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5-1960

Graduate Studies Bulletin, series 54, number 9 (1960-61)

Moorhead State College

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moorhead state college

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graduate
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CALENDAR — 1960 - 1961

FALL QUARTER

September 6	Faculty Orientation
September 7-10	Student Orientation and Academic Advising
September 12-13	Registration and Payment of Fees
September 14	Classes begin
November 18-23	Final Examinations
November 23	End of Fall Quarter at 5 p.m.
November 24-27	Thanksgiving Recess

WINTER QUARTER

November 28	Orientation, Registration and Payment of Fees
November 29	Classes begin
December 22	Christmas Recess begins at 5 p.m.
January 9	Classes resume
March 1-6	Final Examinations
March 6	End of Winter Quarter at 5 p.m.
March 7-10	Spring Recess — Regular Students

SPRING QUARTER

March 10	Orientation, Registration and Payment of Fees — New Students
March 13	Classes begin
March 30	Easter Recess begins at 5 p.m.
April 4	Classes resume
May 26 - June 1	Final Examinations
May 30	Memorial Day
June 2	Baccalaureate and Commencement

INTERSESSION

June 5	Registration, Payment of Fees and Classes begin
June 9	End of Intercession at 5 p.m.

FIRST SUMMER SESSION

June 12	Registration and Payment of Fees
June 13	Classes begin
July 4	Independence Day
July 10	End of First Summer Session

SECOND SUMMER SESSION

July 19	Classes begin
August 25	End of Second Summer Session
August 25	Commencement

June 1, 1961

CHANGES IN REGULATIONS AND COURSES

supplementing the
1960-61 Graduate Studies Bulletin

I. Additions to Requirements for the Master's Degree for candidates completing their degrees after Sept. 1, 1961. (p.12, bulletin).

- (11) He must have been enrolled for full-time work on the campus for a minimum of:
- Two regular quarters, or
 - One regular quarter and two summer sessions, or
 - Four summer sessions.

(12) During the periods of full-time residency he must have completed a minimum of 18 quarter hours of work with an average of "B" or better.

II. Change in Design of the Master's Degree Program (p.8, bulletin).

- The major or field of concentration...15 qf. hours minimum in addition to The Independent Study or Thesis. (old requirement was 9 to 27 quarter hours.)

III. Changes in Course Descriptions (pp.16-23) bulletin).

ART

Omit: Art 550. Art Problems.

Add: Art 532. Studies in Art History. 3 hrs.
Art 542. Studies in Art Education. 3 hrs.
Art 552. Studies in Painting. 3 hrs.
Art 554. Studies in Sculpture. 3 hrs.

Art 556. Studies in Crafts & Ceramics. 3 hrs.

Art 572. Seminar in Art. 3 hrs.

EDUCATION

Add: Educ.580. Junior College Workshop. 2 hrs.
A-V.Ed.420g. Admin. of A-V Materials. 3 hrs.
A-V.Ed.500. Utilization of A-V Materials. 3 hrs.
A-V.Ed.580. Probs. in A-V.Education. 3 to 4 hrs.
Ed.421g. The Gifted Child. 3 hrs.

ENGLISH

Omit: Engl.530. The Individual and Society.
Add: Engl.430g. Social-Intellectual Approach to Literature. 3 hrs.

INDUSTRIAL ARTS

Add: I.A.504-I. Sch. Shop Equip. Care & Maint. 1 hr.

MATHEMATICS

Add: Math.414g. Theory of Numbers. 3 hrs.
Math.474g. Teach. Prob. & Statistics. 4 hrs.

SCIENCE

Add: Bio.401g. Vertebrate Embryology I. 3 hrs.
Bio.402g. Vertebrate Embryology II. 3 hrs.
Bio.415g. Endocrinology. 4 hrs.
Bio.599. The Ind. Study in Biology. 2-6 hrs.
Omit: Bio.501. Found. of Mod. Biol. Science.

Add: Chem.430g. Org. Preparations.Cred. arr.,max 3 hr.
Chem.437g. Advanced Org. Chemistry. 3 hrs.
Chem.439g. Org. Qualitative Analysis. 5 hrs.
Chem.450g. Inorg. Prep. Credit arr., max. 3 hrs.
Chem.485g. General Biochemistry. 5 hrs.
Chem.501. Synthetic Polymers. 3 hrs.
Chem.572. Reaction Mechanisms. 3 hrs.
Chem.599. The Ind. Study in Chemistry. 2-6 hrs.

Omit: Chem. 512. Advanced Org. Chemistry.
Add: Phys. 402g. Advanced Electronics. 4 hrs.
Phys. 599. The Ind. Study in Physics. 2-6 hrs.

Add: Sci. 480g, 481g, 482g. Science Seminar. 1 hr.
each quarter

Omit: G.Sci.599. The Ind. Study in Science.

SOCIAL STUDIES

Add: Hist. 418g. Far Eastern History. 4 hrs.

SPEECH

Add: Sp. 542. Seminar in Educational Theatre. 3 hrs.

THE BULLETIN

MOORHEAD STATE COLLEGE

Moorhead, Minnesota

GRADUATE STUDIES

1960-1961

ACCREDITATION

Moorhead State College is accredited as a master's degree granting institution by the North Central Association of Colleges and Secondary Schools; and it is accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary and secondary school teachers and elementary principals with the master's degree as the highest degree approved.

THE GRADUATE PROGRAM STATE COLLEGE BOARD

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COMMITTEES OF THE COUNCIL

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 Dr. Hanson
 Dr. Smith
 Dr. Williams

2. Curriculums

Dr. Murray
 Dr. Blackburn
 Dr. Harmon
 Dr. Lysne
 Dr. Williams

GRADUATE FACULTY, 1959-60

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CLARENCE J. HULL, Ph.D., Indiana University
SHEILDA ANN JACOBSON, M.S. in Ed., Moorhead State College
JOHN M. JENKINS, Ed.D., University of North Dakota
NELS N. JOHNSON, Ed.D., Pennsylvania State University
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MAUDE H. WENCK, Ed.D., Teachers College, Columbia University
WILBUR A. WILLIAMS, Ph.D., University of Michigan

PURPOSES OF THE COLLEGE

The Moorhead State College is a state supported institution of higher learning and, as such, has as its central purpose educational and cultural service and leadership to the region. In large part this purpose is achieved through its program for the education of students who can think and act wisely in personal relationships and who can contribute to the well-being of the society in which they live because of their professional or vocational competence.

