio of accumulated communication graphics projects reflecting individual interests, capabilities and potential. Prereq: 110684

110690 Art Workshop  
A short term studio workshop offering concentrated study of art media or technique. Prereq: Permission of the Workshop Director.

110696 Special Studies  
Designed to enable the Art Department to offer special studies, such as study abroad or independent research of a highly specified area. Prereq: Consent of the instructor.

110700 Individual Studies  
An opportunity for a student to explore in more detail a specific field of study. Student and adviser will decide the study, with the consent of the professor in charge of the study. The student may take 1-3 credits of work per term. However, not more than 4 credits may be counted within the total number of credits required for a master's degree program. The study should be planned for completion by the end of a term. A grade of "incomplete" is given if the study is not completed. Following completion of the study, a regular letter grade shall be given. Completion should occur within a year after the end of that term.

110710 Graduate Studio I  
A course designed to provide advanced level studio experience for the graduate art student in a free, informally structured situation with a consulting professor. Prereq: At least three courses in the chosen area or consent of the instructor.

110711 Graduate Studio II  
A course designed to provide advanced level studio experience for the graduate art student in a free, informally structured situation with a consulting professor. Prereq: At least three courses in the chosen area or consent of the instructor.

110721 Trends in Art Education  
A course designed to acquaint the teacher with recent trends in the teaching of art. The sources of contemporary knowledge of the function and structure of art education, the child and his growth in art expression, the development of skills and building the art curriculum will be considered during lecture-discussion sessions. A variety of materials and techniques will be explored in the art workshop.

110798 Workshop  
Workshops are established in various areas as the need is determined by the department. Announcement of specific workshops being offered are made as the workshops are developed. See page 19 pertaining to credit limitations of workshops.
110799 Thesis Research  
Guided investigation of an approved thesis topic. Student may receive credit for research activities planned in conjunction with his/her adviser and leading to the completion of a master's degree.

ART (115)  
Art History and Appreciation  
(500 Level courses open to all graduate students)

115503 Survey of American Art  
3 credits  
An historical survey of American art from Colonial to Contemporary periods. The emphasis is on specific American qualities in comparison with similar European developments and how these qualities were motivated by unique characteristics in American social and cultural developments.

115504 Survey of African and Oceanic Art  
3 credits  
The course is designed to survey the art of two distinct cultural areas which have similar motivations for their visual expression. Emphasis is placed on equatorial Africa, Melanesia, Polynesia and Micronesia.

115511 History of Greek and Roman Art  
3 credits  
This course is designed to cover in depth the development of the classical "ideal" form and to cover the manifestations of this form in Greek, Etruscan and Roman arts. The student will study the development of classical architecture, sculpture, painting and pottery.

115512 History of Medieval Art  
3 credits  
An investigation in depth of western art from the early Christian period through the Gothic period. Equal stress will be placed on the architecture, sculpture, painting and the minor arts of the period.

115513 History of Italian Renaissance Art  
3 credits  
A course designed to trace the development of architecture, painting and sculpture from the early fifteenth century through the sixteenth century in Italy. Emphasis is on the revival of interest in classical traditions and the combination of classic ideals and forms with contemporary themes and artistic trends.

115514 History of Northern Renaissance Art  
3 credits  
This course is designed to study in depth the unique development of Renaissance art outside Italy, specifically in the Lowlands, France, Germany and Spain during the fifteenth and sixteenth centuries.

115515 History of Baroque Art  
3 credits  
An art lecture course covering the leading work in painting, sculpture and architecture in Italy, France, Spain, Germany and The Netherlands, from the Mannerist period to 1800. Slide illustrated.

115516 History of Nineteenth Century Art  
3 credits  
A slide illustrated lecture course examining major social, scientific and technical factors affecting stylistic progressions in painting, photography, architecture and sculpture during the nineteenth century. European art movements will be the principal concern of the course.

115517 History of Modern Architecture  
3 credits  
The major emphasis of this course is the development of the experimental nature of contemporary architectural forms. The student will study this trend from the early
engineering solutions of mid-nineteenth century to the complex social and technological solutions of today.

115518 History of 20th Century Art to 1945 3 credits
An investigation of the complex visual imagery generated by the social milieu from 1900 to 1945. Emphasis will be on origins, stylistic progressions, and experimental approaches with the implications for today's movements. Offered fall semester only.

115519 Concepts in Art Since 1945 3 credits
A course designed to study the complex developments in art since 1945. Emphasis will be placed on experimental concepts, their evolution, and their manifestation in today's society. Offered spring semester only.

MUSIC (150)

LIBERAL ARTS FOUNDATION COURSE

The liberal arts foundation course listed below is not to be enrolled in by those in the music emphasis.

150701 Music in Contemporary Culture 3 credits
A study of selected masterpieces representing the various cultures which are part of our musical heritage. The work will include studies toward the aesthetics and criticisms of the music, the history and background of its composer and the relationship of his music to contemporary thought.

SPECIALIZED COURSES

APPLIED MUSIC

150667 Jazz Ensemble Techniques 1 credit
A study of the techniques needed to direct a school jazz ensemble such as the functions of the instruments, individually and in sections, the various articulations necessary to perform the various styles of jazz, and basic theoretical knowledge for understanding jazz ensemble scores and teaching basic improvisational techniques.

150668 Marching Band Techniques 1 credit
A study of the techniques in producing a marching band performance including marching fundamentals, show planning, music selection, auxiliary groups and rehearsal techniques.

150756 Advanced Conducting 2 credits
Advanced study and analysis of conducting techniques. Score reading and interpretation of masterpieces from standard instrumental and choral repertoire.

150767 Advanced Instrumental Techniques (Strings) 2 credits
An advanced course in string techniques. Prereq: 150367 or equivalent.

150768 Advanced Instrumental Techniques (Woodwind, Bass, Percussion) 1 credit
An advanced course in the theory and practice of playing the woodwind, brass and percussion. Prereq: 150267, 150268 or 150368 or the equivalent. May be repeated one semester for credit.

150777 Advanced Voice Class 1 credit
Group instruction in singing techniques with emphasis on posture, breathing, diction and tone production for students whose major performance is not voice. May be repeated one semester for credit.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>150780</td>
<td>Graduate Applied Music</td>
<td>1-2</td>
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<tr>
<td>150781</td>
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<tr>
<td>150782</td>
<td></td>
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<tr>
<td>150787</td>
<td>Advanced Piano Class</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Group instruction in piano technique, sight-reading and accompaniment for students whose major performance is not piano. May be repeated once for credit. Prereq: 150280 or equivalent.</td>
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</tbody>
</table>

**MUSIC LITERATURE AND HISTORY**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>150645</td>
<td>Medieval and Renaissance Music</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>A study of western music from chant to the advent of opera. Analysis of representative works.</td>
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</tr>
<tr>
<td>150646</td>
<td>Music of the Baroque Period</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Detailed analysis of representative works by such composers as Monteverdi, Schutz, Corelli, D. Scarlatti, Bach and Handel. Study of performance practices in vocal and instrumental forms. Formerly 150741.</td>
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<tr>
<td>150647</td>
<td>The Music of the Rococo and Classical Periods</td>
<td>2</td>
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<td></td>
<td>Musical trends from C 1720-1827, the development of musical style from Style Galant and Empfindsam Stil to Haydn, Mozart and Beethoven. Analysis of representative works. Formerly 150742.</td>
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<tr>
<td>150648</td>
<td>Music of the Romantic Period</td>
<td>2</td>
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<tr>
<td></td>
<td>A study of the styles and trends of the nineteenth century through study and analysis of representative works. Formerly 150743.</td>
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<tr>
<td>150649</td>
<td>Music of the Twentieth Century</td>
<td>2</td>
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<tr>
<td></td>
<td>A study of the styles and trends of the twentieth century through study and analysis of representative works. Formerly 150744.</td>
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<tr>
<td>150790</td>
<td>Seminar in Music History</td>
<td>3</td>
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<tr>
<td></td>
<td>Investigation and discussion of specialized problems in music literature and history. Topics selected on basis of needs and interests of participants in such areas as studies of individual composers, musical styles, and performance practices.</td>
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</tbody>
</table>

**MUSIC THEORY**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>150655</td>
<td>Form and Analysis</td>
<td>2</td>
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<tr>
<td></td>
<td>A study of the basic structural components as they are applied to the binary, ternary, rondo, theme and variations, sonata-allegro, and concerto forms. Analysis of selected samples are taken from music literature of all historical periods. Prereq: 150252.</td>
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<tr>
<td>150656</td>
<td>Twentieth Century Theory</td>
<td>2</td>
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<tr>
<td></td>
<td>A study of the melodic, rhythmic, and harmonic elements of twentieth century music. Students will work with readings, scores, and recordings and will study the compositional aspects and sight singing skills involved in twentieth century music.</td>
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<tr>
<td>150658</td>
<td>Improvisation: Jazz</td>
<td>2</td>
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<tr>
<td></td>
<td>A study of the nomenclature and theoretical principles of jazz from a performance and analytical view using scalar and choral sources in present practice. Prereq: Students should have a technical command of their instruments, voice, or be a member of the Jazz Laboratory Band, or be a director of a school jazz ensemble.</td>
<td></td>
</tr>
</tbody>
</table>
150659 Jazz Arranging and Composition 2 credits
A study and analysis of basic jazz and popular music theory, arranging techniques and compositional devices with emphasis on learning scoring practices for ensembles of varied size and instrumentation, including vocal scoring and writing instrumental accompaniments to vocal solos. Prereq: Graduate student, or have completed basic theory sequence if undergraduate student.

150753 Advanced Arranging 2-3 credits
Techniques in scoring both small and large vocal and instrumental ensembles. Students enrolling for three credits are required to complete an additional special project in arranging, or to present a written report of research in the area of instrumentation approved in advance by the instructor. Prereq: 150443 or equivalent.

150755 Composition 2-3 credits
Original work in various forms and idioms. Students enrolling for three credits are required to submit a composition in one of the more extended forms. Prereq: 150252, 150452 and the consent of the instructor.

150792 Seminar in Music Theory 3 credits
Investigation and discussion of significant problems in music theory. Topics are selected on basis of needs and desire of participants in such areas as twentieth century practices, theory pedagogy, harmonic and melodic styles.

MUSIC EDUCATION

150736 Problems in Teaching and Supervising General Music 2-3 credits
A detailed study of the problems involved in teaching and supervising the general music program in the elementary, junior high and senior high school. Special attention is given to problems of objective, organization, operation, materials and procedures.

150737 Problems in Teaching Instrumental Music 2-3 credits
A detailed study of the problems involved in teaching instrumental music in the elementary, junior high and senior high schools. Special attention is given to problems of organization, operation, materials and procedures encountered in the program.

150738 Problems in Teaching Choral Music 2-3 credits
A detailed study of the problems involved in teaching choral music in the elementary, junior high and senior high schools. Special attention is given to problems of organization, operation, procedure and materials.

150740 Seminar in Music Education Research Techniques 3 credits
A basic course for graduate music education students in research methodology in music and music education. Topics covered: Bibliographic techniques in music and music education, basic research design, basic statistical analysis, basic tests and measurement in music education, and the writing of research papers in music education. Prereq: Graduate standing with undergraduate music education major.

150791 Seminar in Music Education 3 credits
Investigation and discussion of contemporary, significant problems in music education. Topics are selected on basis of needs and desire of participants in such areas as music curriculum, tests and measurement in music, music research techniques and criticism, history and philosophy of music education.
KODALY EMPHASIS:

150759 Beginning Training in Kodaly Music Skills 3 credits
Practical application and practice in the use of hand signals, sight-singing (solmization), ear training, dictation, and analysis, through the sub-pentatonic and pentatonic modes, as applied through the Kodaly approach to music education. Prereq: Evidence of participation in undergraduate or graduate workshops in Kodaly, using basic skills and Kodaly pedagogy, or comparable basic knowledge satisfactory to the instructor.

150760 Intermediate Training in Kodaly Music Skills 3 credits
Intermediate practical application and practice in the use of hand signals, sight-singing (solmization), ear-training, dictation, analysis, and creativity, through the hexatonic and diatonic modes, as well as whole-tone and chromatic scales and harmonics, as applied through the Kodaly approach to music education. Prereq: Successful completion of 150759 or successful achievement of a test-out exam of 150759 requirements or permission of the instructor.

150761 Advanced Training in Kodaly Music Skills 3 credits
Advanced practical application and practice in the use of hand signals, sight-singing (solmization), ear-training, dictation, analysis, and creativity, through the diatonic modes, including advanced level rhythmic configurations, as applied through the Kodaly approach to music education. Prereq: 150759 (or successful test-out) and 150760.

150762 Folk Music in the Kodaly Curriculum 3 credits
An introduction to folk music analysis, with emphasis upon the traditional folk music literature of the multi-cultural entities in the United States, with application to Kodaly pedagogy.

150763 Principles of Kodaly for Choral Directors (elective) 3 credits
Kodaly principles applied to choral rehearsal and performance. Prereq: Evidence of knowledge of basic Kodaly techniques in elementary vocal/classroom music instruction, or completion of 150760.

150764 History and Philosophy of the Kodaly Concept (Required) 3 credits
An introduction to the music philosophy of Hungarian composer Zoltan Kodaly, with a brief history of its development as a method of music education in Hungary and the United States. Challenges the validity of the Kodaly philosophy in context with current theories of learning.

150765 Methodology in the Kodaly Curriculum 3 credits
Collating Kodaly’s philosophy, contemporary learning theory, folk song materials and pedagogy, into building a music curriculum compatible with the Kodaly approach. Prereq: Completion of 150764.

150766 Advanced Methodology in the Kodaly Curriculum 3 credits
Collating Kodaly’s philosophy, contemporary learning theory, folk song materials, and pedagogy, into building a music curriculum for the upper intermediate and junior and senior high grade levels, compatible with the Kodaly approach. Prereq: Completion of 150764, History and Philosophy of the Kodaly Concept, 150762, Folk Music in the Kodaly Curriculum, and 150765, Methodology in the Kodaly Curriculum. Highly desirable that full gamut of three skills courses, 150759-60-61 be completed.
MUSIC MISCELLANEOUS

150690 Workshop variable credit
Workshops are established in various areas as the need is determined by the department. Announcements of specific workshops being offered are made as the workshops are developed.

150696 Special Studies variable credit

150700 Individual Studies 1-3 credits
See page 58 for Individual Studies course description.

150798 Workshop variable credit
See page 58 for Workshop course description.

150799 Thesis Research 1-6 credits
See page 59 for Thesis course description.

THEATRE (133) and DANCE (131)

Graduate students may elect theatre courses in proper balance in the speech communication emphasis when appropriate to their degree program (M.S. in Communication). Also, when making degree plans, graduate students may elect theatre courses under the MEPD program instead of election in the M.S. in Communication program.

LIBERAL ARTS FOUNDATION COURSE

The liberal arts foundation course listed below is not to be enrolled in by students in theatre emphasis.

133704 Foundations of Dramatic Art 3 credits
An intensive study of the theatre as an art and as a cultural force. The approach is an aesthetic and historical consideration of dramatic literature and the interpretative arts of stage, motion pictures, radio and television.

SPECIALIZED COURSES

133507 Theatre Management and Promotion 3 credits
A study of theory and practice in theatre management, including ticket office procedures, house management, publicity and promotion and the special problems in educational, community, and professional theatre.

133546 Survey of Modern Drama 3 credits
Analysis of trends and developments in the modern theatre from Ibsen’s realistic plays to off-Broadway drama with emphasis on literary history and staging problems. Selected courses will be presented in the classroom. Team taught by Theatre and English faculty. Prereq: 133270 or consent of instructor.

133633 Directing II 3 credits
Study and application of contemporary directing theories and an exploration of approaches to production styles. Prereq: 133332 or consent of instructor.

133661 Contemporary Drama 3 credits
The function of the theatre as a social force in the twentieth century. Emphasis on form and content of the drama in the modern theatre with consideration of motion pictures and television. Prereq: 133270 or consent of the instructor.
133671 History of the Theatre Through 1550 AD 3 credits
Traces the development of the theatre from its origins until 1550 A.D. It considers theatre and drama in ancient Greece, Rome, the Middle Ages, the Italian Renaissance and the Orient. For each period it examines the theories and practices of such theatrical elements as playwriting, acting, directing, scenery, costuming, and the like. It seeks to discover how outside forces may have affected the development of the theatre at various times during this era and how theatrical trends established during this era may have affected subsequent developments in the theatre. Prereq: 133270 or consent of instructor.

133672 European Theatre and Drama: 1550 to 1875 3 credits
Traces the developments of theatre in Europe from 1550 A.D. to 1875 A.D., including such countries as France, Germany, Italy, Russia, and Spain. Considers playwriting practices, acting, directing, theatrical conventions, and theory and criticism. Prereq: 133270 or consent of instructor.

133674 American Theatre History 3 credits
Development of the theatre as an institution in America. Study of American drama, with emphasis on O'Neill, Williams, Miller and other contemporary playwrights. Prereq: 133270 or consent of instructor.

133690 Workshop 1-6 credits
A study group of less formal organization that the usual college course in which students share in the identification of problems and issues to be studied, principles to be discussed or methods and resources to be used. Summer theatre is offered every summer. Other workshops offered on demand.

133696 Special Studies 1-3 credits
A course which is not regularly included in the curriculum but which is offered from time to time on topics in theatre selected on the basis of need, interest or timeliness.

133699 Production Project 3 credits
Directing, designing or writing a full-length play, or the planning and presentation of a full-length acting recital or theatrical promotion campaign. The project will be conducted under the supervision of the Theatre/Dance Department faculty, and will be presented for the university and community. Prereq: 25 credits in theatre and submission and approval of proposal by the Theatre Department.

133700 Individual Studies 1-3 credits
See page 58 for Individual Studies course description.

133798 Workshop 1-6 credits
See page 58 for Workshop course description.

COLLEGE OF BUSINESS AND ECONOMICS

ACCOUNTING (210)

210541 Intermediate Accounting I 3 credits
Interpretation and application of accounting principles involving current assets and liabilities, investments and non-current liabilities along with internal and external reporting of operations in these areas. Prereq: 210244 or 210701. It is suggested that 210542 be taken concurrently.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prereq:</th>
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</thead>
<tbody>
<tr>
<td>210542</td>
<td>Cost Accounting</td>
<td>2</td>
<td>A study of how manufacturers determine and control product costs (job-order and process costing, actual and standard cost systems, absorption and direct costing). Variance analysis and reporting, and responsibility accounting are included in the discussion of cost control. The relevancy of accounting information in decision making and the allocation of service department and other joint costs are also probed. Prereq: 210244 or 210701.</td>
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<tr>
<td>210543</td>
<td>Intermediate Accounting II</td>
<td>3</td>
<td>Interpretation and application of accounting principles involving stockholders' equity, intangibles, plant and equipment, funds flow, financial statement analysis, and price-level adjusted statements. Prereq: 210541.</td>
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<tr>
<td>210651</td>
<td>Income Tax Accounting</td>
<td>3</td>
<td>A study of United States and Wisconsin income tax laws with emphasis on the individual taxpayer. The study includes a review of current proposals, discussion of practical problems in tax planning and practice in the preparation of tax returns. Prereq: 210543 and 210701.</td>
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<tr>
<td>210652</td>
<td>Advanced Income Tax Accounting</td>
<td>2</td>
<td>A study of United States and Wisconsin income tax laws with special emphasis on the treatment of corporations and partnerships. Additional topics may include installment sales, accounting for inventories, income averaging, income taxation of estates and trusts, and tax administration. Prereq: 210651.</td>
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<tr>
<td>210653</td>
<td>Auditing</td>
<td>3</td>
<td>Auditing principles and procedures. Audit programs, standards, responsibilities and controls. Professional ethics and legal responsibility. AICPA standards, releases and publications. The audit of EDP systems and statistical sampling techniques. Prereq: 210751.</td>
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<tr>
<td>210654</td>
<td>Accounting Information Systems</td>
<td>2</td>
<td>A study of the principles underlying the objectives of information systems and the design of such systems. The impact of computers and data transmission equipment on the gathering, processing and reporting of financial and operating information. The application of principles to basic financial systems with emphasis on the information requirements for business decision making and internal control over data processing. Prereq: 250705, 210755 or consent of instructor.</td>
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<tr>
<td>210655</td>
<td>Governmental and Not-For-Profit Accounting</td>
<td>2</td>
<td>A study of accounting and report preparation for governmental units at the city, county, and state level. Also a study of the accounting procedures of the federal government, public schools, college and universities, and hospitals. Prereq: 210543.</td>
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<tr>
<td>210656</td>
<td>Advanced Cost and Controllership</td>
<td>3</td>
<td>An in-depth study of cost behavior patterns, profit-planning, performance measurement, and performance analysis. Advanced phases of cost analysis including problems with standard cost, direct costing, budgeting, cost-volume-profit analysis, differential costs, and capital budgeting. The study includes application of regression analysis, linear programming, discounted cash flow techniques, PERT, and EOQ. Prereq: 210542 or 210701.</td>
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<tr>
<td>210657</td>
<td>CPA Problems</td>
<td>3</td>
<td>A review of accounting problems covered in recent CPA examinations and a study of approaches to problem solution. Major emphasis is on the practice section of the CPA examination; however, the theory, auditing and law sections are treated indirectly in connection with the review for the practice section. Prereq: 210543, 210661, 210751, 240342 and the consent of the instructor.</td>
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</table>
210658 Budgeting: Profit Planning and Control
An in-depth look at the concepts and techniques of creating a firm's financial plan. Emphasis is on analysis of past costs so as to predict future patterns, forecasting of sales, production cash, and other components while stressing the need for the commitment, involvement, and coordination of management. Control techniques are studied using variance analysis in the context of a responsibility accounting system. Prereq: 210542 or 210701.

210661 Consolidations and International Accounting

210662 Ethics and Standards of the Accounting Profession
A specialized study of the ethical standards of the accounting profession. The course covers professional competence, independence, attitudes, compliance with accounting and auditing standards, S.E.C. Rules and Opinions as they affect the public auditor, and ethical responsibilities involved in the accountant's relations with the legal profession and his/her civic responsibilities as a professional. Prereq: 20 credits of accounting.

210663 Advanced Accounting
Advanced study of the theory underlying the principles and concepts of accounting for partnerships, joint ventures, consignments, installment sales and estates and trusts. Application of actuarial science principles and procedures to business problems. A study of insolvency and receivership accounting, the principles of governmental (fund) accounting, and recent FASB Statements not covered in 210541, 210543 or 210661. Prereq: 210543.

210664 Analysis of Financial Reports
Analysis and interpretation of accounting statements with emphasis on structure, terminology, ratio analysis, and preparation of interpretive reports. Prereq: 210541.

210690 Workshop
Workshops are established in various areas as the need is determined by the department. Announcements of specific workshops being offered are made as the workshops are developed. Prereq: Consent of instructor.

210696 Special Studies
A course designed to give students an opportunity to pursue special topics in accounting according to the individual interests and career objectives of the student. A limit of three credits can be applied toward the accounting major and a limit of six credits toward a degree.

210700 Individual Studies
See page 58 for Individual Studies course description. May be repeated one time.

210701 Accounting Foundations
The course is an accelerated coverage of the equivalent of Accounting Concepts and Managerial Accounting at the undergraduate level. The content includes a study of the accounting cycle, financial statement preparation and interpretation, major cost accounting systems and cost analysis for business decision making.

210751 Financial Accounting
Advanced study of the theory underlying the principles and concepts of accounting for partnerships, joint ventures, consignments, installment sales and estates and
trusts. Application of actuarial science principles and procedures to business problems. A study of insolvency and receivership accounting, the principles of governmental (fund) accounting, and recent FASB Statements not covered in 210541, 210543 and 210661. Prereq: 210543.

210755 Managerial Accounting and Controllership 3 credits
Managerial requirements and uses of accounting information, flexible budgeting, capital budgeting and break-even analysis. Analysis of cost-profit-volume relationships, direct costing, historical costs, current costs and price level adjustments. Includes application of regression analysis, linear programming, discounted cash flow techniques, PERT, and EOQ. Prereq: 210542 or 210701, and 230703.

210761 Accounting and Management Information Systems 3 credits
A study of the theory and principles underlying the design and installation of accounting and management information systems; consideration of the integration and impact of the computer on the total information system. Prereq: 250705 and 210751.

210765 Advanced Auditing 3 credits

210775 Income Determination 3 credits
A critical study of the principle concepts of income determination with detailed analysis of the historical cost, price-level adjusted, current replacement cost and current value methods of income measurement. The course also includes a review of other input and output value systems. Prereq: Consent of instructor.

210781 Advanced Accounting Theory I 3 credits
A study of accounting theory at the advanced level. An indepth study of accounting principles and standards with particular reference to established theory. Prereq: 210751 or consent of instructor.

210782 Advanced Accounting Theory II 3 credits
A continuation of 210781. A study of accounting theory at the advanced level. An indepth study of accounting principles and standards with particular reference to established theory. Prereq: 210751 or consent of instructor.

210798 Workshop
See page 58 for Workshop course description.

BUSINESS EDUCATION AND OFFICE ADMINISTRATION (220)

All candidates for the Master of Science in Teaching degree with an emphasis in business education must complete a minimum of 15 hours in their field of specialization. The following courses must be included within the program: 220762; 220751, 220752, 220754, or 220640; and 220765, 220660, or 220661. Under extraordinary circumstances, substitutions may be made by the student’s emphasis adviser in Business Education.

LIBERAL ARTS FOUNDATION COURSE

The liberal arts foundation course listed below is not to be enrolled in by those in the business education emphasis.

220701 The Consumer in Contemporary Society 3 credits
A reading and discussion course involving a study of personal resource management including decision making to acquire goods and services, rights and responsibilities,
consumer protection, and inquiry into larger business-economic problems that arise because of the way consumers behave. Open to business education emphasis students only with advance approval of instructor.

**SPECIALIZED COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>220560</td>
<td><strong>Merchandise Analysis</strong></td>
<td>3</td>
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<td>A study of two types of merchandise—textiles and non-textiles. The study of textiles will include the production and manufacturing process from fiber to finished fabric, textile terminology, and trade names; identification, testing of fibers, and care of fabrics. Materials, other than textiles used in the creation of merchandise are covered through the study of raw materials. Categories of merchandise studied will include leather goods, floor coverings, glass, pottery and china, and furniture. Prereq: Consent of instructor.</td>
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<tr>
<td>220561</td>
<td><strong>Merchandise Management</strong></td>
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<td>Instruction concerning business functions involved in bringing goods to the retail point of sale, and adjusting and merchandising stock so the retail businessman can satisfy customer demand. The course explores in depth the issues, basic concepts, problems and techniques involved in effective retail merchandising methods. Prereq: Consent of instructor.</td>
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<tr>
<td>220562</td>
<td><strong>Visual Merchandising</strong></td>
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<td>A specialized course dealing with application of principles of visual display for retail merchandise. Designed to familiarize students with aspects of visual merchandising front window and interior display standpoints. Intended for students who plan to teach appropriate business courses or to work in retailing. Prereq: Consent of instructor.</td>
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<tr>
<td>220563</td>
<td><strong>Retail Sales and Distribution</strong></td>
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<td>The various methods of retail selling and salesmanship of products and services are covered with emphasis on the technical and psychological aspects of department store as well as small retail store selling. Prereq: Consent of instructor.</td>
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<tr>
<td>220640</td>
<td><strong>Methods of Teaching Distributive Education</strong></td>
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<td>A practical analysis of the various methods, teaching devices, and sources of information in teaching distributive education. Teaching content of the various related courses will be analyzed.</td>
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<tr>
<td>220643</td>
<td><strong>Administrative Office Management</strong></td>
<td>3</td>
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<td></td>
<td>The solution of office problems from the point of view of the supervisor, including principles of management and office organization with consideration to physical facilities, the general nature of office work, personnel relations, and managerial control of office output.</td>
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<tr>
<td>220645</td>
<td><strong>Records Management</strong></td>
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<td></td>
<td>The development of the principles of records administration including creation, use, maintenance and destruction. A discussion of storage facilities, records classification, forms and reports control, protection of vital records and micro-image systems.</td>
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<tr>
<td>220647</td>
<td><strong>Data Processing for Business Teachers</strong></td>
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<td>A study of the development of data processing and a thorough treatment of data entry equipment through lecture and “hands on” experience; an introduction to instructional programs for secondary schools through the identification of objectives for teaching data processing, planning facilities and equipment, evaluating instructional materials, planning curriculums and developing resource units.</td>
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</table>
220660 Principles of Vocational Education 2 credits
The history and development of vocational education both in the United States and Wisconsin are explored. In addition the administrative structure of vocational education at the local, state, and national levels is outlined. The various vocational program areas are discussed with emphasis given to issues, trends, and problems in vocational education. The role of the vocational education occupational preparation program teacher/coordi- nator is introduced. This offering meets the Department of Public Instruction's course requirement for vocational certification. The course also fulfills one of the certification requirements of the Wisconsin Board of Vocational, Technical and Adult Education.

220661 Organization and Administration of Vocational Programs 3 credits
A study of vocational occupational preparation programs which utilize the project/simulation method or the cooperative method of instruction. Included in the course are the knowledges and procedures necessary to implement the quality components of a vocational occupational preparation program. Current issues facing vocational education will also be discussed such as understanding the challenges which are facing vocational education in the emerging world of work. The cooperative method, procedures, and techniques are stressed. This course satisfies the Department of Public Instruction's program approval requirement for teachers in funded cooperative education programs. Prereq: 220460 or 220660 or equivalent.

The above prerequisite does not appear in the last graduate catalog but is in the undergraduate 1979-1981 catalog.

220662 Coordination Techniques 1 credit
This course covers techniques of how a vocational education teacher can successfully coordinate a vocational program using the cooperative method. Students will have the opportunity to demonstrate their skill in coordination techniques through field experience and role playing. Specific topical areas covered are: how to locate job training sites, how to convince the employer to participate in the program, and how to articulate the classroom curriculum with the part-time job experience. Prereq: 220460/660 Principles of Vocational Education or equivalent.

220690 Workshop variable credit
See page 64 for Workshop course description.

220696 Special Studies variable credit

220700 Individual Studies 1-3 credits
See page 58 for Individual Studies course description.

220751 Improvement of Instruction in Skill Subjects 3 credits
A study of current trends in the teaching of skill subjects. Current literature and research will be utilized in discussing objectives, instructional materials and equipment, teaching procedures and evaluation techniques.

220752 Improvement of Instruction in Accounting and Basic Business Education 3 credits
A study of the objectives, instructional materials available, teaching techniques and testing procedures reported in current literature and recent research.

220753 Touch Shorthand Theory and Practice 2-3 credits
Designed to develop an understanding of the stenograph machine as a medium for direct computer input; theory and use of "touch shorthand." It is presumed that participants in this course will have knowledge of skill building as presented in undergraduate courses.
220754 Improvement of Instruction in Business Communication 3 credits
A course designed to provide help in the designing of creative teaching materials for the improvement of instruction in business communication. Materials developed will provide new approaches to the teaching of business communication, and in interaction and exchange sessions participants will explore a variety of situational problems which will provide insight into individual problems in the teaching of business communication.

220755 Teaching Data Processing 3 credits
Content, materials and techniques in teaching data processing in secondary schools. Includes development, present status and trends in data processing. Special emphasis on physical facilities and equipment. Prereq: 220447/647.

220758 Trends in Business Teaching—Secretarial 2 credits
Designed to improve instruction through an evaluation of pertinent research and current literature; analysis of course materials, objectives, planning, evaluate devices and management of the classroom.

220759 Trends in Business Teaching—Basic Business and Accounting 2 credits
Designed to improve instruction through analysis of current objectives, new materials, revised methods and accepted evaluation techniques. Includes a review of research and current literature.

