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GRADUATE PROGRAM
1956
CONTENTS

STATE BOARD OF EDUCATION

OFFICERS OF ADMINISTRATION

GRADUATE COUNCIL

FOREWORD

ADMINISTRATION OF THE GRADUATE PROGRAM

ADMISSION TO GRADUATE STUDY

ADMISSION TO CANDIDACY FOR A DEGREE

REQUIREMENTS FOR THE MASTER'S DEGREE
  Academic Requirements
  Residence Requirements
  Examination Requirements
  Thesis Requirements

STUDENT ADVISORY PLAN

GRADES

TIME LIMIT

MAJOR AND MINOR FIELDS

EVENING AND SATURDAY MORNING GRADUATE CLASSES

GRADUATE OFFERING

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This bulletin has been prepared to give information about the new program of graduate studies leading to the Master's Degree at Madison College, which was inaugurated with the beginning of the 1954-55 session. Teachers holding the bachelor's degree have been seeking the opportunity, in increasing numbers, to pursue advanced professional studies and to secure the master's degree as evidence of more thorough preparation for instructional and administrative duties and of eligibility for better salary rating.

Many graduates of liberal arts colleges, now teaching in the public schools, desire to qualify for the Collegiate Professional Certificate that they, too, may become more effective teachers. They are aware that such additional studies may lead to a graduate degree; and since the work may be done in summer and evening courses, they are requesting that the opportunity be made available to them.

Basic to any graduate program are a qualified corps of instructors, a library adequate to support research, and ample facilities for laboratory work and observation. On the basis of these criteria, Madison College is prepared to offer a graduate program of high quality.

The members of the Madison faculty participating in the graduate program are exceptionally well qualified, nearly all of whom hold a doctor's degree and have experience in research and administration.

The book and periodical collection of the Madison Memorial Library has been carefully selected to enrich the educational program of the College. The collection is outstanding in the field of education and psychology (including human growth and development) and is strong in the fields of English, American history, and the professional areas of science education, business education, home economics, music education, and physical and health education. Standard works in the humanities, the social sciences, and the natural sciences are available. The bound files of periodicals are adequate to support research at the master's degree level. Facilities for the use of the micro-film are provided and inter-library loan arrangements with scholarly libraries of the region quickly bring to the campus the uncommon items needed by graduate students. A staff of four librarians regularly assist students in their bibliographical research.

Facilities for the laboratory sciences in Burruss Science Hall, completed in 1953, are ample for advanced study in biology, chemistry, and physics. The standard office machines needed for the study of business education are available in the Business Education Department. The Speech and Hearing Clinic, the Reading Clinic, and Posture and Body Mechanics Clinic provide opportunities for practice and observation in these areas. A fuller description of the facilities of the College may be seen in the catalog of the regular session.

It is our hope that college graduates and others properly qualified to undertake graduate work will find in this bulletin the information they seek preparatory to entering upon a program of studies leading to the master's degree at Madison College. Further assistance may be had by writing directly to the Dean of the College.
THE
GRADUATE PROGRAM
OF
MADISON COLLEGE

AUTHORIZATION

Madison College was authorized by the State Board of Education at its meeting in March, 1954, to offer the degrees of Master of Arts in Education and Master of Science in Education.

ADMINISTRATION

The Graduate Council of the College has the responsibility of formulating all policies and legislation affecting graduate curricula and work leading to graduate degrees. The Council has full power to make all necessary rules and regulations and to approve candidates for degrees, subject to conformity with policies of the State Board of Education.

The Dean of the College is chairman and the executive officer of the Graduate Council.

ADMISSION TO GRADUATE STUDY

The applicant must possess a bachelor's degree from a college regarded as standard by Madison College and by a recognized regional or national accrediting agency. Application forms for admission may be obtained from the Dean of the College, who serves as chairman of the Graduate Council. These forms should be completed and returned to the Dean before the opening of the term in which the applicant desires to enroll. Each applicant must also submit a transcript of his undergraduate record and of any graduate work completed. The applicant's record must be approved by the Graduate Council before he is admitted to graduate study. If the undergraduate record shows a deficiency in the proposed major or minor fields of study, the applicant must make up the deficiency by taking such additional courses as may be required by the Graduate Council. Such courses, if required, do not count for graduate credit. Admission to graduate study does not imply admission to candidacy for a degree.
STUDENT ADVISORY COMMITTEES

The Graduate Council in cooperation with the student and departments concerned, shall name a special Advisory Committee of three faculty members for each student working toward a degree. One member of this Committee will be selected from the faculty of the student's major department, one from the department in which the student is minoring, and the third from some other department of the College. The faculty member from the major department shall serve as chairman of the Advisory Committee. The Dean of the College is an ex officio member of all Advisory Committees. He, or someone designated by him, will serve as chairman for all oral examinations.

ADMISSION TO CANDIDACY FOR A DEGREE

In order to insure that the graduate degree represents a high quality of work, candidates for the degree will be selected carefully. The applicant shall not be admitted to candidacy for a degree until he has demonstrated sufficient aptitude for graduate work in courses taken at Madison and has passed a preliminary oral examination administered by the Student's Advisory Committee. The applicant may also be required to submit a transcript of his score on the Graduate Record Examination and other evidence to be used in evaluating his qualifications for graduate study. The Graduate Council makes the decision concerning whether or not the applicant will be admitted to candidacy for the degree.

REQUIREMENT FOR THE MASTER'S DEGREE

Academic Requirements. The candidate must complete (a) twenty-four semester hours of graduate work and submit a thesis, or (b) thirty semester hours of graduate work without a thesis, for the degree of Master of Arts in Education or the degree of Master of Science in Education, depending upon the concentration. It is understood that independent research will be required in all programs. The candidate must earn a grade of B or better in each course. At least forty percent of the courses included in the student's program shall be those designated as exclusively for graduate students. No graduate credit will be granted for work done in any course to which undergraduates are admitted unless the student is enrolled in that course as a graduate student.
At least eighteen semester hours of the student's work (or twelve semester hours and a thesis) shall be in the major field of concentration (one field or related fields) with at least nine semester hours in a minor field. Students whose special interests are in elementary education, however, may be permitted six semester hours in each of two related fields with the approval of the Graduate Council. Either the major or the minor must be in the field of education. If the applicant does not hold the Collegiate Professional Certificate, or its equivalent, he must obtain such a certificate before the degree is conferred.