The basic assumptions of the program are that education is a process of growth and development, that learning is a continuous process, and that all aspects of learning are related.

A purpose of the college implicit in all aspects of its program is to provide educational and cultural leadership in the region it serves. By means of a comprehensive program of consultative services, research and study, publications, extension and in-service education, adult education, and speakers bureau the college seeks to share its facilities and the abilities of its faculty with the people it serves in western Minnesota.

THE GRADUATE DIVISION

Moorhead State College was authorized by the Minnesota Legislature in 1953 to offer graduate courses for the purpose of strengthening and broadening the academic and professional preparation of teachers beyond the four-year level. The College was accredited in April and May of 1960 by the North Central Association of Colleges and Secondary Schools, and by the National Council for Accreditation of Teacher Education, for the granting of master's degrees. The latter council (NCATE) specified the areas in which the College is fully qualified to offer programs: (1) secondary school teaching (2) elementary school teaching and (3) elementary school supervision and administration.

Graduate work at the college is intended to serve two groups: (1) those who wish certain courses, but do not expect to take an advanced degree: and (2) those who will fulfill the requirements for the degree, master of science in education (M.S. in Ed.).

DESIGN OF FIFTH-YEAR PROGRAMS

Programs for those who do not intend to work for the master's degree, but do wish to be certified as having completed a fifth-year program of study, are worked out by the student and his assigned adviser. The design of such a fifth year necessarily must be adapted to the student's needs, and to the requirements of the school position in which he is employed. Such programs involve not less than 45 quarter hours of work, all on the graduate level (400g or 500 courses) unless specific undergraduate courses have been approved as a part of the program.

One program leading to state certification — the Minnesota program in remedial reading — involves 27 to 40 hours of work on both the undergraduate and graduate level. An individual entering this program must hold a regular teaching certificate, a bachelor's degree, and must have had two years of successful teaching experience. This program may be expanded into a fifth-year program upon the completion of a total of 45 hours, with the approval of the administrative official in the system in which the teacher is or expects to be teaching.

The Minnesota program for certification in remedial reading involves as required courses: English 343, 345, and 346; Education 545, 546, and 574; and three elective courses from the following: Education 575, 420g and 445g; Speech 344; English 340 and 390.

DESIGN OF THE MASTER'S DEGREE PROGRAM

The basic design of all programs of graduate study leading toward the master's degree includes a minimum of 45 quarter hours of credit with consideration of the following.

1. The major or field of concentration 9 to 27 quarter hours.
2. Professional education courses 9 quarter hours minimum.
3. Related area courses
(other than (1) and (2) 9 quarter hours minimum.

There are three requirements common to all master's degree programs: Ed. 501, *Psychological Foundations*, and Ed. 503, *Research and Statistics*, as six of the nine hours specified in Professional Education; and *The Independent Study*, which is done in one's major field, and for which one may earn two to six hours of credit.

If a student is interested in secondary teaching in a given field, he must have completed at least 24 quarter hours of satisfactory undergraduate courses in that field as judged by the department head before he proceeds in this as his declared major field for graduate study. If his interest is in elementary work, he must have completed a satisfactory undergraduate elementary education program as judged by the Dean of Education before he undertakes graduate courses in elementary education.

Before taking graduate courses in professional education, students must have completed at least 24 quarter hours of satisfactory undergraduate courses in professional education as judged by the Dean of Education.

MAJORS AVAILABLE IN GRADUATE STUDY

Students who intend to complete requirements for the master's degree, if they meet the undergraduate requirements described above, may select for their major field from the following:

1. Elementary Education
2. Elementary Administration (see section on Requirements for)
3. Art
4. Biological Science
5. Business Education
6. English
7. Health, Physical Education, and Recreation
8. Industrial Arts
9. Mathematics
10. Music
11. Science
12. Social Studies
13. Speech

ELEMENTARY ADMINISTRATION REQUIREMENTS

The State College requirements for the master's degree with a major in ~~Elementary Administration~~ are as follows:

Area I Administration, Supervision, Curriculum

Required: Twenty-four quarter hours from the following:

*Educ. 430g Supervision in the Elementary School	3 hours
*Educ. 492g Administration in the Elementary School	4 hours
Educ. 515 Pupil Accounting in the Elementary School	3 hours
Educ. 540 Studies Affecting Elementary Education	3 hours
*Educ. 542 Elementary School Curriculum	3 hours
Educ. 545 Diagnostic and Remedial Procedures in Reading	3 hours
Educ. 546 Clinical Practice in Diagnostic and Remedial Procedures in Reading	2 hours
Educ. 590 Seminar in Administration and Supervision	3 hours
Art 540 Current Practices in Art Education	3 hours
Geog. 540 Geography in Education	3 hours
Health 465g Organization and Administration of School Health Education . .	3 hours
Ind. Arts 542 Course Construction in Industrial Arts	3 hours
Music 540 Problems in Supervision of Music in the Public Schools	3 hours
Phys. Ed. 540 Problems in Teaching Physical Education	3 hours
Soc. St. 540 Problems in Teaching Social Studies	3 hours

*Required

Area II Professional Education

Courses in this area are described in State requirements as "Electives in Education." Two of the following courses, however, are required of all master's degree candidates, marked with asterisks. A minimum of nine hours from this area is required.