220762 Current Problems in Business Education 1-3 credits
A study of the problems currently confronting the supervisor, teacher, and student of business education on both secondary and post-secondary level. Includes a study of curriculum development and objectives of business education.

220763 Programming Business Data 3 credits
Programming business data builds on the background and experience of the teachers enrolled. Students may program in BASIC, COBOL, and/or FORTRAN. Students will program in the language of the computer or computer services available at their school and in the language best suited to meeting the needs of the students in their classes. Prereq: 220447/647, 250211 or equivalent, or consent of instructor.

220764 Administration and Supervision of Business Education 3 credits
Administration and supervisory problems of business education programs in secondary and post-secondary schools. Topics include local, state and federal programs; financial support; physical layout, equipment and furniture; training; selection, assignment and evaluation of teachers; curriculum development; public relations and publicity.

220765 Occupational Information and Vocational Guidance in Business Education 3 credits
Guidance procedures particularly appropriate for use with secondary and vocational school business education students. Specific study of activities performed by high school and vocational school business teachers, such as disseminating occupational information, job analysis, interviewing techniques, employment and training opportunities, placement, follow-up and psychological testing.

220766 Word Processing and Management 3 credits
A panoramic view of word processing equipment to be used in business offices. An opportunity for business teachers to use effectively equipment found in word processing systems through discussion and hands-on experience.

220767 Office Communications, Systems and Procedures 3 credits
The modern office as the center of communications for the business enterprise. Exploration of worker competencies necessary for employment in the office of today.
Designed for business teachers in secondary and post-secondary schools who are concerned with preparing students for office occupations.

220768 Accounting Systems and Procedures 3 credits
A study of the significant developments in accounting procedures on organizational patterns and business practices and their effect on the clerical labor force; techniques and procedures by which information is gathered and made available for processing in accounting; and data processing in accounting procedures. This course is primarily for the high school bookkeeping teacher.

220769 Basic Business Concepts 3 credits
Designed to provide the student with a better understanding of the principles of business administration areas including pertinent information relating to the history, importance, measurement and process of the growth of our economy as they relate to national goals and future welfare; the principles of producing and selling goods and services.

220776 School Personnel Administration 3 credits
290776 Designed to provide knowledge of the theory and function of school personnel administration and the manner in which it may serve to secure, develop and retain people with skills, attitudes, and knowledge essential for the accomplishment of the school's objectives.

220792 Occupational Experience 3-6 credits
Designed to be undertaken by qualified business teachers and prospective teachers through participation in a coordinated work-study program in certain business offices or retail establishments. This course correlates classroom training and experience with office or distributive experience and standards. Prereq: Advance approval of instructor.

220796 Special Studies in Business Education 1-6 credits
A study of special topics in business education that are not regularly included in the curriculum.

220797-1 Institute variable credit

220798 Workshop variable credit
See page 58 for Workshop course description.

220799 Thesis 1-6 credits
If a student elects a thesis, a total of not more than 6 credits may be given for work on a thesis throughout the sessions in which the thesis is being written. The number of credits allowed for the thesis is arranged with emphasis professor and paper adviser.

ECONOMICS (230)

LIBERAL ARTS FOUNDATION COURSE

The liberal arts foundation course listed below is not to be enrolled in by those in the economics emphasis. It is limited to candidates in degree programs requiring liberal arts foundation courses.

230701 Current Economic Problems 3 credits
An examination of the basic economic issues and goals, including economic growth, environmental and energy resources, international economic policy, problems of competition and monopoly, and the role of the government as producer and regulator.
SPECIALIZED COURSES

220545 Business Statistics II 3 credits
Development and application of statistical methods to problems of estimation, testing, prediction, and decision making under uncertainty. Topics covered include Chi-square, goodness-of-fit test and test of independence, regression and correlation analysis, analysis of variance, Baysian decision making, and time series analysis and forecasting. The use of the computer in statistical analyses is emphasized and applications covered are oriented to problems in business and economics. Prereq: 230245.

230604 History of Economic Thought 3 credits
A study of the development of economic ideas, with emphasis on classical, neoclassical, socialist, Keynesian and institutional schools of thought. Prereq: 230211, 230212.

230611 Intermediate Microeconomic Analysis 3 credits
Price and modern microeconomic theory, pricing of products and factors of production under different market structures; modern approaches to theories of consumption and production; general equilibrium theory. Prereq: 230212.

230612 Intermediate Macroeconomic Analysis 3 credits
Income and modern macroeconomic theory; general aggregative systems; national income determination theory; composition and measurement of the national income; analysis of income generation; government policy. Prereq: 230212.

230636 Regional Economics 3 credits
An unregimented study of markets, labor, resources, services, transportation and location patterns of firms and industry. The activities competition, and patterns of urbanization within a region and spacing functions of cities. People and locational preferences leading to regional development and related policy issues.

230638 Urban Economics 3 credits
Focusing on the important aspects of urban economics: the theory of housing, location, property values and race, slums and urban renewal, public policy and the urban environment. Practical aspects of proposed solutions. Prereq: 230211.

230641 The Economics of Industrial Organization 3 credits
Application of economic theory and analysis to case studies in industry in terms of market structure, market conduct, and industry performance. Extensive treatment of the related problems of establishing criteria, gathering and evaluating empirical evidence, and formulating and implementing various public policies concerned with industrial organization and market behavior. Prereq: 230212 or consent of instructor.

230658 Urban Transportation 3 credits
Designed to acquaint the student with the varied role of transportation in cities and urbanized areas and to explore the numerous economic, technological, managerial, and political dimensions involved in effectively moving people, vehicles, goods in and through large urban centers. Prereq: An economics course or consent of instructor.

230659 Comparative Economic Systems 3 credits
A study of different types of economic organizations: Capitalistic, socialistic, communistic; some of their numerous varieties. Special emphasis on Soviet type economics. Prereq: 230212.
230663 Introduction to Econometrics 3 credits
An introduction to the quantitative approach to economic analysis. Multiple and partial correlation; statistical demand, production and cost analyses; econometric models. Prereq: 230212 and 230245.

230690 Workshop variable credit

230696 Special Studies variable credit

230700 Individual Studies 1-3 credits

230703 Statistics Foundations 3 credits
Introduction to descriptive statistics and basic statistical methods as applied to scientific problem solving and decision making. Topics covered include: Descriptive statistics, elementary probability theory, theoretical distributions, sampling distributions, estimation, tests of hypothesis, simple linear regression and correlation analysis, and index numbers.

230704 Economics Foundations 3 credits
A study of micro and macro economic tools of analysis. The functioning of a market economy in product and factor markets under alternative market structure. National income, fiscal policy and the role of the money supply.

230736 Business Conditions Analysis 3 credits
A study of the macroeconomic structure and operations of the economic system. Analysis of fluctuations in national income, output, employment, and prices and the implication of such changes on business decisions. Evaluation of the influence of monetary and fiscal policies on economic activity. Assessment of the various approaches and methodologies available for forecasting business conditions. Prereq: 230704.

230737 Managerial Economics 3 credits
Applications of microeconomic theory to problems of formulating managerial decisions. Emphasis on economics as a science that facilitate decision making. Topics considered include optimization techniques, risk analysis, analysis and estimation of demand and costs of production, market structures and pricing practice, and antitrust economics. Integrates theory and practice. Prereq: 230703, 230704, and 230702.

230751 Economics of Regulation 3 credits

230753 Labor Markets and Wage Theory 3 credits
A study of the labor market behavior of employers, workers and unions; collective bargaining in the private and public sectors; wage determination; and the effects of government on employer-employee relations. Prereq: 230704.

230754 Monetary Theory and Policy 3 credits
Theories of money and inflation, structure of debt, policies of selected financial institutions including the Federal Reserve System and their effects on the money supply and its velocity. Prereq: 230704.
230756 Public Finance and Taxation  
The objectives of the course are to develop an understanding of fiscal and economic concepts, fiscal tools, and principles of public finance in order to deal with issues in public spending and financing. The course analyzes the role of government in our complex society and the demand for public goods and services and transfer payments. Public revenues are critically examined and taxation and borrowing are analyzed so that the student will develop an understanding of current public problems.

230758 Advanced International Economics  
A study of international trade and finance issues; Multinational enterprises, international investments, currency problems, balance of payments issues. Analyzes the structure and scope of world trade and international financial markets in developed and developing countries. Prereq: 230704.

230761 Business and Economic Forecasting  
Techniques for operational business forecasting with emphasis on time-series methods. Topics covered include single and multiple regression models; trend analysis; smoothing techniques, decomposition methods; Box-Jenkins time series methods; evaluation of forecasts; and the integration of forecasting in the decision-making process. Prereq: 230703 and 230704.

230764 Quantitative Economics  
The application of mathematical and statistical methods in economic model building and analysis. Prereq: 230703, 230704 and 260702.

230767 Advanced Managerial Economics  
The course approaches managerial economics from a decision making perspective. Discussion of the logic of mathematical tools and decision-making. Demand, production, costs and pricing; functional forms, empirical results, problems of estimation. Pricing and decision-making in public enterprises. Input-output analysis. Current research is emphasized. Prereq: 230737.

230790 Readings and Research in Economics  
Directed readings in current research and literature selected to apply to a contemporary economic field, problem or issue. Prereq: Graduate standing and consent of instructor.

230798 Workshop  
variable credits

230799 Thesis  
Original research supervised by an adviser. A committee of three, including the adviser, will evaluate the acceptability of the thesis and number of credits allowable. Adviser and other committee members will be appointed by department chairperson after consultation with student. A total of 1-6 credits is authorized. Prereq: Graduate standing and 28 credits in undergraduate and graduate economics courses. Some of these may be taken concurrently with approval of adviser.

FINANCE AND BUSINESS LAW (240)

240641 Business Law Application  
An analysis of the legal aspects of decision making in business organizations using the techniques of problem solving through case study and utilizing the seminar research approach. A study of the adjudication of social issues and their effect on modern business.
240642 Estates and Trusts 3 credits
A study of the materials necessary to the formulation, execution and disposition of properties in wills, estates and trusts; also includes real estate law and transactions. Prereq: 240342 or consent of instructor.

240646 Insurance 3 credits
A study of the economic and social services of the institution of insurance. Prereq: 240344 or consent of instructor.

240656 Security Analysis 3 credits
A detailed examination of the various classes of securities available for investors, and the development of techniques used to reach dependable conclusions as to the safety and attractiveness of a given security at the current market price or at some assumed price. Prereq: 240435.

240660 Advanced Property and Casualty Insurance 3 credits
Consideration of advanced topics in property and casualty insurance. Among those items covered are direct and indirect property coverages, inland marine insurance, liability coverage, including its legal foundations, workmen’s compensation, the general liability contract, crime coverages, surety and fidelity bonding and insurance regulations. Prereq: 240446 or consent of instructor.

240664 Advanced Life and Health Insurance and Pensions 3 credits
Consideration of advanced topics in life and health insurance. Among those topics covered are principles underlying life insurance, individual life insurance contracts, business uses of life insurance, fixed and variable annuities, individual health coverages, group insurance principles and uses, and pensions. Prereq: 240446 or consent of instructor.

240690 Workshop variable credit
See page 64 for Workshop course description.

240696 Special Studies variable credit

240698 Independent Study in Finance 1-3 credits
A reading and reporting course for advanced students capable of independent work. To take this course a student must first discuss a proposed project with one of the finance faculty members. This course will be taken under the close supervision of a faculty member. Prereq: Senior or graduate standing and consent of department chairperson.

240700 Individual Studies 1-3 credits
See page 56 for Individual Studies course description.

240718 Financial Management 3 credits
Consideration of the finance function as it relates to other organizational roles, the use of capital budgeting techniques, other quantitative methods, and model building in decision making. Prereq: Graduate standing, 240344, or 210701. Not open to those who have an undergraduate finance degree.

240721 The Legal Environment of Business 3 credits
Macro Law (the nature, formation, and application of law in general) stressed in the environmental approach as contrasted with the traditional micro approach (the detailed substantive rules in areas such as contracts, agency and business organizations). In addition, an overview of the major areas of private law.
240731 Advanced Trusts and Estates
This course will involve an advanced, in depth, study by graduate students of the law which relates to the field of probate, including the legal responsibilities of trustees, guardians, personal representatives, conservators and other fiduciaries. The insurance, real estate, stock sale and banking industry all require career-oriented persons who have a working knowledge of this field of law. These persons are generally in managerial positions and are called upon to act in the fiduciary capacity. Prereq: 240721 or 240341. Credit for Estates and Trusts: 240442/240642 and 240731 will not be given.

240750 Real Estate Finance and Investment
3 credits
Consideration of the institutional environment affecting the financing and ownership of real estate. Detailed evaluation of both the nature of and the risks associated with lender and investor yields from real estate investment. Special attention will be given the extent to which financial leverage and tax considerations affect risk and return. Prereq: 240718 or consent of instructor.

240760 Financial Markets
3 credits
Structure and operation of the markets for corporate debt and equity securities, municipal obligations and mortgages. Detailed examination of stock markets and their use by investors. Prereq: 240344 and 240345 or 240718.

240770 Capital Budgeting
3 credits
Financial planning for working capital management and long range investment projects. Emphasis on capital budgeting problem solving. Readings on capital budgeting and related topics; cost of capital structure, and dividend policy. Prereq: 240718 or concurrent enrollment.

240780 Portfolio Theory and Practice
3 credits
Formulation of objectives and the development of portfolios to meet these objectives for individuals and institutions. Special attention will be focused on statistical and analytical techniques for portfolio selection and management. Prereq: 240718 and 260731 or consent of instructor.

240790 Readings and Research in Finance
3 credits
Selected readings in current periodicals and publications chosen to deal with contemporary problems and issues in investments, banking institutions and financial management.

240798 Workshop
See page 58 for Workshop course description.

variable credit

240799 Thesis Research
See page 59 for Thesis course description.

1-6 credits

MANAGEMENT (250)

Students should check with the Associate Dean, College of Business and Economics, to find out when courses will be offered and the current prerequisites. All courses are 3 credits, except as noted.

250700 Individual Studies
1-3 credits
An opportunity for a student to explore in more detail a specific field of study. Student and adviser will develop a proposal, with the consent of the professor(s) in charge of the study and the approval of the College Graduate Studies Committee. A student may satisfy up to 3 credits of the 9 credit Emphasis by pursuing this course
with one or more members of the graduate faculty. A copy of the proposal must be on file in the Associate Dean's Office prior to registration.

**250705 Computer Foundations** 3 credits
The course explores the role of the computer system in business operations, control and decision making. The student learns to program and to design systems. Emphasis is placed on the analysis of the business environment as the starting point for systems design. The course will include special topics on the use of existing software.

**250719 Operations Management** 3 credits
A survey course focusing on the performance of managerial activities entailed in selecting, designing, operating, controlling, and updating productive systems. This life cycle approach will include treatment of non-manufacturing activities, and will draw heavily upon latest developments in the field. In the analysis of operating functions of the manager, a text is used along with problems or cases in key areas. An oral presentation and/or a written report covering a case study, research topic, or computer application are required. Prereq: M.B.A. Tool Foundation courses.

**250720 Organization Theory and Policy** 3 credits
An analysis of organization theory and research. The history of organization theory and the economic, political and social influences on its development. Major theories in scientific management, classical administrative organization, neo-classical management theory and modern organization theory, and policy formation are covered.

**250741 Managerial and Organizational Behavior** 3 credits

**250751 Management of Human Resources I** 3 credits
An examination of the organization and administration of the personnel function in management. It is concerned with the employment, training, safety and health, employees services, and employee relations functions of personnel administration. Attention is focused upon a limited number of topics drawn from these areas so more crucial concepts and methods involved may be dealt with in depth.

**250752 Management of Human Resources II** 3 credits
An examination of the organization and administration of varied compensation programs in profit as well as nonprofit organizations. It is concerned with a detailed study of job structures, methods of job evaluation, performance appraisal, wage surveys, basic systems and plans of compensating employees, and fringe benefits. Attention is focused upon a limited number of topics drawn from these areas so that the more crucial concepts and methods involved therein may be dealt with in some depth. Prereq: 250751.

**250758 Conflict Resolution in Labor Relations** 3 credits
Primary concern is with the setting and the dynamics of contract negotiation and administration. Emphasis is on the development of insight and understanding of the forces affecting the decisions of the parties to a labor contract. A dynamic approach is taken to examine difficulties that arise in attempting to administer a collectively established relationship between employer and employees. Investigation of different means of conflict resolution including mediation, fact finding, and arbitration processes.

**250761 Operations Planning and Control** 3 credits
A case-study course focusing on major strategic operating decisions faced by production vice-presidents and their staffs. These decisions include production capacity, type of production system, vertical integration and timing of change. The require-
ment for operational performance which originates in the corporate planning process and the task of profit planning in various industries is considered via case studies of real world business situations. A research paper and presentation covering in depth an industry of interest to the student are required. Text and cases are used. Prereq: 250719.

250762 Inventory Systems 3 credits
This quantitative course is designed to expose the students to a thorough treatment of the many common and most useful inventory systems and their impact on materials management. The inventory systems covered will include purchase and production order quantity systems, fixed order size and interval systems under risk and uncertainty and single and multiproduct stochastic models. Further attention will be paid to such topics as forecasting, inventory system design characteristics, evaluation and control of inventory systems. A project involving design and implementation of a real world inventory situation of interest to the student is required. Text and reference material are used. Prereq: 250719 and 260731.

250768 Manufacturing Policy 3 credits
Focuses on the strategic implications of major manufacturing decisions facing the top manager, such as the manufacturing vice-president. Different industries are explored in depth relative to their evolving technologies, critical processes, cost structures, and competitive conditions. Industry-oriented case studies are used to encourage the critical analysis of individual firms within the industry; this includes evaluating the firm's policies, competitive strategies, and the impact of major manufacturing decisions on corporate performance. Prereq: 250719.

250769 Manufacturing Seminar 3 credits
A quantitative course focusing on techniques that are primarily unique to the production/manufacturing area. Topics may include facility layout, line balancing, scheduling, sequencing, reliability, quality control, and others of use to the functional specialist in systems producing goods or services. A research paper and seminar presentation covering a topic of interest will be used. Prereq: 250719.

250770 Organization Design 3 credits
Examines organizational analysis implications and develops rationale for management practice. Examines effective organizational structures through analysis of relationships of organizational variables. Investigates firm-environment matches. Develops frameworks for organizational analysis, research and design. Provides analysis of the major overall considerations relevant to the effective design of organizations. Prereq: 250720 or equivalent.

250771 Strategic Management & Planning 3 credits
The course deals with practical methods and applications based upon sound theory, research, and practice of strategic management and planning, and management control and operational control systems. Comparative analysis of emerging strategic management frameworks will be examined with implications for management practice. Prereq: 250720 or equivalent.

250790 Readings and Research in Management 3 credits
Study of a selected area in management through readings and/or empirical research. Prereq: Permission of instructor and department chairperson.

250791 Business Policy and Environment 3 credits
Study of the legal, political, social, technological and economic environment in which business operates. The course integrates this environmental study with development of organization policy concerning planning and administration of the functional activities of the business. Prereq: Last semester of program.
250798 Workshop variable credits
Workshops are established in various areas as the need is determined by the department. Announcement of specific workshops being offered are made as the workshops are developed.

250799 Thesis Research 1-6 credits
Guided investigation of an approved thesis topic. Student may receive credit for research activities planned in conjunction with his/her adviser and thesis committee and leading to the completion of a master's degree. Requires advance approval of the MBA Program Director.

MARKETING (260)

260610 Quantitative Analysis for Marketing Decisions 3 credits
Quantitative decision-making techniques are surveyed and critically analyzed as they apply to realistic marketing situations. The analysis of marketing systems is also introduced. Prereq: 260311 and 230245.

260620 Consumer Behavior 3 credits
A survey of the theories of consumer behavior. Contributions from the social sciences and their applications to marketing. Prereq: 260311.

260636 Purchasing and Materials Management 3 credits
An integrated approach to the problems of inventory determination, purchasing, incoming traffic and industrial marketing from the viewpoint of the manager of materials. Cases studied. Prereq: 260311.

260642 Physical Distribution Systems Analysis 3 credits
Analysis of the problems encountered in the physical movement of goods from the end of production to the consumer. Emphasis is on analyzing an integrated physical distribution system for a business firm. Various techniques and methods for analyzing spatial arrangements of markets, plant and warehouse location, inventory systems, selection of carrier alternatives and physical movement channels are surveyed. Prereq: 260311 and 230245.

260696 Special Studies variable credit

260700 Individual Studies 1-3 credits
See page 58 for Individual Studies course description.

260702 Mathematics Foundations 3 credits
Development of analytical concepts of mathematics needed for management applications. The course is designed to prepare students in business administration to communicate in mathematical language and to help them improve their understanding of quantitative and statistical applications in business administration. Covered in the course are basic algebra, set theory, matrix algebra, linear equations, polynomials and their graphs, limits and the derivative, higher derivatives and partial derivatives, and integral calculus. Emphasis is placed on business decision making.

260716 Marketing 3 credits
Analysis of the institutional, behavioral, competitive, legal and intra-firm aspects of the marketing function in business and other organizations. Prereq: Graduate standing and Microeconomics.

260731 Advanced Statistical Methods 3 credits
Applications of probability theory and advanced statistical methods to managerial problems of prediction, inference, and decision making under uncertainty. Topics covered include probability theory, decision theory, sampling theory, analysis of vari-
ance and fundamentals of experimental designs, multiple correlation and regression, time series analysis and forecasting and selected nonparametric methods. Emphasis is placed on the application of these tools and techniques in different areas of business administration. Prereq: Graduate standing and demonstrated proficiency in mathematics and statistics or 260702 and 230703, or 760143, 760243 and 230245.

260732 Operations Research 3 credits
Application of scientific problem solving techniques to the business decision process. The essence of this management science approach is the model-building process which includes the following: linear programming, postoptimality analysis and duality theory, game theory, transportation model, assignment model, transshipment model, integer programming, dynamic programming, goal programming, network models, queueing theory and simulation. Prereq: Graduate standing and demonstrated proficiency in mathematics and statistics or 260702 and 230703 or 760143, 760243 and 230245.

260733 Seminar in Methodology of Business Research 3 credits
Designed to acquaint the graduate student with the research process, its tools and techniques, as well as the methods which form a basis for business planning, decision making, and problem solving. Covered in the course are scientific methodology, research design and strategy, data collection and measurement, model building, selected data analysis techniques, preparation for research proposals and reports and critical evaluation of research. Emphasis is given to the study and critique of published research and to the design, development and reporting of a research project. Prereq: 260731 or consent of instructor.

260751 Buyer Behavior 3 credits
The study and explanation of the behavior of consumers, research methods and findings from the behavioral sciences. Prereq: 260716 or equivalent.

260760 Seminar in Marketing Theory 3 credits
Marketing theory is probed and analyzed in terms of its historical development, foci and the current investigation for more systematic and rigorous conceptions of the marketing process. Prereq: 260716 or equivalent.

260761 International Business (Marketing) 3 credits
Fundamental aspects of international business will be studied. Emphasis is placed on decision making in an international setting and appraisal of market opportunities world-wide. Cases will be used to illustrate operational problems of multinational organizations as well as international intermediaries. Prereq: 260716 or equivalent.

260764 Sales Planning and Market Analysis 3 credits
Focus is directed toward the construction of an operational sales model for the individual firm by the sales/marketing department. Coverage includes application of quantitative techniques for determining sales and target market potential with emphasis on operational decisions. Topics covered will include marketing applications of regression models, smoothing techniques, sales trend analysis, effect of seasonality in predicting sales, marketing applications for the Box-Jenkins approach to time series analysis, measuring sales forecasting error, and marketing decision making under uncertainty. Prereq: 250705 Computer Foundations; 230761 Business and Economic Forecasting or consent of instructor; 260716 Marketing or equivalent.

260770 Product and Price Management 3 credits
An in-depth examination of the theoretical frameworks, practices, and empirical findings as they relate to product and pricing decisions in the firm. These decisions include designing and modifying an optimum product-market portfolio; determining the nature, number, and timing of new products to be offered, and to what markets. Marketing tasks of screening new product ideas, concept testing, early prediction of
performance, and test marketing will be examined. The difficulties of making pricing
decisions, current methods of setting prices, and the relevance of internal costs for
pricing will also be discussed. Prereq: 260716 or equivalent, 230737 or consent of
instructor.

260774 Corporate Marketing Planning
Analysis of the planning process in the marketing oriented enterprise culminating
with the development of a marketing plan based on a current business problem. The
supportive nature of staff functions is analyzed from the viewpoint of its contribution
to total marketing planning and strategy. Prereq: 260716 or equivalent.

260780 Seminar in Current Marketing Topics
Intensive and critical examination focused on a specific substantive marketing prob-
lem area. Topics will vary. Prereq: 260716 or equivalent.

260790 Readings and Research in Marketing
Study of a selected area in marketing through readings and/or empirical research.
Areas of study will be selected by the student in consultation with an adviser. Prereq:
Consent of instructor.

260798 Workshop
See page 58 for Workshop course description.

260799 Thesis Research
See page 59 for Thesis course description.

SCHOOL BUSINESS MANAGEMENT (290)

Courses marked by an asterisk (*) are designed specifically for School Business Manage-
ment majors and will not apply toward the M.S.T., M.A.T., M.S. Accounting, or the M.B.A.
degrees except by special permission of the major or emphasis department.

290700 Individual Studies
See page 58 for Individual Studies course description.

430769 Supervision of Instruction
Analysis of basic concepts of supervision and competencies essential to effective
supervisory performance. Extended examination of current and emerging supervi-
sory practices found in local school districts. Supervision as a process is considered
in a variety of roles and positions of leadership.

290770 School Finance and Accounting*
For administrators and other educators who desire to learn the principles and con-
cepts of school finance, of school business and fiscal affairs, of school budgeting and
of school accounting practices and procedures.

290771 School Business Management Techniques*
Designed specifically for prospective school business managers and other school
administrators who desire to become acquainted with various management con-
cepts and techniques in school business operations and with applications that can
utilize machine systems for efficient operations. Prereq: 290770 or administrative
experience.

290772 Legal Aspects of Education
Seeks to present in nontechnical language to educational practitioners legal infor-
mation on all facets of school operation, including the liability of school districts and
employees, school fund and indebtedness, administration, pupil governance, retire-
ment benefits, and employment relations.
290773 School Plant Planning* 3 credits
A study of school plant needs of the local district: School building survey, site selection, estimating enrollments, economy, modernization of old school buildings and functional planning of various areas of the school building.

290775 Administration and Organization of the Public Schools 3 credits
A survey of the foundation, organization and administration of the American public school system. Designed for teachers, administrators and school business managers.

290776 School Personnel Administration 3 credits
Designed to provide knowledge of the theory and function of school personnel administration and the manner in which it may serve to secure, develop and retain people with the skills, attitudes and knowledge essential for the accomplishment of the school's objectives.

290777 School Auxiliary Services Management 3 credits
This course is designed for students seeking background knowledge and training in the management of school auxiliary services. The course emphasizes the processes and procedures necessary in the management of food services operations, school transportation operations and plant/maintenance operations.

290778 Internship in School Business Management 1-6 credits
The internship is a clinical experience which provides the prospective school business manager with many varied opportunities to learn in an actual school setting. The internship is normally a salaried 9 or 18 week assignment in a local school system. Applications for the internship must be made one semester in advance of the desired internship period. Prereq: 290770, or two of the following: 290771, 290776, or 290772.

290779 Workshop for School Business Officials 1 credit
Specifically designed programs for those responsible for school business affairs whatever their office title. The workshop will deal with new concepts and problems as applied to school business operations.

290782 Collective Negotiation in Education 3 credits
Designed for school administrators and other educators who desire to learn the principles and concepts, and acquire the skills needed in collective negotiations and contract management in the public schools. Prereq: 290772 or consent of instructor.

290784 Educational Politics and Policy 3 credits
427784 Designed for individuals who will administer or create educational policy in the public schools and who desire to explore the political nature of educational policy formulation and decision making at the local and state levels.

290798 Workshop variable credit
See page 58 for Workshop course description.

290799 Thesis 1-6 credits
If a student elects a thesis in lieu of a comprehensive examination, a total of not more than six credits may be given for work on the thesis throughout the sessions in which the thesis is being written. The number of credits allowed for the thesis is arranged with major professor and paper adviser.
COLLEGE OF EDUCATION

COLLEGE OF EDUCATION (405)

405699 Employment Strategies  1 credit
Designed to acquaint the teacher education student with the problems and procedures of securing a teaching position. Includes consideration of professional ethics, preparation of placement credentials, teacher certification practices, interviewing techniques and teaching contracts. Reviews opportunities for professional advancement through graduate study. (Open to teacher education students. Should be taken the semester prior to graduation or the semester of graduation.)

COACHING (41-)

411660 Organization and Administration of Athletics  3 credits
This course is designed for those individuals who wish to become athletic coaches and/or administrators. The place of athletics in education and the organization and administration of an athletic program will be covered. A research paper dealing with an appropriate topic will be required.

411661 Prevention and Care of Athletic Injuries  3 credits
Principles governing the prevention and treatment of common athletic injuries. A research paper dealing with a mutually agreed upon topic will be required.

413690 Workshop in Intercollegiate or Interscholastic Athletics  1-6 credits
Workshops will be designed to meet the needs of men and women working in the field of interscholastic or intercollegiate athletics. Workshops will vary in purpose and content depending on current needs of prospective students and the latest trends of the various sports and related areas. A research paper will be required dealing with a mutually agreed upon topic between the student and instructor.

413696 Special Studies  1-4 credits
A course designed to enable the Coaching Department to offer studies of a highly specialized nature in areas not available through other means.

413700 Individual Studies  1-3 credits
Individual study and investigation of a problem arrived at by the student and a sponsoring instructor with a minimum of external guidance. The graduate student may select 1-3 credits of work per semester.

413798 Workshop in Athletics  1-6 credits
Workshops will be designed to meet the needs of men and women working in the field of interscholastic or intercollegiate athletics. Workshops will vary in purpose and content depending on current needs of prospective students and the latest trends of the various sports and related areas.

EDUCATIONAL FOUNDATIONS AND COUNSELOR EDUCATION (420-429)

FOUNDATIONS (420)

420643 Education in Urban Society  3 credits
Designed for students who plan to teach disadvantaged students in urban schools. Attention will be directed to major problems confronting urban education, the social and psychological experiences of disadvantaged students and an analysis of the role of the teacher in urban society.
420702 Philosophical Foundations of Education 3 credits
Identification of problems, ideas and values that western man has found to be of continuing concern as each generation has sought to educate its children.

420704 Sociological Foundations of Education 3 credits
Designed to relate the discipline of sociology to the field of education; to provide a meaningful background to social experiences; to acquaint the student with relevant research in the field of educational sociology. Open to elementary and secondary teachers.

420705 Educational Classics 3 credits
Selected writing significant to education will be explored in depth. The social context in which each work was written will be examined and the author's thesis and purposes will be analyzed. Expert opinion as to its educational value will be reviewed.

420706 John Dewey's Educational Philosophy 3 credits
The philosophical and psychological bases of the pragmatic-experimentalist impulse in education will be explored. Several of Dewey's major works which are of particular significance for education will be analyzed in detail.

420707 Significant Issues in Education 3 credits
An examination of significant issues in education and their ideological and social bases. Open to elementary and secondary school teachers and to others interested in the topic.

420708 History of Education in the American Culture 3 credits
This course is designed to give the student the historical base necessary to the recognition and solution of current and future problems in American education. It will deal with American education as it developed within the changing cultural setting from colonial times to the present.

