

BULLETIN OF
RHODE ISLAND COLLEGE
COURSE CATALOG 1976-1977



DOCUMENTS COLLECTION

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Courses having a number with first digit 1 or 2 are lower division courses primarily for freshmen or sophomores.

Courses having a number with first digit 3 are upper division courses usually taken by third or fourth year students. Graduate students may, with the approval of advisers, include these courses in their program.

Courses having a number with first digit 4 are graduate courses to which undergraduates may be admitted by permission. Courses having a number with first digit 5 are graduate courses to which undergraduates are normally not admitted.

In general, when the middle digit of a course number is 6, the course is a seminar; 8, a workshop; 9, directed study.

The number of "semester hours" specified for each course indicates both the number of credits it carries and the approximate total clock hours it meets each week. A number in parentheses appearing before the semester hours for a course indicates that the number of "contact hours" per week-time required in class, studio or laboratory differs from the semester hours.

Those courses selected as area distribution electives (ADE's) in the college's general studies program are designated by a •. Because the list of ADE's is subject to change, the annual General Studies Catalog should be consulted for up-to-date information.

Most departments offer a variety of topics courses (X50), seminar courses (X60), and workshop courses (X80), for which the content and semester hours are announced each semester. These courses may be repeated with a change in content.

DEPARTMENT OF ADMINISTRATION AND CURRICULUM

None of the courses offered by this department are arts and sciences courses.

ADMINISTRATION 400: WORKSHOP IN ADMINISTRATION 3 semester hours

Topics vary.

ADMINISTRATION 502: SCHOOL SUPERVISION 3 semester hours

The course involves a study of concepts, techniques, problems and trends in supervision, and the role of the teacher and the administrator in supervision. Included are an examination of current theory and research concerning supervisor-teacher relationships and leader behavior.

Prerequisite: Admin. 507 or 510.

ADMINISTRATION 504: SCHOOL FINANCE 3 semester hours

The course provides an overview of the basic problems, issues and influences of financing schools in America. Emphasis is placed upon sources of income and the budgeting process. A short overview of the mechanics of financing and accounting in Rhode Island schools is included.

ADMINISTRATION 506: SCHOOL PLANT PLANNING 3 semester hours

This course is concerned with the problems of planning and constructing the school plant. Special emphasis is placed upon the following aspects: the school building survey, citizenship participation, the appraising of present school buildings, educational planning and specifications, the selection of the architect, site selection and financing the school building program. Field trips are included.

ADMINISTRATION 507: ORGANIZATION AND ADMINISTRATION OF SECONDARY EDUCATION 3 semester hours

The major areas considered are the relation of schools to society, the general aims of secondary schools and how they may be derived, the development of the total school program, the administration of the school program, and procedures for evaluating the program of the secondary school. This course is planned as the first in the secondary administration sequence.

ADMINISTRATION 508: SCHOOL LAW PROBLEMS 3 semester hours

This course is concerned with the powers and duties of school committees, school administrators and teachers in relation to city or town council, the town meeting and the R.I. State Department of Education; and also with legal problems involving contracts, salaries, tenure, dismissal and pensions.

ADMINISTRATION 509: PERSONNEL PROBLEMS IN EDUCATION 3 semester hours

Covered here are techniques for improving work relationships with the professional staff, the nonprofessional staff and pupil personnel. Staff selection, orientation and evaluation are stressed. Theory of organizational behavior as it affects allocation of personnel is reviewed.

Prerequisite: Admin. 502.

ADMINISTRATION 510: ORGANIZATION AND ADMINISTRATION OF ELEMENTARY EDUCATION 3 semester hours

The course considers the objectives, relationships to society and organizational patterns of elementary schools. Organization for instruction, administration of pupil personnel, grouping practices, school and community relations and other aspects of the elementary school are discussed.

ADMINISTRATION 515: EDUCATIONAL PLANNING 3 semester hours

This course serves as an introductory course in the use of systems analysis tools for

educational planning. It includes some brief experiences with computer use but all activity is predicated on the assumption that the student has little or no experience with any of the material. The emphasis will be upon the actual use of the tools in class by developing a plan which would be of use in a school setting.