*Educ. 501 Psychological Foundations	3 hours
*Educ. 503 Elements of Research and Statistics	3 hours
Educ. 504 The School and Society	3 hours
Educ. 511 The School and the Individual	3 hours
Educ. 512 Study of the Individual	3 hours
Educ. 574 Measurement of Intelligence	3 hours
Educ. 575 Clinical Practice in Administration of Individual Intelligence Tests	3 hours
Phys. Ed. 574 Tests and Measurements in Physical Education	3 hours

Area III General Course Requirements

All students are required to complete nine quarter hours minimum in fields other than professional education and the teaching field or other major. These courses may be in any of the subject fields included in the elementary curriculum. Every student must complete the following:

Educ. 599 Independent Study 2-6 quarter hours

For requirements other than specific courses, consult the section entitled "Requirements for the Master's Degree."

ADMINISTRATION OF THE PROGRAM

Responsibility for the administrative direction of the graduate program is delegated by the president of the College to the Graduate Council. Members of the Council include the president (ex-officio); the director of graduate studies (chairman); the academic dean (ex-officio); the registrar (ex-officio); and eleven members of the Graduate Faculty appointed by the president in such a manner as to achieve a balance of representation from the various areas of graduate study.

The functions of the Council include approval of applications for graduate study, approval of applications for candidacy for the degree, recommendations concerning graduate courses, arrangement for advisers for graduate students, formulation of general policy and administrative procedures in the graduate program. In all these matters the Graduate Faculty serves as the broader legislative body for the approval of general policy proposals. In the organization of graduate courses the Council works closely with the various departments of instruction concerned; and it seeks to articulate its entire program with the other programs of the College through the Council on Curricula and Courses.

The Graduate Faculty is determined on the basis of the following criteria: (1) Those who hold administrative positions which are involved in the graduate program; (2) Those who are chairmen of departments which have been recognized as graduate areas of specialization; and (3) Those with an earned doctorate and others with a master's degree who are regarded by department chairmen as adequately prepared to teach a specific course and who are approved by the Graduate Council.

ADMISSION TO GRADUATE STUDY

Admission to graduate study, whether the student intends to qualify for the master's degree or not, is made by filling out an application blank obtained from the graduate studies office and filing it there together with certified copies of the student's undergraduate record from the college where he completed a bachelor's degree (and certified copies of any graduate work taken elsewhere), at least one week prior to registration for any quarter of the year.

Usually a student who has earned a bachelor's degree from a college or university accredited by the regional accrediting agency or by the NCATE is admitted to graduate study. If the college or university is not on accredited lists, the student may be accepted conditionally.

No graduate credit will be given for any work taken by a student until he has been officially admitted to graduate study. A student enrolled at Moorhead who has 12 quarter hours or less to complete for graduation with the bachelor's degree, however, may apply to the Graduate Council for permission to take courses for graduate credit for the balance of his normal load; and the graduate credit will be recorded upon evidence of successful completion of the bachelor's degree.

Admission to graduate study does not mean admission to candidacy for the master's degree.

ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE

By the time a student has completed approximately 15 quarter hours of graduate credit (including transfer graduate credit if any) he may obtain the application form for admission to candidacy for the master's degree in the graduate office and fill it out in cooperation with his adviser, after which it is to be presented to the graduate office. The application is judged by the Graduate Council on the following bases:

1. That any undergraduate deficiencies have been removed.
2. That the student has taken the required graduate examinations, results of which are used for guidance purposes.
3. That the student has evidenced personal and professional fitness as well as ability to do satisfactory work at the graduate level.
4. That he submit on the application form a satisfactory program of study approved by his adviser.

Students who intend to take the degree who delay applying beyond the time of completion of 15 hours may be required to take more than the minimum of 45 hours.

ADVISER AND ADVISORY COMMITTEE

Upon being admitted to graduate study, whether or not he intends to qualify for the degree, a student is assigned an adviser by the director of graduate studies. The adviser, usually from the faculty of the student's major field, assists him in formulating a program on the basis of the student's academic and professional background, experience, and future plans. He encourages the early removal of deficiencies, and recommends a balance of courses to satisfy the three parts of the "basic design." If the adviser is for any reason no longer able to serve, the director of graduate studies assigns a new adviser after consultation with the head of the department concerned.

Advisory Committee. If the student does not apply for candidacy for the degree, he stays with the same adviser as long as he continues in school. If, however, he is admitted to candidacy, his adviser becomes chairman of his advisory committee. The Graduate Council names the second member of the committee from another area of the "basic design" and considers and often accepts the nomination of the student for the third member of the committee, ordinarily to represent the third area of the "basic design." If the student's major is in a secondary field, a fourth member will be chosen for the committee, from the student's major field.

This advisory committee advises the student in meeting his graduation requirements, supervises and evaluates the student's independent study project, and serves as the examining committee at the time final comprehensive examinations are given.

REQUIREMENTS FOR THE MASTER'S DEGREE

1. The student must have been approved for candidacy not later than the term preceding the term during which he expects to graduate.
2. He must have filed his application for graduation at least 30 days before the date of graduation.
3. He must have completed a minimum of 45 quarter hours of graduate courses, of which not less than 15 hours are numbered at the 500 level (courses open to graduate students only).
4. He must have had a minimum of three quarters in residence at Moorhead State College.
5. He must have maintained a B average. No grade below C may be accepted for graduate credit.
6. He must have earned all credits used in meeting degree requirements within seven years of the date of awarding the degree.
7. He must have demonstrated his ability to do individual, independent work of a creative and/or investigative type on a specific problem related to his major teaching field. This will include the location, collection, evaluation, and application of relevant materials to a problem chosen cooperatively by the student and his adviser or advisory committee. This is known as his independent study project, and he may earn from two to six hours of credit for it by enrolling for the proper 599 course in his major department. Three typed copies of this project bound in heavy paper cover must have been sent to the graduate office at least ten days before the date of graduation.
8. He must have passed a satisfactory final written examination of a comprehensive character and a satisfactory oral examination.
9. He must have been enrolled for graduate credit during the quarter in which he completes his requirements for graduation.
10. (If a major in elementary administration) He must present evidence of at least one year of satisfactory elementary teaching experience.

ACCEPTANCE OF TRANSFER GRADUATE CREDIT

A total of nine hours of graduate credit of B grade or better may be accepted from other institutions of recognized rank, provided the courses in question are appropriate to the student's total program at Moorhead State College as judged by the Graduate Council. Transcripts of such graduate credits should accompany the initial application for admission to graduate study.