420760 Comparative Education and Supervised Overseas Fieldwork 6 credits
This course is designed to provide experienced teachers with the opportunity to study comparative education through placement in an overseas school.

COUNSELING (421)

421650 Introduction to Guidance 3 credits
Designed to provide a basic understanding of the organization and administrative principles and practices of guidance and counseling programs in various settings; a method of working systematically and effectively with the social, educational, vocational and personal concerns of all individuals.

421652 Career Education: Theory and Practice 3 credits
Designed to assist individuals in the implementation of guidance-oriented career-planning activities. Emphasis is placed on the career education concepts and methods and techniques of implementing career education in both educational and non-educational settings. Prereq: Consent of the instructor.

421677 Counseling Women and Girls 3 credits
Practicing and graduate counselors and undergraduates who have had experience in working with women or counseling will analyze traditional and current theories and practices of counseling women. Alternative programs and strategies will be developed and practiced. Prereq: 840486/686, or 860492, or 421718, or written consent of instructor.
421718 Principles of Counseling 3 credits
Principles of relationship building, conducting interviews and the counseling process are discussed and practiced in a laboratory setting. Role-playing and video taping are used to provide feedback and experience. Prereq: Admission to the counselor education program or consent of instructor.

421719 Appraisal Procedures in Counseling 3 credits
Methods of appraising individual differences will be considered. Emphasis will be placed on the utilization of measurement procedures in the counseling setting. Discussions and laboratory experiences will center on the use and interpretation of standardized and non-standardized measures of appraisal with individuals and groups. Prereq: 421718 or consent of instructor; concurrent enrollment permitted.

421720 Vocational Development and Information Services 3 credits
Designed to familiarize students with the major conceptualizations of vocational development and the application of these concepts in counseling. The cultural and sociological meaning of work and the present and future occupational trends are discussed. Attention is also given to the nature and application of educational-occupational-social information in the counseling and guidance process. Prereq: 421718, 421726, or consent of instructor; concurrent enrollment permitted.

421721 Group Procedures in Counseling 3 credits
A discussion and laboratory course designed to assist students to learn concepts and skills related to working with small interaction growth groups. Principles of group development and group dynamics are investigated through didactic assignments and participation in an experiential laboratory group. Consideration is given to the application of small group procedures in specific counseling settings. Prereq: 421718, 421726, and 421722 or concurrently.

421722 Theories of Counseling 3 credits
Foundations of theoretical concepts in counseling; discussion of trait-factor, behavioral, psychoanalytic, perceptual field and existential counseling approaches; application of theoretical concepts in various counseling settings; examination of current problems and ethical issues in counseling. Prereq: 421718, 421726 or consent of instructor.

421723 Counseling in Elementary and Junior High Schools 3 credits
Designed primarily for students planning to become elementary or junior high school counselors. Discussions include consideration of counseling approaches with children; consulting with teachers, parents and other pupil service specialists; various procedures and activities which facilitate the counseling of the child. Prereq: 421718, 421726 or consent of instructor.

421724 Vocational Counseling of the Adolescent and Adult 3 credits
Principles of counseling with adolescents and adults in employment, vocational education and rehabilitation agencies or institutions are considered. Emphasis is placed on current trends, organizational patterns of programs and the personal concerns of clients in these settings. Attention is given to procedures for counseling with persons of varying cultural, social and educational experiences. Prereq: 421718, 421726 or consent of instructor.

421725 Counseling in Secondary Schools 3 credits
Designed for students planning to become junior or senior high school counselors. Discussions include: the role of the secondary school counselor; the school counselor in perspective (historical and organizational perspectives); individual and group counseling approaches with adolescents; and issues, trends and innovations in secondary school counseling. Prereq: 421718, 421726, 421722.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>421726</td>
<td>Seminar in Counseling</td>
<td>3</td>
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<td>A seminar approach to topical and contemporary issues in the guidance and</td>
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<td>counseling profession including client rights and the counselor and the law.</td>
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<td>Prereq: 421718 or consent of instructor; concurrent enrollment permitted.</td>
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<tr>
<td>421727</td>
<td>Organization and Administration of Counseling and Guidance Services</td>
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<td>Trends and objectives of counseling, guidance and student service programs</td>
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<td>with emphasis being placed on organizational structure, in-service programs</td>
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<td>and supervision. The use of computers and data processing procedures in</td>
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<td>student service functions and informational retrieval. Prereq: 421718, 421726</td>
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<td>or consent of instructor.</td>
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<tr>
<td>421728</td>
<td>Clinical Studies in Counseling</td>
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<td>Principles and methods concerning study of the individual in terms of human</td>
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<td>development, learning and adjustment as these relate to counseling functions.</td>
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<td>Emphasis will be on critical analysis of the literature and procedures in</td>
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<td>conducting case studies. Prereq: 421718, 421726 or consent of instructor.</td>
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<tr>
<td>421729</td>
<td>Student Services in Higher Education</td>
<td>3</td>
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<tr>
<td></td>
<td>A study of current trends and objectives of student services in institutions</td>
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<td>of higher education. Discussions include the personal concerns of college</td>
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<td>students and the organizational patterns of student services. Prereq: 421718,</td>
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<td>421726 or consent of instructor.</td>
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<tr>
<td>421730</td>
<td>Consulting Skills for Counselors</td>
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<td>An elective course for students in counseling and guidance designed to</td>
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<td>provide specific skills in methods of consultation. Students will be</td>
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<td>introduced to a number of alternative approaches to consultation and will</td>
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<td>have the opportunity of practicing their newly learned skills through</td>
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<td>role playing and video-taping experiences.</td>
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<td>421731</td>
<td>Introduction to Marriage and Family Counseling</td>
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<td></td>
<td>A professional course which provides counselors with information and skills</td>
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<td></td>
<td>relevant to conducting marital and family counseling services. Emphasis will</td>
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<td>be placed on assessment and treatment of dysfunctional marriages and families.</td>
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<tr>
<td>421732</td>
<td>Practices of Marriage and Family Counseling</td>
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<td></td>
<td>An advanced course in counseling which requires professional involvement in</td>
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<td></td>
<td>varied areas related to marriage and family counseling; divorce counseling</td>
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<td>and adjustment; couples enrichment; parenting; premarital counseling.</td>
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<td>Emphasis will be placed on the development and refinement of approaches and</td>
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<td>techniques to marital and family intervention. Prereq: Successful completion</td>
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<td>of an introductory course or training in marriage and family counseling or</td>
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<td>comparable experience and written consent of instructor.</td>
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<tr>
<td>421733</td>
<td>Theory and Techniques of Marriage and Family Counseling</td>
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<td>A professional course designed for individuals who are interested in</td>
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<td>marriage and family counseling as a profession. The course will be divided</td>
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<td>into two halves. The first half will be on the major theoretical orientations</td>
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<td>of family process. The second half will explore a framework for the selection</td>
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<td>of use of experiential techniques and an opportunity to gain experience in</td>
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<td>carrying out such techniques.</td>
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<tr>
<td>421736</td>
<td>Gestalt Approaches to Counseling</td>
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<td>A one-credit course to learn and practice Gestalt approaches to counseling.</td>
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<td>Class activities will include: demonstration of Gestalt approaches,</td>
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<td>experiences and practice in utilizing Gestalt techniques, presentation of</td>
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<td>Gestalt theory and major concepts, and discussion of issues in</td>
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<td>implementation in participant's practice. Prereq:</td>
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<td>421718, 421722 and consent of instructor.</td>
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</table>
421737 Counseling and Human Services in the Community 3 credits
This course will survey and analyze the goals and practice of various agencies in the community which deliver counseling or mental health services. The role of the counselor in each will be studied.

LIBRARY MEDIA (422)

422543 Adolescent Literature and Related Media 3 credits
Designed primarily to acquaint the student with books and nonprint media which appeal to the adolescent interest. Emphasis will be placed in adolescent human growth and development, reading interests and principles of selection.

422544 Children's Literature and Related Media 3 credits
Survey of historical development of children's literature emphasis on standards for selection of materials related to the interests, abilities and needs of children and the curriculum. Open as an elective.

422550 Reference and Bibliography 3 credits
Basic reference theory and an introductory survey of materials and bibliographies useful in reference work.

422551 Building Media Collections 3 credits
Principles of building collections for all types of libraries. Study of the standard bibliographies used in the selection of materials for libraries. Emphasis will be placed on the principles of selection of books and other library materials. The publishing field will be examined.

422558 Introduction to Utilization of Instructional Media 3 credits
A course designed to familiarize teachers with various types of audio-visual materials and the philosophy and techniques for their effective use in the classroom. Some practical classroom experience in operation and presentation of these materials is provided.

422635 Design and Production of Instructional Materials 3 credits
Designed to train students in the preparation and use of a variety of visual media. Students will prepare a number of graphic projects, including dry mounting, laminating, lettering, and transparency production.

422637 Photographic Design and Production for the Teacher 3 credits
Designed to present communication skills relevant to the needs of the classroom teacher in the production of black and white photographic materials.

422638 Utilization of Instructional Television Resources 3 credits
Instructional television resources are becoming increasingly available to the classroom teacher. This course, presented at the introductory level, provides students with both experiences in hands on production of instructional programs, as well as evaluation and utilization of off-air and commercially available programs. Class time will be divided between classroom activities and studio sessions. No previous knowledge of television equipment is required.

422651 Classification and Cataloging 3 credits
Study of the principles governing the classification of print and nonprint library materials emphasizing the Dewey Decimal Classification and the basic methods of descriptive cataloging as well as subject headings and filing procedures. Prereq: Consent of instructor.
422654 School Media Center Administration 3 credits
Organization and administration of the school media center. Includes the study of objectives of the center and theory and practice of acquiring, processing, disseminating, and housing all types of education materials.

422751 Administration of Educational Media Programs 3 credits
Consideration of administrative policies and practices pertinent to operation of effective media programs in schools, school systems, and higher educational institutions. Includes such aspects as development planning, fiscal management, educational and coordination with overall instructional development objectives of the system. Prereq: 421458/658 or consent of instructor.

422752 Instructional Design 3 credits
"Instructional Design" is the theory and practice of curricular development applied to the design of individual course materials and curriculums at the school, district or state level. As a procedure it constitutes the development of algorithms and heuristics which lead to well-organized effective curriculum designs. As a philosophy it emphasizes the "systems approach" and the "systems view" towards the understanding of complex curriculum and managerial tasks. Upon completing this course the student will acquire skills in 1) the design, 2) the development, 3) the evaluation of curriculum materials at a level of competence which enables him to prepare quality curriculum designs and proposals for formal distribution.

422753 Advanced Photographic Design/and Production Techniques for Teachers 3 credits
Instruction will center on the more sophisticated techniques in black and white photography, lighting, composition, filtration and exposure; basic motion picture production, large format camera operation, processing and printing color materials. Prereq: 664310 or 800152 or 422437/637 or consent of instructor. Adjustable 35 m.m. camera required.

422754 Advanced Design and Production of Instructional Materials 3 credits
Designed to develop advanced skills in the production of graphic materials. Techniques include lettering, silk screening, mounting, layout and duplication. Prereq: 422435/635.

EDUCATIONAL PSYCHOLOGY AND DEVELOPMENT (423)

423522 Pre-school Child Development 3 credits
Designed to present to the student insight into the development of the young child. Traces growth from conception through the pre-elementary school years. Special emphasis will be placed on early childhood education.

423678 Adolescent Development 3 credits
A study of the transition from childhood to adulthood with emphasis on the adjustment problems of youth to changes within himself which are physiological, mental, emotional and social in nature.

423681 Human Abilities and Learning 3 credits
A study of the fundamental principles of the teacher learning process. Focus is on the psychological basis for human abilities and behavior and its relation to classroom learning.

423682 Educational Statistics 3 credits
Designed for students at the senior or graduate level who have no statistical background. Emphasis is on measures of central tendency and dispersion, correlational techniques, linear regression, probability, hypothesis testing, chi-square, analysis of variance and covariance and an overview of non-parametric techniques.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>423683</td>
<td>Teaching Strategies</td>
<td>3</td>
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<tr>
<td></td>
<td>This course is designed to assist teachers at all levels to develop a variety of teaching strategies for use in the classroom.</td>
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</tr>
<tr>
<td>423701</td>
<td>Human Development</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Designed to present the relative influences of biological, psychological, social and environmental factors on human development at different stages in the life cycle.</td>
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<tr>
<td>423703</td>
<td>Psychological Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Designed to provide psychological background about human abilities and behavior, individual differences, learning and evaluation, with implications for teaching. Open to experienced elementary and secondary school teachers with a certificate to teach.</td>
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</tbody>
</table>

**MEASUREMENT AND RESEARCH (424)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>424621</td>
<td>Educational Measurement, Research and Evaluation</td>
<td>3</td>
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<tr>
<td></td>
<td>A study of student evaluation and the teaching process with emphasis on planning an efficient measurement and evaluation program. The course includes the study of the foundations of measurement, techniques of measurement, analysis of data, and application of measurement and evaluation to the teaching-learning process. In addition, the course includes basic methods of research in education and the basic types of research and design, with an emphasis on the teacher as a consumer of educational research.</td>
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<tr>
<td>424740</td>
<td>Seminar in Techniques of Educational Research</td>
<td>3</td>
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<tr>
<td></td>
<td>A basic course in the methods of research in education, including a study of the literature and techniques of research, the planning of a research paper, the basic types of research and design; a brief introduction to the statistics used in research; and the elements included in program evaluation.</td>
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</tr>
<tr>
<td>424742</td>
<td>Foundations of Measurement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A graduate level course in the basic principles and techniques of measurement and evaluation. Includes such topics as relation of measurement to the teaching-learning process; criteria of a good measuring instrument; overview of standardized tests; teacher-made tests; observational tools; analysis of data; application of results.</td>
<td></td>
</tr>
<tr>
<td>424743</td>
<td>Construction and Use of Teacher-Made Tests</td>
<td>3</td>
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<td></td>
<td>A course in the improvement of teacher-made testing. Includes the role of classroom testing; test planning; item writing; putting the test together and administering, scoring and grading; item analysis to improve validity. An indepth study of the cognitive domain of educational objectives and how to develop items to measure both minimum and developmental outcomes. Prereq: A basic course in measurement or its equivalent.</td>
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<tr>
<td>424745</td>
<td>Individual Intelligence Testing</td>
<td>3</td>
</tr>
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<td></td>
<td>Nature of intelligence and basic characteristics of mental ability tests. An intensive study of the Stanford-Binet and Wechsler Scales with particular emphasis on practice in administration, scoring, subtest groupings and analysis on the Stanford-Binet, functions and interpretations of Wechsler subtests, style and content of the psychological report writing. Prereq: A recent course in measurement and consent of instructor. (also see 840745)</td>
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</table>

**SPECIALIZED STUDIES (426)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>426690</td>
<td>Workshop</td>
<td>variable credit</td>
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<tr>
<td></td>
<td>See page 64 for Workshop description.</td>
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</tbody>
</table>
426696 Special Studies  
A study of special topics in education.  

1-3 credits

426700 Individual Studies  
An opportunity for a student to explore more deeply a specific field of study. Student and adviser will decide on the field and with the consent of the professor the student may take 1-3 credits of work. Not more than 4 credits can count within the master's degree. If the study is not completed by the end of the term, an incomplete is given pending completion. Completion must occur within a year after the end of the term.  

1-3 credits

426797-1 Institute  
variable credit

426798 Workshop  
See page 58 for Workshop course description.  

variable credit

426799 Thesis Research  
See page 59 for Thesis Research course description.  

1-6 credits

SCHOOL ADMINISTRATION (427)

427772 Legal Aspects of Education  
Seeks to present in nontechnical language to educational practitioners legal information on all facets of school operation, including the liability of school districts and school employees, school fund and indebtedness administration; the admission, attendance and instruction of pupils; retirement benefits; and the employment contract and professional negotiations.  

3 credits

290772  

427775 Administration and Organization of the Public Schools  
A survey of the foundation, organization and administration of the American public school system. Designed for teachers, administrators and school business managers.  

3 credits

290775

427784 Educational Politics and Policy  
Designed for individuals who will administer or create educational policy in the public schools and who desire to explore the political nature of educational policy formulation and decision making at the local and state levels. Prereq: Experience as a teacher, administrator, or school board member is recommended.  

3 credits

290784

HUMANISTIC STUDIES (428)

428585 Awareness in Attitudes and Interaction  
Awareness in attitudes and interaction in an effectively oriented course designed to help people focus on the development of strong positive attitudes toward self and others. Group interaction projects stress such areas as interaction skills, attitude awareness, understanding people, goal setting and effective management of time.  

2 credits

428601 Self-Help Groups and Support Systems  
A study of the history, principles and practices of the more widely known self-help groups and support systems. Emphasis will be placed upon the anonymous groups patterned after Alcoholics Anonymous. Selected support systems not in the anonymous tradition will also be examined.  

3 credits

428606 Assertive Training  
A study and practice of assertive behaviors. The class activity will include role playing with video feedback, assertive homework assignments and group participation.  

1 credit

428675 Understanding and Dealing with Problems in Classroom Behavior  
The course is designed to give students an opportunity to discuss the various theoretical approaches to handling disruptive behavior in the classroom and to apply
these approaches to actual problems through the development of affective classroom procedures. Recommended for all education majors.

428766 Interpersonal Helping Skills for Educators 3 credits
The course is designed (1) to help the educator develop an increased awareness of his or her own feelings and conflicts within the classroom, and to examine a wider variety of potentially appropriate responses to these feelings, and (2) to present the Gazda/Carkhuff theory of interpersonal helping and to train participants in process skills consistent with the theory. A basic goal of such training is to help educators develop an expertise in such interpersonal helping skills as empathy, respect, genuineness, self-disclosure and confrontation in order to create a more humane environment and make problem solving easier for those in the educational setting seeking their assistance.

428765 Group Dynamics in the Classroom 3 credits
This course is designed to provide an opportunity for participants to explore the dynamics of group processes as they relate to elementary and secondary school classrooms. Emphasis will be placed on the developmental stages of classroom groups. Participants will not only examine the teacher behaviors and activities which help students in classrooms become effective groups, they will also experience these stages themselves.

428777 Classroom Survival: Perspectives on Discipline in Education 3 credits
This course is designed to be taught in public schools utilizing both university faculty and specially trained public school teachers. Emphasis will be placed on 1) self awareness as it relates to teacher attitudes and beliefs about disruptive students, 2) improving communication skills with disruptive students, 3) disruptive behavior negotiating as an approach for dealing with discipline problems, and 4) reducing disruptive behavior through creative teaching.

FIELD PRACTICUM (429)

429611 Library Practice 2 credits
Planned to supply actual experience in area libraries to blend theory and practice for library media minors who do not intend to become school librarians. Prereq: 422651 or consent of instructor. (Education majors, see 439431 and 473413-Directed Teaching for special minors)

429790 Practicum 1-6 credits
The practicum provides graduate students with opportunities to apply didactic experiences in practical situations under the supervision of University faculty members. May be repeated with consent of department. Prereq: Consent of instructor.

ELEMENTARY EDUCATION (43-)

430550 Bilingualism and Bilingual/Bicultural Education 3 credits
History, philosophy and rationale for bilingual/bicultural education. A study of different models of bilingual education programs as well as different types of bilinguals. Cultural, socio-economic and psychological factors influencing learning in the bilingual child.

430601 Introduction to Individually Guided Education 3 credits
An overview of individually guided education and the multi-unit elementary school (IGE/MUS-E), including instructional programming, home-school communications, organization and operations, teaming skills, roles and responsibilities, motivation, and Wisconsin Design for Reading Skill Development (WDRSD).
430602 Instructional Programming in IGE
Planning in-service type programs for initiating and refining aspects of individually guided education and the multi-unit elementary school, IGE/MUS-E at the building or system level. Participants plan, critique, simulate, and if possible implement the plan in their school and system. Needs and interests of participants will be utilized for course content. Prereq: 430401/601 or consent of instructor.

3 credits

430630 Language Acquisition for the Bilingual Child
An examination of the process involved in the acquisition of a first and second language and the implications this has for the curriculum and language instruction in the bilingual school. Special emphasis on stages of language development, the role of adult models, teachers, and environment in language learning, social classes and differences in language development, dialect differences and language development, etc.

3 credits

430655 Teaching Content in the Bilingual Classroom
An examination of various teaching techniques and materials being used to teach subject matter in bilingual programs with emphasis on Spanish materials. Other topics of discussion are: language assessment and adaptation of materials to the learner’s language proficiency and cultural experience. Course will be taught in English and Spanish, so that students may have the opportunity of expanding their command of the other language being used as a medium of instruction.

3 credits

430720 Language Arts in the Elementary School
Survey and critical appraisal of research programs, problems, practices and trends in the study and teaching of the language arts, media, composition and the application of linguistic knowledge.

3 credits

430721 Trends in Art Education
A course designed to acquaint the teacher with recent trends and practices in the teaching of art. The sources of contemporary knowledge of the function and structure of art education, the child, and his growth in art expression, the development of skills, and building the art curriculum will be considered during the lecture-discussion sessions. A variety of materials and techniques will be explored in the art workshop.

3 credits

430722 Issues in Elementary Education
Current critical issues in education on the state, national and international levels, with particular reference to the elementary schools.

3 credits

430759 Art for the Exceptional Child and Adolescent
A course for elementary and secondary teachers working with the exceptional child. The therapeutic aspects of art education in helping these children meet problems in personal adjustment and educational programming will be presented.

3 credits

480759

430760 Art in the Elementary School
A consideration of the visual arts in the elementary school: Studio experiences using art media and techniques, curriculum resources and planning, innovative approaches to teaching art, analysis and evaluation of art programs.

3 credits

430761 Mathematics in the Elementary School
Consideration of current trends in method and curriculum in elementary school arithmetic; the scope, sequence and content of the modern arithmetic program with special emphasis on modern innovations in arithmetical content and method; and the relationship of methods, curriculum and evaluation to child development.

2-3 credits
430762 Curriculum in the Elementary School  
Consideration of basic concepts of curriculum development and the relations of foundation areas to the problems of curriculum; assistance to the individual teacher in understanding procedures and plans for bringing about curriculum changes at the local level; opportunity to put theory into practice with guidance from the instructor.  

3 credits

430763 Social Studies in the Elementary School  
A comprehensive consideration of the objectives, content, methods, including unit procedures, materials, including objectives, models and exhibits as well as textbooks, collateral reading, maps and globes and means of evaluating in the social studies.  

2-3 credits

430765 Science in the Elementary School  
Consideration of the present courses of study in elementary science; basic principles of science appropriate to elementary grades; techniques of teaching the science principles; materials used in the teaching of science, and the techniques of evaluation in science.  

2-3 credits

430769 Supervision of Instruction  
Analysis of basic concepts of supervision and competencies essential to effective supervisory performance. Extended examination of current and emerging supervisory practices found in local school districts. Supervision as a process is considered in a variety of roles and positions of leadership.  

3 credits

430770 Supervision of Student Teaching  
Open to cooperation teachers and prospective cooperating teachers. Familiarizes the participant with student teaching program designs, the respective roles of all student teaching personnel, and evaluation strategies and techniques. The teacher eligible to be assigned a student teacher can earn the third credit by implementing and practicing such feedback procedures as micro-teaching, interaction analysis sequences, and instructional tapes to further the student teacher's growth.  

2-3 credits

430770a Supervision of Student Teaching  
May be taken by those cooperating teachers who have had a course in supervision but need to update their supervisory skills in order to learn about and to utilize current feedback procedures like micro-teaching, interaction analysis, videotape, supervising with objectives, etc.  

2-3 credits

430775 Junior High Curriculum  
Study in historical foundations and development; underlying philosophies and unique functions; nature and needs of the junior high school students; recommended and promising curriculum innovations; organization and administration of the program with special attention to the problem of both the teachers and administrators.  

3 credits

430776 The School Principalship*  
Study of the application of theories to the administrative behavior problems of leadership in an elementary school. The course content will present research concerning the operation and management of an elementary school. It is designed for students who will have a leadership function or role in their school duties, such as team leader, supervisor, coordinator, or elementary principal.  

*Formerly Leadership in the Elementary School  

3 credits

431540 Nutrition and Health: Early Childhood  
A course in nutrition and health pertaining to the needs of the young child of preschool age through the third grade, with emphasis on teaching the child good food and health habits and aiding nursery school directors and families in utilizing available community resources in health and nutrition.  

3 credits
43265 Teaching Reading Skills to the Non-English Speaking Child 3 credits
This course is designed for teaching of all levels K-adult who wish to develop techniques for teaching reading to students whose native language is not English.

432764 Developmental Reading 3 credits
Problems arising in a well-rounded reading program; development of basic reading abilities and skills; improvement of attitudes and tastes, and adjusting materials and methods to individual needs.

432766 Reading Disabilities 3 credits
A comprehensive consideration of types of reading and study difficulties; the principles and techniques of diagnosing such difficulties, and the methods and materials useful to the classroom teacher in the remediation of reading problems.

432767 Diagnosis of Reading Difficulties 2-3 credits
A course designed to give experience in the use and analysis of formal and informal tests used in diagnosing reading problems and related disabilities.

432771 Planning and Implementing Reading Programs 3 credits
A study of the process and procedures which may be employed in planning and implementing defensible reading programs. Students are involved in planning individual programs appropriate for their school or system. Prereq: 432764, 432766, 432767.

432772 Reading in the Content Areas: Elementary and Middle School Emphasis 3 credits
Utilization of reading skills, study strategies and materials as applied to the content fields, and techniques for incorporating reading into content area instruction. Prereq: 432764.

432773 Research Related to the Teaching of Reading 3 credits
Comprehensive review and evaluation of the literature and research in reading. The influence of research studies upon teaching procedures and upon the selection and use of materials for reading instruction will be considered. Prereq: 432764.

434561 Children's Literature 2 credits
A study of literature for the young child including Mother Goose, Poetry, traditional stories, modern and multi-ethnic picture books. Evaluation and selection techniques are explored.

434650 Creative Activities For Young Children 3 credits
This course will consist of an exploration of the role of fine arts in the education of young children, accompanied by the selection and exploration of activities in the fine arts area which are appropriate. Students will be involved in planning for and participating in activities. Offered in conjunction with art, music, and theater.

34675 Administration of Pre-school Programs—Early Childhood Education 3 credits
The concentration of this course is preparation in the managerial and organizational skills. Areas of emphasis include staffing, licensing, financing, and public relations. Prereq: Consent of instructor.

434711 Early Childhood Education 3 credits
A study of historical and philosophical foundations, the goals and objectives, current practices, and significant research on early childhood education.

434713 Trends in Curriculum for the Pre-School Primary Child 3 credits
This course is designed to give students sufficient skills to develop, implement and evaluate curriculum for children from infancy through approximately age seven.
434714 Current Issues in Early Childhood Education 3 credits
Identification of significant issues and consideration of research having an impact on emerging trends as well as current practices in early childhood education.

436690 Workshop variable credit
See page 64 for Workshop description.

436696 Special Studies variable credit

436700 Individual Studies 1-3 credits
See page 58 for Individual Studies course description.

436797 Seminar in Elementary Education 3 credits
Investigation and discussion of contemporary, significant problems in elementary education. Topics are selected on basis of needs and desire of participants in such areas as curriculum, instruction, school and classroom organization, and staff inservice improvement.

436797-1 Institute variable credit

436798 Workshop variable credit
See page 58 for Workshop course description.

436799 Thesis Research 1-6 credits
See page 59 for Thesis course description.

439712 Residency in Teaching 12 credits
A comprehensive residency in teaching in an accredited local educational agency participating in the Teacher Residency Program. The resident teacher is under contract for a full school year for less than a full teaching load, is salaried, and works under the guidance of an assigned team of professional and seminars. Prereq: Successful completion of certification. Admission to the Residency Program and Graduate School. Limited to first year teachers.

439774 Field Experience in Reading Programs 2-3 credits
Observation and directed practice in the area of reading. Students are placed in an approved station or stations for a semester. Prereq: 439790 and 432774.

439790 Practicum 1-6 credits
The practicum provides graduate students with opportunities to apply didactic experiences in practical situations under the supervision of University faculty members. Prereq: Consent of instructor.

HEALTH, PHYSICAL EDUCATION, AND RECREATION (44-)

MEPD COURSES — PROFESSIONAL

442570 Introduction to Motor Learning in Physical Education 3 credits
An introductory course in the basic concepts of motor learning relative to physical education, to include comprehensive laboratory experimentation at the graduate level.

442571 Kinesiology 3 credits
A scientific study of human motion. Studies of anatomical and mechanical principles as they relate to the understanding of skillful, efficient and purposeful human motion will be conducted.
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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>442580</td>
<td>Perceptual Motor Activities</td>
<td>3</td>
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<tr>
<td></td>
<td>A study of motor maturation, developmental variance affecting motor efficiency, gross motor assessment instruments prescriptive techniques involving perceptual motor activities.</td>
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<tr>
<td>442671</td>
<td>Physiology of Exercise</td>
<td>3</td>
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<td></td>
<td>A comprehensive study of physiological changes which occur during exercise and the adaptations which occur during exercise training. The student receives practical experience in the organization, interpretation and reporting of laboratory experiences relative to class discussion.</td>
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<tr>
<td>442673</td>
<td>Organization and Administration of Physical Education</td>
<td>2-3</td>
</tr>
<tr>
<td></td>
<td>Relationships and procedures involved in effective administration and organization of physical education programs.</td>
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<tr>
<td>442675</td>
<td>Adapted Physical Education</td>
<td>3</td>
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<tr>
<td>480675</td>
<td>A study of the problems of the atypical child in relation to the physical education activity program. Emphasis is placed on the atypical child in the public school. Areas studied include postural deviations, orthopedic and neurological disabilities, sensory handicaps, the mentally handicapped and the behaviorally deviant child.</td>
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<tr>
<td>442678</td>
<td>Physical Education for the Exceptional Child</td>
<td>3</td>
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<tr>
<td>480678</td>
<td>Course emphasis is on exploring physical education programs for the classroom teacher and for recreational leaders in institutional settings and day care centers who deal with exceptional children who are handicapped in physical activities.</td>
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<tr>
<td>442690</td>
<td>Workshop: Physical Education</td>
<td>1-3</td>
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<td></td>
<td>The course is designed to enable the Physical Education Department to offer a workshop where there is sufficient demand. The specific area will be announced at the time the course is offered.</td>
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<tr>
<td>442692</td>
<td>Field Study</td>
<td>1-12</td>
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<td></td>
<td>Studies designed to increase the student’s understanding of specific areas of health, physical education and recreation through involvement in off-campus experiences such as elementary schools, secondary schools, camps and community programs under the direction of department instructors. Prereq: Approval of department chair.</td>
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<tr>
<td>442694</td>
<td>Seminar</td>
<td>1-3</td>
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<td>An advanced course which may involve research on, and/or study of, sources pertinent to a selected area of physical education, pursued by a group under the guidance of an instructor. Prereq: Consent of department chair.</td>
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</tr>
<tr>
<td>442696</td>
<td>Special Studies</td>
<td>1-3</td>
</tr>
<tr>
<td>442700</td>
<td>Individual Studies</td>
<td>1-3</td>
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<tr>
<td></td>
<td>An opportunity for a student to explore in more detail a specific field of study. Student and adviser will decide the study with the consent of the professor in charge of the study. The student may take 1-3 credits of work per term; however, not more than 4 credits can be counted within the total number of credits required for a master’s degree program. The study should be planned for completion by the end of a term. A grade of “incomplete” is given if the study is not completed. Following completion of the study, a regular letter grade shall be given. In most cases, completion should occur within a single term and must be completed within a year after the end of that term.</td>
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<tr>
<td>442710</td>
<td>Trends in Physical Education</td>
<td>3</td>
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<td></td>
<td>Designed to improve instruction through an analysis of current objectives, new materials, revised curriculum and methods, current literature, current legislation,</td>
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</table>
and organization of physical education within school and related learning laboratories.