ADMINISTRATION 520: THE ELEMENTARY SCHOOL ADMINISTRATOR

3 semester hours

This course is the culminating experience for the Master of Education degree in educational administration. As such it involves a review and synthesis, a planning process, a clinical experience in elementary school administration and a seminar.

Each student must prepare a proposal for his clinical experience as an administrative intern in a cooperating school. This proposal must involve him in planning and decision-making administrative activities and have the approval of the instructor and the cooperating school administrator. During the clinical experience itself, the student is under the direct supervision of the seminar instructor and the school administrator. At completion of the experience the student presents and defends a summation paper to his seminar.

Prerequisite: Admin. 507 or 510, 502, 509, Ed. 505 or 514.

ADMINISTRATION 523: THE SECONDARY SCHOOL ADMINISTRATOR

3 semester hours

This course is the culminating experience for the Master of Education degree in educational administration. As such it involves a review and synthesis, a planning process, a clinical experience in secondary school administration and a seminar.

Each student must prepare a proposal for his clinical experience as an administrative intern in a cooperating school. This proposal must involve him in planning and decision-making administrative activities and have the approval of the instructor and the cooperating school administrator. During the clinical experience itself, the student is under the direct supervision of the seminar instructor and the school administrator. At completion of the experience the student presents and defends a summation paper to his seminar.

Prerequisite: Admin. 507 or 510, 502, 509, Ed. 505 or 514.

ADMINISTRATION 533: EDUCATIONAL LEADERSHIP

3 semester hours

The theories and techniques of educational leadership are studied with emphasis on the formulation of leadership principles based upon current psychological and sociological foundations of education. Several class meetings consist of group work in human relations. Proficiency in human relations group work must be demonstrated.

Prerequisite: Admin. 520 or 523.

ADMINISTRATION 532: ORGANIZATION AND ADMINISTRATION OF SCHOOLS K-12

3 semester hours

This course consists of various organizational schema and the sociological and psychological rationale basic to each plan. Practical problems of administering the schools are studied. Field work is required.

Prerequisite: Admin. 507 or 510 and admission to post-master's degree program.

ADMINISTRATION 560: SEMINAR IN EDUCATIONAL ADMINISTRATION

3 semester hours

Topics vary. Consent of instructor required.

ADMINISTRATION 561: SEMINAR IN ADMINISTRATIVE RESEARCH

3 semester hours

The purpose of this seminar is to provide experiences designed to enable the student to understand and evaluate research in order to plan and carry out a research-oriented field project. Open only to accepted C.A.C.S. candidates.

Prerequisite: Psych. 320 or 420, or a course in statistics with consent of adviser.

EDUCATIONAL SERVICES 500: MANAGEMENT INFORMATION SYSTEMS I

3 semester hours

This course includes study of the techniques of educational organization analysis; formulation of strategies for determining goals and objectives for that organization; planning strategies for meeting those goals and objectives; determination of the information requirements to serve the organization in terms of these goals and objectives for day to day control, management control, and planning control purposes; and formulation of a program budget structure to serve the management requirements of the goals and objectives.

Prerequisite: consent of adviser and admission to post-master's degree program.

ANTHROPOLOGY

(Department of Anthropology and Geography)

All of the courses offered by this department are unrestricted arts and sciences courses.

• ANTHROPOLOGY 100: ON BEING HUMAN

4 semester hours

This course investigates humanity, utilizing a multi-media approach with films, tapes and games which are especially designed to elicit a variety of responses from participants. Contrasts are made between human and other animals which point up the differences between innate and learned behavior.

• ANTHROPOLOGY 201: INTRODUCTION TO CULTURAL ANTHROPOLOGY

3 semester hours

This course presents the aims, theories and problems of cultural anthropology. It deals with such aspects or patterns of culture as technology, economics, ideology and languages. The universals of culture are noted, together with the phenomena of local uniqueness.

ANTHROPOLOGY 202: INTRODUCTION TO ARCHAEOLOGY

3 semester hours

This course is designed to acquaint the student with the kinds of data and methods used in reconstructing past cultures. It will include both theoretical and practical introductions to such topics as site survey and excavation techniques preservation and display of specimens, dating methods and cultural reconstruction.