SCHEDULING OF GRADUATE COURSES

Several graduate courses are offered at various times of the year, with a particularly large offering in the two summer sessions. During the regular year most of the graduate courses offered are offered on campus during evenings and Saturdays, with a few in the daytime. Those who are well along in their graduate program may enroll for credit in connection with their independent study project in any term.

Courses bearing the 400g designation are ordinarily offered also as 400 for undergraduates. Additional assignments or projects will be required of graduate students taking these courses. Graduate credit will not be allowed for any of these courses which a student has taken on the undergraduate level. 500 courses are open only to graduate students.

TUITION AND FEES IN THE GRADUATE PROGRAM

All who are enrolled for graduate credit, whether or not they intend to qualify for the master's degree, pay the following tuition fees:

- A. In each quarter of the regular year:
 - Minnesota residents — Per credit hour \$ 5.00
 - Non-residents — Per credit hour \$ 7.50
- B. In each of the two summer sessions:
 - Minnesota residents or non-residents — Per credit hour \$ 7.50
- Student Activity Fee (Full-time student):
 - Fall, Winter, or Spring Quarter \$10.00
 - Summer, per session \$ 5.00

GRADING IN THE GRADUATE PROGRAM

All work carried for credit is assigned grades. Grades and grade points are as follows:

Grade	Description	Grade Points Per Hour
A	Excellent	4
B	Above average	3
C	Average	2
D	(Not acceptable in master's program)	1
F	Failing	0
W	Withdrawal	0
I	Incomplete	0

An incomplete, given when illness or other comparable circumstances beyond the control of the student prevents completion of the course at the term end, must be made up by the end of the next quarter in which a student is registered, or a failure is recorded. The one exception to this rule is that any 599 course (The Independent Study) may be carried over as incomplete from term to term until it is completed.

Any course may be repeated, but credit is granted only once. The last grade received is used in computing grade point averages.

The grade point average required in the master's degree program is 3. Credits with a grade below C are not acceptable in this program, but grade points for D and F grades are counted in determining the grade point average.

GRADUATE PAPERS

Graduate papers in all classes, as well as the independent study, are to be prepared in accordance with instructions given in **A Handbook of Style for Graduate Papers**. This handbook is on sale at the College Bookstore, and it is expected that every graduate student will provide himself with a copy.

Papers other than the independent study should be prepared in two finished copies so that the instructor may return one copy to the student and retain the other for the central file of graduate papers.

STUDENT HOUSING

Dormitories

The college is now in the position to house most students not living at home in modern dormitories which are as fine as the best college housing. Each dormitory operates under a constitution that provides for a system of student government to plan and direct the various social and recreational activities. This student government involves the responsibility for developing and maintaining the standards and regulations under which each dormitory operates.

Women's Dormitory

Dahl Hall, built to accommodate about 300 women, was opened for the first time in the fall of 1958. The building incorporates ideas and arrangements which have proven to be the best possible in dormitories for women. Each room is designed to house two women and features built-in beds, dressers, wardrobes and desks. Students furnish linen, towels and personal or decorative items. Draperies, blankets, mattress pads and pillows are furnished by the College.

The lowest floor contains several functional areas such as a laundry for each wing, sewing rooms and a small dining area with a breakfast kitchen. Recreation and hobby rooms help make this floor a center for a wide variety of individual and group activities.

Men's Dormitory

Ballard Hall is designed to accommodate approximately 200 students. Modern in design, it features a choice of single or double rooms. Rooms are furnished with draperies, lamps, blankets, mattress pads and pillows. Students furnish linen and are responsible for the daily maintenance of their rooms.

Ballard Hall has a spacious lounge for entertaining guests and relaxation. In addition, each corridor of this dormitory has a small

living room. A laundry room with automatic washers and dryer is provided for the use of residents. Ballard recreation room, in the basement, provides facilities for various types of informal recreation.

Reserving a Dormitory Room

Application blanks for reserving dormitory rooms may be obtained from the Dean of Students Office. To reserve a room a student must complete the application and return it with the required \$5.00 deposit. The deposit will be refunded, if the reservation is cancelled not later than ten days before the registration of the quarter for which the room was reserved. Accommodations for dormitory facilities include both room and board.

The State College Board requires all unmarried college students to live in college dormitories as far as the facilities permit. The following regulations apply in general.

1. Local and commuting students in the immediate area may live at home.
2. Out-of-town students may secure permission to live in the Fargo-Moorhead area with responsible relatives.
3. Students may live in housing which constitutes part payment for their services, provided that job and the housing have been approved by the college.

Students who live off-campus are under the same contract obligations and standards as students living in the dormitories. Changes of housing are to be reported to the Dean of Students Office and, except for urgent cases, are to be made only at the end of the quarter. Rooms are assigned for the three-quarter school year. Students are not permitted to withdraw from the dormitory within the school year except for graduation, withdrawal from college, illness or other exceptional situations upon approval of the Dean of Students and the Business Manager.

Married Student Housing

The college has a limited number of units for married students. Priority for these units is given to families with children. Because of the demand, there is usually a waiting period of one year after enrolling in college before a unit can be secured. The Dean of Students may be contacted for further information.

Food Service

The college dining room, located in Comstock Hall, serves meals to all men and women residents of the dormitories. It is also open to all off-campus students and faculty on a full board or per meal basis.

COURSE DESCRIPTIONS

AMERICAN STUDIES

480g. SEMINAR IN AMERICAN CIVILIZATION: PURITANISM.—The contributions of Puritanism to American culture. Readings in social history and literature from original sources and classic analyses. Three hours.

481g. SEMINAR IN AMERICAN CIVILIZATION: AGRARIANISM.—The Agrarian tradition in America, thought and literature. Three hours.

482g. SEMINAR IN AMERICAN CIVILIZATION: INDUSTRIALISM.—The impact of industrialism on American culture. Three hours.