442712 Curriculum in Physical Education 3 credits
This course will assist the teacher with the process of curriculum development through an analysis of influences that effect curriculum change. Identification of aims, objectives, methods, materials and evaluation which are instrumental in development of efficient and effective programs in physical education.

442715 Facility Planning Design and Management in Physical Education and Sport 3 credits
A study of the planning process for provision of facilities that will be conducive to a beautiful and safe environment for the conduction of physical education, athletic and recreation programs. Efficient management and use of the physical plant is a major consideration.

442770 Assessing Motor Behavior 3 credits
A study of motoric behavioral changes and skills acquisition of the maturing human and instruments currently available for assessing motor development and skill.

442772 Construction of Motor Performance Assessment Instruments 3 credits

442790 Practicum 1-6 credits
The practicum provides graduate students opportunities to apply didactic experiences in practical situations under the supervision of University faculty members. Prereq: Consent of instructor.

442799 Thesis Research 1-6 credits
Guided investigation of an approved thesis topic. Student may receive credit for research activities planned in conjunction with his/her adviser and leading to the completion of a master's degree of educational professional development.

MEPD COURSES — HEALTH (444)

444545 Secondary Health Education Topics 2 credits
An investigation of secondary school health topics, their implication for sequential development and effective strategies for positive impact.

444560 High Level Wellness 3 credits
A sensitization to, interpretation and evaluation of wellness as it relates to self, others and the environment with opportunities for personal wellness advancement. Areas include stress and relaxation training, health hazards that exist in behavior that tends to shorten life expectancy, nutrition and physical fitness.

444582 Elementary Health Education 2 credits
A course designed for elementary teachers. The relationship of well being to life style is emphasized in addition to the preparation in providing teaching/learning experiences in selected content areas.

444585 Administrative Strategies in Health Education 3 credits
An investigation into the multi-faceted role of the school health coordinator and/or teacher as it relates to school health education advancement.
444645 Teaching Health Education 3 credits
A study of philosophy, trends and teaching-learning strategies. Emphasis will be placed on developing and utilizing models and strategies in health education.

444681 Utilization of School and Community Health Resources 2-3 credits
The identification, evaluation and utilization of health resources for individual, school or community use with regards to current health need.

444690 Workshop: Health 1-3 credits
The course is designed to enable the Physical Education Department to offer a workshop where there is sufficient demand. The specific area will be announced at the time the course is offered.

444692 Field Study 1-12 credits
Studies designed to increase the student’s understanding of specific areas of health, physical education and recreation through involvement in off-campus experiences such as elementary schools, secondary schools, camps and community programs under the direction of department instructors. Prereq: Approval of department chair.

444694 Seminar 1-3 credits
An advanced course which may involve research on, and/or study of, sources pertinent to a selected area of physical education, pursued by a group under the guidance of an instructor. Prereq: Consent of department chair.

444696 Special Studies 1-3 credits

444700 Individual Studies 1-3 credits
An opportunity for a student to explore in more detail a specific field of study. Student and advisor will decide the study with the consent of the professor in charge of the study. The student may take 1-3 credits of work per term; however, not more than 4 credits can be counted within the total number of credits required for a master’s degree program. The study should be planned for completion by the end of a term. A grade of “incomplete” is given if the study is not completed. Following completion of the study, a regular letter grade shall be given. In most cases, completion should occur within a single term and must be completed within a year after the end of that term.

444745 Exercise and Health 3 credits
A course designed to introduce how exercise relates to an individual’s health, specifically cardiovascular endurance, relaxation and nutrition. It will include background information regarding holistic health, exercise prescription, nutrition and relaxation. Application of this background information will also be a part of the course through evaluation of present levels and participation in individually designed programs.

444790 Practicum 1-6 credits
The practicum provides graduate students opportunities to apply didactic experiences in practical situations under the supervision of University faculty members. Prereq: Consent of instructor.

444799 Thesis Research 1-6 credits
Guided investigation of an approved thesis topic. Student may receive credit for research activities planned in conjunction with his/her adviser and leading to the completion of a master’s degree of educational professional development.
MEPD COURSES — RECREATION (446)

446690 Workshop: Recreation 1-3 credits
The course is designed to enable the Physical Education Department to offer a workshop where there is sufficient demand. The specific area will be announced at the time the course is offered.

446691 Community Recreation 3 credits
A study of the basic principles and philosophy of community recreation through the development of an understanding of current trends and problems, organization and administration and the development of an awareness of agencies that support community recreation programs. The graduate requirement will be an in-depth study of a significant aspect relating to material covered in the course.

446692 Field Study 1-12 credits
Studies designed to increase the student’s understanding of specific areas of health, physical education and recreation through involvement in off-campus experiences such as elementary schools, secondary schools, camps and community programs under the direction of department instructors. Prereq: Approval of department chair.

446694 Seminar 1-3 credits
An advanced course which may involve research on, and/or study of, sources pertinent to a selected area of physical education, pursued by a group under the guidance of an instructor. Prereq: Consent of department chair.

446696 Special Studies 1-3 credits

446700 Individual Studies 1-3 credits
An opportunity for a student to explore in more detail a specific field of study. Student and adviser will decide the study with the consent of the professor in charge of the study. The student may take 1-3 credits of work per term; however, not more than 4 credits can be counted within the total number of credits required for a master’s degree program. A study should be planned for completion by the end of a term. A grade of “incomplete” is given if the study is not completed. Following completion of the study, a regular letter grade shall be given. In most cases, completion should occur within a single term and must be completed within a year after the end of that term.

446790 Practicum 1-6 credits
The practicum provides graduate student opportunities to apply didactic experiences in practical situations under the supervision of University faculty members. Prereq: Consent of instructor.

446799 Thesis Research 1-6 credits
Guided investigation of an approved thesis topic. Student may receive credit for research activities planned in conjunction with his/her adviser and leading to the completion of a master’s degree.

SAFETY EDUCATION (46-)

GENERAL (460)

460581 Motor Fleet Safety Supervision 3 credits
The basic fleet course emphasizes areas in which supervision can improve and control employee performance. Course topics include instruction in the areas of employee selection, supervision and training, and Federal and State laws as well as compliance procedures. It also covers accident prevention and investigation. The
administration of an effective fleet safety program by safety directors of all sizes of fleets is also emphasized. Prereq: 462380 and/or consent of instructor.

460650 Behavioral Aspects of Accident Prevention
Selected concepts of accident causation specifically related to the human element, are studied. The medical, psychological and sociological factors which influence safe behavior, and attempts which have been made to modify unsafe behavior are also analyzed. Prereq: Consent of instructor.

460655 Alcohol and Other Drugs
Consists of an investigation into the physiological, psychological and sociological problems presented by the use of alcohol and drugs. The problems of alcoholism and drug addiction will present efforts of cure and rehabilitation will be explored. Other areas would include the role of alcohol in traffic safety and the role of the school in alcohol education. Prereq: junior standing or consent of instructor.

460688 Human Factors Engineering
Course intends to provide the student with basic background information concerning a human's psychological and physiological capabilities and limitations. Included are the application of human-factors to design and evaluation of man-machine systems in a variety of cultures. Prereq: 462484 or consent of instructor.

460690 Workshop in Safety Education
Workshops designed to meet the needs of safety education teachers and administrators. Workshops content will vary according to contemporary conditions. Prereq: Consent of instructor.

460696 Special Studies
A study of special topics in safety education for students of junior, senior or graduate standing. Prereq: Consent of instructor.

460700 Individual Studies
An opportunity for a student to explore more deeply a specific field of study. Prereq: Consent of instructor.

460752 Safety Communications
Investigation of the communication processes as they relate to the field of safety. Design and manipulation of the communication processes to influence safe behavior. Planning public information and community support programs. Prereq: Consent of instructor.

460787 System Safety Analysis
Introduction to the system technique as applied to the recognition of potential accident situations in occupational environments. Concentration will be on the qualitative aspects of safety, utilizing numerous examples and problems. Prereq: 460688, or consent of instructor.

460797-I Institute
variable credit

460798 Workshop
variable credit
See page 58 for Workshop course description.

460799 Thesis Research
Guided investigation of an approved thesis topic. Student may receive credit for research activities planned in conjunction with his adviser and leading to the completion of a master's thesis.
1661 Problems and Materials of Driver Education
3 credits
Emphasis is placed on methods and techniques of teaching driver and traffic safety in the high schools. Areas of investigation include classroom, in-car, range, and simulation methods of instruction. Programmed instruction, team teaching educational television, and other modern methods will be examined with a view to their use in driver education programs. Organization and administration of the high school program will also be covered. Prereq: 460251, 461260.

1665 Advanced Driving Techniques
3 credits
Designed to prepare teachers in the techniques and methods used in developing, coordinating, administering and implementing an advanced driving technique program. Deals with emergency driving situations, driver and vehicle limitations, program organization and administration and policies and guidelines for course implementation. Classroom activities in addition to extensive work on the multiple vehicle range will be incorporated into the class. Teaching practicums will be conducted by students. Prereq: driver education certification or equivalent and/or consent of instructor.

1666 Police in Highway Traffic Enforcement
3 credits
An investigation of local, county, and state police activities in highway traffic law enforcement and investigation. Discussions include philosophical and psychological concepts on law enforcement. Accident records and usage by all levels of enforcement will be studied as well as police training policies and practices. Prereq: 461260 and 461461.

1675 Highway Traffic Administration
3 credits
A critical analysis of traffic laws, traffic management, and motor vehicle administration, past, present and future. Explores agencies involved with traffic safety. Topics include records and reporting, driver control, traffic improvement, traffic licensing, vehicle registration and titling, vehicle inspection, violations bureaus, and traffic courts. Prereq: consent of instructor.

1677 Traffic Engineering
3 credits
An overview of the development, management and operation of highway transportation systems. Includes investigation of and experiences in utilization of traffic engineering methods and techniques. Prereq: consent of instructor.

OCCUPATIONAL (462)

1628 Safety in the Construction Industry
3 credits
Students will examine problems and practices posed to nation's work force involved with the construction industry. The course will examine administrative and organizational policies in developing a construction safety program. Students will be introduced to specific detailed problems and countermeasures for correction. An analysis of applicable standards will be conducted as they apply to the construction trade.

1625 Introduction to Security
3 credits
A study of the physical, personal, and informational aspects of the security field. Concepts of these areas will be integrated with management as they relate to safety and will be discussed in relationship to industrial and business environments.

1626 Industrial Safety Management
3 credits
Emphasis will be on the organizational and administrative problems that relate to an occupational accident prevention program. The course is especially designed for students majoring in the business related areas as well as future teachers that desire
Teaching Science in Secondary Schools
3 credits

Teaching Mathematics in Secondary Schools
3 credits

470628 Teaching Mathematics, review of current objectives in secondary school mathematics; A study of the mathematics curriculum and structure of secondary school mathematics.

470629 Teaching Science in Secondary Schools

470626 Teaching English in Secondary Schools

SECONDARY EDUCATION (47-)

Instructor:
Prerequisite: 46279, 46280 or consent of instructor.

Program (469)

School (463)

Organization and Administration of School Safety
3 credits

Fire Protection/Prevention
3 credits

Industrial Hygiene
3 credits

Secondary Education

College of Education

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ents gain a broad vision of their teaching profession, their science area and their responsibilities to all students.

470630 Teaching Social Studies in Secondary Schools 3 credits
The study of the teaching-learning process, objectives in social studies, planning for teaching, selection of content and resources, teaching-learning strategies and evaluative methods.

470631 Teaching Speech in Secondary Schools 3 credits
Designed to develop student awareness of the importance of speech education as an integral factor in the total educational enterprise; to help and encourage the students to develop a workable philosophy of speech education; to improve students' skill in preparing courses of study, units and lesson plans adapted to the needs and abilities of their students; to suggest methods of and improve skill in evaluating the students' own work as well as that of their students; to give students direction in planning and conducting extracurricular activities.

470632 Teaching Journalism in Secondary Schools 3 credits
This course is designed to meet the needs of teachers or prospective teachers who wish to prepare themselves for teaching journalism, for teaching communications units, or for sponsoring publications in secondary schools.

470665 Developmental Reading in the Secondary Schools 3 credits
The principles, techniques and materials for teaching reading in the junior and senior high schools with consideration of specific needs within the various content areas taught in the secondary schools. Prereq: Admission to professional education and completion of 423212.

470690 Workshop variable credit
See page 64 for Workshop course description.

470696 Special Studies variable credit

470700 Individual Studies 1-3 credits
See page 58 for Individual Studies course description.

470701 The Modern School Mathematics Curriculum 3 credits
760701 A survey of selected school mathematics curriculum development projects, topics in comparative mathematics education and selected topics in on-going research in mathematics education. Prereq: Consent of instructor.

470710 Curriculum in the Secondary School 3 credits
The study of the theory, substance and development of curriculum in the American secondary schools. Special attention is given to the impact of recent innovations in the secondary school curriculum and the influence of mandated programs.

479712 Residency in Teaching 12 credits
A comprehensive residency in teaching in an accredited local education agency participating in the Teacher Residency Program. The resident teacher is under contract for a full school year for less than a full teaching load, is salaried, and works under the guidance of an assigned team of professional personnel from the University and local school with allocated time for observations, planning, conferences and seminars. Prereq: Successful completion of Directed Teaching with initial or provisional teaching certification. Admittance to the Residency Program and Graduate School. Limited to first year teachers.
Special Education (480)

See page 58 for Workshop course description.

Workshop

47078
1-4 credits

Peer teacher Workshop is designed to assist students with special educational needs in developing their skills and abilities.

47079
1-5 credits

Peer teacher Workshop is designed to assist students with special educational needs in developing their skills and abilities.

47080
2-3 credits

Supervision of Student Teaching

Supervision of Student Teaching is designed to assist students in developing their skills and abilities in the area of student teaching.

47081
2-3 credits

Supervision of Student Teaching

Supervision of Student Teaching is designed to assist students in developing their skills and abilities in the area of student teaching.

47082
3 credits

Art Education for the Secondary School

Art Education for the Secondary School is designed to assist students in developing their skills and abilities in the area of art education for the secondary school.

47083
1 credits

College of Education
tional methods will be considered. Emphasis is on practical implementation activities in the teacher's own classroom. Prereq: Consent of instructor.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>480605</td>
<td>Programming for the Developmentally Disabled Adult</td>
<td>3 credits</td>
</tr>
<tr>
<td>480621</td>
<td>Habilitation of Young Handicapped Children I</td>
<td>3 credits</td>
</tr>
<tr>
<td>480622</td>
<td>Habilitation of Young Handicapped Children II</td>
<td>3 credits</td>
</tr>
<tr>
<td>480625</td>
<td>Studies in Creativity and Giftedness</td>
<td>3 credits</td>
</tr>
<tr>
<td>480632</td>
<td>Working with the Family of the Young Handicapped Child</td>
<td>3 credits</td>
</tr>
<tr>
<td>480635</td>
<td>Applied Vocational Rehabilitation Procedures</td>
<td>3 credits</td>
</tr>
<tr>
<td>480655</td>
<td>Introduction to the Emotionally Disturbed</td>
<td>3 credits</td>
</tr>
<tr>
<td>480657</td>
<td>Education of the Educable Retarded</td>
<td>3 credits</td>
</tr>
<tr>
<td>480659</td>
<td>Education of the Adolescent Retarded</td>
<td>3 credits</td>
</tr>
<tr>
<td>480660</td>
<td>Education of the Severely Emotionally Disturbed</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

For students/agency staff interested in vocational rehabilitation services for developmentally disabled adults in a sheltered workshop setting. Emphasis will be on philosophies of the sheltered workshop training techniques and services provided within agencies. Prereq: 6 Special Education credits.

For persons interested in the education of young handicapped children. Assessment and habilitation strategies, procedures and techniques designed to ameliorate adaptive gross motor and fine motor handicaps in infants, toddlers and preschoolers. The trainees will be required to participate in two hours of supervised field activities and two hours of lectures each week. Prereq: 480520.

Assessment and habilitation strategies, procedures and techniques designed to ameliorate cognitive and language handicaps in infants, toddlers and preschoolers. The trainees will be required to participate in two hours of supervised field activities and two hours of lectures each week. Prereq: 480520.

A survey of the definitions and measures of creativity and intellectual pursuits, extraordinary products, and an examination of the genetic, environmental and social factors that develop and maintain gifted humans.

For persons preparing to teach young handicapped children. Teacher effectiveness is directly related to their ability to involve the parents in the early intervention process of infants, toddlers and preschoolers as well as motivation for involving parents in the early intervention process. The child, parent and professional triangle is critical — working with parents requires differential knowledge, skills and attitudes. Prereq: 480520, 480621, 480622 and consent of instructor.

Application of vocational rehabilitation principles and philosophy. Emphasis on the role of the work study and occupational adjustment program, including the utilization of local, state and federal resources. Prereq: 480230.

A review of behavior disorders in children with consideration of specific techniques for dealing with these problems in the classroom. Prereq: 3 Special Education credits or consent of instructor.

Methods and materials specific to the education of mildly retarded children. Prereq: 480556 or consent of instructor.

Designed for professionals working with adolescent pupils who have exceptional educational needs. Emphasis will be on organization, curriculum, methods, work adjustment, causes and vocational approaches appropriate for high school special education and work-study programs. Prereq: 480556 or consent of instructor.

An examination of personality and behavioral dynamics associated with infantile autism, childhood schizophrenia, and other psychotic conditions of childhood. Consid-
eration will be given to causality, teaching techniques, educational materials, and curriculum designs suitable for educating psychotic children in a variety of school settings. Prereq: 480655.

480663 **Prescriptive Teaching for Regular Educators** 3 credits
A study of diagnostic-prescriptive techniques for regular educators to employ in their classrooms with normal and/or mild handicapped children. Special emphasis is placed upon referral of children with exceptional educational needs and interacting with members of the multidisciplinary team to provide more appropriate educational programming. Prereq: 480205/721 or 400200/400210 or consent of instructor.

480664 **Learning and Language Disorders** 3 credits
Considers diagnosis and remediation of learning disorders which call for a special education approach. Prereq: 6 in Special Education credits and/or consent of instructor.

480665 **Education of the Trainable Retarded** 3 credits
Methods and techniques specific to educating trainable mentally retarded children. Prereq: 480556 or consent of instructor.

480666 **Guidance of the Handicapped** 3 credits
Provides insight into the adjustment problems of exceptional persons. Consideration is given to personal, social, educational and vocational problems of handicapped children. Prereq: Consent of instructor.

480675 **Adapted Physical Education** 3 credits
442675 Problems of the exceptional child in the physical education program. Emphasis is placed on postural deviations, orthopedic and neurological disabilities, sensory handicaps and physical fitness as they influence physical education programs in the public school.

480676 **Techniques for the Multiply Handicapped** 3 credits
For persons interested in developing techniques in the care and management of severely and profoundly multiply handicapped with emphasis on basic life skills. Includes built-in field experiences. Prereq: 480622 or consent of instructor.

480678 **Physical Education for the Exceptional Child** 3 credits
442678 Emphasis is on exploring physical education programs for the self-contained classroom teacher and for recreational leaders in institutional settings and day-care centers who deal with exceptional children.

480680 **Speech and Language Development in the Child** 3 credits
662680 Normal and abnormal language development are presented. Various language models are examined from the standpoint of their implications for assessment and treatment in an educational setting.

480686 **Instructional Systems for the Severely and Profoundly Multiply Handicapped** 3 credits
Specifically designed for persons majoring in education for the severely and profoundly multiply handicapped. Provides a background of knowledge to appropriately design an individual educational plan for the severely and profoundly multiply handicapped, utilizing a multidisciplinary approach to cooperatively implement the program with other programs and living environments. Emphasis is placed on assessment, implementation and evaluation of the individualized program. Prereq: 480676.

480690 **Workshop** variable credits
See page 64 for Workshop course description
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>480696</td>
<td>Special Studies</td>
<td>variable credit</td>
<td>A study of special topics in the field of special education. Prereq: Consent of instructor.</td>
</tr>
<tr>
<td>480700</td>
<td>Individual Studies</td>
<td>1-3 credits</td>
<td>See page 58 for Individual Studies course description. Prereq: Consent of instructor.</td>
</tr>
<tr>
<td>489712</td>
<td>Residency in Teaching</td>
<td>12 credits</td>
<td>A comprehensive residency in teaching in an accredited local educational agency participating in the Teacher Residency Program. The resident teacher is under contract for a full school year for less than a full teaching load, is salaried, and works under the guidance of an assigned team of professional personnel from the University and local school with allocated time for observations, planning, conferences and seminars. Prereq: Successful completion of Directed Teaching with initial or provisional teaching certification. Admittance to the Residency Program and Graduate School. Limited to first year teachers.</td>
</tr>
<tr>
<td>480721</td>
<td>The Exceptional Child</td>
<td>3 credits</td>
<td>A survey of educationally relevant problems of exceptional children and the implications of these problems for school programs.</td>
</tr>
<tr>
<td>489725</td>
<td>Fieldwork with Exceptional Children</td>
<td>1-3 credits</td>
<td>Field experiences in public or private community programs or agencies serving the handicapped person. Prereq: Consent of instructor.</td>
</tr>
<tr>
<td>480755</td>
<td>Techniques of Teaching the Emotionally Disturbed - Elementary</td>
<td>3 credits</td>
<td>Designed to prepare educators to teach elementary level emotionally disturbed children. Emphasis will be placed on the various educational approaches and philosophies, the use of specialized materials and curriculum, and their role in organizing and planning for the educational and emotional needs of handicapped children. Prereq: 480655 and consent of instructor.</td>
</tr>
<tr>
<td>480756</td>
<td>Techniques of Teaching the Emotionally Disturbed—Adolescent</td>
<td>3 credits</td>
<td>Designed to prepare educators to teach adolescent level emotionally disturbed individuals. Emphasis will be placed on the various education approaches and philosophies, the use of specialized materials and curriculum, and their role in organizing and planning for the educational and emotional needs of handicapped persons. Prereq: 480655 and consent of instructor.</td>
</tr>
<tr>
<td>480759</td>
<td>Art for the Exceptional Child and Adolescent</td>
<td>3 credits</td>
<td>A course for elementary and secondary teachers working with the exceptional child. The therapeutic aspects of art education in helping these children meet problems in personal adjustment and educational programming will be presented.</td>
</tr>
<tr>
<td>480770</td>
<td>Social Issues in the Identification and Education of the Emotionally Disturbed</td>
<td>3 credits</td>
<td>Designed to familiarize special educators with the major issues confronting persons involved in the diagnosis, placement, and education of children and youth termed &quot;emotionally disturbed.&quot; Emphasis will be placed on labeling, theory, the social structure of emotional disorders, the social implications of special education programs for disturbed children, and legal considerations of the diagnosis and educational treatment of emotionally disturbed children. Prereq: 480455/655, and 480755 or 480756, and consent of instructor.</td>
</tr>
</tbody>
</table>
| 480771      | Seminar: Research in Mental Retardation          | 3 credits | Identification and consideration of significant issues in the field of mental retardation. Geared to the professional development of the educator, this seminar focuses on current topics reported in related research literature from education, psychology,
medicine, rehabilitation and other supporting areas. For graduate students with practical experience in the field of mental retardation who are near the completion of their advanced training. Prereq: Consent of instructor.

480772 Seminar: Curricular Developments in Facilitative Education 3 credits
Consideration of innovations in curriculum, methods and materials, and their implication for education of exceptional children. Prereq: Consent of instructor.

480773 Consultation Techniques for Special Educators 3 credits
Designed to acquaint special educators with procedures and strategies necessary for successful teacher consultation in the schools. Class will participate in simulation activities designed to develop skills in the consultation-problem solving process. Current practices and procedures will be reviewed. Prereq: Completion of Special Education certification, teaching experience, and consent of instructor.

480774 Diagnosis of Learning Disabilities 3 credits
A review and presentation of educational and psychological diagnostic instruments. Students will discuss and utilize appropriate diagnostic and evaluative instruments. Emphasis is placed on educational diagnosis as the basis for educational programming. Prereq: 480664 and consent of instructor.

480775 Supervision and Administration of Special Education Programs 3 credits
Presentation of a broad theoretical and practical background into the nature and role of supervisory and administrative personnel in public school programs for exceptional children. Prereq: Consent of instructor.

480777 Development of Instructional Materials for EEN 3 credits
Development of a curriculum consultation model and its implications for modification and development of materials and programs in special education. Prereq: Consent of instructor.

480778 Remediation of Learning Disabilities—Elementary 3 credits

480779 Remediation of Learning Disabilities—Secondary 3 credits
Designed to prepare educators to teach elementary or adolescent level learning disabled children. Remediation strategies and techniques appropriate to this level will be reviewed and demonstrated. Emphasis will be on programming based on an educational diagnosis and participation type activities. Prereq: 480664 and admission to graduate Special Education program or consent of instructor.

480780 Seminar: Research in Developmental Disorders 3 credits
Identification and consideration of current issues in the field of learning and behavioral disorders with emphasis on the role of the teacher in meeting the academic, emotional and social needs of the problem child. Prereq: Consent of instructor.

489790 Practicum 1-5 credits
Practicum with the exceptional educational needs individual in the appropriate setting, i.e., public/private school, special class, residential setting, public/private supported home, clinic and center based program. Prereq: Consent of instructor.

480797-1 Institute variable credits

480798 Workshop in Mental Retardation 1-3 credits
See page 58 for Workshop course description.

480799 Thesis Research 1-6 credits
See page 59 for Thesis Course description. Prereq: Consent of instructor.
### COLLEGE OF LETTERS AND SCIENCES

**600690** Workshop
See page 64 for Workshop course description.

### LIBERAL ARTS FOUNDATION COURSES

Open to all Graduate Students

**619501** Women, Marriage and Family: Multidisciplinary Perspectives 3 credits
An intensive survey of issues concerning women's roles in marriage and family from the perspectives of the behavioral sciences and humanities.

**612701** Contemporary American Society 3 credits
An overview of American society, focusing attention on the character of our civilization, the nature of our achievements as a people, and giving particular attention to the major problems which America faces today.

**782701** Great Issues in Western Philosophy 3 credits
A study of major philosophical works and problems from ancient to contemporary times. These works will be used to probe basic and relevant issues such as the nature and methods of knowing, thinking, proving arguments and deciding. In addition, students will criticize and clarify key concepts and assumptions of at least one other discipline, thus gaining basic competence in one or more of the following: Philosophy of history, philosophical psychology, philosophy of art, philosophy of science.

**786711** World Religions 3 credits
The origins, beliefs, practices and development of six major world religions: Hinduism, Buddhism, Confucianism, Judaism, Christianity and Islam.

### SPECIALIZED AREAS

**AMERICAN STUDIES (612)**

**612690** Workshop
See page 64 for Workshop course description.

**612696** Special Studies
variable credit

**612700** Individual Studies
See page 58 for Individual Studies course description.

**612798** Workshop
See page 58 for Workshop course description.

### ANTHROPOLOGY (613)

### SPECIALIZED COURSES

**613522** Indians of Meso- and South American 3 credits
Description and analysis of representative Indian peoples of Meso- and South America. The archaeological and historical backgrounds of contemporary indigenous societies will be considered. Prereq: 880110 or consent of instructor.
613524 Peoples of the Pacific
Surveys the indigenous peoples and cultures of Pacific island societies. The survey will include discussions of technological, social, and idealational patterns among the ethnic groups of the area. The origins and historical relationships of islanders will also be considered. Prereq: 880110 or consent of instructor.

613529 Political Anthropology
Political organization in preindustrialized societies of varying degrees of complexity. Law and the maintenance of order; corporate groups; ideology. The relations of political to other institutions of society. The nature of political change. Prereq: 880110 or consent of instructor.

613534 Women in Cross-Cultural Perspective
A study of sex role differences and their expressions in nonwestern societies of differing levels of socio-economic complexity, with emphasis on women’s roles in marriage and family life, female socialization, male control over female sexual access and procreation, and women in myth and ritual. Prereq: 880110 or consent of instructor.

613620 Culture and Personality
An interdisciplinary course dealing with questions of mutual interest to psychologists and anthropologists. Cross-cultural approaches to personality formation, measurement, description of personality characteristics of groups. Character attributes of peoples from selected societies throughout the world. Stress and mental disorders. Relationship of personality, culture, and social change. Prereq: 880110 or consent of instructor.

WOMEN’S STUDIES (619)

LIBERAL ARTS FOUNDATION COURSE

619501 Women, Marriage and Family: Multidisciplinary Perspectives
An intensive survey of issues concerning women’s roles in marriage and family from the perspectives of the behavioral sciences and humanities.

SPECIALIZED COURSES

619696 Special Study
Study of a special topic designed to increase the student’s knowledge of significant research on women. May be repeated. Prereq: Consent of instructor.

APPROVED COURSES IN OTHER DEPARTMENTS

ANTHROPOLOGY

613534 Women in Cross-Cultural Perspective
A study of sex role differences and their expressions in nonwestern societies of differing levels of socio-economic complexity, with emphasis on women’s roles in marriage and family life, female socialization, male control over female sexual access and procreation, and women in myth and ritual. Prereq: 813110 or consent of the instructor.

EDUCATIONAL FOUNDATIONS AND COUNSELOR EDUCATION

421677 Counseling Women and Girls
Practicing and graduate counselors and undergraduates who have had experience working with women or counseling will analyze traditional and current theories and practices of counseling women. Alternative programs and strategies will be developed.
oped and practiced. Prereq: 840486/686, or 860492, or 421718, or written consent of instructor.

ENGLISH

680662 Twentieth Century Women Writers 3 credits
A study of significant American and British women writers of the twentieth century. Prereq: Two advanced literature courses or consent of the instructor.

HISTORY

740525 Women in the Western World 3 credits
A study of the historical position of women in Western civilization from classical antiquity through the nineteenth century in the reality of everyday experience and in the context of philosophic, moral, literary, and legal evidence and/or commentary.

740526 History of Contemporary Women from 1800 3 credits
A comparative historical study of the role of women in representative societies of the modern world—the United States, Scandinavia, Soviet Russia, China, Britain and the Commonwealth—in the reality of everyday experience and in the context of philosophic, economic, social, aesthetic, legal, and political structures and commentary.

POLITICAL SCIENCE

820580 Women and Politics 3 credits
This course is designed to acquaint the student with the roles of women in political life. Topics include effective civic participation, women's issues and the women's movement.

SPEECH

66643 Women Speakers in America 3 credits
Surveying women speakers in America from colonial to contemporary times, focusing upon issues and investigating the women who spoke supporting and opposing them. Representative issues include religious freedom, abolition, women's suffrage, temperance, populism, and feminism. Speakers are evaluated concerning their messages and the relationships of the ideas to the audience and the times. Prereq: 666110 or equivalent.

BIOLOGY (630)

LIBERAL ARTS FOUNDATION COURSES

630701 Man in Nature* 2-3 credits
A study of the interrelationships between the biological and cultural phenomena of mankind.

630702 Integrated Biological Principles* 3 credits
Designed to integrate fundamental concepts of life. Protoplasm, cells, tissues, organs, physiology, energy transfer, growth, development, reproduction, heredity, evolution, adaptations and ecological interactions of plants and animals. Open to elementary and secondary teachers who have had an introductory course in biological science and who are not specializing in the biological science. Includes lecture, laboratory and field work.

*Not for those in the biology emphasis
630703 Environment and Man
A study of basic ecological concepts and their applications to the identification, understanding and abatement of contemporary environmental problems. Special emphasis is given to those problems resulting from man and his activities.