ANTHROPOLOGY 203: INTRODUCTION TO PHYSICAL ANTHROPOLOGY

3 semester hours

This course examines human physical variations in their cultural and adaptive contexts: the interaction of heredity and environment in individual and group development, the critical evaluations of the concept of race, and the ongoing process of evolution as it may affect man's future.

ANTHROPOLOGY 302: HINDU, BUDDHIST AND ISLAMIC CULTURES

3 semester hours

This course is concerned with the development of these cultures and the resultant effect on the basic social structure (family, kinship, marriage, government, economics, etc.).

Prerequisite: Anthro. 201 or consent of instructor.

ANTHROPOLOGY 303: PROBLEMS IN CULTURAL ANTHROPOLOGY

3 semester hours

Lectures, discussions and readings focus on key problems in anthropological theory and research. Social structure, political and economic organization and enculturation may be considered.

Prerequisite: Anthro. 201 or consent of instructor.

ANTHROPOLOGY 304: EARLY MAN

3 semester hours

An archaeological survey is made of technological and institutional development from

the earliest evidence of tool using to the rise of the early civilizations. Fossil man and the later phases of human evolution are considered in conjunction with cultural data.

Prerequisite: Anthro. 201, 202, 203 or consent of instructor

ANTHROPOLOGY 305: COMPARATIVE CULTURES 3 semester hours
Methods of comparative cultural analysis are surveyed using selected research problems to illustrate the nature of anthropological generalizations.

Prerequisite: Anthro. 201 or consent of instructor.

ANTHROPOLOGY 307: PEASANT SOCIETIES AND CULTURES 3 semester hours
Utilizing a comparative and historical approach, this course explores the nature and variety of world peasantries. Theories explaining peasant social, economic, political and ideological life are presented against a contrasting background of empirical material taken from ethnographic descriptions of various peasantries. The place of peasantry in a world undergoing economic development also is considered.

Prerequisite: Anthro. 201 or consent of instructor.

ANTHROPOLOGY 310: LANGUAGE & CULTURE 3 semester hours
Interrelationships between language and other aspects of culture are examined as they illuminate anthropological issues and theories.

Prerequisite: Anthro. 201 or consent of instructor.

ANTHROPOLOGY 312: ORAL TRADITIONS 3 semester hours
A study of the various forms of spoken tradition as cultural manifestations: such as myths, legends, folktales, parables, poetry, riddles and games.

Prerequisite: Anthro. 201 or consent of instructor.

ANTHROPOLOGY 315: INDIAN CULTURES OF THE PACIFIC NORTHWEST 3 semester hours
The material culture and the institutional structure of selected Indian tribes of the Pacific Northwest are analyzed.

Prerequisite: Anthro. 201 or consent of instructor.

ANTHROPOLOGY 316: ARCHAEOLOGY OF THE AMERICAS 3 semester hours
A survey of the evidence for human cultures in the Americas from the first occupation up to but not including proto-historic and historic cultures. This course will include a short review of such problems as colonization of the New World and the nature of the earliest occupation, but will concentrate on ecological and cultural developments between about 7000 BC and AD 1100.

Prerequisite: Anthro. 201, 202 or consent of instructor.

ANTHROPOLOGY 317: ARCHAEOLOGY OF EUROPE 3 semester hours
A survey of the archaeological evidence for early cultures in Europe. This course will include a short review of Paleolithic and Mesolithic cultures, but will concentrate on the Neolithic, Bronze and Iron Age cultures which developed in Europe after 5000 BC.

Prerequisite: Anthro. 202 or consent of instructor.

ANTHROPOLOGY 318: PEOPLES AND CULTURES OF SOUTHEAST ASIA 3 semester hours
Representative ethnic groups in Southeast Asia will be analyzed.

Prerequisite: Anthro. 201 or consent of instructor.

ANTHROPOLOGY 319: PEOPLES AND CULTURES OF AFRICA 3 semester hours
Various aspects of African cultures will be considered.

Prerequisite: Anthro. 201 or consent of instructor.

ANTHROPOLOGY 320: PEOPLES AND CULTURES OF THE MEDITERRANEAN 3 semester hours
Selected Mediterranean societies will be studied.

Prerequisite: Anthro. 201, or consent of instructor.

ANTHROPOLOGY 321: PEOPLES AND CULTURES OF OCEANIA 3 semester hours
Selected Pacific societies are examined as they relate to anthropological concerns.