ART

Note: Prerequisite to 500 courses in art is 24 quarter hours of recognized courses in art (see department head), except that Art 540 may be taken by elementary education majors.

540. CURRENT PRACTICES IN ART EDUCATION. Development of a philosophy; basic readings; city and state courses of study. Three hours.

550. ART PROBLEMS. Concentrated study in one of eight special areas. Three hours.

580. SEMINAR IN ART. Critical investigation of books and materials of value to the art teacher. Three hours.

599. THE INDEPENDENT STUDY IN ART. Two to six hours.

BUSINESS EDUCATION

ACCTG. 400g. ADVANCED ACCOUNTING.—Special accounting problems dealing with partnerships and ventures, consignments, installment sales, insurance, receiverships and liquidations, estates and trust, and branch accounting. Prerequisite: Accounting 331. Four hours.

ACCTG. 450g. FEDERAL AND STATE TAX I.—Federal and State Income Tax Laws as applied to Individuals and Partnerships. Prerequisite: Accounting 331. Four hours.

ACCTG. 451g. FEDERAL AND STATE TAX II.—Federal and State Income Tax Laws as applied to Corporations. Other special Federal and State taxes applied to individuals, partnerships, and corporations. Prerequisite: Accounting 400. Four hours.

ECON. 415g. GOVERNMENT AND BUSINESS.—Growth of modern business organizations and resultant governmental regulations. Prerequisite: Twelve hours of economics. Four hours.

ECON. 416g. LABOR PROBLEMS.—Problems of organized labor and labor economics. Four hours.

ECON. 420g. COMPARATIVE ECONOMIC SYSTEMS.—A discussion of communism, fascism, capitalism, and socialism; a study of the psychological roots of totalitarianism and democracy. Prerequisite: Economics 210 or social studies sequence. Four hours.

EDUCATION

Note: Prerequisite to all graduate courses in education is 24 quarter hours of recognized undergraduate courses in professional education (see Dean of Education).

SP. ED. 416g. MENTAL RETARDATION.—Includes incidence and description of mental retardation. Methods of diagnosis and educational organization. Three hours.

SP. ED. 420g. THE EXCEPTIONAL CHILD.—An introductory course in the recognition, incidence, and needs of children with physical, mental, or psychological handicaps. Three hours.

ED. 430g. SUPERVISION IN THE ELEMENTARY SCHOOL.—For elementary school principals. Principles and practices in democratic, educational leadership. Four hours.

A. V. ED. 445g. PREPARATION OF AUDIO-VISUAL MATERIALS.—Basic techniques for preparation of inexpensive instructional materials. Laboratory experience. Three hours.

ED. 456g. SEMINAR IN SUPERVISION OF STUDENT TEACHING.—Methods and procedures for effective supervision of student teachers. Prerequisites: teaching experience and consent of instructor. Credit arranged. Maximum two hours.

ED. 492g. ADMINISTRATION OF THE ELEMENTARY SCHOOL.—Administrative responsibilities, procedures, and problems. Four hours.

ED. 501. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION.—Schools and systems of psychology; principles underlying learning and instruction. Three hours.

ED. 503. RESEARCH AND STATISTICS.—Criteria for independent study, research methods, evaluation, statistical procedures. Three hours.

ED. 504. THE SCHOOL AND SOCIETY.—History and development of social cultures in America; relationship between social structure and the school. Three hours.

ED. 511. THE SCHOOL AND THE INDIVIDUAL.—Counseling, personnel work, group and individual guidance, guidance program in the elementary and secondary school. Three hours.

ED. 512. STUDY OF THE INDIVIDUAL.—Case study methods, practical application, laboratory experience. Three hours.

ED. 515. PUPIL ACCOUNTING IN ELEMENTARY SCHOOLS.—School census, attendance records, and reports. Three hours.

ED. 540. STUDIES AFFECTING ELEMENTARY EDUCATION.—Survey of published research. Three hours.

ED. 541. SEMINAR IN ELEMENTARY SCHOOL TEACHING PROBLEMS.—Individual problems, problems common to the group. Admission upon approval of instructor. One to three hours.

ED. 542. ELEMENTARY SCHOOL CURRICULUM.—History, development, evaluation and revision of the curriculum. Three hours.

ED. 545. DIAGNOSTIC AND REMEDIAL PROCEDURES IN READING.—Advanced study of reading difficulties. Three hours.

ED. 546. CLINICAL PRACTICE IN DIAGNOSTIC AND REMEDIAL READING.—Individual case studies. Prerequisites: Ed. 545 and consent of instructor. Two hours.

ED. 550. SCHOOL LAW.—Legal relationships of the schools to state and federal government; school and church; school district organization and control; authority, procedure, and liability of school officers; law relating to school finance; legal relationships of the school to teachers and pupils. Three hours.

ED. 574. MEASUREMENT OF INTELLIGENCE.—Theory and practice in group and individual intelligence tests. Three hours.

ED. 575. CLINICAL PRACTICE IN ADMINISTRATION OF INDIVIDUAL INTELLIGENCE TESTS.—Practice with Wechsler-Bellevue and the Stanford-Binet Tests. Three hours.

ED. 590. SEMINAR IN ADMINISTRATION AND SUPERVISION IN THE ELEMENTARY SCHOOL.—Three hours.

ED. 599. THE INDEPENDENT STUDY IN ELEMENTARY EDUCATION.—Major study in chosen problem area. Open only to candidates for the master's degree. Project must be approved by the student's advisory committee. Two to six hours.

ENGLISH

418g. **WORLD LITERATURE II.**—The Hebraic-Christian Tradition. Study of selected portions of Old and New Testaments with emphasis upon the various types of literature; survey of influence of the King James Bible upon English and American thought. Three hours.

420g. **CHAUCER.**—A study of Chaucer against the background of earlier English literature; Chaucer's early poetry; and a critical reading of the Canterbury Tales. Three hours.

422g. **SHAKESPEARE.**—The great tragedies and the problem plays. (English 206 recommended as a prerequisite.) Four hours.