SPECIALIZED COURSES

630510 Biology of Aging*
A study of the biological phenomena associated with aging, including theories and characteristics of aging, reversibility and irreversibility of bodily functions and behavioral alterations as they are affected by neurological, myological and endocrinological changes. Prereq: 630120 or 630142 or consent of instructor.

630527 Plant Pathology
A study of the nature and classification of plant pathogens, the ecologic and physiologic relationships between host and pathogen and the principles of plant disease control. Two lectures and two hours of laboratory per week. Prereq: 630141.

630540 Comparative Vertebrate Anatomy
Dissection and study of vertebrate types emphasizing characteristic structures, general relationships, comparative anatomy, and the significance of adaptation and evolution. Laboratory work, lectures and quizzes. Prereq: 630141 and 630142.

630541 Vertebrate Embryology
A study of reproductive cycles; gametogenesis and fertilization; the establishment of tissues, organs and system. Introduction to embryological experimental techniques and procedures for study of frog, chick, and pig. Laboratory, lecture and quizzes. Prereq: 630141 and 630142.

630543 Survey of Invertebrates, Including Insects
The collection, identification, natural history and significance of invertebrate animals, including insects. Prereq: 630142 or consent of instructor.

630545 Animal Physiology
A study of the functional mechanisms that underlie the life processes in animals. Six hours of laboratory and lecture per week. Prereq: 630142, plus 640102 and 640104, or 640141 and 640142 or 800160, 800161, 800162, 800163.

630551 Plant Morphology (or the Plant Kingdom)
A study of the major groups of plants, with emphasis on structure, reproduction, classification and evolution. Prereq: 630141.

630553 Plant Taxonomy
The principles and practice of classification of plants with emphasis on seed plants; includes collection and identification of native and cultivated plants of this area. One hour of lecture and four hours of laboratory per week. Prereq: 630141-General Botany and 630142-General Zoology. Field trips.

630556 Environmental Radiation Protection
A course designed to provide the participant with a series of lecture and laboratory experiences involving radiation and radionuclides, both natural and man made, and their impact on the human environment. Emphasis will be on the methodology of detection and measurement of radiation and its human implications. Prereq: One semester of biology and/or one semester of chemistry and consent of instructor. Field trips.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>630570</td>
<td>Aquatic Biology</td>
<td>3</td>
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<tr>
<td></td>
<td>The study of aquatic environment,</td>
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<td></td>
<td>its fauna, flora and general</td>
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<td>ecology. The laboratory will</td>
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<td></td>
<td>emphasize the taxonomic study of</td>
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<td>aquatic organisms. Prereq: 630120-</td>
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<td></td>
<td>Biological Foundations or 630141-</td>
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<td></td>
<td>General Botany and 630142- General</td>
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<td></td>
<td>Zoology. Field trips.</td>
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<tr>
<td>630610</td>
<td>Bacteriology</td>
<td>3-4</td>
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<tr>
<td></td>
<td>A lecture-laboratory course in the</td>
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<td>fundamental principles of</td>
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<td>bacteriology, including</td>
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<td></td>
<td>taxonomy, cytology, metabolism and</td>
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<td>ecology. Prereq: 10 hours of</td>
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<td>biological sciences, part of which</td>
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<td>must be from the general field of</td>
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<td>botany and part from zoology. In</td>
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<td>addition, chemistry through and</td>
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<td>including Organic Chemistry will</td>
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<td>be extremely valuable. (If this</td>
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<td>course is offered during the day,</td>
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<td>it carries 4 credits including</td>
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<td>laboratory work: 3 credits evening</td>
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<tr>
<td>630612</td>
<td>Immunology</td>
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<td></td>
<td>Immunity to infectious diseases</td>
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<td>related to changes in the</td>
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<td>constituents of the blood is</td>
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<td>explored. Transplantation of</td>
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<td>tissues, allergies, and</td>
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<td>autoimmune diseases are</td>
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<td>discussed. Prereq: 630142, plus one</td>
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<td>year of chemistry.</td>
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<tr>
<td>630613</td>
<td>Genetics</td>
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<td>Designed to present a well rounded</td>
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<td>view of modern genetics. Emphasizes</td>
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<td>basic principles. Materials and</td>
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<td>techniques are used that will</td>
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<td>permit application and give</td>
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<td>understanding to the present</td>
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<td>problems of genetics. Prereq: 630141</td>
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<td>and 630142, 640102 and 640104 or</td>
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<td>640141 and 640142.</td>
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<td>630615</td>
<td>Endocrinology</td>
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<tr>
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<td>A study of the hormonal</td>
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<td>regulations of metabolism, growth</td>
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<td>and reproduction. Three hours of</td>
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<td>lecture per week, laboratory</td>
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<td>demonstrations arranged. Prereq: 630141,</td>
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<td>630142, 640102 and 640104 or</td>
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<td>640141 and 640142.</td>
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<tr>
<td>630617</td>
<td>Plant Physiology</td>
<td>4</td>
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<td>Protoplasm, translocation, plant</td>
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<td>metabolism, chemosynthesis, plant</td>
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<td>respiration, plant growth and</td>
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<td></td>
<td>reproduction growth. Prereq: 630141;</td>
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<tr>
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<td>640102 and 640104 or 640141 and</td>
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<td></td>
<td>640142; or 800160-161 and 800162-163.</td>
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<tr>
<td>630620</td>
<td>Ichthyology</td>
<td>3</td>
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<tr>
<td></td>
<td>A study of the taxonomy, distribution,</td>
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<tr>
<td></td>
<td>ecology and evolution of fishes.</td>
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<td>Collection, preservation and</td>
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<td>identification of local species will be</td>
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<td>emphasized. Two one-hour lectures</td>
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<td>and one two-hour laboratory period</td>
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<td>per week. Prereq: 630142. Field</td>
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<td>trips.</td>
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<tr>
<td>630622</td>
<td>Introduction to Ornithology</td>
<td>3</td>
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<td>The classification, distribution,</td>
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<td>behavior, life histories and</td>
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<td>natural habitats of North</td>
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<td>American birds. Emphasis is given</td>
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<td>to the field recognition of local</td>
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<td>species. Four one-hour lectures and</td>
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<td>laboratory. Prereq: 630142 or 630120.</td>
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<td></td>
<td>Field trips.</td>
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<tr>
<td>630623</td>
<td>Introduction to Mammalogy</td>
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<tr>
<td></td>
<td>Classification and natural history</td>
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<td></td>
<td>of mammals with special emphasis on</td>
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<td></td>
<td>Wisconsin species. Four hours of</td>
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<td>lecture and laboratory. Prereq: 630141 and 630142;</td>
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<td>630340 and 630353 recommended.</td>
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<td>Field trips.</td>
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<tr>
<td>630630</td>
<td>Animal Behavior</td>
<td>3</td>
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<td></td>
<td>Behavior of animals as individuals and groups, including study of causation, development, integration, evolution and adaptive value of behavior patterns. Lecture and laboratory. Prereq: 630142.</td>
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<tr>
<td>630640</td>
<td>Microtechnique</td>
<td>2</td>
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<td></td>
<td>Fundamental techniques in the</td>
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<td>preparation of microscope slides of</td>
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<td>plant and animal tissues, including methods of fixation, embedding, sectioning, and attaining, histo-</td>
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</tbody>
</table>
630641 Biological Techniques
2 credits
Designed to give the student experience in performing basic biological techniques and to develop skills essential in research and teaching. Prereq: Biology major.

630642 History and Philosophy of Biology
2 credits
A course designed for biology majors and minors to demonstrate the evolution of scientific thought and how it has contributed to contemporary methods of teaching and research. Emphasis will be placed on the origin of the underlying theories, principles, laws, techniques, and implements used by the early biologists in formulating their conclusion. Prereq: Biology majors and minors or consent of instructor.

630646 Organic Evolution
2 credits
History of evolutionary thought, evidences of evolution, and analysis of evolutionary mechanisms and processes. Prereq: Genetics.

630651 Invertebrate Zoology
4 credits
A comprehensive study of the structure, physiology and economic importance of the major groups of invertebrate animals except insects and parasites. Six hours of laboratory and lecture per week. Prereq: 630141 and 630142. Field trips.

630652 Entomology
4 credits
A study of the classification, identification and life cycles of insects. Insects of economic importance will be considered. A collection of insects will be required. Prereq: 630142 or equivalent. Field trips.

630653 Animal Histology
3 credits
A study of the minute structure of animal tissues by examination of materials prepared for the light microscope supplemented by micrographs showing details revealed with electron microscopy. Six hours of laboratory or lecture per week. Prereq: 630141 and 630142, 630340 and/or 630341.

630654 Vertebrate Field Biology
3 credits
A study of the classification, distribution, ecology, life history, field techniques and literature survey of the vertebrates. Special emphasis is given the vertebrates of Wisconsin. Prereq: 630141-630142 or equivalent and 630340. Field trips.

630655 Parasitology
3 credits
The life cycles, epidemiology and control of protozoan, trematode, cestode, roundworm and antropod parasites of man and domestic animals will be studied. Studies of infections in laboratory animals will be carried out. Prereq: 630141, 630142.

630656 Radiation Biology
3 credits
A laboratory-oriented course designed to provide formal training in the instrumentation and techniques for measuring nuclear radiation, to observe the effects of radiation on living systems and to acquaint the student with the health hazards involved. Six hours of lecture and laboratory per week. Prereq: 630141, 630142, and a year of college chemistry. A year of college physics is also recommended. Field trips.

630657 General Ecology
4 credits
A study of the relationships of plants and animals to their environments through an investigation of the physical and biological aspects of the biotic community. Field techniques will be acquired. Six hours of laboratory or lecture per week. Prereq: 630141 and 630142 plus six additional hours in biology or consent of the instructor. Field trips.
630660 Introductory Mycology 3 credits
A comprehensive study of all fungal phyla emphasizing taxonomy, morphology, phylogeny, and physiology. Economic uses of fungi in good production, fungal deterioration and industrial application. Prereq: 630141, 630142, 630325 or 630351 or equivalent recommended.

630663 Molecular Biology 3 credits
The course consists of lectures, discussion and laboratory work emphasizing cell ultra structures and the associated chemical activities that function as the cell level. Four hours of lecture, discussion and laboratory per week. Prereq: 630141; 630142; a year of chemistry or a year of physics; one semester of organic chemistry recommended. Field trips.

630664 Basic Electron Microscopy 2 credits
A laboratory-oriented course designed to provide the student with "hands on" experience in preparation of support films, negative staining, tissue fixation, embedding, block trimming, knife making, thin sectioning, grid and specimen preparation, high vacuum evaporation and replication, staining, shadow casting, photographic techniques and the basic operation and use of an electron microscope. Prereq: Biology majors or minors or consent of instructor.

630668 Marine Biology—Ecology of the Florida Keys 3 credits
A course designed to provide the participants with a series of field experiences including a basic survey of various marine and terrestrial communities and the ecological principles that govern the existence of the organisms that comprise these unique communities. Prereq: 630141 and 630142 or consent of instructor.

630680 General Limnology 3 credits
A presentation of the interrelationships between the physical, chemical, and biological aspects of aquatic environments. The laboratory will demonstrate methods and equipment for conducting limnological studies. Prereq: 630141; 630142; 640102-104 or 640141-142 or consent of instructor.

630685 Pollution Biology 3 credits
A study of environmental pollution with emphasis on the sources, effects and abatement of air and water pollution. The laboratory will be devoted to methods for detecting specific pollutants, and the evaluating the biological effects of these pollutants. Prereq: 630141, 630142 and one year of college chemistry. Field trips.

630690 Workshop variable credit
See page 64 for Workshop course description.

630694 Seminar 1 credit
A discussion of contemporary, significant problems in biology. The subject matter varies depending on the needs and desires of the participants. To be taken no more than twice for credit. Prereq: 16 hours of biology including botany and zoology.

630696 Special Studies variable credit

630700 Individual Studies 1-3 credits
See page 58 for Individual Studies course description.

630721 Ecological Biology 4 credits
Interrelationship between plants and animals in respect to their environments, including community organization, behavior and field recognition of flora and fauna. Two hours of lecture and two two-hour laboratories plus several extended field trips. Prereq: 630141-630142 and/or consent of instructor.
630722 Plant Physiology
The general physiology of plants, methods of demonstrating and determining rates of plant processes: Nutrition, adjustment to environment, factors influencing growth and development. The course will consist of lectures, demonstrations, laboratory work and one field trip to the University of Minnesota Agricultural Campus Plant Physiology Laboratories to observe apparatus and techniques used in research. Prereq: One year of biology, a year of college chemistry and an elementary knowledge of physics.

630723 Field Zoology
Field trips observing habitats and collecting local animals, identification and study of collected species. Prereq: One year of biology.

630797-1 Institute
variable credit

630798 Workshop
variable credit

630799 Thesis
See page 59 for Thesis course description.

1-6 credits

PIGEON LAKE FIELD STATION

The University of Wisconsin System sponsors summer programs at the Pigeon Lake Field station near Drummond in Bayfield County of northwestern Wisconsin. Station offerings include undergraduate and graduate courses in field biology and in mapping and outdoor education. Sessions vary from one to six weeks in length with a variety of biology courses offered on a rotating basis. Credit earned at the Station is accepted as residence credit at this University.

The Field Station is located in a natural outdoor laboratory among the lakes, streams, and forests of relatively unspoiled portions of northern Wisconsin. Students are housed in rustic cabins and have their meals in the Station dining hall. PLFS facilities also include two classroom buildings and a recreation hall on land including 1,400 feet of shoreline on Pigeon Lake. With access to Lake Superior and the Apostle Islands, the national forest, and adjacent wildlife areas, the Station is ideally located for field studies as well as for recreation.

The several programs offered each summer are publicized by special announcements early in the year. For further details contact the chairperson of the Department of Biology or the campus Representative on the PLFS Consortium Board of Directors.

CHEMISTRY (640)

LIBERAL ARTS FOUNDATION COURSE

640702 Physical Science
An in-depth examination of certain developments in physical science principles and their impact on man's thought and way of life. Open to experienced elementary and secondary school teachers who have had an introductory course in physical science.

3 credits

SPECIALIZED COURSES

640655 Advanced Organic Chemistry
An extension of the basic course covering selected topics from the theories and chemistry of organic structures. Prereq: A year's course in general organic chemistry.

3 credits

640690 Workshop
See page 64 for Workshop course description.

variable credit
640700 Individual Studies
See page 58 for Individual Studies course description.

640797-I Institute

640798 Workshop
See page 58 for Workshop course description.

COMMUNICATION (662, 664, 666)

COMMUNICATIVE DISORDERS (662)

SPECIALIZED COURSES

662570 Practicum: Communicative Disorders 1-2 credits
Clinical (supervised) practices with children and adults who have communicative disorders. Three credits are required and are to be taken during junior and senior years. Prereq: 662371.

662582 Audiology 3 credits
Techniques utilized in evaluation of the auditory function including pediatric, geriatric, G.S.R., Bekesy, and functional testing procedures. Prereq: 662381.

662584 Aural Rehabilitation 3 credits
A study of habilitation and rehabilitation procedures for the deaf and hard-of-hearing including techniques of speechreading, auditory training, and an examination of the psycho-social aspects of hearing loss. Prereq: 662270 or consent of instructor.

662585 Fluency Disorders 3 credits
A study of the theoretical, clinical and experimental approaches to fluency disorders as stuttering and cluttering. Prereq: 662376.

662670 Diagnostic Methods in Communicative Disorders 3 credits
Supervised diagnostic experiences with children and adults having speech, hearing and/or language disorders. The course includes participation in diagnostics, interpretation of diagnostic test findings, parent conferences and report writing. Prereq: Senior standing, communicative disorders major or consent of instructor.

662680 Speech and Language Development in the Child 3 credits
The study of normal speech and language development as seen by the anthropologists, sociologists, psychologists, psycholinguistics and speech and hearing scientist and educators.

662681 Language Assessment and Intervention in Communicative Disorders 3 credits
This course examines informal assessment procedures for evaluating language-disordered pre-school and school aged children, and the intervention strategies resulting from such assessment, which are appropriate to the developmental language stage of such children.

662686 Disorders of Voice 3 credits
A study of vocal disorders of functional and organic origin, the procedures for their evaluation and therapy; a review of recent research literature in these areas. Prereq: 662374 or consent of instructor.
662687 Speech and Voice Disorders of Cleft Palate  3 credits
A study of etiology, embryology, surgical prosthetic, and dental management; evaluation and management of the speech and voice disorders; and a review of recent research literature. Prereq: 662374, 662376, or consent of instructor.

662688 Neurological Disorders of Speech and Language I  3 credits
The study of the neuroanatomical bases for speech and language impairment in adult aphasia and apraxia; evaluation and management of the speech and language disorders; and the review of recent literature in the area. Prereq: 662374 or consent of instructor.

662689 Neurological Disorders of Speech and Language II  3 credits
The study of the neuroanatomical bases for speech and language impairments in cerebral palsy; the evaluation and management of the child with cerebral palsy, childhood aphasia, apraxia, or autism; and a review of recent research literature in these areas. Prereq: 662374 and 662376 or consent of instructor.

662690 Workshop  variable credit
See page 64 for Workshop course description.

662696 Special Studies  1-3 credits
A course which is not regularly included in the curriculum but which is offered from time to time on topics in speech communication selected on the basis of need, interest, or timeliness. Prereq: Consent of instructor.

662700 Individual Studies  1-3 credits
See page 58 for Individual Studies course description.

662709 Seminar in Communicative Disorders  3 credits
Identification and consideration of significant issues in communicative disorders. The course is geared to the professional development of the speech and language clinician and focuses on such content areas as the acoustically handicapped, oral language problems, voice disorders, fluency disorders, neurological disorders such as aphasia and cerebral palsy, cleft palate and special therapeutic and diagnostic problems. Content areas will change each semester and the course may be repeated with a change of content. Prereq: Consent of instructor.

662710 Speech and Language Therapy in the Clinical Environment  3 credits
A study of professional and research literature pertinent to the various clinical environments, with emphasis on the school environment, and the special problems that confront the speech and language clinician in these environments such as hospitals, public schools, etc. Prereq: Consent of instructor.

662711 The Dysarthrias  3 credits
Study of the neurophysiology underlying speech and the neuropathologies which lead to the dysarthrias. Evaluating the dysarthrias by means of taped transcriptions and neuromuscular examination, and planning remediation procedures are emphasized. Relevant research literature is reviewed.

662712 Research Methods in Communicative Disorders  3 credits
A basic course in the methods of research in communicative disorders including the needs for scientific research; the nature of scientific research; methods underlying the research process; basic types of research methodology; the planning of a research paper; and considerations in interpreting research results.

662713 Seminar in Normal and Disordered Language Behavior  3 credits
Individual investigations of specific topic areas within normal and disordered language behavior; students will update knowledge and fill in gaps in their knowledge of
assessment and intervention techniques for use with language disordered individu-
als. Prereq: 662480/680.

662764 Speech and Language Disorders in Special Populations  3 credits
Study of language content, form (phonological, morphological, syntactic), and use
exhibited by children. Comprising various special populations, including mentally re-
tarded, hearing impaired, learning disabled, emotionally disturbed, environmentally
deprived. Focus on describing the individual child's language content, form, and use
to select appropriate intervention goals and procedures.

662798 Workshop
See page 58 for Workshop course description.

662799 Thesis
See page 59 for Thesis course description.

MASS COMMUNICATION (JOURNALISM) (664)

SPECIALIZED COURSES

664603 Supervising School Publications  3 credits
Work in directing high school newspapers and yearbooks with consideration of the
place of these publications in the educational program. Working with school
publicity.

664606 Reporting Public Affairs  3 credits
Advanced work in reporting with emphasis on news related to crime and the courts,
government and politics, business, finance, and labor. Includes study of the courts,
legislative procedures and business. Prereq: 664244.

664620 Law of Mass Communication  3 credits
Study of law as applied to the mass media with particular emphasis on freedom of
information, libel, privacy, contempt and copyright regulation.

664630 Communication and Public Opinion  3 credits
The role of the mass media of communication in the formation of public opinion,
Propaganda goals of government, political, economic, and social groups. Prereq:
Consent of instructor.

64690 Workshop
See page 64 for Workshop course description.

66496 Special Studies

variable credit

1-3 credits

variable credit

variable credit

1-6 credits
**SPEECH COMMUNICATION (666)**

**SPECIALIZED COURSES**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tr>
<td>666521</td>
<td>Body Language as Communication</td>
<td>3</td>
<td>Nonverbal dimensions of interpersonal communication (physical behavior, facial expression, eye behavior, personal space, personal appearance—clothing, touch, voice and the use of objects) focusing upon their interaction with verbal or speech communication. Study of concepts and actual participation in nonverbal exercises. Prereq: 666110 or equivalent.</td>
</tr>
<tr>
<td>666539</td>
<td>History of Cinema</td>
<td>3</td>
<td>A study of the motion picture as a significant art form of the twentieth century, with an emphasis upon the historical, social, economic, technical, and artistic factors that influenced its development.</td>
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<tr>
<td>666562</td>
<td>Experimental Forms of Debate</td>
<td>3</td>
<td>An opportunity for the experienced debater or the debate coach to participate in, observe and test new and different debate formats. A study of such forms as they are used in nonacademic as well as academic situations. Includes both theory and application. Prereq: 666162 or permission of instructor.</td>
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<tr>
<td>666620</td>
<td>Listening Behavior</td>
<td>3</td>
<td>A study of the recent theory and research focusing on the process of listening in human communication. Analysis of approaches to teaching listening in the schools and training in business-industry. Prereq: 666110 or equivalent or consent of instructor.</td>
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<tr>
<td>666622</td>
<td>Communication Theories</td>
<td>3</td>
<td>A study of communication theories from various disciplinary view points. An investigation of various models of the communication process with emphasis on “meaning-centered” approach to the communication act (source, message, channel, receiver).</td>
</tr>
<tr>
<td>666624</td>
<td>Cross Cultural Communication</td>
<td>3</td>
<td>Study of the process of communication across cultural boundaries emphasizing a basic model of communication in the analysis of communication within and between various cultures, predictions of patterns and effects and communication barriers.</td>
</tr>
<tr>
<td>666633</td>
<td>Seminar in Speech Communication of North American Indians</td>
<td>3</td>
<td>A study of the communication of North American Indians, both historical and current, with particular emphasis on those of the Wisconsin area.</td>
</tr>
<tr>
<td>666634</td>
<td>Broadcast Station Operations and Procedures</td>
<td>3</td>
<td>An advanced level course dealing with the elements of broadcast station operations including broadcasting rules and regulations, sales and management, programming, audience research, and responsibility to the audience. Individual research and participation are stressed.</td>
</tr>
<tr>
<td>666636</td>
<td>Film Production</td>
<td>3</td>
<td>A study of production techniques for film making, including the planning, shooting and editing of films for class. Prereq: 666236 or consent of instructor.</td>
</tr>
</tbody>
</table>
| 666643      | Women Speakers in America                                          | 3       | Surveying women speakers in America from colonial to contemporary times, focusing upon issues and investigating the women who spoke supporting and opposing them. Representative issues include religious freedom, abolition, woman's suffrage, temperance, populism and feminism. Speakers are evaluated concerning their
messages and the relationships of the ideas to the audiences and the times. Prereq: 666110 or equivalent.

666647 **American Public Address** 3 credits
A critical study of those whose speaking exemplifies typical effective speech in the United States, from colonial times to the present. Prereq: 666110.

666648 **British Public Address** 3 credits
A survey of British speakers and their speeches from early history to the present. Prereq: 666110.

666657 **Classical Rhetoric** 3 credits
A study of those theories of public speaking developed by the ancient Greek and Roman thinkers, particularly Plato, Aristotle, Cicero and Quintillian. Prereq: 666110.

666658 **Neo-Classical Rhetoric** 3 credits
A study of the theory of speechmaking as it developed from approximately the second through the sixteenth centuries. Prereq: 666110.

666665 **Directing Debate** 3 credits
Specific information for prospective teachers who may direct high school debate. The course is open both to speech majors and others interested in debate. Prereq: Experience in debate or direction of debate or consent of instructor.

666666 **Directing Forensics** 3 credits
Methods of helping students prepare for speech activities involving individual rather than team participation. For those who direct or expect to direct forensics. Open to both speech majors and non-majors.

666690 **Workshop** variable credit
See page 64 for Workshop course description.

666696 **Special Studies** 1-3 credits
A course which is not regularly included in the curriculum but which is offered from time to time on topics in speech communication selected on the basis of need, interest, or timeliness. Prereq: Consent of instructor.

666700 **Individual Studies** 1-3 credits
See page 58 for Individual Studies course description.

666701 **Introduction to Graduate Study in Speech** 3 credits
Nature of graduate study and the principles and methods of historical-critical, descriptive and experimental research in speech and theatre.

666702 **Seminar in Rhetoric and Public Address** 3 credits
Investigation of special topics selected on the basis of need, interest, or timeliness which may change each time the course is offered.

666703 **Seminar in Contemporary Communication Problems** 3 credits
Investigation of special topics selected on the basis of need, interest, or timeliness which may change each time the course is offered.

666705 **Seminar in Theatre and Oral Interpretation** 3 credits
Investigation of special topics selected on the basis of need, interest, or timeliness which may change each time the course is offered.

666706 **Seminar in Speech Education** 3 credits
Investigation of special topics selected on the basis of need, interest, or timeliness which may change each time the course is offered.
666753 Oral Communication for the Professions  3 credits
An opportunity for business and education students to use oral communication in specific small and large group situations. Work with formal and informal presentations.

666776 Speech in the Elementary School  3 credits
Consideration of techniques useful in speech improvement programs in the elementary school: Oral reading, story telling, group reading, choral speaking, creative dramatics, puppetry, speech making, discussion, listening, assembly programs.

666798 Workshop  variable credits
See page 58 for Workshop description.

666799 Thesis  1-6 credits
See page 59 for Thesis course description.

ENGLISH (680)

LIBERAL ARTS FOUNDATION COURSES

680701 Language in Society  3 credits
Historical growth and continuing development of the English language and its uses in society, including a study of current usage and principles for evaluating language in use. For experienced elementary and secondary school teachers who have completed the lower division course requirements in English and who have not had similar work.

SPECIALIZED COURSES

680515 The Development of the English Novel to the Twentieth Century  3 credits
A survey of the development of the English novel from the eighteenth century to the twentieth, with emphasis on the development of themes and techniques. Studies of selected works by Defoe, Richardson, Fielding, Sterne, Austen, Scott, Dickens, Thackeray, Eliot, Hardy, Conrad, and/or others.

680520 Prose and Poetry of the Restoration and Eighteenth Century  3 credits
A survey of English prose and poetry from 1660 to 1800.

680545 Afro-American Literature, 1800 to the Present  3 credits
A survey of essays, prose fiction and drama, and poetry written by Afro-Americans from the colonial period to the present.

680546 Survey of Modern Drama  3 credits
Analysis of trends and developments in the modern theatre from Ibsen's realistic plays to off-off Broadway drama with emphasis on literary history and staging problems.

680548 American Literature: 1900-1950  3 credits
A survey of American literature from 1900 through 1950, concentrating on major poets and writers of prose fiction, including Frost, Eliot, Hemingway, Steinbeck and Faulkner.

680549 Modern American and British Literature: 1950 to Present  3 credits
A study of the literature of the post-World War II era. Special emphasis on the contemporary theme of the search for values.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>680550</td>
<td>The Novel</td>
<td>3</td>
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<tr>
<td></td>
<td>A study of outstanding examples of the novel as a major art form in the literature of western civilization, planned to acquaint students with the range of its subject matter.</td>
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<tr>
<td>680551</td>
<td>Classical Myth and Legend as Sources for Literature</td>
<td>3</td>
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<tr>
<td></td>
<td>An examination of classical myths and legends and how they are used in various periods and genres of literature.</td>
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<tr>
<td>680558</td>
<td>American Literature</td>
<td>3</td>
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<tr>
<td></td>
<td>A survey of American literature from the seventeenth to the twentieth century to acquaint the student with the foremost writers of our literary culture.</td>
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<tr>
<td>680567</td>
<td>World Literature</td>
<td>3</td>
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<tr>
<td></td>
<td>A rapid survey of western literatures other than English and American. Reading and discussion of translated masterpieces representing major literary periods from ancient times to the present.</td>
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<tr>
<td>680570</td>
<td>Advanced Composition</td>
<td>3</td>
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<tr>
<td></td>
<td>A course in advanced exposition and argumentation.</td>
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<tr>
<td>680571</td>
<td>Advanced Composition for High School Teachers</td>
<td>3</td>
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<tr>
<td></td>
<td>A course in exposition and argumentation, with emphasis on how to write and evaluate literary criticism and how to analyze and evaluate student writing.</td>
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<tr>
<td>640752</td>
<td>Technical and Scientific Writing</td>
<td>3</td>
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<tr>
<td></td>
<td>Instruction and practice in expository, descriptive and report writing, with special application to technical and scientific subject matter.</td>
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<tr>
<td>680573</td>
<td>Introduction to the Writing of Poetry</td>
<td>3</td>
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<tr>
<td></td>
<td>An intensive course in the writing of poetry with special emphasis on techniques of revision and strategies for publishing.</td>
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<tr>
<td>680574</td>
<td>Creative Writing</td>
<td>3</td>
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<tr>
<td></td>
<td>Study, discussion, and writing of description, narration, verse, and the short story.</td>
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<tr>
<td>680576</td>
<td>Creative Screenwriting</td>
<td>3</td>
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<td></td>
<td>Practical experience in writing scripts for cinema and/or television, with special emphasis on the creative, theoretical, and critical processes. This course relates writing to production through interdisciplinary cooperation with Film Production: 666436. The two courses will jointly sponsor showings of student-written films.</td>
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<tr>
<td>680578</td>
<td>Stylistics</td>
<td>3</td>
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<td></td>
<td>Introduction to analysis of prose style through intensive study of a broad range of contemporary styles, and application of the principles of styles in student writing.</td>
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<tr>
<td>680582</td>
<td>History of the Language</td>
<td>3</td>
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<tr>
<td></td>
<td>A study of linguistic fact and theory leading to an understanding of the organic nature of language and an acquaintance with the sounds, structures and meanings of English in historical perspective.</td>
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<tr>
<td>680583</td>
<td>Modern Grammatical Theory</td>
<td>3</td>
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<tr>
<td></td>
<td>A study of structural and transformational-generative grammars.</td>
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<tr>
<td>680584</td>
<td>Teaching English as a Second Language</td>
<td>3</td>
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<td></td>
<td>Provides a basic foundation in linguistic theory and methodology as well as practical experience in teaching English as a second language on the elementary and secondary levels. Students taking this course will be required to work with non-English speaking students in Southeastern Wisconsin (usually Spanish speaking).</td>
<td></td>
</tr>
</tbody>
</table>
680600 Chaucer  3 credits
A study of the language and art of Chaucer as he reflects the culture of his time.

680602 English Renaissance Poetry and Prose  3 credits
A study of the prose and poetry of the Tudor period, with special emphasis on the works of Spenser.

680606 Milton  3 credits
A study of the principal works in poetry and prose of John Milton.

680659 History of Literary Criticism  3 credits
An examination and comparison of the major works of criticism from Aristotle to Eliot.

680662 Twentieth Century Women Writers  3 credits
A study of significant American and British women writers of the twentieth century.

680677 The Current Writing Scene  3 credits
An intensive study of the range of current writing, with practice in written composition which may qualify students for professional employment.

680685 Applied English Linguistics  3 credits
An intensive course in applying linguistic analysis to literature, language learning, composition, and dialects.

680690 Workshop  variable credit
See page 64 for Workshop course description.

680693 Applied Study: Internship in Writing  1-6 credits
Internships, as available, in business or government for suitably prepared students wishing to make a career as writers.