Prerequisite: Anthro. 201 or consent of instructor.

ANTHROPOLOGY 322: PEOPLES AND CULTURES OF THE CARIBBEAN 3 semester hours
The culture and institutions of selected Caribbean societies will be analyzed.

Prerequisite: Anthro. 201 or consent of instructor.

ANTHROPOLOGY 323: PEOPLES AND CULTURES OF SOUTH ASIA 3 semester hours
An ethnological study of representative social groups of South Asia (such as India, Pakistan, Bangladesh, Nepal, the Border States and Sri Lanka).

Prerequisite: Anthro. 201 or consent of instructor.

ANTHROPOLOGY 324: NATIVE NORTH AMERICA 3 semester hours
The course surveys representative native culture types north of Mexico. The characteristics of various tribal groupings, the relationships between them and contemporary Indian conditions and affairs are examined.

ANTHROPOLOGY 325: INDIAN CULTURES OF LATIN AMERICA 3 semester hours
The course examines the Indian cultures of Mesoamerica and South America from both historical and contemporary perspectives.

Prerequisite: Anthro. 201 or consent of instructor.

ANTHROPOLOGY 335: ECONOMIC ANTHROPOLOGY 3 semester hours
This course will examine a variety of systems of production, distribution, exchange consumption and display; major methodological and theoretical issues in economic anthropology will be explored.

ANTHROPOLOGY 336: POLITICAL ANTHROPOLOGY 3 semester hours
The various factors contributing to the structure, form and cohesiveness of political systems will be studied.

ANTHROPOLOGY 337: ANTHROPOLOGICAL APPROACHES TO RELIGIONS 3 semester hours
The content, structure, concepts and functions of religions are studied, with particular attention to their relationships to other aspects of culture and society.

Prerequisite: Anthro. 201 or consent of instructor.

ANTHROPOLOGY 338: URBAN ANTHROPOLOGY 3 semester hours
Western and non-Western traditions in urbanization will be compared and contrasted employing anthropological evidence and methodologies. Cross-cultural comparisons will be emphasized.

Prerequisite: Anthro. 201 or consent of instructor.

ANTHROPOLOGY 339: CULTURAL CHANGE 3 semester hours
This is a study of societal change, conflicts and accommodations caused by the contact of differing cultures.

Prerequisite: Anthro. 201 or consent of instructor.

ANTHROPOLOGY 340: SOCIAL ORGANIZATION 3 semester hours
The course examines theories of social organization, the interrelations of social

institutions and current anthropological methods of interpretation and analysis of social systems.

Prerequisite: Anthro. 201 or consent of instructor.

ANTHROPOLOGY 345: HISTORY OF ANTHROPOLOGY 3 semester hours
A critical examination of anthropological theory focusing on major ideas which have characterized the development of anthropology and related sciences; includes will be Evolutionary, Historical, Functional and Structuralist interpretations of data.

Prerequisite: Anthro. 201 and one 300-level anthropology course or consent of instructor.

ANTHROPOLOGY 350: TOPICS IN ANTHROPOLOGY

This course provides an opportunity to study special topics in anthropology not offered by the department on a regular basis.

Prerequisites and credits vary.

ANTHROPOLOGY 360: SEMINAR IN ANTHROPOLOGY 3 semester hours

This course provides an integrating experience in theory and practice. Students do research in an anthropological topic which is the basis for oral and written reports (taught intermittently).

Prerequisite: anthropology majors with 18 hours in the major or consent of instructor.

ANTHROPOLOGY 371-374: READING COURSE IN ANTHROPOLOGY

Directed reading experiences in an anthropological area of interest to the student and the instructor. 1-4 semester hours

Semester hours correspond to the last digit in the course number.

Prerequisite: students must have the consent of the department chairman, their anthropology adviser and the instructor with whom they wish to work.

ANTHROPOLOGY 380: WORKSHOP IN ANTHROPOLOGY

Selected topics are investigated in various formats. Credits and prerequisite vary.

ANTHROPOLOGY 391-394: DIRECTED STUDY IN ANTHROPOLOGY

The student selects a topic and undertakes concentrated research under the supervision of a faculty adviser. 1-4 semester hours

Semester hours correspond to the last digit in the course number.