424g. **MILTON AND SPENSER.**—Studies in the English epic. Four hours.

428g. **DEVELOPMENT OF THE NOVEL.**—Emphasis on its Eighteenth Century beginnings in England. Four hours.

(Note: Prerequisite to all 500 courses in English is 24 hours of recognized undergraduate courses in English (see department head).

513. **STUDIES IN AMERICAN LITERATURE.**—Proper perspective of the literature of the United States through a study of representative writers. Three hours.

518. **CLASSICISM AND HUMANISM IN THE RENAISSANCE.**—Impact of new and classical learning on Western Europe in the 15th and 16th centuries, Neo-Platonism, Humanism, and Christian-Humanism. Three hours.

522. **STUDIES IN SHAKESPEARE.**—Classical and medieval sources of Shakespeare's ideas as seen particularly in the great tragedies; universality of ideas. Three hours.

524. **SCIENCE AND RELIGION IN LITERATURE.**—Conflicts between science and religion as reflected in literature, 17th to 20th centuries. Three hours.

525. **RATIONALISM AND LITERATURE.**—Study of the influence of rationalism in the 17th and 18th centuries. Three hours.

530. **THE INDIVIDUAL AND SOCIETY.**—Changing concepts of the individual and his place in the world, the literature of the immediate past (chiefly 19th century). Three hours.

540. **PROBLEMS IN SECONDARY SCHOOL ENGLISH.**—Individual and class problems. Three hours.

560. **STUDIES IN TWENTIETH CENTURY PROSE.**—Contemporary prose, its relationships to current social, psychological, and philosophical trends. Three hours.

561. **STUDIES IN TWENTIETH CENTURY POETRY AND DRAMA.**—Contemporary drama and poetry, relationship of poet, audience, and culture. Three hours.

599. **THE INDEPENDENT STUDY IN ENGLISH.**—Two to six hours.

GEOGRAPHY

410g. **REGIONAL GEOGRAPHY.**—Regional approach to countries of the world, global relations, and geo-politics. Three hours.

411g. **THE GEOGRAPHIC FACTOR IN CULTURAL DEVELOPMENT.**—Role of Geography in development of cultures. Three hours.

422g. **CONSERVATION POLICIES.**—Importance of natural resources; conservation programs. Three hours.

(Note: Prerequisite to all 500 courses in Geography is 24 quarter hours of recognized undergraduate courses in Geography (see department head), except that Geog. 540 may be taken by elementary education majors.

502. **CLIMATOLOGY.**—Types of climate, distribution, climate control. Three hours.

520. **HISTORICAL GEOGRAPHY OF THE UNITED STATES.**—Important periods in American history in relationship to the geographical setting, study of original documents, maps and charts. Three hours.

540. **PROBLEMS IN GEOGRAPHY EDUCATION.**—Objectives, materials, procedures in teaching geography in the elementary and secondary schools, individual problems and projects. Three hours.

HEALTH, PHYSICAL EDUCATION AND RECREATION

H. 465g. **ORGANIZATION AND ADMINISTRATION OF SCHOOL HEALTH EDUCATION.**—The health program in grades one to twelve. Policies, precedures, and administration.

Note: Prerequisite to 500 courses in health, physical education, and recreation is 24 quarter hours of recognized undergraduate courses in these areas (see department head), except that the 540 courses may be taken by elementary education majors.

H. 540. **PROBLEMS IN HEALTH EDUCATION.**—The problems, issues, and trends in teaching health.

H. 565. **COORDINATION OF SCHOOL HEALTH EDUCATION.**—The health program in terms of guidance, coordination, administration, and evaluation. Three hours.

H. 599. **THE INDEPENDENT STUDY IN HEALTH.** Two to six hours.

P.E. 505. **PHYSICAL EDUCATION IN THE MODERN SCHOOL.**—History and philosophy of physical education. Three hours.

P.E. 540. **PROBLEMS IN PHYSICAL EDUCATION.**—Study of individual problems and of problems common to groups. Three hours.

P.E. 574. **TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION.**—Standardized tests, test construction and administration. Three hours.

P.E. 599. **THE INDEPENDENT STUDY IN PHYSICAL EDUCATION.**—Two to six hours.

REC. 540. **PROBLEMS IN RECREATION.**—Individual projects: problems common to the group. Three hours.

REC. 599. **THE INDEPENDENT STUDY IN RECREATION.**—Two to six hours.

INDUSTRIAL ARTS

Note: Prerequisite to graduate courses in industrial arts is a recognized undergraduate major in industrial arts (see department head), except that I.A. 542 may be taken by elementary education majors.

441g. **TESTS AND EVALUATION IN INDUSTRIAL ARTS SUBJECTS.**—Study and application of principles of evaluation to shop and drawing subjects to improve the instructional program. Three hours.

460g. **GENERAL SHOP ADMINISTRATION.**—Special problems involved in organizing and teaching industrial arts in the general shop. Types of equipment, selection of educational areas, objectives, layout of shop, organization of subject matter, and personnel organization. Three hours.

501. **HISTORY AND PHILOSOPHY OF INDUSTRIAL ARTS EDUCATION.**—The history of handwork instruction and the developments leading to the industrial arts program. A consideration of various points of view necessary to form a workable philosophy. Three hours.

502. **TRENDS AND DEVELOPMENTS IN INDUSTRIAL ARTS EDUCATION.**—A course to develop knowledge and appreciation of changing concepts and achievements. Three hours.

503. LITERATURE OF INDUSTRIAL ARTS EDUCATION.—Survey of periodicals, books, bulletins, and special material from the field of Industrial Arts. Locating materials through bibliographies, library services, etc. Three hours.

542. CURRICULUM PLANNING IN INDUSTRIAL ARTS EDUCATION.—Courses of study and broad general curriculums. Techniques for scientific analysis of industry, the community, and the nation as a basis for courses of study and the curriculum for one-shop schools, multi-shop schools, and community programs. Three hours.

590. ADMINISTRATION, ORGANIZATION, AND SUPERVISION OF THE INDUSTRIAL ARTS PROGRAM.—Open to superintendents, principals, supervisors, and teachers. Objectives, programs, practices, laws, rulings, standards, and certification will be considered. Three hours.