680694 Senior Seminar in Writing  3 credits
A closely guided program of instruction in writing, determined in consultation with the instructor, ranging from creative writing to scholarly analysis. May be taken for credit no more than twice.

680696 Special Studies  2-4 credits
Designed to increase the student’s understanding of the range of literature. By special request of the students or faculty, the particular area to be published before registration.

680700 Individual Studies  1-3 credits
See page 58 for Individual Studies course description.

680747 American Novelists  3 credits
A study of the American novel, form and content. Intensive reading of selected novels.

680749 Modern Literature  3 credits
A study of selected poems, novels, plays and short stories of significant twentieth-century writers from Yeats, Joyce and Shaw through Frost, O’Neill and Hemingway.

680761 Shakespeare  3 credits
Careful reading of about six plays; some observation of the most useful textual, historical and structural criticism.
680770 Studies in a Major Writer 2-3 credits
A careful reading in the canon of a major British or American writer, the selection to
determine method, i.e., historical, formal, archetypal, etc., or eclectic. Subject will be
announced in advance.

680771 Studies in Special Topics 3 credits
An extensive study of a special literary form, topic, motif, etc., as it appears in a
number of authors and eras.

680772 Literature and the Human Experience 3 credits
The articulation of a number of fundamental literary forms illustrated from classic
(e.g., Homer) to modern (e.g., Salinger) works, as a metaphor for Human Experi-
ence, particular emphasis on modern popular literature, i.e., television drama and
comic strip, as embodying these forms.

680790 Research in English 3 credits
Designed to save the student’s time in other English courses by acquainting the stu-
dent with specialized references, printed compilations and other library shortcuts.
Each week the student is assigned a dozen or so typical questions in one literary
area, along with a number of places to locate the answers. In addition, each student
reads a book on literary sleuthing, famous literary forgeries and other literary gossip
every English graduate student should know.

680798 Workshop variable credit
See page 58 for Workshop course description.

680799 Thesis Research 1-3 credits
See page 59 for Thesis course description.

FOREIGN LANGUAGES (French - 702)
(German - 704)
(Spanish - 708)

702696 Special Studies variable credit

704696 Special Studies variable credit

708696 Special Studies variable credit

GEOGRAPHY (722) GEOLOGY (726)

LIBERAL ARTS FOUNDATION COURSES

722702 World Populations and Resources 3 credits
An analysis of the elements of the earth’s human populations and their resource ba-
eses and related problems.

726701 Basic Concepts in Geology 3 credits
Covers the important aspects of both physical and historical geology. Laboratory
studies will stress the recognition of the common rocks, minerals and fossils with an
emphasis on those found in Wisconsin. Two or three field trips will be conducted for
field studies. Open to all students who have not had 726100, 726202, 726204 or their
equivalents in other institutions.
### SPECIALIZED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>722520</td>
<td>Meteorology and Climate</td>
<td>3</td>
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<tr>
<td></td>
<td>A study of the atmosphere with emphasis on the</td>
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<td>principles that govern the functioning of the</td>
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<td></td>
<td>&quot;air machine,&quot; techniques of analysis applicable</td>
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<td></td>
<td>to mid-American weather, and a summary of world</td>
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<td></td>
<td>climate patterns. Prereq: 722111 or equivalent.</td>
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<tr>
<td>722523</td>
<td>Water Resources</td>
<td>3</td>
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<tr>
<td></td>
<td>Following a treatment of the character,</td>
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<td>process-involvement, and distribution of water,</td>
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<td></td>
<td>the significance of water as a resource in a</td>
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<td></td>
<td>modern society will be considered. The course</td>
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<td>will be culminated by an evaluation of the</td>
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<td>development-management, use, and conservation of</td>
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<td>water within the contexts of the hydrologic</td>
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<td></td>
<td>cycle and watershed. Field trips are normally</td>
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<td></td>
<td>taken.</td>
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<tr>
<td>722535</td>
<td>Agricultural Geography</td>
<td>3</td>
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<tr>
<td></td>
<td>An analysis of the different kinds of agricultural</td>
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<td></td>
<td>activity practiced from area to area on the</td>
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<td></td>
<td>earth. Attention will be given to the problems</td>
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<td>now facing mankind of increasing production and</td>
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<td></td>
<td>improving the distribution of agricultural</td>
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<td>goods to meet the needs of the earth's growing</td>
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<td>human population. Field trips are normally</td>
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<td></td>
<td>taken.</td>
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<tr>
<td>722536</td>
<td>Rural Settlements</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Understanding of forms, structures, and</td>
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<td></td>
<td>distribution of rural settlements in distinctive</td>
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<td></td>
<td>parts of the earth according to their origin,</td>
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<td>function, and development. Special emphasis is</td>
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<td></td>
<td>given in analyzing the rural settlements of</td>
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<td></td>
<td>southeastern Wisconsin through a number of field</td>
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<td></td>
<td>studies. Field trips are normally taken. Prereq:</td>
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<td></td>
<td>722230 or consent of instructor.</td>
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<tr>
<td>722537</td>
<td>Recreation Regions and Systems</td>
<td>3</td>
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<tr>
<td></td>
<td>Initial segments of the course focus upon an</td>
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<td></td>
<td>evaluation of spatial elements of the</td>
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<td>recreation phenomenon and the development of</td>
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<td>recreation areas for the expression purpose of</td>
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<td>providing a background for subsequent analysis</td>
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<td>of existing recreation plans and formulation of</td>
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<td>a conceptual framework for the development of</td>
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<td>future recreation regions. Field trips are</td>
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<td>normally taken.</td>
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<tr>
<td>722546</td>
<td>Transportation Analysis and Planning</td>
<td>3</td>
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<tr>
<td></td>
<td>The analysis of the spatial organization of</td>
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<td>modern transportation systems. Particular</td>
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<td>attention will be given to transportation</td>
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<td>networks and the impact of transportation on</td>
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<td>land use, land values, and the environment.</td>
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<td></td>
<td>Field trips are normally taken.</td>
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<tr>
<td>722550</td>
<td>Regional Analysis and Planning</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>A geographical analysis of the physical and</td>
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<td></td>
<td>cultural phenomena found on the surface of the</td>
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<td>earth which give shape and structure to regions,</td>
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<td></td>
<td>and to present the role of regional planning as</td>
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<td>a medium of land-use determination. Field trips</td>
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<td>are normally taken.</td>
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<tr>
<td>722552</td>
<td>Conservation</td>
<td>2-3</td>
</tr>
<tr>
<td></td>
<td>A study of conservation methods being used today</td>
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<td>and the needs of the future in light of the</td>
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<td></td>
<td>rapidly diminishing natural resources.</td>
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<tr>
<td>722570</td>
<td>Quantitative Techniques in Geography</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>An introduction to the quantitative techniques</td>
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<td></td>
<td>for geographic analysis of the earth's spatial</td>
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<td></td>
<td>elements. Prereq: 722210 and 722230, 722141 or</td>
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<td>its equivalent.</td>
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<tr>
<td>722610</td>
<td>Physiography of North America</td>
<td>3</td>
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<tr>
<td></td>
<td>A study of the structure, development and</td>
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<td></td>
<td>interpretation of the landforms in each of the</td>
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<td></td>
<td>physiographic regions of the United States,</td>
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<td>Canada and Mexico.</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>722643</td>
<td>Ocean Resources</td>
<td>3</td>
</tr>
<tr>
<td>722644</td>
<td>Urban Land Use Planning</td>
<td>3</td>
</tr>
<tr>
<td>722651</td>
<td>World Problems in Political Geography</td>
<td>3</td>
</tr>
<tr>
<td>722675</td>
<td>Air Photo Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>722690</td>
<td>Workshop</td>
<td>variable</td>
</tr>
<tr>
<td>722700</td>
<td>Individual Studies</td>
<td>1-2</td>
</tr>
<tr>
<td>722754</td>
<td>Advanced Cartography</td>
<td>3</td>
</tr>
<tr>
<td>722761</td>
<td>Geography of Anglo America</td>
<td>3</td>
</tr>
<tr>
<td>722762</td>
<td>Geography of Western Europe</td>
<td>3</td>
</tr>
<tr>
<td>722763</td>
<td>Geography of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>722764</td>
<td>Geography of East and South Asia</td>
<td>3</td>
</tr>
<tr>
<td>722766</td>
<td>Geography of Sub-Saharan Africa</td>
<td>3</td>
</tr>
<tr>
<td>722767</td>
<td>Australia and Oceania</td>
<td>3</td>
</tr>
</tbody>
</table>
ment of the islands and their inhabitants are considered in relation to the rest of the world.

722768 Geography of the Soviet Union 3 credits
A study of Soviet Northwest and the Volga, the Ukraine, the Urals, Transcaucasus area, Central Asia and Soviet Siberia.

722769 Southwest Asia and North Africa 3 credits
A study of the arid landscape, the historic role of water in the disposition and movement of people, and the modern world dependence on this area's petroleum resource for technological survival. The significance of this area as the place of origin and historic homeland of the earth's monotheistic religions is also emphasized.

722790 History and Nature of Geography 3 credits
A combination lecture and seminar course about the development of geographic thought. The course will include the compilation of biographies of noted geographers.

722795 Population Geography 3 credits
A study of the patterns of the world population in relation to physical and cultural phenomena, and treatment of dynamics and composition of populations are related to their support bases.

722797-I Institute variable credit
722798 Workshop variable credit
See page 58 for workshop course description.

722799 Thesis 1 - 6 credits

HISTORY (740)

LIBERAL ARTS FOUNDATION COURSE

The liberal arts foundation course listed below is not to be enrolled in by those in the history emphasis.

740702 Great Issues in Western History 3 credits
Discussion of selected issues in European and American history based on a study of the sources. Open to experienced elementary and secondary school teachers who have met the introductory lower division course requirements in history and social studies for their bachelor's degree program and who have not had similar work.

SPECIALIZED COURSES

740505 Industrial America 1877-1919 3 credits
A study of the United States from the Compromise of 1877 through World War I, emphasizing the origins, growth and problems of, and response to, industrialism and new trends in American foreign policy.

740506 America in Prosperity, Depression and World War II: 1919-1945 3 credits
An analysis of the political, economic, and social trends in the United States during prosperity and depression, and American participation in World War II.

740507 Recent America, 1945 to the Present 3 credits
A study of the continuance of Progressive domestic legislation—political, social and economic—and the response of the American people to the responsibilities of world leadership.
740525 Women in the Western World  3 credits
A study of the historical position of women in western civilization from classical antiquity through the nineteenth century in the reality of everyday experience and in the context of philosophic, moral, literary, and legal evidence and/or commentary.

740526 History of Contemporary Women from 1800  3 credits
A comparative historical study of the role of women in representative societies of the modern world—the United States, Scandinavia, Soviet Russia, China, Britain and the Commonwealth—in the reality of everyday experience and in the context of philosophic, economic, social, aesthetic, legal, and political structures and commentary.

740571 History of Russia to 1815  3 credits
A survey of Russian history to 1815, emphasizing its relationship to major problems in European history.

740572 History of Russia since 1815  3 credits
A survey of Russian history in the nineteenth and twentieth centuries, emphasizing relationships to major European and world problems.

740580 The Holy Roman Empire  3 credits
A survey from the beginnings to the Congress of Vienna, emphasizing the development of German political and cultural traditions.

740581 Modern Germany  3 credits
A survey from the Congress of Vienna to the present, emphasizing the successive solutions to the question of German political organization.

740600 Diplomatic History of the United States to 1898  3 credits
A survey of American diplomatic history to 1898, stressing principles and practice, economic and political aspects and expansion.

740601 Diplomatic History of the United States since 1898  3 credits
A survey of American diplomatic history since 1898, emphasizing the United States as a great power, changing economic and political realities, American intervention in two world wars, and contemporary trends.

740602 Colonial and Trans-Appalachian Frontiers  3 credits
A study of the frontier processes of American migration from the Atlantic Seaboard to the Mississippi Valley with emphasis on the international rivalries and influences of the frontier.

740603 History of the American West  3 credits
A study of the exploration, acquisition and settlement of the Trans-Mississippi West with emphasis on regional problems in the settlement process.

740607 American Social History, 1941 to the Present  3 credits
A study of contemporary social institutions and movements and the effects of these on American life and values.

740610 History of Modern Middle East  3 credits
A survey of modern and contemporary history of the Middle East, emphasizing its internal structures, institutions and interests.

740620 The History of Black America  3 credits
A history of the Afro-American from his African beginnings to the present. Emphasis is given to the development of white and black racial attitudes, the development of slavery, the growth of Afro-American institutions and race organizations, the black in
American politics, Afro-American intellectual life, Afro-American economic life, and black culture.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>740624</td>
<td><strong>American Indian History</strong></td>
<td>3 credits</td>
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<tr>
<td></td>
<td>A study of the role of the American Indian in United States history with special emphasis on red-white relations, United States government policies, Plains Indian culture and the problems of Indians in American society.</td>
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<tr>
<td>740632</td>
<td><strong>Banditry, Rebellion and Revolution in Modern China</strong></td>
<td>3 credits</td>
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<tr>
<td></td>
<td>An examination of violent socio-political upheavals in China beginning with the White Lotus Rebellion and culminating with the Communist Revolution.</td>
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<tr>
<td>740633</td>
<td><strong>Twentieth Century Japan</strong></td>
<td>3 credits</td>
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<tr>
<td></td>
<td>A discussion of Japan’s emergence into the modern world centering on the Japanese transformation from a secluded feudal nation to a powerful industrialized state.</td>
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<tr>
<td>740651</td>
<td><strong>Ancient Civilization</strong></td>
<td>3 credits</td>
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<tr>
<td></td>
<td>A study of the civilization of the Ancient Near East, of Greece, and of Rome.</td>
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<tr>
<td>740652</td>
<td><strong>Medieval Civilization</strong></td>
<td>3 credits</td>
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<tr>
<td></td>
<td>A survey of basic political, socio-economic, cultural and religious trends in European history from A.D. 300 to 1500.</td>
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<tr>
<td>740653</td>
<td><strong>The French Revolution and Napoleon</strong></td>
<td>3 credits</td>
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<td></td>
<td>A study of the Revolutionary and Napoleonic periods of French history (1788-1815), and the relation of the developments of those periods in Europe to modern political and constitutional concepts and institutions.</td>
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<tr>
<td>740654</td>
<td><strong>Problems in American History</strong></td>
<td>3 credits</td>
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<td></td>
<td>Consideration of topics in American history, emphasizing the changing and conflicting interpretations in historical writing.</td>
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<tr>
<td>740658</td>
<td><strong>Social and Cultural History of Europe to 1800</strong></td>
<td>3 credits</td>
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<tr>
<td></td>
<td>A study of the interaction of ideas and social and political institutions, with an emphasis on the Enlightenment and early romanticism.</td>
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<tr>
<td>740659</td>
<td><strong>Social and Cultural History of Europe since 1800</strong></td>
<td>3 credits</td>
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<tr>
<td></td>
<td>A study of the interaction of ideas and social and political institutions, with an emphasis on such topics as nationalism, socialism, anarchism and existentialism.</td>
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<tr>
<td>740660</td>
<td><strong>Twentieth Century Europe</strong></td>
<td>3 credits</td>
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<tr>
<td></td>
<td>A survey of the political, economic, social, and cultural history of Europe since about 1914.</td>
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<tr>
<td>740667</td>
<td><strong>Tudor and Stuart Britain 1471-1714</strong></td>
<td>3 credits</td>
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<td>A treatment of the period (1471-1714) covering the social, political, and religious developments and England’s relationship to the rest of Europe.</td>
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<tr>
<td>740690</td>
<td><strong>Workshop</strong></td>
<td>0-6 credits</td>
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<td>See page 64 for Workshop course description.</td>
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<tr>
<td>740696</td>
<td><strong>Special Studies</strong></td>
<td>1-3 credits</td>
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<td></td>
<td>Study of a selected historical topic not covered in regular course offerings. The topic will be announced prior to registration.</td>
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<tr>
<td>740700</td>
<td><strong>Individual Studies</strong></td>
<td>1-3 credits</td>
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<td></td>
<td>See page 58 for Individual Studies course description.</td>
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</tbody>
</table>
740705 Historiography and Historical Research
A study of selected historical writings with treatment of and practical experience in the techniques of historical research, writing, and critique adapted to the individual preparation of the students.

740707 Recent American History
The economic, political and social development of the twentieth century.

740720 American Intellectual and Cultural History
A study of American intellectual life from the colonial period to the present in relation to political, economic and social development.

740751 Greek Civilization
A brief historical account of the growth of Greek civilization, with more intensive coverage of the Greek achievement in political practice and theory, economic life, religion, drama, philosophy, and the arts.

740752 Roman Civilization
A brief survey of the course of Roman history with special attention given to the Roman achievement in government, administration, law, engineering, religion, and the arts.

740755 The Renaissance
Renaissance historiography. Economic, social, political, and religious foundations of the Italian and North European cultural achievement, c. 1300—c. 1550.

740756 The Reformation
A study of the religious reform movements of the sixteenth century in their political, economic, social, and intellectual context. Includes the Catholic Reformation.

740759 Pro-Seminar in Far Eastern History
Study of the natures of traditional East Asian governments and economics at the beginning of the nineteenth century, and analysis of changes in the past 150 years with special emphasis on the resistance of native “autocratic traditions,” and the conditions under which Western technology, institutions and ideas are fitted into the native economic, political and social configurations.

740760 Pro-Seminar in American Colonial History
An interpretative study of the major developments in American colonial history, focusing particular attention on conflicting viewpoints and placing special emphasis upon the foundational, political, economic, social and cultural institutions and ideologies of the United States.

740770 Pro-Seminar in Mid-nineteenth Century American History
A study of the United States from the Mexican War through the Civil War and Reconstruction. Emphasis will be placed on the mastery of important secondary sources and the development of the technical skills and scholarly judgment necessary for effective historical writing and criticism.

740772 Russia and the Near East in Modern Times
A study, using pro-seminar methods, of the importance of Russia and the Near East in modern times with special reference to such problems as political, social and economic development; influence upon western civilization and culture; periods of expansion and conquest, religious, aesthetic and philosophic contributions and history, governmental and constitutional development.
Studies in Tudor English History 1485-1603
Analytical studies in the provenance and development of English, constitutional, political, economic and ecclesiastical constitutions from 1485 to 1603, with emphasis on research methods and the writing of history.

Seminar in Twentieth Century America
Concentration on specific studies within selected areas of the twentieth century. An evaluation of historical evidence will be stressed and conflicting interpretations of events will be evaluated. In alternate years different phases of the course will be emphasized.

Workshop
See page 58 for Workshop course description.

Thesis
See page 59 for Thesis course description.

MATHEMATICS (760)
LIBERAL ARTS FOUNDATION COURSE
The liberal arts foundation course listed below is not to be enrolled in by those in the mathematics emphasis.

Fundamental Concepts of Mathematics
Designed to acquaint the student with some of the basic concepts and structures of mathematics, ideas of modern mathematics, elementary logic, comparison of classic and modern geometry and development of the basic number systems are considered. Open to experienced elementary and secondary school teachers who have had high school mathematics and who are not specializing in mathematics.

SPECIALIZED COURSES
ALGEBRA

Matrices and Linear Algebra
Systems of linear equations, vector spaces, linear dependence, bases, dimension, linear mappings, matrices, determinants, quadratic forms, orthogonal reduction to diagonal form, eigenvalues, geometric applications. Prereq: 760254 or concurrent registration.

Modern Algebra and Number Theory for the Elementary Teacher
An introduction to modern algebra with special emphasis on the number systems and algorithms which underlie the mathematics curriculum of the elementary school. Topics include sets, rings, integral domains, rational numbers, complex numbers and polynomials. Students may not receive credit for both 760615 and 760652. Prereq: Consent of instructor.

Theory of Numbers
A study of the properties of integers, properties of primes, arithmetic functions, modulo arithmetic. Diophantine equations and quadratic residues. Prereq: 760415/615, or 760452/652, or consent of instructor.

Algebraic Structure of the Number Systems
An introduction to abstract algebra with emphasis on the development and study of the number systems of integers, integers mod n, rationals, reals, and complexes. These offer examples of and motivation for the algebraic structures of ring, integral domain, field, polynomial ring, ideal and quotient ring. (Note: Students may not re-
ceive credit for both 760415/615 and 760452/652.) Prereq: 760355/760555 or 760255.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>760653</td>
<td>Modern Algebra I</td>
<td>3</td>
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<td></td>
<td>Topics from linear algebra and an introduction to the theory of groups. Vector spaces, linear transformations, Jordan canonical form, definition and examples of groups, normal subgroups, quotient groups, homomorphisms, permutation groups, and Sylow’s theorem. Prereq: 760355/760555 or 760255.</td>
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<tr>
<td>760654</td>
<td>Modern Algebra II</td>
<td>3</td>
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<tr>
<td></td>
<td>Continuation of 760653. Rings, integral domains and fields motivated by examples of numbers, polynomials, and matrices. Homomorphisms, ideals, quotient rings, unique factorization, field extensions, and further topics from groups or rings. Prereq: 760453/653 or consent of instructor.</td>
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<tr>
<td>760753</td>
<td>Abstract Algebra I</td>
<td>3</td>
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<td></td>
<td>Selected topics from the theory of groups, rings, and vector spaces, leading to a detailed study of fields and polynomials. Algebraic background for some classical rules and compass constructions and solution of equations by radicals. Prereq: A course in modern algebra.</td>
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<tr>
<td>760754</td>
<td>Abstract Algebra II</td>
<td>3</td>
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<tr>
<td></td>
<td>Continuation of 760753. The structure of groups, rings, and modules, and an introduction to homology theory. Prereq: 760753 or consent of instructor.</td>
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GEOMETRY

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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>760616</td>
<td>Geometry for the Elementary Teacher</td>
<td>3</td>
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<tr>
<td></td>
<td>A study of the intuitive, informal geometry of sets of points in space. Topics include non-metric geometry, elementary constructions, measurement, coordinates and graphs. Prereq: Consent of instructor.</td>
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<tr>
<td>760776</td>
<td>Higher Geometry I</td>
<td>3</td>
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<td></td>
<td>A survey course in geometry from the standpoint of transformations and invariants with consideration of topics related to current high school geometry. Euclidean and non-Euclidean geometry; affine and projective geometries. Prereq: An undergraduate course in geometry.</td>
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<tr>
<td>760777</td>
<td>Higher Geometry II</td>
<td>3</td>
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ANALYSIS

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>760562</td>
<td>Vector Analysis</td>
<td>3</td>
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<td>Development of the fundamental operations of vector algebra; gradient, divergence and curl operators; Gauss and Stokes theorems; general coordinates; with applications to the special types of fields found in physics. Prereq: 760255 and 760355.</td>
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<tr>
<td>760663</td>
<td>Functions of a Complex Variable I</td>
<td>3</td>
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<td></td>
<td>A study of the algebra of complex numbers and the calculus of the functions of a complex variable. Analytic functions, complex integrals, calculus of residues, conformal mapping and applications are thoroughly studied. Prereq: 760255.</td>
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</tbody>
</table>
760664 Advanced Calculus I
3 credits
A study of the real number system and functions of a real variable as exemplified in continuity, differentiation, sequences, series, etc. Prereq: 760255 and either 760355/555 or consent of instructor.

760665 Advanced Calculus II
3 credits
Continuation of 760664; a course in differential calculus of functions of several variables, multiple and the integrals, theorems of Green, Galuss and Stokes. Prereq: 760464/664.

760762 Functions of a Complex Variable II
3 credits
An introductory study of the complex numbers and analytic functions from the point of view of the secondary school mathematics teacher. Included are complex integrals, calculus of residues, conformal mapping, power series, polynomials and the fundamental theorem of algebra. Prereq: Undergraduate analysis or topology and consent of instructor.

760766 Functions of a Real Variable
3 credits
An introductory course designed to give the student a deeper understanding of the real numbers through a study of set theory, cardinal numbers, and Lebesgue measure and integration on the real line. Prereq: Undergraduate analysis or topology and consent of instructor.

TOPOLOGY

760631 Topology I
3 credits
Point set topology, topological spaces, mappings, connectedness, compactness, separation axioms, metric spaces, complete spaces, product spaces and function spaces. Prereq: 760255 or consent of instructor.

STATISTICS AND PROBABILITY

760641 Probability and Statistics
4 credits
Discrete and continuous random variables, mathematical expectation, discrete and continuous distributions sampling and estimation. Prereq: 760255 or consent of instructor.

760642 Mathematical Statistics
4 credits
Sampling distributions, confidence intervals, hypothesis testing, regression analysis and experimental design. Prereq: 760441/641 and 760355 or consent of instructor.

760744 Experimental Design
3 credits
A discussion of experimental designs such as the randomized block, latin square, and factorial designs, and the analysis of experimental results. Prereq: 760442/642 or consent of instructor.

APPLIED MATHEMATICS

760658 Applied Mathematics Analysis I
3 credits

760659 Applied Mathematical Analysis II
3 credits
Functions of several variables, partial differential equations, complex variable with applications. Prereq: 760458/658
760671 Numerical Analysis I 3 credits

760672 Numerical Analysis II 3 credits
Algorithmic approach to numerical analysis, methods of iteration, interpolation and approximation applied to numerical differentiation and integration, solutions of nonlinear systems and difference equations. Extensive use of digital computer equipment. Prereq: 760171 and 760255.

COMPUTER SCIENCE

765502 Computer Logic 3 credits
Review of set algebra including mappings and relations. Boolean algebra and propositional logic. Algebraic structures including semigroups and groups. Elements of the theory of directed and undirected graphs. Applications of these structures to various areas of computer science. Prereq: 760171 and 760243 or 760253.

765512 Computer Architecture 3 credits
A study of modern computer systems with emphasis in the areas of logical design and hardware structure. Topics include logical modules, arithmetic units, storage units, data routing, synchronous and asynchronous machines, I/O devices and comparative systems design of computers. Prereq: 760302/502 or consent of instructor.

765565 Linear Programming 3 credits

765571 Computational Models and Problem Solving 3 credits
A study of computer applications in a wide variety of fields including the biological, behavioral and physical sciences. Topics include simulation of random and non-random processes, and shortest path problems. Prereq: 760171 and 760253 or 760243.

765583 Artificial Intelligence 3 credits
A study of machine translation of languages, semantics, relevance and structure, storage of global information, the memory model and deductive question answering system. Prereq: 760342/542.

765601 Advanced Computer Programming 3 credits
Higher level languages such as PL/I, APL, BASIC, SNOBOL, and advanced features of FORTRAN will be studied. Emphasis will be on programming rather than theory for those languages which are available. Prerequisite: 760271 or consent of instructor.

765612 Computer Organization and System Programming 3 credits
A study of general computer system organization, zero, one, two and three address machines, macro generation, subroutine linkage, assembler, loader compiler and multiprogramming techniques. Assembly language is used extensively to write system programs. Prereq: 760271 or consent of instructor.

765622 Computer Application for Social and Behavior Sciences 3 credits
A study of algorithms and problems solving techniques using computer programming methods. FORTRAN IV AND PL/I will be studied in this course. Prereq: Consent of instructor.
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<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>765624</td>
<td>Operating Systems</td>
<td>3</td>
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</table>

A survey of operating systems including hardware devices, data communications, file handling, job scheduling, resource allocation and system design. Prereq: 760412/612 with 760342/542 strongly recommended.

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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>760575</td>
<td>Development of Mathematics</td>
<td>3</td>
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A study of the development of mathematical notation and ideas from prehistoric times to the present, with special emphasis being placed on elementary mathematics through the calculus. The development and historic background of the new math will be included. Prereq: Consent of instructor.

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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>760580</td>
<td>Patterns of Problem Solving</td>
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</table>

A course to prepare students to apply simultaneously various mathematical methods in solving problems, including those of an interdisciplinary nature. Examines the process of problem solving and the mathematical tools of logic and set theory, computers and probability. Models and modeling with a detailed study of several kinds of models. This course does not apply toward a mathematics major or minor or a computer science minor. Prereq: One math course beyond 760141 or consent of instructor.

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<tr>
<td>760585</td>
<td>Foundations of Mathematics</td>
<td>3</td>
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</table>

A rigorous examination of methods and ideas underlying modern mathematics. Topics include logic and the language of mathematics; a brief history of mathematics; the axiomatics method; set theory; open, closed and connected sets; relations and functions; countability; the continuum hypothesis. Prereq: 760254 or consent of instructor.

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<th>Course Code</th>
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<tr>
<td>760690</td>
<td>Workshop</td>
<td>variable credit</td>
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See page 64 for Workshop course description.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>760694</td>
<td>Seminar</td>
<td>2</td>
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</table>

A study of selected topics supplementary to the usual curriculum and useful for further work in mathematics. Prereq: Consent of instructor.

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<th>Course Code</th>
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<th>Credits</th>
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<tr>
<td>760696</td>
<td>Special Studies</td>
<td>1-3</td>
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</table>

A course which is not regularly in the curriculum but which is offered when there is enough interest in some special topic of mathematics. Prereq: Consent of the instructor.

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<th>Course Code</th>
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<td>760700</td>
<td>Individual Studies</td>
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</table>

See page 58 for Individual Studies course description.

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<tr>
<th>Course Code</th>
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<tr>
<td>760701</td>
<td>The Modern School Mathematics Curriculum</td>
<td>3</td>
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</table>

A survey of selected school mathematics curriculum development projects, topics in comparative mathematics education and selected topics in on-going research in mathematics education. Prereq: Consent of instructor.

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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>760797-I</td>
<td>Institute</td>
<td>variable credit</td>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>760798</td>
<td>Workshop</td>
<td>variable credit</td>
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</table>

See page 58 for Workshop course description.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>760799</td>
<td>Thesis Research</td>
<td>1-6</td>
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</tbody>
</table>

See page 59 for Thesis course description.
PHILOSOPHY (782)

782690 Workshop
See page 64 Workshop course description.

782701 Great Issues in Western Philosophy 3 credits
A study of major philosophical works and problems from ancient to contemporary times. These works will be used to probe basic and relevant issues such as the nature and methods of knowing, thinking, proving arguments, and deciding.

PHYSICS (800) AND ASTRONOMY (805)

PHYSICS (800)

LIBERAL ARTS FOUNDATION COURSE

The liberal arts foundation course listed below is not to be enrolled in by those in the physics emphasis.

800702 Physical Science 3 credits
An in-depth examination of certain developments in physical science principles and their impact on man's thought and way of life. Open to experienced elementary and secondary school teachers who have had an introductory course in physical science.

SPECIALIZED COURSES

800560 Solar Energy Applications 3 credits
A survey course on solar energy applications covering biomass utilization, home heating and cooling systems, hot water systems, solar cells, electric power generation, ocean thermal systems, space satellite systems and wind use. Emphasis will be on home heating systems for Wisconsin. The course will not count toward a physics major or minor. Three one-hour lectures per week. Prereq: Consent of instructor.

800600 History and Philosophy of Physics 3 credits
A consideration of major developments in the history of physics with special emphasis on the philosophic content of the concepts spearheading these developments. Movements analyzed will be the Newtonian synthesis and mathematical astronomy, the particular nature of matter, the theory of relativity, modern physics and its ascent into quantum theory. Three one-hour lectures per week. Prereq: One year of general physics or consent of instructor.

800610 Modern Physics I 3 credits
A study of twentieth century physics. Topics covered include relativity, elementary quantum physics, atomic structure, elementary nuclear physics and fundamental particles. Three one-hour lectures per week. Prereq: 800174, 800175 or 800162, 800163 and 760254.

800611 Modern Physics Laboratory I 1 credit
A laboratory course in modern physics. The experiments performed in this course complement the lectures of Modern Physics I. It is recommended that this course be taken concurrently with Modern Physics I. One two-hour laboratory per week. Prereq: 800410 or concurrent registration or consent of instructor.