Prerequisite: students must have the consent of the department chairman, their anthropology adviser and the instructor with whom they wish to work.

ANTHROPOLOGY 480: WORKSHOP IN ANTHROPOLOGY

Selected topics are investigated in various formats. Credits and prerequisite vary.

DEPARTMENT OF ART

The restricted arts and sciences courses in this department are 204, 308, 319, 320, 380 and 383. All of the other courses listed below are unrestricted arts and sciences courses.

ART 101: DRAWING I: GENERAL DRAWING

This course covers the fundamentals of free-hand drawing based primarily on the study and representation of objects and nature forms, with problems of analysis, response, perception, composition and technical standards; contour drawing; indication of surface texture, form and tone. Various media are used. (6) 3 semester hours

ART 104: DESIGN I

This course covers the fundamentals of design, including logical and intuitive approaches as applied to 2-D and 3-D studies. The student is introduced to the idea of defining and developing a basic system of solving problems. (6) 3 semester hours

ART 105: DRAWING II: FIGURE DRAWING

Drawing from the draped and undraped figure, with an emphasis upon proportion, structure, gesture, movement and compositional possibilities; contour and modeled drawings; memory drawings; long and short poses, elements of anatomy; use of various media. (4) 3 semester hours

Prerequisite: Art 101.

ART 200: ENCOUNTER WITH ART

The course is designed to examine and develop an understanding of perception, the creative process, the diversified nature of the visual arts and sources for art expression. Community resources, films, readings and discussion will be used to develop awareness and a broad orientation to terminology, art forms and processes. (4) 3 semester hours

ART 201: VISUAL ARTS IN SOCIETY

The course gives an introduction to the fine and industrial arts through a sampling of the arts through history. Function and interrelationship among the art forms are studied within the context of society. A limited amount of studio work is included as an aid to visual understanding.

For non-art majors only.

ART 202: PAINTING I

An introduction to the technique and nature of the materials, exploring color, line, form, texture and compositional problems, using object, nature and the figure as subject matter. (4) 3 semester hours

Prerequisite: Art 205.

ART 204: DESIGN II

This is a studio course which deals with advanced problems in two- and three-dimensional design. The student will be encouraged to explore various materials and techniques pertinent to problems faced by the contemporary designer. (4) 3 semester hours

Prerequisite: Art 104.

ART 205: STUDY OF THE FIGURE

Anatomy of the human figure will be studied in depth through lecture and studio problems in both two- and three-dimensional media. (4) 3 semester hours

Prerequisite: Art 105.

ART 206: CERAMICS I

This course is designed to introduce the students to clay and ceramic materials and their use by formulation and testing of clay bodies and glazes. Basic hand-forming methods will be used along with simple and direct decoration techniques. (4) 3 semester hours

Prerequisite: Art 104.

ART 215: SCULPTURE I

An introduction to traditional and contemporary approaches to sculptural form and their relationship to social and cultural values. Studio problems focus on additive, subtractive and constructive methods of sculpture. (4) 3 semester hours

Prerequisite: Art 104 and 205.

ART 231: PREHISTORIC TO RENAISSANCE ART

This course is designed to familiarize the student with fundamental concepts and functions of the history of art and to develop his ability at visual analysis and interpretation. Painting, sculpture and architecture of early Europe and the near east will be the focus of this study. (3) semester hours

ART 232: RENAISSANCE THROUGH MODERN ART

Focusing on European painting, sculpture, architecture and the minor arts of the past five hundred years, this course is a further development of the basic aims of Art 231. (3) semester hours

ART 302: PAINTING II

This course continues work begun in Art 202. The student is encouraged to explore more fully individual ideas and concepts with emphasis on style, technique and materials.

Prerequisite: Art 202.

ART 304: GRAPHIC DESIGN

A studio course that concerns itself with communication and its development visual graphic form. The student-designer will combine knowledge of photography, typography, drawing, spatial representation and reproduction techniques to solve contemporary graphic design problems.

Prerequisite: Art 204.

ART 306: CERAMICS II

This course will provide the advanced student with an opportunity to develop greater sensitivity to clay and glazes. Experimentation and development of knowledge, skills and craftsmanship will be emphasized.

Prerequisite: Art 206.