Residence Requirements. A student must be in residence for at least one academic year or its equivalent in summer sessions before receiving the degree. A summer session of graduate study at another Virginia institution may be accepted toward the residence requirement at Madison.\(^1\) Evening or Saturday morning courses held on the campus will be counted in meeting residence requirements at Madison.

Examination Requirements. An oral comprehensive examination shall be passed satisfactorily by the candidate covering at least the field of concentration and the thesis, if a thesis is submitted.

A candidate who fails on the comprehensive examination may be permitted a re-examination at the discretion of the student's major department and the Graduate Council. A re-examination cannot be given sooner than the semester following the unsuccessful examination.

Thesis Requirements. A thesis of research character on a subject in the major field of interest and completed to the satisfaction of the student's advisory committee and the Graduate Council may be submitted in partial fulfillment of the requirements for the Master's Degree. Students who elect to write a thesis are required to complete 24 semester hours in course work.

Students who elect additional course work in lieu of a thesis must earn a total of thirty semester hours in graduate courses.

The Student's Advisory Committee must recommend the thesis subject and outline to the Graduate Council for approval at least three months prior to the time the degree is expected to be awarded.

The thesis shall consist of a written interpretation of a body of facts and opinions gained through critical reading and independent research. There must be an adequate analysis of the assembled data.

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\(^1\) Subject to approval of Southern Association of Colleges and Secondary Schools.
The thesis must be prepared according to the general requirements established by the Graduate Council and must be completed one month before the time of graduation to assure the Advisory Committee of its acceptability. Three unbound copies of the thesis must be filed with the Chairman of the Graduate Council not later than two weeks before the date of graduation.

CREDITS BY TRANSFER

A limited amount of transfer credit is accepted from other institutions.

SCHOLARSHIP REQUIREMENTS

The marks given in graduate courses are A, B+, B, C, and F. Graduate students must receive a mark of B or better in a course if it is to count in meeting requirements for a master's degree.

TIME LIMIT

A graduate student is expected to complete all requirements for the degree within six years from the time he begins his graduate study. The Graduate Council may, however, permit an extension of time because of extenuating circumstances.

MAJOR AND MINOR FIELDS

As the graduate program of the College develops, students will have the opportunity to minor in most of the following fields and to major in many of them: art, biology, business education, chemistry, education and psychology, English, foreign languages, geography, history, home economics, mathematics, music, physical and health education, physics, social science and sociology.
GRADUATE COURSES IN SUMMER SESSIONS

Beginning with the 1955 summer session graduate courses were offered in the intersession and in a six-week session which followed the intersession. Courses offered during the intersession have fifteen class meetings of two hours and forty minutes each and give three semester hours of credit. Graduate courses taught during the six-week session meet for one hour and twenty minutes, five days a week. Each course gives three semester hours of credit. By attending both the intersession and the summer session a student may earn a total of nine semester hours of credit.

By attending the intersession and six-week summer sessions and by taking evening classes at Madison College or extension classes during the regular sessions it is possible for a student to complete the work for a master's degree in two calendar years.

FEES

The charge for regularly enrolled graduate students carrying approximately a full load is at the rate of $8.75 per semester hour credit. For students taking graduate courses at the College as evening and Saturday morning classes, the charge is at the rate of $10.00 per semester hour credit. In addition thereto, laboratory and materials fees for certain courses may be established and collected at the same rates as for undergraduate courses. For non-Virginia students, the out-of-state tuition fee will be paid on a prorated basis.
REQUIREMENTS FOR MAJORS AND MINORS,
AND COURSE DESCRIPTIONS

The courses offered in each department participating in the graduate program are listed on the pages that follow. A few of the courses listed are taught in the evening during the winter session. A much more comprehensive offering is available in the summer. Courses with numbers from 100 to 200 are open to approved undergraduates. Courses numbered 200 and above are for graduate students only.

DEPARTMENT OF ART

Art 100. Art in the Modern World.
3 credits.

Development of architecture, painting, and sculpture in the nineteenth and twentieth centuries. Lecture course. Materials fee: $1.00.

Art 110. Studio Problems.
3 credits.

Individual research and experimentation in ceramics, crafts and mobile sculpture and other problems. Prerequisite: two courses of undergraduate work. Materials fee: $5.00.

Art 115. Painting.
3 credits.

Oil painting and or serigraphy with emphasis on composition, color and individual technique. Research in the twentieth century styles and execution. Prerequisite: two courses of undergraduate work. Materials fee: $5.00.
The graduate program of the Department of Biology has three aims: (1) to supplement the candidates subject matter background and to emphasize the impact of Biological principles on the economic and social problems of our times; (2) to give to the professional teacher an opportunity to learn techniques of value for actual classroom experience; (3) to introduce all students to research, the one fundamental method by which our knowledge progresses.

All students majoring in the department will be required to take at least one of the field courses i.e. Bio. 100, 110, 115-116. Major students engaged in teaching are urged to elect Bio. 120 and/or Bio. 127. The remainder of a major program should be selected from courses in the 200 series. It is strongly recommended that all majors elect to write a thesis.

Students minoring in Biology, should take at least one field course and Bio. 125 or 130.

**Bio. 100. Vertebrate Ecology.**

3 credits.

A course designed to acquaint students with the fundamental relationships existing between animals and their environment. Emphasis will be placed on the dynamic aspect of ecology and its importance to mankind. The laboratory will consist of group discussion sessions and selected field trips throughout the Shenandoah regions.