800612 Modern Physics II 3 credits
A continuation of Modern Physics I. Topics covered include statistical mechanics, atomic and molecular spectra, x-ray spectra, physics of the solid state and nuclear physics. Three one-hour lectures per week. Prereq: 800410.
800613 Modern Physics Laboratory II
A laboratory course in modern physics. The experiments performed in this course complement the lectures of Modern Physics II. It is recommended that this course be taken concurrently with Modern Physics II. One two-hour laboratory per week. Prereq: 800412 or concurrent registration or consent of instructor.

800690 Workshop
See page 64 for Workshop course description.

800696 Special Studies
A study of special topics in physics for students of senior or graduate standing. Prereq: Consent of the instructor.

800700 Individual Studies
See page 58 for Individual Studies course description.

800797 Institute
variable credit

800798 Workshop
See page 58 for Workshop course description.

ASTRONOMY (805)

805550 Astrophotography for the Amateur
This course is designed for those interested in combining astronomy and photography through the medium of telescope and camera. The course is activity-oriented and will provide an opportunity to learn photography and the techniques necessary to develop color slides and black and white and color prints of astronomical objects. This course will not count toward a physics major or minor. One two-hour lecture and one two-hour laboratory per week. Prereq: Consent of instructor.

805630 Astronomy for Teachers
An individualized course intended for teachers with limited astronomy background. Subject matter covered will depend on the needs and interests of the student. Each student does an experimental or observational project which is presented at the end of the course as a paper in a seminar. May not count toward physics major or minor. Prereq: Enrollment in this course is limited to those persons teaching at the K-12 grade levels or consent of the instructor.

805690 Astronomy Workshop
A course designed to provide specialized intensive work in selected areas of astronomy, i.e., astrophotography, curriculum, etc. Such workshops will be offered as summer programs, night programs or Saturday programs.

805700 Independent Study
A study carried on in an area or on a topic of special interest in astronomy for a variable number of credits (1-3) under the sponsorship of an interested instructor. Includes tutorial work in laboratory and self-paced sections.

POLITICAL SCIENCE (820)

LIBERAL ARTS FOUNDATION COURSE

The liberal arts foundation course listed below is not to be enrolled in by those in the political science emphasis.
SCHOOL OF GRADUATE STUDIES

820701 Foundations of Politics
A general introduction to the science of politics in all its aspects. The course is concerned with American and European politics as well as international problems.

SPECIALIZED COURSES

820510 Origins of Western Political Thought
An examination of early Western political thought with an emphasis upon the ideas of Plato and Aristotle, but also including the Romans, the Church fathers, and others up to the time of Machiavelli. Prereq: Any political science course designated for general studies curriculum.

820517 The American Legislative Process
The study of the organization and functioning of legislative bodies, with particular attention to Congress: Functions, membership, committee system, executive-legislative relations, pressure groups, lobbying, and movements for reform.

820518 The American Presidency
A study of the American Presidency which stresses the nature and extent of Presidential power in the American political system in light of the theory and practice of separation of powers.

820530 Public Policy Analysis
A systematic introduction to the study of public policy issues through a public policy/issue analysis and problem solving approach. It will also examine and explore other analytical models and approaches in the study of public problems and policy issues. Prereq: 820241.

820544 State and Local Government
A study of modern American state and local governments, their evolution from colonial beginnings, their problems, and their potential. Topics include constitutional revision, the role of governors, legislatures, and courts, forms of urban and rural government, and state-local relations.

820546 Politics in Wisconsin
A study of government and politics in Wisconsin. Policy formation and administration at both the state and local levels will be considered with attention to the main branches of government, political parties, interest groups, functions and services.

820557 Public Opinion and Political Behavior
An examination of public opinion in the United States as it concerns political and social behavior. Major topics are the acquisition of beliefs, leadership and opinion formation, voting behavior, and propaganda. Graduate requirements: In addition to meeting the regular requirements of the course, graduate students will be expected to complete a comprehensive research project using survey research methods. Prereq: Any Political Science course designated for general studies curriculum.

820560 Resources for Legal Research
A course to acquaint students with the major resource materials for the study of law and the legal process with a heavy emphasis on library assignments utilizing the various resources.

820580 Women and Politics
This course is designed to acquaint the student with the roles of women in political life. Topics include effective civic participation, women’s issues and the women’s movement. Prereq: Normal political science prerequisite for upper division course.
820611 Modern Political Thought
An introduction to the principal political concepts and ideas of the modern period, including the writing of Machiavelli, Luther, Calvin, Locke, Hobbes, Rousseau, Hegel, Burke and others.

3 credits

820612 Contemporary Political Thought
A study in depth of certain selected topics of contemporary importance, such as the resolution of power conflicts, the theory and practice of non-violence and the existentialist dilemma.

3 credits

820613 Constitutional Law
A study of judicial review, its meaning and nature. The development of constitutional relationships between the national government and the states as well as between the branches of the national government is considered.

3 credits

820614 The Constitution and Civil Liberties
A course focusing on the constitutional development of the rights of individuals and the limitations upon the powers of government, both state and national.

3 credits

820615 Criminal Justice and the Constitution
This course examines the role of the major participants in the criminal justice system—defendants, police, prosecutions, courts, and corrections—and the development of constitutional law regulating their behavior.

3 credits

820619 The Judicial Process
A study of the American judicial system as a part of the larger framework of the political, social and economic systems of the nation. Emphasis will be on topics such as the judicial role, judicial organization and jurisdiction, judicial power and the decisional process rather than legal cases.

3 credits

820620 American Political Thought
A study of the fundamental political ideas of America and the political philosophers who espoused them from colonial times to the present. Prereq: Political Science 820241, or consent of instructor.

3 credits

820621 Public Personnel Administration
A critical study of problems of public personnel, with particular emphasis on the process of recruiting and managing people in the public services.

3 credits

820640 The Politics of Government Budgeting
A course designed to introduce the students to the study of criteria for what services or functions should be undertaken by government and in what amounts. Analyzing the effects that government spending and taxes have on the behavior of the private sector of the economy and on the political system, and evaluating the problems and solutions for allocating tax burden equitably among different groups in the society. Prereq: Political Science 820241.

3 credits

820646 Politics of the Metropolis
A treatment of social, economic, and political forms, structures, processes, and behavior in metropolitan communities. Ideas concerning the power structure and decision-making process, the role of the citizen, and the complex whole of metropolitan life will be discussed.

3 credits

820651 Political Parties
A study of the origin, development and contemporary functioning of political parties in the United States; the analysis of elections, and voting behavior and interest groups.

3 credits
820653  Government and Politics of the Communist World  3 credits
A comparative study of the Communist political systems with emphasis on the advent
of Communist rule, the role of the party, the nature of leadership, the function of
ideology and the process of policy making.

820657  American Foreign Policy  3 credits
An analysis of the forces and institutions involved in the establishment of American
foreign policies. Emphasis is placed on the effect of the growth of American power
and responsibility on the development of foreign policies.

820660  Government and Politics of Asia  3 credits
A comparative study of the political structures, institutions and processes of the na-
tions of Asia.

820662  Social Welfare Policy  3 credits
Provides students with the analysis and critical understanding of the policy issues
surrounding historical and current social welfare programs, of new social welfare is-
suces and of policy decisions that lead to changes in programming. Community or-
ganization, as an intervention approach, will be explored. Prereq: Standard prerequi-
site for upper division courses in Political Science.

820670  Current Term of the Supreme Court  1 credit
A course devoted to the discussion and analysis of decisions of the current term of
the Supreme Court.

820690  Workshop  variable credit
See page 64 for Workshop course description.

820692  Internship in Political Science  1-12 credits
Study and work with a government unit or in some area of public affairs under the
direction of a faculty supervisor. Students will have the opportunity to combine
academic learning with practical experience in government and politics. Students
may earn a maximum of 12 credits.

820694  Seminar in Public Administration  3 credits
A study of the complex aspects of administrative organization, behavior and decision
making in the area of public policy through the examination of a variety of pertinent
cases.

820696  Special Studies  variable credit

820700  Individual Studies  1-3 credits
See page 58 for Individual Studies course description.

820711  Scope and Methods of Political Science  3 credits
Analysis and evaluation of research methods, techniques and material in political
science.

820715  Major Concepts in Political Theory  3 credits
Concentrates on the scientific approach to theory building and examines in detail
such concepts as values, system, progress (development), groups, power and self-
interest. The logic and genesis of these concepts will be discussed along with the
applications and limitations of the models based on them.

820720  Comparative Public Administration  3 credits
A study of the role of public administration in diverse cultures and national settings,
with a particular emphasis on the impact of bureaucratic organization, personnel,
administrative control and the decision-making process on the formulation and execution of public policy.

820751 Comparative Political Parties 3 credits
A systematic and analytical study of modern political parties and party systems around the world with the purpose of gaining greater understanding of their organization, membership, leadership, functions, methods operation and bases of electoral support.

820756 International Organization 3 credits
Designed to acquaint the student with the objectives of international organizations for maintaining international peace and security. Three aspects are considered: Peaceful settlement of disputes, regulation of armament and enforcement measures.

820757 Seminar in Foreign Policy 3 credits
An intensive study of the machinery and conduct of foreign policies.

820760 Comparative Politics 3 credits
An advanced course that examines approaches and methods in comparative analysis, types of political systems and topics of comparison.

820767 Seminar in Developing Nations 3 credits
An intensive study of concepts and theories related to the problems of developing states.

820798 Workshop
See page 58 for Workshop course description.

820799 Thesis
See page 59 for Thesis course description.

variable credit

1-6 credits

PSYCHOLOGY (840)

LIBERAL ARTS FOUNDATION COURSE

The liberal arts foundation course listed below is not to be enrolled in by psychology majors.

840741 Individual Differences 3 credits
A presentation of psychological research findings regarding race, sex, age and social class difference in terms of intelligence, school achievement, personality and other measure dimensions of human behavior and abilities.

GENERAL PSYCHOLOGY COURSES

840500 Professional Ethics in Behavioral Sciences 1 credit
Presentation of ethical principles, guidelines, and problems in the behavioral sciences with illustrative cases and procedures for preventing ethical violations.

840545 Behavior Disorders 3 credits
A study of behavior pathology with particular consideration of the inception, development, and maintenance of inappropriate modes of behavior, especially those classified as psychoneurotic, psychotic and charactological disorders.

840608 Community Psychology 3 credits
An introduction to community psychology presents some of the basic concepts, problems, and techniques which currently describe the field. Topics include developmental processes, conceptual models, understanding the community, methodology, and training programs of community psychology. Prereq: Graduate standing.
840624  **Human Learning**  3 credits
Emphasis on the variables affecting the acquisition of verbal processes and concepts. The role of organizational factors is stressed. Classical S-R and mediational paradigms are evaluated in relation to transfer effects. Methods in assessing long term and short term extension as well as theory concerning these processes are described. Prereq: 840217 or 840303 or equivalent with consent of instructor.

840625  **Studies in Creativity and Giftedness**  3 credits
480625 A survey of the definitions and measures of creativity and intellectual pursuits, extraordinary products, and an examination of the genetic, environmental and social factors that develop and maintain gifted humans.

840630  **Studies in Infancy and Early Childhood**  3 credits
Discussion and critical evaluation of the current information concerning the emotional, social, and intellectual variables which affect the pre-school child. Prereq: 840331 or equivalent course.

840635  **Maturity and Old Age**  3 credits
A review and analysis of the various types of adjustment associated with changes in physical, social, and psychological conditions as a person reaches the later adult years.

840646  **Introduction to Clinical Psychology**  3 credits
A survey course designed to acquaint the student with the types of behavior, personality problems with which the clinical psychologist deals, the use of diagnostic methods including projective techniques, and provides an orientation to the various methods of psychotherapy. Prereq: 840304 or 840345, or consent of instructor.

840651  **Interpersonal Relations and Social Interactions**  3 credits
Theory, research and exercises in interpersonal perception, communication, motivation, leadership and problem-solving within groups.

840685  **Interview and Psychotherapy Techniques with Older Clients**  3 credits
A systematic approach to the interview relationship utilized by the therapist in working with older persons. A review of the effects of methods of therapy upon improvement of communication, socialization, and general mental health of the elderly.

840686  **Interview and Psychotherapy Techniques**  3 credits
A review of the literature on interview techniques as a method of assessment and as a method of helping. Students will observe and discuss demonstrations conducted by faculty members. In addition, students will conduct, role-play, tape, and analyze interviews themselves. Prereq: 840304 or 840345 or consent of instructor. Formerly 88786.

840689  **Family Therapy**  3 credits
Concepts, theories, and research in family therapy will be reviewed. Students will role play family problems and treatment skills. This course in no way qualifies a student to practice family therapy, for which an internship and/or clinical placement, and graduate degree are necessary. Prereq: 840345 or permission of instructor.

840690  **Workshop**  variable credit
See page 64 for Workshop course description.

840691  **History and Systems of Psychology**  3 credits
An overview of major psychological theories and theoretical issues, with historical perspective. Designed to assist the advanced student in organizing and integrating his knowledge of factual content in psychology and to complete a strong foundation
for graduate study. Lectures, discussion, oral reports, term papers. Prereq: 9 credits in psychology.

840694 Seminar in Social Behavior 3 credits
Designed to inquire in depth into the substance and applications of social psychology through focusing on such topics as international behavior causes and effects of racism, the social psychology of political behavior, etc. Issues focused on will vary from semester to semester. Prereq: 840355 and 880355.

840696 Special Studies variable credit
A seminar in which students and staff members study and discuss contemporary problems in areas of psychology determined by mutual interest. May be repeated with permission of department. Prereq: 12 psychology credits or consent of the instructor.

840700 Individual Studies 1-3 credits
See page 58 for Individual Studies course description.

840711 Pro-Seminar Psychology as a Social Science 3 credits
An intensive review of psychology as a social science. Topics include psychometrics, learning, development, personality, social, abnormal, counseling, and clinical psychology. Sections of the course may be passed separately by prior examination. Prereq: Consent of department.

840731 Seminar in Child Psychology 3 credits
A review of historical trends and recent developments in theory and research and their relation to applied child psychology. Prereq: 840215 and 840331 or equivalencies with consent of instructor.

840732 Seminar in Adolescence 3 credits
Approaches to the study of adolescence, research methods, maturation, identity, problems of adjustment, evaluation and treatment. Prereq: 840215 or 840332 or equivalencies with consent of instructor.

840735 Differential Diagnosis of Developmental Disabilities 3 credits
Developmental study and assessment of pre-school and school-age children, with an emphasis on differential diagnosis of the multi-handicapped child. One hour of lecture and four hours of laboratory; two hours of the four of laboratory to be arranged by instructor and student. Class enrollment limit: 10. Prereq: 15 hours of psychology and consent of instructor.

840794 Theories of Personality 3 credits
A critical analysis of the major personality theories. Psychoanalytic, socially oriented and self-actualization theories will be covered. Prereq: 840304 or equivalent with consent of instructor.

840795 Theories of Psychotherapy 3 credits
An intensive study of the major principles and approaches to psychological theory. Designed as a foundation course in preparation for practicum training in psychological therapy. Prereq: 840746 or 840794 or consent of instructor.

840798b Workshop variable credit
See page 58 for Workshop course description.
## SPECIALIZED COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>840615</td>
<td>Research Design I</td>
<td>3</td>
<td>Includes a careful study of some of the more frequently used methods for evaluating research. The content will include a review of chi squares, t-tests and correlation. Trends, analysis, analysis of variance and covariance and other methods will be studied. Prereq: 840215 or equivalent with consent of instructor.</td>
</tr>
<tr>
<td>840637</td>
<td>Psychological Aspects of Death and Dying</td>
<td>3</td>
<td>A study of psychological phenomena associated with death and dying; including age changes in concepts about death, attitudes, dying factors, death system, and psychological intervention on death and dying. Prereq: 3 credits in psychology or consent of instructor.</td>
</tr>
<tr>
<td>840640</td>
<td>Psychological Tests and Measurements</td>
<td>3</td>
<td>A study of selected principles of psychological measurement with emphasis upon mental ability tests, nature of intelligence, the Stanford-Binet Intelligence Scale, the Wechsler Scales, tests for special purposes, certain selected group tests of mental ability, interest and personality, achievement, adaptive, and nondiscriminatory assessment. Prereq: 840215.</td>
</tr>
<tr>
<td>840644</td>
<td>Behavior Modification I</td>
<td>3</td>
<td>A survey of the concepts used in psychological programs using behavior modification approaches. Emphasis will be on observable academic and other problem behavior rather than hypothetical constructs. Prereq: 6 credits in psychology including 840217 or 840303, or equivalent with consent of instructor.</td>
</tr>
<tr>
<td>840645</td>
<td>Behavior Modification II</td>
<td>3</td>
<td>A practicum course which requires each student to work directly with children exhibiting a variety of problem behaviors. Each student will work with a minimum of one child, dealing with academic and behavioral problems in a school setting. Programs will be developed, implemented, and completed under the close supervision of the instructor. Class enrollment limit 10. Prereq: 840444/644 or consent of instructor.</td>
</tr>
<tr>
<td>840687</td>
<td>Graduate Field Experience and Community Mental Health</td>
<td>6-12</td>
<td>Practical experience in a community agency or institution providing community mental health services. Training and supervision of the students will be shared by members of the Psychology department and by qualified community mental health psychologists. Prereq: One year of course work in the graduate school psychology program.</td>
</tr>
<tr>
<td>840745</td>
<td>Individual Intelligence Testing</td>
<td>3</td>
<td>Nature of intelligence and basic characteristics of mental ability tests. An intensive study of the Stanford-Binet and Wechsler Scales with a particular emphasis on practice in administration, scoring, subtest groupings and analysis on the Stanford-Binet, functions and interpretations of Wechsler subtests, style and content of psychological report writing, and nondiscriminatory assessment. Prereq: 840615 and 840640; admission into School Psychology Program or consent of instructor.</td>
</tr>
<tr>
<td>840746</td>
<td>Psychopathology</td>
<td>3</td>
<td>Review and analysis of research literature and theory in the area of child and adolescent behavior deviation. Prereq: 840345/545 or equivalent with consent of instructor.</td>
</tr>
<tr>
<td>840786</td>
<td>Interview and Psychotherapy Techniques - Child</td>
<td>3</td>
<td>A review of theory and research in the area of children in school, with major emphasis on the therapeutic intervention and remediation skills applied in a school setting. Students will be managing actual cases in a school setting. They will be assigned</td>
</tr>
</tbody>
</table>
school cases so that they can develop individual and group procedures in child psychotherapy needed as a school psychologist. Their skills practice will be guided by the theories and models developed in class. Prereq: 840746 or concurrent enrollment in 840746, or consent of instructor.

840787 Interview and Psychotherapy Techniques - Adolescent 3 credits
A review of the theory and research in the area of adolescents in school, with the major emphasis on the therapeutic intervention and remediation skills applied in a school setting. Students will manage actual cases in a school setting. They will be assigned school cases so that they can develop the individual and group skills in adolescent psychotherapy needed as a school psychologist. Their skills practice will be guided by the theories and models developed in class. Prereq: 840746 or concurrent enrollment or consent of instructor.

840793 Assessment of Personality 3 credits
Objective, projective and subjective models of personality assessment are emphasized. A systems assessment approach that considers adaptive, visual-motor, cognitive, conative, social, and emotional components of personality are stressed. The individual case approach is utilized, and students receive supervised evaluation regarding application of assessment procedures. Nondiscriminatory theory and techniques necessary for assessment are reviewed. Prereq: 840745 or concurrent enrollment in 840745; admission to School Psychology program.

840797 Supervised Clinical Practicum I 6 credits
A two and one-half hour weekly seminar includes school psychological services involving the role, issues, ethics, laws and regulations pertaining to school psychology. Two days in a public school setting are required along with a minimum of one hour of supervision of the field placement experience. Prereq: 840745 and 840793; admission into School Psychology program.

88798a Supervised Clinical Practicum II 6 credits
The weekly seminar considers recent and innovative developments in school psychology, application of the consultant role in the form of an in-service program for school psychologists in the field, and other significant issues for a practicing school psychologist. Prereq: 840797 and admission into School Psychology program.

840799 Thesis Research 1-6 credits
Guided investigation of an approved thesis topic. Student may receive credit for research activities planned in conjunction with his adviser and leading to the completion of a master's degree.

RELIGIOUS STUDIES (786)

786552 Religious Dissent in America 3 credits
A study of significant directions of religious dissent in relation to mainstream of American religious Culture.

786690 Workshop 3 credits
See page 64 for workshop course description.

786711 World Religions 3 credits
The origins, beliefs, practices and development of six major world religions: Hinduism, Buddhism, Confucianism, Judaism, Christianity, and Islam.
PHILOSOPHY (782)

782690 Workshop
See page 64 Workshop course description.

782701 Great Issues in Western Philosophy 3 credits
A study of major philosophical works and problems from ancient to contemporary times. These works will be used to probe basic and relevant issues such as the nature and methods of knowing, thinking, proving arguments, and deciding.

SOCIAL WELFARE (860)

860510 Human Behavior and the Social Environment 3 credits
This course is designed to provide the student majoring in Social Welfare with an understanding of the normal processes of sequential physical, emotional, and socio-cultural development through the life span. It will provide the student with an orientation to professional practice to better recognize and understand common stresses and crises affecting normal development and maturity (e.g. child neglect/abuse, emotional disturbance, delinquency, alcoholism, divorce) as related to social work practice. Prereq: 860232.

860537 Social Service Concerns and the Older Person 3 credits
This course is designed to introduce the student to existing social services for the older person in the United States. It will provide information regarding social services provided to assist the older person, an analysis of gaps in current service as well as a consideration of alternative solutions and alternative social services. Graduate students will prepare a paper in addition to the undergraduate requirements.

860541 Sexuality for Professional Growth 3 credits
This comprehensive course is designed to add to students' knowledge and comfort in the area of human sexual behavior. Topics covered include family, religious, social and legal influences on sexual attitudes and behavior. Multi-media, lecture, and small group discussion techniques are used to explore issues. Students will learn basic skills useful in treating sex-related problems encountered in professional practice in areas such as developmental sexuality, sex education programming for children and youth, problem pregnancies, common sexual dysfunctions, and the psychology of sexual responses at all ages. Prereq: Social Welfare majors or graduate standing.

860546 Administration of Volunteer Programs 3 credits
This course is designed to provide students with the skills necessary to organize, establish, and run a volunteer program in a professional setting. The instruction includes development of skills in recruiting, training, and supervising volunteers as well as management skills in accountability, administration and volunteer recognition. Prereq: Consent of instructor.

860573 Methods II: Social Work with Individuals and Families 3 credits
An advanced social work methods course designed to teach students about social work with individuals and families. Therapeutic frameworks used in the treatment of individuals and families will be studied. Students will apply these frameworks to simulated counseling situations in class, and to their clients in field placement. Prereq: 860372 and 860492 or concurrently with 860492.

860662 Social Welfare Policy 3 credits
Provides students with the analysis and critical understanding of the policy issues surrounding historical and current social welfare programs, of new social welfare issues and of policy decisions that lead to changes in programming. Community or-
organization, as an intervention approach, will be explored. Prereq: 860310 and 860372 or the standard prerequisite for upper division courses in Political Science.

860682 Methods of Social Welfare Research 3 credits
Designed to familiarize the student with basic concepts of social work research methodology and to develop beginning skills in formulating a social work research proposal and carrying out a research project. Prereq: 860491 and a course in descriptive/inferential statistics (e.g., 840215, 760231, 230245).

860690 Workshop variable credit
See page 64 for Workshop course description.

860694 Seminar in Social Work Methods 3 credits
Examination of change strategies applicable to social work covering interviewing, diagnosis, various therapy approaches, social action, research and planning. Prereq: 860332-Social Welfare Methods or consent of instructor.

860696 Special Studies variable credit

860700 Individual Studies 1-3 credits
See page 58 for Individual Studies course description.

860798 Workshop variable credit
See page 58 for Workshop course description.

SOCIOLOGY (880)

LIBERAL ARTS FOUNDATION COURSE

The liberal arts foundation course listed below is not to be enrolled in by students in the sociology emphasis.

880711 American Social Institutions 3 credits
An analysis of the role, structure, and functions of American social institutions as frameworks for human interaction. Emphasis will be given to the relationship between institutional arrangements, class structure and individual action.

Courses identified with an asterisk (*) are courses specifically recommended to students in the Elementary Education and Reading programs. However, these courses offer significant background information for all public school teachers.

SPECIALIZED COURSES

880520 The Sociology of Retirement, Aging, and Death 3 credits
This course examines the emergency of old age as a "problem" in industrial societies. Topics considered include: aging in cross-cultural and historical perspective; social security and welfare systems devised to cope with the problems of the aging; retirement as a "role-less role;" old age institutions and lifestyles; death, dying, and bereavement; and the future of retirement, aging and death.

880525 White-collar Crime: Illegality in Business, Politics and the Professions 3 credits
The course is an introduction to the study of non-traditional crime. The emphasis is on an understanding of the social origins and role of such diverse phenomena as the Mafia and organized crime, price-fixing conspiracies, political bribery, corruption, and malpractice in the professions. Additional requirements for 880525: The reading of several additional books in the area of white-collar crime as well as an extensive research paper on some aspect of the course.
880554 The Construction of Social Consciousness and Society 3 credits
Acquaints the student with the development of the main currents of social thought, with the reciprocal influences of social thought and overt societal behavior systems.

880555 Social Psychology* 3 credits
An examination of the process and results of human interaction with an emphasis on attitudes and attitude change, society and personality, inter-group relations and processes of socialization.

880557 Public Opinion and Political Behavior 3 credits
An examination of public opinion in the United States as it concerns political and social behavior. Major topics are the acquisition of beliefs, leadership and opinion formation, voting behavior, and propaganda. In addition to meeting the regular requirements of the course, graduate students will be expected to complete a comprehensive research project using survey research methods.

880562 Population Dynamics* 3 credits
A study of the development of world population and the social significance of different population sizes and growth rates; emphasis on the social determinants of fertility, mortality, and migration.

880570 Juvenile Delinquency* 3 credits
A study of the incidence of delinquency, theories and findings regarding causation and the policies designed for treatment and prevention.

880580 Bureaucracy and Democracy 3 credits
An examination of the growth and role of organizations in society with specific attention to American society.

880651 Social Stratification and Social Inequality* 3 credits
An analysis of the causes, consequences, and remedies of inequalities in power, income, wealth, authority, ethnic and social status.

880655 Sociology of the Family* 3 credits
A sociological analysis of the family, its historical development in structure and in function. Attention given to aid the student to understand contemporary social aspects of the family in a changing social milieu.

880659 Sociology of Minorities 3 credits
A course to acquaint the student with the historical and contemporary sociology of minority groups. Attention given to social and individual aspects of minorities, including societal concepts regarding societal reaction to minorities.

880675 Contemporary Sociological Theory 3 credits
An advanced area approach to the study of contemporary sociological theory, giving emphasis to the major assumptions, concepts, propositions and methodology.

880676 Methods of Social Research 3 credits
To acquaint the student with research methods in sociology and social science; the foundation of sociology in science, the role of theory in research, construction of research design, sampling, data gathering techniques and analysis and interpretation of data.

880677 Data Collection and Analysis 3 credits
Student designed group research projects will be conducted concurrently with the presentation of related class lectures and reading material. Students are expected to work in four or five person groups to formulate a research problem, collect data and perform analysis under the close supervision of the instructor.
880690 Workshop
See page 64 for Workshop course description.

880696 Special Studies
variable credit

880700 Individual Studies
See page 58 for Individual Studies course description.
1-3 credits

880755 The Family in Cultural Perspective
3 credits
A cross-cultural analysis of the family, with emphasis on change, development and theoretical considerations as related to our own society. (Students who have taken 880655 should not enroll in this course without the consent of the instructor.)

880771 Advanced Studies in Inter-Group Relations
3 credits
Advanced studies in aspects of social interaction as it relates to social groups. Attention to contemporary situations with emphasis on relationships, status, leadership, social power bureaucracy and both formal and informal organization.

880772 Theories of Society
3 credits
A critical analysis of elements of systematic theories looking toward the functional application of theory to contemporary research and social systems.

880776 Crime, Delinquency and Correction
3 credits
Designed to relate the discipline of sociology to the study of various causative factors, treatment, prevention and control of crime and delinquency.