599. THE INDEPENDENT STUDY IN INDUSTRIAL ARTS EDUCATION.—Two to six hours.

LIBRARY SCIENCE

501. HISTORY OF BOOKS AND PRINTING.—The history of books and printing from ancient times to the modern era. Emphasis is on the social, technical, and aesthetic aspects. Three hours.

JOURNALISM

485g. INTERPRETING SCHOOLS TO THE PUBLIC.—News writing for teachers; organization of school publicity. Same as Education 485g. Three hours.

MATHEMATICS

Note: Prerequisite to all graduate courses in mathematics is 24 hours of recognized undergraduate courses in mathematics (see head of department).

401g. FOUNDATIONS OF MATHEMATICS.—A general introduction to the nature of mathematical knowledge and truth; illustrations including non-Euclidean geometries and novel kinds of arithmetic, and in particular showing the dependence of mathematical facts on agreements in the form of postulates, definitions, and methods of reasoning. Also an elementary analysis of logical reasoning showing the significance of logical structure in both mathematical thought and scientific thought. Three hours.

402g. FOUNDATIONS OF ALGEBRA.—Foundations of mathematics and of concepts that are basic to mathematical knowledge. Acquaintance with the common collections of axioms, with the mathematical method and with the nature and use of mathematical systems and models; the real number system and the fundamental concept of set theory. Three hours.

403g. FOUNDATIONS OF ARITHMETIC.—Presents arithmetic as a system of thought and includes numbers and sets, a consideration of basic number operations with emphasis on the formal logic underlying them and a study of number structure. The role of mathematics in culture. Three hours.

410g. MODERN MATHEMATICS.—Introduction to a number of areas in modern mathematics. Four hours.

412g. ADVANCED CALCULUS.—Three hours.

420g. FOUNDATIONS OF GEOMETRY.—A course in the foundations of geometry along with an introduction to projective and non-Euclidean geometries. Prerequisite: Modern mathematics course or consent of instructor. Three hours.

421g. MODERN ALGEBRA.—Number theory and proof, equivalence and congruence, Boolean algebra, groups, matrices, linear systems, determinants, fields, rings. Prerequisite: Modern mathematics course or consent of instructor. Three hours.

441g. SEMINAR IN SECONDARY SCHOOL MATHEMATICS.—Three hours.

500. HISTORY OF MATHEMATICS.—Topical survey of important branches; evaluation of mathematics. Three hours.

540. PROBLEMS OF SECONDARY SCHOOL MATHEMATICS.—Development of the curriculum; problems of teaching newer aspects of mathematics. Three hours.

599. THE INDEPENDENT STUDY IN MATHEMATICS.—Two to six hours.

MUSIC

Note: Prerequisite to graduate courses in music is 24 hours of recognized undergraduate courses in music (see department head) except that Music 540 may be taken by elementary education majors.

510. DESIGN AND STYLE IN MUSIC.—The principal forms of musical design from Bach to the present. Three hours.

513. ADVANCED COUNTERPOINT.—Modern development of free counterpoint, analysis of musical literature. Three hours.

520. ADVANCED DICTATION AND SIGHT SINGING.—Development of skills in reading complex rhythms at sight. Three hours.

540. PROBLEMS IN TEACHING AND SUPERVISING.—Advanced course in curricular plans and materials. Three hours.

550, 555, 560, 565. PRIVATE INSTRUCTION FOR THE ADVANCED STUDENT IN PIANO, ORGAN, VOICE, OR INSTRUMENT.—One hour each.

571. HISTORY AND APPRECIATION OF MODERN MUSIC.—Three hours.

599. THE INDEPENDENT STUDY IN MUSIC.—Two to six hours.

PSYCHOLOGY

510. COMPARATIVE PERSONALITY THEORIES.—Three hours.

SCIENCE

Note: Prerequisite to graduate courses in science is 24 hours of recognized undergraduate courses in science (see department head), except that G. Sci. 401g may be elected by others.

G. SCI. 401g. PHILOSOPHY OF MODERN SCIENCE.—Study and analysis of the objective, systematic, and critical thinking in modern science. Three hours.

G. SCI. 540. SCIENCE IN THE SECONDARY SCHOOL.—Objectives, methods, materials, evaluation. Three hours.

G. SCI. 599. THE INDEPENDENT STUDY IN SCIENCE. Two to six hours.

BIOL. 403g. ADVANCED STUDY OF PLANT PHYSIOLOGY.—Three hours.

BIOL. 402g. VERTEBRATE EMBRYOLOGY.—Animal development from the egg to adult, emphasis on bird and mammal. Four hours.

BIOL. 410g. ANIMAL PARASITES.—Parasite forms and problems. Four hours.

BIOL. 413g. CYTOLOGY.—A study of the characteristics and basic physiology of representative animal and plant cells. Prerequisite: Biology 211, 212, 213 and Biology 221, 222, 223. Four hours.

BIOL. 414g. MICROSCOPIC ANATOMY.—Animal cells, tissues, and organs at various levels of organization and function. Four hours.

BIOL. 416g. ADVANCED ECOLOGY.—Animal communities in this region. Four hours.

BIOL. 501. FOUNDATIONS OF MODERN BIOLOGICAL SCIENCE.—Developmental approach to modern biological science. Three hours.

PHYS. 401g. ATOMIC AND NUCLEAR PHYSICS.—(a) The extra-nuclear structure and properties of the atom; theory of atomic and molecular spectra; wave concept of matter; photoelectric effect; X-rays. (b) properties of the nucleus; radioactivity; nuclear particles; nuclear reactions; fission and fusion; cosmic rays. Prerequisite: Physics 218, 219, 220; differential and integral calculus. Four hours.

PHYS. 501. FOUNDATIONS OF MODERN PHYSICAL SCIENCE.—A study of the development of physical concepts and theories and of contemporary physical research. Prerequisite: Permission of instructor. Three hours.