**Bio. 100. General Entomology.**

3 credits.

A laboratory and field study of the common insects, their morphology, life histories, and their relationship to plants, animals, and man. Collection, identification, and preservation of local insects by standard methods. Laboratory fee $6.00 per semester.

**Bio. 115-116. Invertebrate Zoology.**

3 credits.

A general survey of the Phyla of Invertebrates exclusive of the insects. Detailed morphology and physiology of type forms with considerable attention to classification. Extensive individual laboratory work. The first semester’s work is through the Platyhelminthes. Pre-requisite: Bio. 51-52. Laboratory fee $6.00 per semester.
Bio. 120. **Biology in the Secondary School.**

3 credits.

A course designed to help students with the problems related to instruction in secondary school biology. The role of the biology teacher in the school and the community will be explored. Methods, content selection, teaching aids, student-teacher planning and techniques of evaluation are to be investigated. Opportunity will be provided to place emphasis upon problems related to the specific teaching position.

Bio. 125. **Principles of Embryology.**

3 credits.

A comparative study of the developmental anatomy of the vertebrates with stress placed on the mammal. Selected experiments, using mammals, will be performed to illustrate certain basic aspects. Pre-requisite: Bio. 61-62. Laboratory fee $6.00.

Bio. 127. **Major Diseases of Man.**

3 credits.

This course offers instruction in sound attitudes and understandings about mental illness, cardio-vascular diseases, and cancer. Designed for teachers of health and physical education, home economics, and science, this course will stress control of disease in the community through cooperation with voluntary health agencies and local medical authorities. Study and review will be made of free and inexpensive publications and films developed by three voluntary health agencies. Opportunity will be provided for students to make a special study of disease control programs for their particular community.

Bio. 130. **Principles of Genetics.**

3 credits.

A study of the facts and principles of biological inheritance. Class discussions and experimental breeding of fruit-flies, corn, pumpkins, etc. Also collecting and analyzing cases of human inheritance. Laboratory fee $6.00.

Bio. 200. **Physiology of Respiration.**

3 credits.

A comparative study of breathing and respiration in selected invertebrates and vertebrates including man. Consideration will be given to the Emden-Meyerhoff and Kreb's cycles. Pre-requisite: Chem. 35-36.

3 credits.

The study and identification of tissues. Practical work in the mounting and staining of selected material. Laboratory fee $6.00.


3 credits.

A study of plant and animal cells with emphasis upon nucleus and cytoplasm. Also the preparation of materials for study which involves fixing, staining, and mounting. Laboratory fee $6.00.

Bio. 230. The Seed Plants.

3 credits.

The morphology and physiology of the Spermatophyta. Pre-requisite: Bio. 53-54 or equivalent. Laboratory fee $6.00.


3 credits.

A study of the meaning, value, and necessity of theories as they are related to man, the animal and plant worlds, and to nature in general. Illustrations showing how theories and progress are related.


3 credits.

A study of the effect of ionizing radiation on the organism. The nature and source of these radiations will be discussed as well as their effect and methods of protection against them. Pre-requisites: Bio. 27, Chem. 35, Physics 1-2 or Physics 9. Recommended antecedents: Chem. 38, Physics 37.


6 credits.

A thesis may be submitted in partial fulfillment for the requirement of the Master's Degree. It must be of research character on a subject in the major field of interest and completed to the satisfaction of the Student's Advisory Committee and the Graduate Council. The Student's Advisory Committee must recommend the thesis subject and outline to the Graduate Council for approval at least three months prior to the time the degree is expected to be awarded. The thesis must be completed one month before the time of graduation to assure the Advisory Committee of its acceptability.
DEPARTMENT OF BUSINESS AND
BUSINESS EDUCATION

The graduate program in the Department of Business and Business Education embraces three areas of concentration. The graduate student is expected to complete courses in each of the following three areas:

1. Improvement of Instruction.
2. Program Development and Business Background Courses.
3. Research.

In addition to the above three areas of concentration in business education, the graduate student will complete the appropriate number of semester hours for a minor or a major in education. The M.S. degree in Education is awarded upon the successful completion of the graduate program in business education.

BUSINESS AND BUSINESS EDUCATION

Graduate courses to be offered by the Department of Business and Business Education for graduate students and approved undergraduates at the next three Summer Sessions:

B. E. 120. IMPROVEMENT OF INSTRUCTION IN THE SOCIAL-BUSINESS SUBJECTS.

3 credits.

Techniques and procedures in the teaching of general business, business law, economics, economic geography, consumer business education and related subjects are studied. Unit lesson plans are developed. Open to graduate students and to approved undergraduate students.

B. E. 150. CURRICULUM CONSTRUCTION IN BUSINESS EDUCATION.

3 credits.

Principles, practices and problems in the evaluation and construction of business education curricula to meet the needs of youth and adults in a democratic society. Open to graduate students and to approved undergraduate students.

B. E. 250. RESEARCH TECHNIQUES IN BUSINESS EDUCATION.

3 credits.

Approved research procedures are examined. Statistical concepts for teachers, business workers, and school administrators are presented. Case applications to field problems applied to varied research techniques. Open to graduate students only.
DEPARTMENT OF CHEMISTRY

A graduate major or minor in chemistry should be built around the needs and interests of the student. A major in chemistry will consist of 18 semester hours of graduate work in chemistry (or in a related field) subject to the approval of the head of the department; and a minor in chemistry will consist of nine semester hours of graduate work in chemistry. The student plans his program with the help of the head of the department.

CHEM. 105. THEORETICAL CHEMISTRY.
3 credits.
This course deals with some of the fundamental concepts, laws, theories, and philosophies of chemistry. Considerable emphasis is placed on the practical applications of various chemical laws and concepts. To meet the interests and needs of the student work will be chosen from the areas of Physical Chemistry, Electrochemistry, and Thermodynamics. Laboratory fee: $6.00.