880797-1 Institute
variable credit

880798 Workshop
variable credit
See page 58 for Workshop course description.

880799 Thesis
1-6 credits
See page 59 for Thesis course description.
### The Board of Regents of the University of Wisconsin System

<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
<th>Term Ends</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nancy M. Barkla</td>
<td>River Falls</td>
<td>1980</td>
</tr>
<tr>
<td>David E. Beckwith</td>
<td>Milwaukee</td>
<td>1984</td>
</tr>
<tr>
<td>Arthur DeBardeleben</td>
<td>Park Falls</td>
<td>1981</td>
</tr>
<tr>
<td>James N. Elliott</td>
<td>Milwaukee</td>
<td>ex officio</td>
</tr>
<tr>
<td>Joyce M. Erdman</td>
<td>Madison</td>
<td>1982</td>
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<tr>
<td>Marilyn Fitzgerald</td>
<td>Platteville</td>
<td>1983</td>
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<tr>
<td>Thomas P. Fox</td>
<td>Madison</td>
<td>1985</td>
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<tr>
<td>William M. Gerrard</td>
<td>LaCrosse</td>
<td>1982</td>
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<tr>
<td>Herbert Grover</td>
<td>Monona</td>
<td>1983</td>
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<tr>
<td>Dr. Ben R. Lawton</td>
<td>Marshfield</td>
<td>1984</td>
</tr>
<tr>
<td>Raymond E. Majerus</td>
<td>Milwaukee</td>
<td>1985</td>
</tr>
<tr>
<td>Bertram N. McNamara</td>
<td>Milwaukee</td>
<td>1980</td>
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<tr>
<td>Russell O’Harrow</td>
<td>Oconto Falls</td>
<td>1986</td>
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<tr>
<td>Barbara Thompson</td>
<td>Madison</td>
<td>ex officio</td>
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<tr>
<td>Gerard E. Veneman</td>
<td>Port Edwards</td>
<td>1986</td>
</tr>
<tr>
<td>Mary M. Walter</td>
<td>Baileys Harbor</td>
<td>1981</td>
</tr>
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</table>

### University of Wisconsin System Administration

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
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<tbody>
<tr>
<td>President</td>
<td>Robert M. O’Neil</td>
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<tr>
<td>Senior Vice President</td>
<td>Donald K. Smith</td>
</tr>
<tr>
<td>Vice President for General Services</td>
<td>Robert Winter</td>
</tr>
<tr>
<td>Vice President and Controller</td>
<td>Reuben Lorenz</td>
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</tbody>
</table>
The University of Wisconsin-Whitewater Campus Administration

Office of the Chancellor

Chancellor .................................................. James Connor
Assistant to the Chancellor ............................. Dorothy Tiede
Assistant Vice Chancellor for Planning and Analysis ............................. Patrick Monahan
Director of Computer Services ........................... Lyle Hunter
Director of Information Services ........................ Dale Reich
Director of Intercollegiate Athletics-Men .................. Forrest Perkins
Director of Intercollegiate Athletics-Women ................ Martha van Steeneren
Director of University Relations .......................... Wallace Zastrow

Office of the Vice Chancellor and Dean of Faculties

Vice Chancellor and Dean of Faculties ....................... Edwin Speir, Jr.
Associate Dean of Faculties ............................... Fannie Hicklin
Assistant Vice Chancellor for Academic Support Services .................... Timothy Knowles
Dean of College of The Arts ............................... Raymond Light
Dean of College of Business and Economics ...................... Joseph Domitz
Dean of College of Education ................................ Lewis Stoneking
Dean of College of Letters and Sciences ........................ Everett Fulton
Dean of School of Graduate Studies ........................... Arthur G. McGraw, Jr.
Dean of Continuing Education and Outreach ...................... Thomas McLeRoy
Dean of Library and Learning Resources ......................... Don Tolliver
Executive Director of Student Administrative Services ..................... John Prentice
Registrar .................................................. George Lehner
Associate Registrar ......................................... John Bodensteiner

Office of the Assistant Chancellor for Student Affairs and Dean of Student Life

Assistant Chancellor for Student Affairs and Dean of Student Life ............. David Markee
Assistant to the Assistant Chancellor for Student Affairs ........................ Brenda Forrest
Associate Dean of Student Life and Coordinator of Counseling Program ........ Keith Lohman
Director of Admissions ...................................... Irv Madsen
Director of Counseling Center ................................ Thomas Bolduc
Director of Financial Aids ..................................... Gerald Buhrow
Director of Health Services ................................... Jeanne Griffith, M.D.
Director of Housing ........................................ Jerry Gorby
Director of Career Planning and Placement Services .............................. Richard Bailey
Director of Rehabilitation Education Services ............................... John Truesdale
Director of University Center .................................. Stephen Summers

Office of the Assistant Chancellor for Administrative Services

Assistant Chancellor for Administrative Services ............................. James Colmey
Assistant to the Assistant Chancellor for Administrative Services ............. Dale Brock
Controller .................................................. Tom Klug
Director of Personnel ........................................ Mark Rehrauer
Director of University Police .................................. Harold Robinson
Executive Director, Facilities ...................................(Dean Wolf)
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Term Ends</th>
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<tbody>
<tr>
<td>Mrs. Lea Argiris</td>
<td>Vice President/Treasurer, Alpha Cast, Inc.</td>
<td>1983</td>
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<tr>
<td>Mrs. Mary Ebbott</td>
<td>Civic Leader</td>
<td>1982</td>
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<tr>
<td>William B. Fardy</td>
<td>FBI Agent</td>
<td>1982</td>
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<tr>
<td>John A. Formella</td>
<td>CLU General Agent, Northwestern Mutual Insurance</td>
<td>1981</td>
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<tr>
<td>John F. Graham</td>
<td>Postmaster</td>
<td>1982</td>
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<tr>
<td>Mrs. Doris Highsmith</td>
<td>Civic Leader</td>
<td>1981</td>
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<tr>
<td>Richard I. Jensen</td>
<td>President, University Circuits</td>
<td>1981</td>
</tr>
<tr>
<td>Lester Jones</td>
<td>Teacher</td>
<td>1981</td>
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<tr>
<td>George Murphy</td>
<td>President, City Wide Insulation Co.</td>
<td>1982</td>
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<tr>
<td>Stephen Nass</td>
<td>President, City Council</td>
<td>1983</td>
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<tr>
<td>Quinn C. Smet (Vice Chr.)</td>
<td>City Manager</td>
<td>1983</td>
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<tr>
<td>Donald R. Tully (Secretary)</td>
<td>President, Fidelity Abstract Company, Inc.</td>
<td>1983</td>
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<tr>
<td>Erwin H. Voigt</td>
<td>Retired, State Department of Agriculture, Staff Member</td>
<td>1981</td>
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<td>William Wolfe (Chairperson)</td>
<td>President, Palmetier &amp; Abell Lumber Company</td>
<td>1982</td>
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<tr>
<td>Mrs. Fern Young</td>
<td>President, Irvin L. Young Foundation, Young Engineering</td>
<td>1983</td>
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The Graduate Council 1979-80

<table>
<thead>
<tr>
<th>Department</th>
<th>Name</th>
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<tbody>
<tr>
<td>Accounting Department</td>
<td>Roy Weatherwax</td>
<td>1980</td>
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<tr>
<td>American Studies Area</td>
<td>Carolyn Sylvander</td>
<td>1982</td>
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<tr>
<td>Art Department</td>
<td>Ernella Hunziker</td>
<td>1982</td>
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<tr>
<td>Biology Department</td>
<td>John Cummings</td>
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<tr>
<td>Business Education and Office Admin.</td>
<td>David Goodman</td>
<td>1982</td>
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<tr>
<td>Chemistry Department</td>
<td>Philip Johns</td>
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<tr>
<td>Coaching Department</td>
<td>William Myers</td>
<td>1981</td>
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<tr>
<td>Communication Department</td>
<td>Patricia Townsend</td>
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<tr>
<td>Economics Department</td>
<td>Ashok Bhargava</td>
<td>1982</td>
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<tr>
<td>Elementary Education Department</td>
<td>Vernon Schumacher</td>
<td>1980</td>
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<tr>
<td>English Department</td>
<td>Arthur Madson</td>
<td>1982</td>
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<tr>
<td>Finance &amp; Business Law Department</td>
<td>Donald Sorenson</td>
<td>1980</td>
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<tr>
<td>Foreign Languages Department</td>
<td>Aldo Busot</td>
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<tr>
<td>Geography-Geology Department</td>
<td>William Baldwin</td>
<td>1982</td>
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<tr>
<td>History Department</td>
<td>Richard Yasko</td>
<td>1982</td>
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<tr>
<td>Health, Physical Ed. &amp; Recreation</td>
<td>Corinne Clark</td>
<td>1980</td>
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<tr>
<td>Management Department</td>
<td>Peggy Anderson</td>
<td>1981</td>
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<tr>
<td>Marketing Department</td>
<td>G. M. Naidu</td>
<td>1981</td>
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<tr>
<td>Mathematics Department</td>
<td>Ronald Dettmers</td>
<td>1982</td>
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<tr>
<td>Music Department</td>
<td>Howard Ingelfield</td>
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<tr>
<td>Philosophy &amp; Religious Studies</td>
<td>Don S. Ross</td>
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<td>Physics Department</td>
<td>Noel Hjelmhaug</td>
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<td>Political Science Department</td>
<td>Don Heidorn</td>
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<td>Psychology Department</td>
<td>Lynton Piatt</td>
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<td>Safety Education Department</td>
<td>Jerry Witherill</td>
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<td>School Business Management Dept.</td>
<td>George Gray</td>
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<td>Secondary Education Department</td>
<td>Sam Welty</td>
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<td>Sociology-Anthropology Department</td>
<td>Lanny Neider</td>
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<td>Social Welfare Department</td>
<td>Ralph Navarre</td>
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<td>Special Education Department</td>
<td>Garry Libster</td>
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<tr>
<td>Theatre Department</td>
<td>Marilyn Baxter</td>
<td>1982</td>
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<tr>
<td>Library</td>
<td>Don Tolfiver, Dean of Library (ex-officio)</td>
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STUDENT REPRESENTATIVES

College of the Arts.............................................................. Rajesh Srivastava
College of Business and Economics................................. Barbara Finkler
College of Education........................................................... Paul Baldwin
THE GRADUATE SCHOOL STANDING COMMITTEE FOR COORDINATION AND PLANNING

<table>
<thead>
<tr>
<th>College</th>
<th>Student Representative</th>
<th>Faculty Representatives</th>
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<tbody>
<tr>
<td>The Arts</td>
<td></td>
<td>Ernella Hunziker</td>
<td>1980</td>
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<td>Howard Inglefield</td>
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<td>Frederick Sederholm</td>
<td>1982</td>
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<tr>
<td>Business and Economics</td>
<td>Scott Berner</td>
<td>Harish Batra</td>
<td>1980</td>
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<td></td>
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<td>Ashok Bhargavaa</td>
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<tr>
<td>Education</td>
<td>Mary Stern</td>
<td>Thomas Rothrock</td>
<td>1982</td>
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<td></td>
<td>David Stockhus</td>
<td>Merlin Manley</td>
<td>1980</td>
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<td></td>
<td>(Alternate)</td>
<td>Thomas Grotelueschen</td>
<td>1981</td>
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<tr>
<td>Letters and Sciences</td>
<td>Nancy Cooper</td>
<td>Charles King</td>
<td>1982</td>
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<td>John Cummings</td>
<td>1980</td>
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<td>Arthur Madson, Chairperson</td>
<td>1981</td>
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<tr>
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<td>Patricia Townsend</td>
<td>1982</td>
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THE GRADUATE LIBRARY COMMITTEE

Student Representative: Donna Hilton
Faculty Representatives:
- Paul Miller, Chairperson
- Karl Zahn
- Charles Varney

ACADEMIC AFFAIRS COMMITTEE, STUDENT GOVERNMENT — UW-W

Student Representative: Gary Hecker

SECRETARY OF THE GRADUATE FACULTY

Geri Black
THE GRADUATE FACULTY 1979-80

GEORGE R. ADAMS (1966), Professor of English, Ph.D., University of Oklahoma
JANET A. ANDERSON (1969), Professor of Art, Ph.D., University of Michigan
PEGGY A. ANDERSON (1965), Professor of Management, Ph.D., University of Illinois
WILLIAM O. BALDWIN (1962), Professor of Geography, Ph.D., University of Illinois
ASIT K. BANERJEE (1977), Assistant Professor of Marketing, Ph.D., University of Wisconsin-Madison
PETER R. BARRY (1964), Associate Professor of History, Ph.D., University of Wisconsin-Madison
HARISH C. BATRA (1971), Professor of Finance and Business Law, Ph.D., University of Illinois
JOHN V. BATTRETT (1964), Professor of Learning Resources, Ph.D., Michigan State University
MARILYN R. BAXTER (1975), Assistant Professor of Theatre, Ph.D., University of Wisconsin-Madison
JAMES P. BECK (1977), Lecturer in English, Ph.D., University of Wisconsin-Madison
BENNET F. BERHOF (1978), Assistant Professor of Elementary Education, Ph.D., University of North Dakota
RAMA K. BHARADWAJ (1972), Assistant Professor, Student Affairs, Ph.D., University of Illinois
ASHOK BHARGAVA (1970), Associate Professor of Economics, Ph.D., University of Wisconsin-Madison
CLARENCE A. BLACK (1964), Professor of Accounting, Ph.D., University of Wisconsin-Madison
WINSON C. BLANKENSHIP (1964), Professor of Educational Foundations and Counselor Education, Ed.D., Oklahoma State University
ELIZABETH BLUMBERG (1967), Associate Professor of Art, M.A., University of Wisconsin-Madison
M. JANETTE BOH (1959), Professor of History, Ph.D., University of Illinois
THOMAS E. BOLDUC (1964), Professor of Psychology, Ph.D., Pennsylvania State University
KARL BORGESON (1970), Associate Professor of Art, M.A., University of Minnesota
CHARLES W. BRADY (1961), Professor of Biology, Ph.D., University of Wisconsin-Madison
JERRY E. BRAMBLETT (1973), Associate Professor of Music, Ph.D., Columbia University
DALE E. BROOK (1963), Professor, Administrative Services, Ed.D., Indiana University
CAROL BROCKER (1972), Associate Professor of Social Welfare, Ph.D., University of Wisconsin-Madison
ROGER L. BROWN (1979), Adjunct Assistant Professor of Safety Education, Ph.D., University of Wisconsin-Madison
WILLIAM L. BRUNCHORST (1967), Assistant Professor of Biology, Ed.D., University of Mississippi
ROBERT N. BURROWS (1965), Professor of English, Ph.D., University of Pennsylvania
ADRIANA B. BUSOT (1965), Associate Professor of Foreign Languages, Doctor en Filosofia y Letras, University of Havana
ALDO BUSOT (1965), Professor of Foreign Languages, Doctor en Derecho, University of Havana; Docteur d'Universite (Meudon Droit), University of Paris; J.D., University of Wisconsin-Madison
JON D. CARLSON (1978), Assistant Professor of Educational Foundations and Counselor Education, Ed.D., Wayne State University
WILLIAM L. CARTER (1967), Distinguished Professor of Mathematics and Education, Ph.D., Ohio State University
JACK L. CASSINGHAM (1967), Professor of Music, D.M.A., University of Missouri-Kansas City
S. TAMER CAUSIGIL (1978), Assistant Professor of Marketing, Ph.D., University of Wisconsin-Madison
ADLORE C. CHAUDIER (1978), Lecturer in English, Ph.D., University of Wisconsin-Madison
WILLIAM CHEVRETTE (1973), Assistant Professor of Communication, Ph.D., University of Denver
JAMES M. CHITWOOD (1975), Student Affairs, Ph.D., University of Northern Colorado
CHARLOTTE A. CHRISTNER (1965), Professor of Psychology, Ph.D., Ohio State University
M. CORINNE CLARK (1965), Professor of Health, Physical Education and Recreation, P.E.D., Indiana University
JAMES W. CLINTON (1977), Assistant Professor of Management, Ph.D., St. Louis University
JAMES W. COLMEY (1975), Assistant Chancellor for Administrative Services, Ed.D., Teachers College, Columbia University
JAMES R. CONNOR (1974), Chancellor and Professor of History, Ph.D., University of Wisconsin-Madison
ROGER D. COPPENBARGER (1961), Professor of Music, D.M.A., University of Missouri-Kansas City
CHARLES COTTLE (1977), Assistant Professor of Political Science, Ph.D., Kent State University
LAWRENCE J. CRONE (1962), Associate Professor of Biology, Ph.D., Rutgers University
FRANCES M. CULBERTSON (1968), Professor of Psychology, Ph.D., University of Michigan
JOHN A. CUMMINGS (1961), Professor of Biology, Ed.D., University of Northern Colorado
LARRY W. DAVIS (1968), Professor of Mathematics, Ph.D., University of Missouri-Columbia
CLIFFORD J. DENNIS (1964), Professor of Biology, Ph.D., University of Wisconsin-Madison
RONALD D. DETTERTS (1965), Professor of Mathematics, Ph.D., University of Michigan
HENRY A. DEWIND (1952), Professor of History, Ph.D., University of Chicago
DANIEL D. DIPAZZA (1964), Professor of Political Science, Ph.D., University of Missouri-Columbia
JOSEPH H. DOMITRZ (1976), Professor of Economics, Ph.D., Southern Illinois University
MARGARET M. DONOVAN (1961), Professor of History, Ph.D., University of Wisconsin-Madison
R. NEIL DORTCH (1968), Associate Professor of Business Education and Office Administration, Ph.D., University of Wisconsin-Madison
EDWARD J. DREXLER (1964), Associate Professor of Chemistry, Ph.D., Wayne State University
CLAYTON A. DROULAND (1955), Professor of Mathematics, Ed.D., University of Colorado
ROLAND E. DURETTE (1964), Professor of Foreign Languages, Ph.D., Florida State University
MARY LOU EFNER (1976), Associate Professor of Elementary Education, Ph.D., University of Iowa
RONALD ELLIS (1966), Associate Professor of English, Ph.D., Union Graduate School
MARTIN ENGERT (1969), Associate Professor of Mathematics, Ph.D., Stanford University
MARGARET A. FEELLY (1978), Lecturer in English, Ph.D., City University of New York
MIRCEDES C. FERNANDEZ (1963), Associate Professor of Dance, M.F.A., University of Wisconsin-Madison
FRANK FERRARIO, JR. (1966), Associate Professor of Music, Ed.D., Teachers College, Columbia University
HOWARD G. FIELD (1966), Professor of Elementary Education, Ed.D., University of South Dakota
JAMES H. FISCHER (1969), Professor of Accounting, Ph.D., University of Wisconsin-Madison
CARROLL E. FLANAGAN (1949), Professor of Mathematics, Ph.D., University of Wisconsin-Madison
BRUCE P. FLOOD (1967), Assistant Professor of History, Ph.D., University of Colorado
MERLE N. FOLLSTAD (1968), Assistant Professor of Biology, Ph.D., University of Minnesota
EDWIN L. FOOT, JR. (1966), Professor of Music, Ph.D., University of Kansas
GORA M. FORMUSH (1956), Professor of Educational Foundations and Counselor Education, Ph.D., University of Wisconsin-Madison
KARL E. FRAEDRICH (1968), Professor of Accounting, Ph.D., University of Wisconsin-Madison
DAVID J. FRANKS (1973), Associate Professor of Special Education, Ph.D., University of Missouri-Columbia
EVERETT P. FULTON (1966), Professor of Religious Studies, Ph.D., State University of Iowa
CARL J. GANSEY (1963), Professor of Business Education and Office Administration, Ph.D., University of Wisconsin-Madison
JACOB H. GERLACH (1958), Associate Professor of Mathematics, Ph.D., University of Wisconsin-Madison
MARY ANNE GERLACH (1976), Lecturer in Mathematics, Ph.D., University of Wisconsin-Madison
KELLY F. GHEYARA (1979), Assistant Professor of Accounting, Ph.D., Oklahoma State University
JOHN M. GIBBENS (1961), Professor of Economics, Ph.D., Iowa State University
PETER J. GILLET (1966), Assistant Professor of English, Ph.D., University of Wisconsin-Madison
YEZDIN M. GODWALLA (1977), Assistant Professor of Management, Ph.D., Oklahoma State University
DAVID GOODMAN (1964), Professor of Business Education and Office Administration, Ed.D., University of Pittsburgh
IZA R. GOROFF (1977), Assistant Professor of Management, Ph.D., University of Pennsylvania
GEORGE H. GRAY (1968), Professor of School Business Management, Ph.D., University of Wisconsin-Madison
CHARLES GREEN (1976), Associate Professor of Sociology/Anthropology, Ph.D., Cornell University
H. GAYLON GREENHILL (1962), Professor of Political Science, Ph.D., University of Illinois
JOSEPHINE A. GREER (1965), Professor of English, Ed.D., Colorado State University
RICHARD L. GREEN (1966), Professor of Sociology, Ph.D., University of Wisconsin-Madison
RICHARD L. GREEN (1976), Professor of Biology, Ph.D., Michigan State University
THOMAS S. GROTELESCHEN (1965), Professor of Elementary Education, Ph.D., University of Wisconsin-Madison
CHARLES A. GROVER (1974), Assistant Professor of Theatre, Ph.D., University of California-Davis
MICHAEL E. GRUBB (1978), Assistant Professor of Finance and Business Law, J.D., University of Utah
GEORGE B. HAFFER (1968), Associate Professor of Communication, Ph.D., University of Illinois
JOAN P. HAGAN (1979), Assistant Professor of Elementary Education, Ph.D., University of Wisconsin-Madison
HANS R. HAHN (1967), Professor of Special Education, Ed.D., University of Illinois
KENNETH M. HAMMER (1965), Professor of Economics, Ph.D., South Dakota State University
RICHARD C. HANEY (1966), Associate Professor of History, Ph.D., University of Wisconsin-Madison
MAXINE HANSEN (1968), Professor of Elementary Education, Ph.D., State University of Iowa
LAWRENCE HARRISON (1966), Associate Professor of Art, M.F.A., Texas Christian University
ROBERT A. HEIDORN (1969), Associate Professor of Political Science, Ph.D., University of Illinois
RUSSELL D. HELWIG (1965), Associate Professor of Physics, Ph.D., University of Wisconsin-Milwaukee
CRAIG A. HERBERT (1967), Professor of Educational Foundations and Counselor Education, Ph.D., University of Wisconsin-Madison
RONTALD HERING (1977), Lecturer in Educational Foundations and Counselor Education, Ph.D., University of Wisconsin-Madison
BARBARA R. HERLIHY (1977), Assistant Professor of Educational Foundations and Counselor Education, Ph.D., Northwestern University
MARVIN HERSDORF (1965), Professor of Psychology, Ph.D., University of Illinois
PERNELL H. HIXON (1971), Assistant Professor of Business Education and Office Administration, Ph.D., University of Wisconsin-Madison
FANNIE E. HICKLIN (1964), Professor of Theatre, Ph.D., University of Wisconsin-Madison
IRENE E. HILL (1957), Associate Professor of Elementary Education, Ed.D., Northern Illinois University
NOEL. J. HJELMAUEN (1958), Associate Professor of Physics, Ed.D., Indiana University
JOSEPH E. HLVACZEK (1966), Associate Professor of Art, M.F.A., Instituto Allende
FREDERICK R. HOFFMEISTER (1967), Professor of Safety Education, Ph.D., Michigan State University
MARY MARGARET HOSLER (1967), Professor of Business Education and Office Administration, Ph.D., University of Wisconsin-Madison
JOHN D. HOWAT (1975), Assistant Professor of Finance and Business Law, Ph.D., University of Illinois
HLING HUANG (1968), Professor of Psychology, Ph.D., University of Texas
GRAFTON H. HULL (1979), Associate Professor of Social Welfare, Ed.D., University of South Dakota
JOHN R. HUNTER (1968), Professor of Music, Ed.D., North Texas State University
EFINELLA S. HUNZIKER (1963), Professor of Elementary Education, Ed.D., Columbia University
MARILYN A. HUTCHINSON (1975), Assistant Professor of Educational Foundations and Counselor Education, Ph.D., Purdue University
HOWARD G. INGLEFIELD (1966), Professor of Music, Ph.D., Ohio State University
RUSSELL E. JACOBSON (1976), Associate Professor of Management, Ph.D., University of Massachusetts
RICHARD F. JAMES (1978), Assistant Professor of Business Education and Office Administration, Ed.D., Northern Illinois University
ROBERT L. JENNETT (1966), Professor of Music, Ph.D., Michigan State University
PHILIP T. JOHNS (1976), Assistant Professor of Chemistry, Ph.D., University of North Dakota
WILLIAM F. JOHNSTON (1962), Associate Professor of Mathematics, Ph.D., University of Wisconsin-Madison
WILLIAM R. JOHNSTON (1967), Professor of Elementary Education, Ed.D., University of Toledo
DIANE J. JONES (1975), Assistant Professor of Health, Physical Education and Recreation, Ed.D., West Virginia University
STEVEN B. KARGES (1967), Associate Professor of History, Ph.D., University of Wisconsin-Madison
RICHARD D. KELLEY (1966), Associate Professor of Psychology, Ph.D., University of Nevada
KIRK Y. KIM (1967), Professor of Economics, Ph.D., University of Illinois
CHARLES R. KING (1969), Professor of Secondary Education, Ed.D., Montana State University-Bozeman
GARY B. KLATT (1967), Professor of Mathematics, Ph.D., University of Wisconsin-Madison
ARNO K. KLEEMENHAGEN (1968), Professor of Marketing, Ph.D., University of Wisconsin-Madison
EDWARD M. KLEIN (1965), Assistant Professor of Mathematics, Ph.D., Northwestern University
HADLEY G. KLAG (1970), Assistant Professor of Sociology/Anthropology, Ph.D., South Dakota State University
RONALD R. WANGERIN (1966), Professor of Health, Physical Education and Recreation, Ph.D., University of Michigan
ROY WEATHERWAX (1976), Assistant Professor of Accounting, Ph.D., University of Wisconsin-Madison
ROBERT K. WEBB (1966), Professor of Music, Ed.D., University of Illinois
SAM R. WELTY (1970), Associate Professor of Secondary Education, Ph.D., Florida State University
JAMES M. WENKLE (1967), Associate Professor of Art, M.F.A., University of Kansas
GERALD A. WESTON (1968), Professor of Economics, Ph.D., Washington State University
EVERETT M. WHITE (1958), Professor of Elementary Education, Ed.D., University of Northern Colorado
JOHN W. WICKENBERG (1977), Lecturer in Art, M.F.A., University of Wisconsin-Madison
GENE A. WILSON (1965), Professor of Theatre, M.F.A., Yale University
JEROME W. WITHERILL (1973), Associate Professor of Safety Education, Ph.D., Michigan State University
ROBERT K. WYSOCKI (1975), Associate Professor of Marketing, Ph.D., Southern Methodist University
RICHARD A. YANZITO (1977), Assistant Professor of Marketing, Ph.D., Walden University
RICHARD A. YASKO (1976), Associate Professor of History, Ph.D., University of Chicago
LOWELL V. YOUNGS (1968), Professor of Music, D.M.A., Catholic University of America
AURELIO YVARRA (1978), Assistant Professor of Elementary Education, Ph.D., Claremont Graduate School
MATHWZ ZACHARIAS (1970), Associate Professor of Sociology/Anthropology, Ph.D., University of Minnesota
DONALD K. ZAHN (1978), Assistant Professor of Business Education and Office Administration, Ed.D., University of Montana
KARL G. ZAHN (1985), Professor of Elementary Education, Ed.D., University of Colorado
ABDULLAH ZARRINIA (1967), Professor of Economics, Ph.D., University of Nebraska-Lincoln
CHARLES H. ZASTROW (1971), Professor of Social Welfare, Ph.D., University of Wisconsin-Madison
THE CONSTITUTION OF THE GRADUATE FACULTY
UNIVERSITY OF WISCONSIN-WHITEWATER

(Revised and Approved by the Graduate Faculty on 10/21/76)

Recognizing the need for an effective system of procedure, the members of the Graduate Faculty as now constituted do affirm and declare the following Constitution.

ARTICLE I—Name

This organization is named the Graduate Faculty of the University of Wisconsin-Whitewater.

ARTICLE II—Object

The purposes of this organization are to formulate and to administer programs of graduate study as authorized by the Legislature of the State of Wisconsin and the Board of Regents of the University of Wisconsin System. Such activity includes the establishment of local graduate study and the participation in the state-wide policy.

ARTICLE III—Membership

Section 1: Membership is limited to the Chancellor of the University and to those members of the administrative staff and faculty who are qualified, as defined in Section 2 of this article.

Section 2: Persons are “qualified” who (1) have an earned doctorate or other degree considered terminal by that professional area, and (2) have shown an interest by departmental certification that the individual has either taught a graduate course during the past 18 months, or is currently teaching a graduate course, or is a member of the Graduate Council, or is a member of a committee of the Graduate School, or is a member of a college graduate studies committee, or has attended the last annual spring meeting of the Graduate Faculty. Departments are to certify their graduate teaching faculty by the end of the first week of each fall semester.

Individuals not meeting the above may be considered for election to the Graduate Faculty by petition, recommendation of department and/or college Graduate Studies Committee, and vote of the Graduate Council.

Section 3: Persons transacting graduate affairs within a department must be members of the Graduate Faculty as defined in this article.

In order for a person not possessing Graduate Faculty qualifications to teach a specific course during a specific term, the Graduate Faculty of the department must approve. The person for whom the exception is made shall not be granted membership on the Graduate Faculty by this action. Appropriate documentation will be forwarded to the Graduate Dean and the Graduate Council for review each semester prior to timetable submission.

ARTICLE IV—Meetings

Section 1: The Chancellor of the University, as ex-officio Chairperson, may preside over meetings of the Graduate Faculty and perform all other executive duties, or may designate the Dean of the School of Graduate Studies Chairperson in any or all of these functions.

Section 2: The Secretary shall be elected annually by the Graduate Faculty without regard to the nominee’s membership in the Graduate Faculty.

Section 3: All members of committees are to be elected at the regular annual meeting and are to assume their duties at the beginning of the fall semester, except as indicated in the Bylaws (Article II “Committees”) pertaining to certain specific committees.

Section 4: Meetings shall be called by the Chairperson or his/her appointee when business warrants an assembly. However, at least one meeting must be called each spring semester. The Secretary must notify each member in writing a week before the meeting.

Section 5: A special meeting of the Graduate Faculty can be called by a petition of 10 graduate faculty or a request of the Graduate Faculty of a department, or by resolution adopted at a Graduate Faculty meeting. Special meetings must meet the notification requirements as specified in Section 4 of this Article.

Section 6: A quorum shall consist of 20 per cent of the membership.

ARTICLE V—Amendment

Section 1: Any committee or member may propose an amendment to the Constitution. The proposed amendment shall be read at a meeting of the Graduate Faculty and each member shall be given a written copy. The motion to adopt shall be in order, but at least one week must elapse between initiation and ratification.

At the next meeting of the Graduate Faculty, the motion to amend shall become the first order of business and may itself be subject to minor amendment.

Section 2: An amendment is adopted by a two-thirds majority of those present in secret ballot.
ARTICLE VI—Ratification
This Constitution shall be ratified when approved by the Chancellor of the University and by two-thirds of those present and voting, provided a quorum of the Graduate Faculty, as now constituted, is present.

BYLAWS

ARTICLE I—Rules of Order

Section 1: All business shall be conducted according to Robert's Rules of Order unless otherwise specified in the Constitution and its Bylaws.

Section 2: The method of voting shall be at the discretion of the Chairperson unless otherwise herein specified or unless a division or a roll call be demanded by a member. A majority vote of a quorum shall determine the official actions of the assembly.

Section 3: All committees of the Graduate Faculty shall report to the Graduate Faculty. A minority report, if one exists, must be heard before a motion to adopt the committee's report is in order.

Section 4: All committee reports requiring a vote by the Graduate Faculty shall be presented in the form of a written motion at least one week prior to its presentation in meeting.

ARTICLE II—Committees

Section 1: The Graduate Council shall be composed of one Graduate Faculty member from each department offering a graduate course. The representative shall be chosen by ballot by the Graduate Faculty members of that department. In addition, the Vice Chancellor and Dean of Faculties and the Dean of the School of Graduate Studies shall be ex-officio members. The terms of office shall be three years, one-third of the membership to be elected every year.

The duties of the Graduate Council shall be to study and take final action in areas of curriculum, state planning of graduate study, administration, and executive action. This is not to include constitutional amendments or changes of the Bylaws.

All actions of the Graduate Council are subject to review and change by the Graduate Faculty.

Section 2: The Library Committee shall be composed of three members nominated and elected by the Graduate Faculty; the Dean of Library and Learning Resources shall be a member ex-officio. The terms shall be three years, one new member being elected every year.

The duties of this committee shall be to determine policy in library affairs relating to graduate programs, to encourage a rapid expansion of library facilities to support graduate study, and to serve in other matters concerning the development of the library as it pertains to the graduate school.

Section 3: Special committees may be appointed by the Dean of the School of Graduate Studies, with or without recommendation by the Graduate Faculty, to study a specific problem and to report to the Graduate Faculty or the appropriate graduate committee within a set period. Upon completion of the report, the committee ceases to exist unless otherwise directed.

Section 4: All standing committees shall organize early in the fall semester, review their functions, and—if they so desire—recommend change of function at their first regular meeting of the semester. This organizational session shall be called by the chairperson of the preceding year's committee. If that chairperson is not available, the member reading first alphabetically shall act as temporary chairperson, call the meeting, and preside over the election of permanent officers.

Section 5: It is recognized that the initiation and development of curriculum rests with the several departments and colleges. Therefore, colleges may form graduate studies committees to study and act on graduate matters prior to submission to the Graduate Council. The formation of these committees and their method and scope of operation shall be determined by the respective colleges, except that these committees may not abrogate the Teacher Education Council's guidelines that recommendations concerning graduate curricular requirements in teacher education programs, concerning new and/or changed policies and/or concerning revised or new programs, must be made by the Teacher Education Council before action by the Graduate Council. These committees and the TEC may not deny the right of an individual department or graduate faculty member to bring matters directly to the Graduate Council. (Ratified by the Graduate Faculty—May 3, 1979.) (Approved by Chancellor James Connor May 14, 1979.)

Section 6: The Graduate School Standing Committee for Coordination and Planning will act as a coordinating, planning and “overseeing” committee. It is charged with reviewing and coordinating new graduate degree program proposals, assessing immediate and changing needs, and recommending audit and phase-out of programs. Within the existing framework, it may also make recommendations on the development of new degree programs.

It shall report to the Graduate Council and its recommendations are subject to the action of the Graduate Council. The Committee is to have three representatives from each college. These representatives are to be chosen by the rules established by the particular college. The term of office shall be three years, one-third of the membership to be elected every year.

APPROVED:

James R. Connor, Chancellor
UW-Whitewater

DATE: October 29, 1976