CHEM. 425g. MODERN CHEMISTRY II (T.V. CONTINENTAL CLASSROOM).—The study of the fundamental principles of electrochemistry, oxidation reduction reactions, radio chemistry, metals and non-metals, and basic bio-chemistry. Prerequisite: Chemistry 325, Modern Chemistry I (T.V. Continental Classroom) or equivalent. Three hours.

CHEM. 512. ADVANCED ORGANIC CHEMISTRY.—A discussion of reaction mechanisms. Prerequisite: Chemistry 320, 321, 322. Three hours.

SOCIAL STUDIES

ECON. 415g. GOVERNMENT AND BUSINESS.—Growth of modern business organizations and resultant governmental regulations. Prerequisite: Twelve hours of economics. Four hours. On request.

ECON. 416g. LABOR PROBLEMS.—Problems of organized labor and labor economics. Four hours.

ECON. 420g. COMPARATIVE ECONOMIC SYSTEMS.—A discussion of communism, fascism, capitalism, and socialism; a study of the psychological roots of totalitarianism and democracy. Prerequisite: Economics 210 or social studies sequence. Four hours.

ECON. 425g. INTERNATIONAL ECONOMIC RELATIONS.—Exchange and trade, economic analysis, commercial policy. Prerequisite: Twelve hours of economics, and Money and Banking. Three hours.

HIST. 414g. LATIN AMERICA.—The conquistadors and the colonial era, revolution and republicanism, life and cultural traditions of our Latin neighbors. Latin American problems of today. Three hours.

HIST. 417g. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES.—Study of social conditions and their impact on intellectual activities during certain periods in American history. Prerequisite: History, 212, 213, 214 or consent of instructor. Three hours.

HIST. 427g. INTELLECTUAL HISTORY OF MODERN EUROPE.—An analysis of democratic thought in Europe from the Renaissance to the present, as well as a study of the changes in the social and economic field. Prerequisite: Twelve hours of European history. Four hours.

HIST. 457g. ENGLISH HISTORY I.—An intensive study of the Tudor and Stuart period, 1495-1714. It includes the development of Parliament, the controversy over religion, and the foundation of the British Empire. Three hours.

HIST. 458g. ENGLISH HISTORY II.—A study of the post-Stuart period, 1715-1931, treating the issue of the control of Parliament (the suffrage question), the economic growth of Great Britain, the development of the empire to the Statute of Westminster, and the social changes during this period. Three hours.

HIST. 461g. CANADIAN HISTORY.—Discovery and exploration; period of British rule and the Dominion; British North American Act and the development of the commonwealth idea. Course terminates with end of World War II. Prerequisite: Background in European and American History. Four hours.

HIST. 465g. RUSSIAN HISTORY.—A study of the development of Russia from the Kievan state in the 10th century to the present. Four hours.

HIST. 470g. HISTORY OF THE MIDDLE EAST.—A study of the area of the Middle East, including part of North Africa and Turkey, from the Byzantine Empire to the present. Three hours.

HIST. 560. STUDIES IN AMERICAN HISTORY.—Directed readings and discussion on particular problems in American history agreed upon by the instructor and the student. Prerequisite: a minor in history or in social studies. Three hours.

HIST. 561. STUDIES IN EUROPEAN HISTORY.—Directed readings and discussions on problems in European history agreed upon by the instructor and the student. Prerequisite: a minor in history or in social studies. Three hours.

POL. S. 410g. CONSTITUTIONAL LAW.—Interpretation of the Constitution of the United States by federal courts. Prerequisite: Twenty hours of political science, economics, and history, including at least six hours of American history. Four hours.

POL. S. 420g. AMERICAN DIPLOMACY BEFORE THE TWENTIETH CENTURY.—A history of the foreign policy of the United States from the beginning of the nation until the war with Spain. Prerequisite: Political Science 210 and 300, or permission of the instructor. Three hours.

POL. S. 421g. AMERICAN DIPLOMACY DURING THE TWENTIETH CENTURY.—A history of the foreign policy of the United States from the war with Spain until the present. Prerequisite: Political Science 210 and 300, or permission of the instructor. Three hours.

POL. S. 430g. HISTORY OF POLITICAL THOUGHT.—Political thought of writers from ancient times to the French Revolution. Prerequisite: 12 hours of political science. Three hours. On request.

POL. S. 560. STUDIES IN POLITICAL SCIENCE.—Directed readings and discussions in political science in an area agreed upon by the instructor and the student. Prerequisite: a minor in political science or in social studies. Three hours.

S. ST. 540. PROBLEMS IN SOCIAL STUDIES.—Individual problems and problems common to the group. Three hours.

S. ST. 550. THE SCOPE, METHOD, AND VALIDITY OF THE SOCIAL SCIENCES.—Designed to orient and delimit the place of the social sciences. It will examine theory, method and grounds of the basic social sciences; test basic assumptions and question their validity; and deal with the epistemology of the social sciences. Prerequisite: A minor in social studies. Three hours.

S. ST. 599. THE INDEPENDENT STUDY IN SOCIAL STUDIES.—Two to six hours.

SOC. 400g. COMMUNITY ORGANIZATIONS AND RELATIONSHIPS.—Resources and population, organized group activity, relationship of the individual to community organization. Three hours.

SOC. 560. STUDIES IN SOCIOLOGY.—Directed readings and discussion in the field agreed upon by the instructor and the student. Prerequisite: A minor in sociology or in social studies. Three hours.

SPEECH

Note: Prerequisite to graduate courses in speech is 24 hours of recognized undergraduate courses in speech (see department head), except that Sp. 540 may be taken by elementary education majors.

520. SEMINAR IN PERSUASION.—Individual projects, theories of persuasion and audience psychology. Three hours.

540. PROBLEMS IN SPEECH EDUCATION.—An examination of the problems involved in the development of speech programs. Three hours

545. ADVANCED SPEECH CORRECTION.—Intensive study in a chosen area of speech pathology. Three hours.

599. THE INDIVIDUAL STUDY IN SPEECH EDUCATION.— Two to six hours.