CHEM. 106. THEORETICAL CHEMISTRY.
3 credits.
A continuation of Chemistry 105. Laboratory fee: $6.00.

CHEM. 110. PHYSIOLOGICAL CHEMISTRY.
3 credits.
This course includes a study of foodstuffs, their digestion and metabolism, respiration, body secretions and excretions, the blood, urine, calorimetry, nutrition, endocrine organs, and vitamins. Laboratory fee: $6.00.

CHEM. 120. RECENT DEVELOPMENTS IN CHEMISTRY.
3 credits.
A study of recent developments in such areas of chemistry as solvents, metals and alloys, plastics, petrochemicals, silicones, nuclear chemistry, medicinals, rubber and synthetic polymers, paints, detergents, textiles, etc. The material will be selected and taught in such manner that it will be of especial interest and use to teachers of biology, chemistry, and general science.

CHEM. 130. ADVANCED ORGANIC PREPARATIONS.
3 credits.
Emphasis on advanced laboratory preparations and techniques. Considerable time is devoted to theories and mechanisms of reactions in organic chemistry. Laboratory fee: $6.00.

CHEM. 300. THESIS.
6 credits.
A thesis may be submitted in partial fulfillment of the requirements for the Master's Degree. It must be of research character on a subject in the major field of interest and completed to the satisfaction of the Student's Advisory Committee and the Graduate Council. The Student's Advisory Committee must recommend the thesis subject and the outline to the Graduate Council for approval at least three months prior to the time the degree is expected to be awarded. The thesis must be completed one month before the time of graduation to assure the Advisory Committee of its acceptability.
DEPARTMENT OF EDUCATION AND PSYCHOLOGY

MAJOR

The candidate for the Masters Degree who elects to major in education must successfully complete (a) twenty-four semester hours of work and submit a thesis, or (b) thirty semester hours of work without a thesis. The Department of Education and Psychology offers three areas of concentration: Human Growth and Development, Guidance, and Instruction. The pattern of course work required in each of these areas is described below:

I. Human Growth and Development

A. Required Courses
   1. Ed. 184. Human Growth and Development 3
   2. Ed. 118. Growth and Development During Childhood and Preadolescence 3
      or
      Ed. 128. The Adolescent Years 3
      or
      Ed. 130. Analysis of Individual and Group Behavior 3
      or
      Ed. 171. Human Relations in the Classroom 3
      or
      Ed. 167. Instruction 3
      or
      Ed. 191. The Elementary School Curriculum 3
      or
      Ed. 140. Basis of Curriculum Development 3

B. With Thesis
   Ed. 300. Master’s Thesis 6

C. Without Thesis
   Two electives from the following: 6

Ed. 101. Development of Modern Education 18
Ed. 102. Education as a Field of Study
Ed. 103. Philosophy of Education  
Ed. 105. The Role of the School in Society  
Ed. 125A. Teaching of a Subject Field: Language Arts  
Ed. 125C. Teaching of a Subject Field: Reading  
Ed. 160. Family and School Relationships  
Ed. 290. Reading and Research

II. Guidance  

A. Required Courses
   2. Ed. 137. Individual and Group Tests 3
      or
   3. Ed. 171. Human Relations in the Classroom 3
      or
   4. One of the following:
      a. Human Growth and Development 3
   
   Ed. 184. Human Growth and Development  
   or
   Ed. 118. Growth and Development During Childhood and Preadolescence  
   or
   Ed. 128. The Adolescent Years  
   or
   b. Instruction 3

   Ed. 112. Secondary School Curriculum and Co-Curriculum  
   or
   Ed. 140. Basis of Curriculum Development  
   or
   Ed. 167. Instruction  
   or
   Ed. 191. The Elementary School Curriculum

B. With Thesis  
   Ed. 300. Master's Thesis 6

C. Without Thesis  
   Two of the following: 6
Ed. 101. Development of Modern Education
Ed. 102. Education as a Field of Study
Ed. 103. Philosophy of Education
Ed. 105. The Role of the School in Society
Ed. 125A. Teaching of a Subject Field: Language Arts
Ed. 125C. Teaching of a Subject Field: Reading
Ed. 160. Family and School Relationships
Ed. 290. Reading and Research

III. Instruction

A. Required Courses

1. Ed. 167. Instruction 3
2. Ed. 112. Secondary School Curriculum and Co-Curriculum 3
   or Ed. 191. Elementary School Curriculum 3
3. Ed. 140. Basis of Curriculum Development 3
4. One of the following:
   a. Human Growth and Development 3

   Ed. 118. Growth and Development During Childhood and Preadolescence
   Ed. 128. The Adolescent Years
   Ed. 184. Human Growth and Development
   or
   b. Guidance 3

   Ed. 114. Mental Health in the Classroom
   Ed. 116. Theory and Practice of Guidance
   Ed. 130. Analysis of Individual and Group Behavior
   Ed. 137. Individual and Group Tests
   Ed. 150. Techniques of Counseling
   Ed. 171. Human Relations in the Classroom

B. With Thesis
   Ed. 300. Master's Thesis 6

C. Without Thesis
   Two of the following: 6

   18

Semester Hours
The candidate for the Master's Degree who elects to minor in education must successfully complete nine semester hours of work. One course should be selected from three of the following four groups of courses:

A. One of the following:
   Ed. 118. Growth and Development During Childhood and Preadolescence
   Ed. 128. The Adolescent Years
   Ed. 184. Human Growth and Development
   or
   Ed. 116. Theory and Practice of Guidance
   Ed. 130. Analysis of Individual and Group Behavior
   Ed. 137. Individual and Group Tests
   Ed. 171. Human Relations in the Classroom
   or
B. One of the following:
   Ed. 112. Secondary School Curriculum and Co-Curriculum
   Ed. 140. Basis of Curriculum Development
   Ed. 167. Instruction
   Ed. 191. The Elementary School Curriculum
   or
C. One of the following:
   Ed. 101. Development of Modern Education
   Ed. 102. Education as a Field of Study
   Ed. 103. Philosophy of Education
   Ed. 105. The Role of the School in Society
   Ed. 125A. Teaching of a Subject Field: Language Arts
   Ed. 125C. Teaching of a Subject Field: Reading
   Ed. 160. Family and School Relationships
   Ed. 290. Reading and Research

 Semester Hours
 3

or
DEPARTMENT OF EDUCATION
AND PSYCHOLOGY

GRADUATE COURSES

Ed. 101. Development of Modern Education.
3 credits.

The American background in European education and national school systems of Europe are traced. Main patterns in American education and leaders of recent movements are studied. Some appraisal of present progress and problems of education in America receive final attention.

Ed. 102. Education As A Field of Study.
3 credits.

This is a foundation course which approaches the field of education through a study of national movements, organizations, and commissions. An evaluation of the influence of such factors on the development of education in this country will be made. The approach to this course is interdepartmental.

Ed. 103. Philosophy of Education.
3 credits.

This course includes a critical survey of widely recognized theory regarding the nature and purpose of education in the Western World, with special emphasis upon such theory as it bears on and gives direction to educational policy and practice within the American democracy.

Ed. 105. The Role of the School In Society.
3 credits.

Interpretation of the schools as society's agency for human betterment, with emphasis on cultural living. Some issues that arise in the organization and operation of the schools.

3 credits.

The principles and forms of curriculum organization, with appraisal of such curricular patterns as the subject matter curriculum, the correlated, fused, core and experience curriculum are included in this course. Also considered are the techniques for reorganizing the curriculum; leadership in curriculum development, and participation of teachers in curriculum improvement.
Ed. 114. Mental Health In the Classroom.

3 credits.

This course includes the study of the elementary principles governing the development of human behavior with particular reference to the cause and prevention of social and emotional maladjustment. The responsibility of the school for the cultivation of the wholesome personality is emphasized.


3 credits.

An overview of the philosophy and function of guidance in public schools, the role of the classroom teacher in the guidance program, and organization for adequate guidance services will constitute the framework of the course. Consideration will be given to topics such as case studies, record keeping, testing, use of occupational information, and techniques of counseling.

Ed. 118. Growth and Development During Childhood and Preadolescence.

3 credits.

The principles underlying the growth and development of boys and girls in the elementary school are explored in this course. Extensive reading and analysis of current research is required.

Ed. 125A. Teaching of A Subject Field: Language Arts

3 credits.

This course considers teaching principles and techniques in particular subject fields for both elementary and secondary schools. The level of treatment is determined by the group enrolled and by the preferences of the instructor.

Ed. 125C. Teaching of A Subject Field: Reading.

3 credits.

This course considers teaching principles and techniques in particular subject fields for both elementary and secondary schools. The level of treatment is determined by the group enrolled and by the preferences of the instructor.

Ed. 128. The Adolescent Years.

3 credits.

A study of the dynamics shaping the growth, development, and behavior of the adolescent and youth forms the basis of this course. Extensive analysis and appraisal of current research is required.
Ed. 130. Analysis of Individual and Group Behavior.

3 credits.

This course deals with methods and techniques employed in the study of individual and group behavior. The practical application of methods is made whenever possible. Materials fee: $1.00.

Ed. 137. Individual and Group Tests.

3 credits.

The development, administration, and interpretation of standardized tests are considered in this course, as well as the use of such tests in survey programs, in the evaluation of instructional efficiency, and in the planning and improvement of teaching procedures.

Ed. 140. Basis of Curriculum Development.

3 credits.

This course is designed to help teachers determine what public schools in a democratic society should teach. Also included is the preparation of curriculum guides in all subject fields at both the elementary and secondary school levels.

Ed. 150. Techniques in Counseling.

3 credits.

This course deals with the various techniques employed in the counseling process. Old and new viewpoints are considered and each student is encouraged to develop his own frame of reference. Materials fees: $1.00.

Ed. 160. Family and School Relations.

(Listed also as S. S. 160s and H. E. 160s)

3 credits.

An inter-disciplinary approach to an understanding of the relationship between the contemporary American family and the school as seen by specialists in psychiatry, sociology, and child development.

Ed. 167. Instruction.

3 credits.

This course includes the following: The theory and practice of teaching in democratic school systems, techniques for studying children and youth; the group process in teaching; motivation of learning; teacher-student planning; the broad unit as a teaching instrument, the role of guidance in teaching; the cooperative appraisal of growth.
Ed. 171. **Human Relations in the Classroom.**

3 credits.

Included in this course is the diagnostic and remedial study of pupil-pupil and pupil-teacher relationships in the classroom. A theory of improved human relations will be considered as well as the administration and interpretation of sociometric tests in terms of teaching-learning activities.

Ed. 184. **Human Growth and Development.**

3 credits.

This course deals with the principles basic to an understanding of the growth and development of human beings. The dynamics influencing behavior are explored. Techniques for studying behavior are considered and case materials analyzed.

Ed. 191. **The Elementary School Curriculum.**

3 credits.

This course includes a study of the current practices in curriculum development for the elementary school. The activity program, the fusion of various subject matter areas, the core concept, the development of group activities, and the promotion of creative learning are also considered. Special emphasis is given the role of the teacher in curriculum development.

Ed. 290. **Reading and Research.**

3 credits.

The student registered for this course is given an opportunity for directed reading and research in areas of his special interest.

Ed. 300. **Thesis.**

6 credits.

A thesis may be submitted in partial fulfillment of the requirements for the Master's Degree. It must be of research character on a subject in the major field of interest and completed to the satisfaction of the Student's Advisory Committee and the Graduate Council. The Student's Advisory Committee must recommend the thesis subject and the outline to the Graduate Council for approval at least three months prior to the time the degree is expected to be awarded. The thesis must be completed one month before the time of graduation to assure the Advisory Committee of its acceptability.
DEPARTMENT OF ENGLISH

Majors (Required: 9 semester hours.) Additional hours needed for the major may be chosen from elective courses.

Eng. 101. Growth and Development of the English Language
Eng. 120. The Practice of Literary Criticism
Eng. 201. Shakespeare

A. The Comedies and Histories
B. The Tragedies and Histories

Minors (Required: 6 semester hours.) The three additional hours needed for the minor may be chosen from elective courses.

Eng. 101. Growth and Development of the English Language
Eng. 120. The Practice of Literary Criticism

Eng. 101. The Growth and Structure of the English Language.

One semester; 3 credits.

An introduction to the history of English, with attention to the changing forms of the speech as reflected in morphology, phonology, syntax, and semantics. Readings and research in special phases of historical and descriptive grammar. Open to approved undergraduates.

Eng. 110. The Interrelation of Literature and History.

One semester; 3 credits.

Main currents of historical phenomena, vitalized by literary art, are traced through novels, short stories, biographies, and the several types of poetry. Open to approved undergraduates.

Eng. 120. The Practice of Literary Criticism.

One semester; 3 credits.

Attention is centered on authors' successful methods of humanizing the actual or imagined facts of life, and on their skill in satisfying readers' craving for beauty, color, and feeling. Open to approved undergraduates.


One semester; 3 credits.

An analysis of the literature embracing the several phases of the Transcendental Movement; the emphasis upon idealism, the revolt against materialism, the outburst against tradition, and the conflicting views concerning abolition. Open to approved undergraduates.

One semester; 3 credits.

The major literary experiences of the English Renaissance from the rise of humanism to Milton, exclusive of Shakespeare. Open to approved undergraduates.

Eng. 150. Modern Drama.

One semester; 3 credits.

Selected plays from the works of three leading dramatists of our times: Ibsen, Shaw, and O’Neill. Some attention to dramatic technique and staging. Open to approved undergraduates.

Eng. 160. Seminar on Composition Procedure and Practice.

One semester; 3 credits.

Theories and classroom practices of composition are appraised critically, and skill in the application of approved methods and procedures is developed and demonstrated. Open to approved undergraduates.

Eng. 201. Shakespeare.

One semester; 3 credits.

A study of selected plays by Shakespeare, either of the tragedies and histories or of the comedies and histories, as the class elects.


One semester; 3 credits.

The life and thought of medieval England as revealed in the literature from the Norman Conquest to the introduction of printing.


One semester; 3 credits.

The principles of Classicism are examined, revelatory of the thought and culture of three periods of English literature dominated, respectively, by John Dryden, Alexander Pope, and Samuel Johnson.
Eng. 230. Studies In English Literature of the Nineteenth Century.

One semester; 3 credits.

The course considers the works of two major writers of the times: Arnold and Carlyle may be offered in one course; another complement of authors may be chosen for subsequent studies.


One semester; 6 credits.

A thesis may be submitted in partial fulfillment of the requirements for the Master's degree. It must be of research character on a subject in the major field of interest and completed to the satisfaction of the Student's Advisory Committee and the Graduate Council. The Student's Advisory Committee must recommend the thesis subject and the outline to the Graduate Council for approval at least three months prior to the time the degree is expected to be awarded. The thesis must be completed one month before the time of graduation to assure the Advisory Committee of its acceptability.

DEPARTMENT OF HOME ECONOMICS

To satisfy the increasing demand for graduate education in all fields of home economics, the department at Madison College offers a limited number of advanced courses.

The graduate courses may be applied toward a minor for the Master's degree.

The graduate courses may be used for renewal of teaching certificates.

Nine hours of graduate work in home economics constitute a minor.

H. E. 239. Seminar in Textiles.

3 credits.

H. E. 276. THE SOCIOLOGY OF THE CONTEMPORARY AMERICAN FAMILY
(Also listed as S. S. 276)

3 credits.

The American family is studied in its structural aspects. Primary emphasis is upon the middle class family by reference to the husband-wife, parent-child, and inlaw relationships. Family behavior is related to occupational structure, religious orientation, educational patterns and social stratification.

H. E. 279. SEMINAR IN VOCATIONAL HOME ECONOMICS EDUCATION.

3 credits.

A study is made of the contribution of home economics to American education. A critical examination is made of trends and issues in curriculum development, instruction, guidance, evaluation, supervision, and research. Prerequisite: H. E. Ed. 79 (Vocational Home Economics) or equivalent.

DEPARTMENT OF MATHEMATICS

The mathematics department offers a minor in the graduate program leading to the Master of Arts in Education and Master of Science in Education degrees. It is contemplated that a major in mathematics will be offered in the near future.

The requirement for a minor is nine semester hours selected from the graduate courses offered by the mathematics department. The program of courses must be approved by the head of the department.

MATH. 100. FOUNDATIONS OF MATHEMATICAL THOUGHT.

3 credits.

This is an introductory study of the logical structure of mathematics. It is concerned with the place of logical reasoning and the significance of logical structure in both mathematical and scientific thought. Modern postulational concepts and methods will be investigated. This course is open to approved undergraduates.

MATH. 110. FUNDAMENTAL CONCEPTS OF ALGEBRA.

3 credits.

Attention is given to the fundamental concepts and postulates which form the foundations of algebra. The complex number system and the elementary theories of numbers, polynomials and equations are developed using the concepts and terminology of modern algebra.
Math. 120. Foundations of Geometry.

3 credits.

A study of the fundamental concepts of the various geometries as logical systems based upon postulates and undefined elements. Attention is given to the historical evolution of our geometric concepts and to the relationship of euclidean plane geometry to other geometries.


3 credits.

This course is designed to broaden and deepen the high school teachers knowledge of the subject matter that he teaches. The material is examined from a mature viewpoint, and related topics from higher mathematics are introduced as they contribute to a better understanding of the subject matter. Opportunities for discussion of the various teaching possibilities will be given from time to time. Open to approved undergraduates.


3 credits.

A study of the fundamental theorems and concepts of synthetic projective geometry. Attention is given to ideal elements, duality, projectively related forms, cross ratio, projective theory of conics.

Math. 150. Theory of Numbers.

3 credits.

Topics in elementary number theory including properties of integers and prime numbers, divisibility of numbers, simple Diophantine equations, congruences and residues.

DEPARTMENT OF MUSIC

Graduate courses will be offered in the areas of choral materials and techniques, instrumental materials and techniques, music literature, music theory and applied music. A minor in music consists of nine semester hours of credit in courses approved by the head of the department.
Music 110. Choral Materials and Techniques.

Hours to be arranged; 3 credits.

Music 110. Choral Materials and Techniques.

A study of the problems, materials and techniques of teaching Choral Music in the high school. Laboratory experiences will be provided at the Virginia Music Camp at Massanetta Springs.

Music 111. Instrumental Materials and Techniques.

Hours to be arranged; 3 credits.

Music 111. Instrumental Materials and Techniques.

A study of the problems, materials and techniques of teaching Instrumental Music in the high school. Laboratory experiences will be provided at the Virginia Music Camp at Massanetta Springs. Open to approved undergraduates.

Music 115. Twentieth Century Music.

Five periods per week of 1 hour and 20 minutes each for six weeks from July 2-August 10.

Critical analysis of compositions from Debussy to Bartok including works of contemporary American composers. (Undergraduate students with the approval of the instructor may enroll.)

Music 120. Music Literature.

Five periods per week of 1 hour and 20 minutes each for six weeks from July 2-August 10.

Principles of styles, forms and types of music according to historical period and cultural area. Open to approved undergraduates.

DEPARTMENT OF SOCIAL SCIENCE AND HISTORY

There are two major programs of study in the Department of Social Science and History:

ONE — A Major in Social Science
TWO — A Major in History
PROGRAM NUMBER ONE: SOCIAL SCIENCE MAJOR

I. Organization of Program leading to Social Science Major

A. Each graduate student centers a major program around THREE disciplines selected from among the following: economics, geography, government, history or sociology.

B. One of these three disciplines becomes the focus of the candidate’s work and is known as his DISCIPLINE OF CONCENTRATION. The remaining two disciplines are known as SUPPORTING DISCIPLINES.

C. One course in each DISCIPLINE OF CONCENTRATION is required. Example S. S. 178 — Community Organization is required for all students with a DISCIPLINE OF CONCENTRATION in Sociology. A student with history as a DISCIPLINE OF CONCENTRATION must take one of the following two courses: S. S. 122 — Contemporary United States History or S. S. 132 — Contemporary World History. (See Catalog for details.)

D. As early in the candidate’s program as possible, a central theme for graduate study is chosen so that course selections may have significance. This is done with the major advisor in consultation with other members of the graduate committee.

II. General schedule of Course Program for Social Science Major

A. Program with Thesis

- 6 credit hours in discipline of concentration
- 3 credit hours in first supporting discipline
- 3 credit hours in second supporting discipline

12 Total

B. Program without Thesis

- 12 credit hours in discipline of concentration
- 3 credit hours in first supporting discipline
- 3 credit hours in second supporting discipline

18 Total
PROGRAM NUMBER TWO: HISTORY MAJOR

I. Organization of Program leading to History Major

A. Each graduate student is required to take S. S. 122 — Contemporary United States History and S. S. 132 — Contemporary World History. Total 6 credit hours.

B. To give scholarly breadth to the program one course must be selected from the fields of economics, government or sociology. (For specific courses see Graduate Catalog.) Total 3 credit hours.

C. The remaining courses are electives in the field of history and are to be selected from any history course listed in the Graduate Catalog. Total 3 to 6 credit hours. (Depending upon whether or not student writes a thesis.)

D. As early in the candidate's program as possible a central theme for his graduate study is chosen so that course selections may have significance. This is done with his major advisor in consultation with other members of the graduate committee.

MINOR GRADUATE PROGRAMS IN THE DEPARTMENT OF SOCIAL SCIENCE AND HISTORY

There are two minor programs of study in the Department of Social Science and History:

I. Minor Program in Social Science

A. 9 hours are required. A Minor must include two courses selected from one social science discipline. The discipline from which these two courses are selected is known as the minor concentration. One of these two courses is required: (Examples) S. S. 178—Community Organization, is required for all students with a minor discipline in sociology. A student with a minor discipline in history must take either S. S. 122—Contemporary United States History or S. S. 132—Contemporary World History. (See Catalog for details.)

B. A student may select a minor concentration in any one of the following disciplines: economics, geography, government, history or sociology.
II. Minor Program in History

A. 9 hours are required, including the two following courses:
   1. S.S. 122—Contemporary United States History
      3 credits hours
   2. S.S. 132—Contemporary World History
      3 credits hours

B. A third course may be selected from any other history offering.

Course Offerings in Economics, Geography, Government, History, and Sociology

A. Economics

1. S.S. 200—Economics in Contemporary Society
   3 credit hours
   The role of economics in national and world affairs is analyzed and special attention is given to international trade, distribution of wealth and income, taxation and public debt, recurrent major depressions and periods of prosperity, and types of economic systems.

2. S.S. 280—Reading and Research
   3 credit hours
   Opportunity is offered the individual student for reading and research in areas of his special interest.

B. Geography

1. Geography 100—Seminar in Geographical Units
   3 credit hours
   Directed readings, research, and discussion dealing with selected geographical areas of interests for both the group and the individual student. Open to approved undergraduates.

C. Government

1. S.S. 240—Federal Government
   3 credit hours
   This course consists of four major units, designed to provide a better understanding of the contemporary constitution and government of the United States: (1) the constitutional convention of 1787, (2) the original constitution, (3) the establishment of the federal government under President Washington, and (4) the growth of the constitution through amendment and interpretation.
2. S.S. 280—Reading and Research
   3 credit hours
   Opportunity is offered the individual student for reading and research in areas of his special interest.

D. History Courses: Description of each course is found in the History Major Program p. 35

1. S.S. 122—Contemporary United States History
2. S.S. 132—Contemporary World History
3. S.S. 121—Foundation of Contemporary United States History
4. S.S. 131—Foundations of Contemporary World History
5. S.S. 125—Problems in United States History, 1789-1877
6. S.S. 235—Problems in History of Civilization
7. S.S. 224—Seminar in Colonial and Revolutionary History
8. S.S. 280—Reading and Research
9. S.S. 300—Thesis

E. Sociology

1. S.S. 276—The Sociology of the Contemporary American Family (Also listed as H.E. 276)
   3 credit hours
   The American family is studied in its structural aspects. Primary emphasis is upon the middle class family by reference to the husband-wife, parent-child, and inlaw relationships. Family behavior is related to occupational structure, religious orientation, educational patterns, and social stratification.

2. S.S. 275—Contemporary Sociological Theory and Research
   3 credit hours
   A study is made of contemporary systematic theory as presented by key representatives such as Durkheim, Max Weber, Talcott Parsons, Robert Merton, and Kingsley Davis. The relationship between theory and research is studied by reference to significant research undertaken during the last twenty years.

3. S.S. 178—Community Organization
   3 credit hours
   Representative community studies are read as an aid in the development of theories of community organization. Detailed analysis is made of the relationship between social stratification and occupation, family, religion, political behavior and education.
   Open to approved undergraduates.
4. S.S. 165—Youth and Young Adult Behavior Patterns
   3 credit hours

   This course is designed to give a better understanding of the behavior patterns of youth and young adults in contemporary United States. These behavior patterns are related to family, religion, education, occupational orientation, clique structure, social stratification and social mobility. Open to approved undergraduates.

5. S.S. 270—Social Change
   3 credit hours

   An analysis is made of the dynamics of social behavior by reference to changes in value orientation, technology, population characteristics, power structure, system of stratification, and communication techniques.

6. S.S. 280—Reading and Research
   3 credit hours

   Opportunity is offered the individual student for reading and research in areas of his special interest.

7. S.S. 300—Thesis
   6 credit hours

   A thesis may be submitted in partial fulfillment for the requirements of the Master’s Degree. It must be of research character on a subject in the major field of interest and completed to the satisfaction of the Student’s Advisory Committee and the Graduate Council. The Student’s Advisory Committee must recommend the thesis subject and outline to the Graduate Council for approval at least three months prior to the time the degree is expected to be awarded. The thesis must be completed one month before the time of graduation to assure the Advisory Committee of its acceptability.

A. Required Courses

   for History Major

1. S.S. 122—Contemporary United States History
   3 credit hours

   An analysis is made of the political, economic and social history of the United States from the end of World War I to the present and is intended to provide a background to understanding and teaching current events. Open to approved undergraduates.

2. S.S. 132—Contemporary World History
   3 credit hours

   A study is made of the period from the end of World War I to the present. This provides a background for understanding and teaching current events.
B. **Supporting Courses**—One of the following three courses is required:

1. S.S. 200—Economics in Contemporary Society
   3 credit hours
   The role of economics in national and world affairs is analyzed and special attention is given to international trade, distribution of wealth and income, taxation and public debt, recurrent major depressions and periods of prosperity, and types of economic systems.

2. S.S. 240—Federal Government
   3 credit hours
   This course consists of four major units, designed to provide a better understanding of the contemporary constitution and government of the United States: (1) the constitutional convention of 1787, (2) the original constitution, (3) the establishment of the federal government under President Washington, and (4) the growth of the constitution through amendment and interpretation.

3. S.S. 270—Social Change
   3 credit hours
   An analysis is made of the dynamics of social behavior by reference to changes in value orientation, technology, population characteristics, power structure, system of stratification, and communication techniques.

C. **History Electives**—One or two courses must be selected from the following (depending upon whether or not the student writes a thesis):

1. S.S. 121—Foundation of Contemporary United States History
   3 credit hours
   This course is designed to analyze in detail the political, economic, and social history of the United States from the close of the reconstruction period (1877) to the beginning of the great depression (1929). Open to approved undergraduates.

2. S.S. 125—Problems in United States History, 1789-1877
   3 credit hours
   This course offers an opportunity for a thorough study of selected topics from this period of United States History. Research papers, lectures, and class discussions will deal with the subjects chosen. Open to approved undergraduates.
3. S.S. 235—Problems in History of Civilization  
   3 credit hours  
   An opportunity is provided for the study of selected subjects and periods from earliest times to the present.

4. S.S. 131—Foundations of Contemporary World History  
   3 credit hours  
   A study is made of the half century of world history from the 1870's to the rise of totalitarianism in the 1920's. Open to approved undergraduates.

5. S.S. 224—Seminar in Colonial and Revolutionary History  
   3 credit hours  
   An opportunity is offered for an intensive study of selected topics. Emphasis is placed on reading and research.

6. S.S. 280—Reading and Research  
   3 credit hours  
   Opportunity is offered the individual student for reading and research in areas of his special interest.

7. History Thesis

1. S.S. 300—Thesis  
   6 credit hours  
   A thesis may be submitted in partial fulfillment for the requirements of the Master’s Degree. It must be of research character on a subject in the major field of interest and completed to the satisfaction of the Student’s Advisory Committee and the Graduate Council. The Student’s Advisory Committee must recommend the thesis subject and outline to the Graduate Council for approval at least three months prior to the time the degree is expected to be awarded. The thesis must be completed one month before the time of graduation to assure the Advisory Committee of its acceptability.
For further information concerning graduate study at Madison College write

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