ART 308: PRINTMAKING I

This course is designed to introduce the student to the two major printmaking processes: intaglio and relief. Technical and aesthetic consideration is given to the linocut, the woodcut and etching.

Prerequisite: Art 205.

ART 318: SCULPTURE II

This course emphasizes individualized development of expressive ideas and specialized skills in concentrated work with one or several advanced sculpture media.

Prerequisite: Art 215.

ART 317: INTRODUCTION TO PHOTOGRAPHY

This course is an introduction to the fundamentals of photography. The emphasis will be upon the expressive potential of the media through the creative use of theory, procedures and controls.

ART 318: SERIGRAPHY

Introduction to silk-screen printing and its related stencil techniques such as paper, cut film, tusche, glue and photo stencil as it applies to the production of multiples. The process is explored and developed to help establish the relationships between form, technique and content.

Prerequisite: Art 101, 104 and 105.

ART 319: FIBER I

Traditional and experimental approaches will be explored in construction and surface design of fabrics and related textile forms. Students will be given an opportunity to apply knowledge in design and construction relative to contemporary craft concepts.

Prerequisite: Art 104.

ART 320: METAL I

Development of design concepts and skill in control of metal in its various forms, the course will introduce the student to basic metal working processes such as forging, casting and fabrication.

Prerequisite: Art 104.

ART 327: FILMMAKING

This course focuses on understanding of film as an art medium as well as techniques and methods for producing the image on film. This involves both knowledge and experience with filming, editing and laboratory processes and the development of analytical skills in

(4) 3 semester hours

(4) 3 semester hours

(4) 3 semester hours

(4) 3 semester hours

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(4) 3 semester hours

(4) 3 semester hours

(4) 3 semester hours

(4) 3 semester hours

(4) 3 semester hours

viewing experimental and commercially produced films. The integration and synchronization of sound is also explored.

ART 330: A SURVEY OF FAR EASTERN ART

This course covers the painting, architecture, sculpture and minor arts of India, China, Korea and Japan. Special attention is given to the role of Buddhism and Hinduism to each culture's accomplishments. Any course in either literature or history of the Far East would be a highly desirable adjunct to this course.

NOTE: Art 231 and 232 must be taken by all art majors prior to taking other art history courses.

ART 331: GREEK AND ROMAN ART

The development of Greek and Roman Art forms and styles from the ninth century B.C. to the dissolution of the Roman Empire will be the focus of the course. The differing character and functions of their art, the attitude of the Romans to Greek art, and their development of art forms fundamental to western art will be studied. Italic pre-Roman art will also be surveyed.

NOTE: Art 231 and 232 must be taken by all art majors prior to taking other art history courses.

ART 332: MEDIEVAL ART

An exploration of architecture, sculpture, manuscript illumination and panel painting from the Carolingian period to the Renaissance, emphasizing the relationship between Medieval art and society.

NOTE: Art 231 and 232 must be taken by all art majors prior to taking other art history courses.

ART 333: RENAISSANCE AND BAROQUE ART

Beginning with an exploration of the concept of the Renaissance in fourteenth and fifteenth century Italy and continuing through the seventeenth century, the course will survey the origins, variety and causes of painting, sculpture and architecture in the major centers of Europe.

NOTE: Art 231 and 232 must be taken by all art majors prior to taking other art history courses.

ART 334: AMERICAN ART

Painting, sculpture and architecture from Colonial times to the Armory show of 1913 with particular attention to problems of indigenous tradition.

NOTE: Art 231 and 232 must be taken by all art majors prior to taking other art history courses.

ART 335: HISTORY OF MODERN ART

Painting, sculpture and architecture from the time of the French revolution to the present, covering major movements and styles in Western art.

NOTE: Art 231 and 232 must be taken by all art majors prior to taking other art history courses.

ART 340: METAL II

This course develops the student's techniques for the special requirements of functional ware. It thereby offers the student an opportunity to consolidate his technical skills and further develop his sensitivity, form and material.

Prerequisite: Art 320.

ART 347: PHOTOGRAPHY II

This course focuses on advanced photographic theory, philosophy and technique. The student's portfolio will indicate the ability to develop a theme through a mature sensitivity in handling the media.

Prerequisite: Art 317.

ART 348: PRINTMAKING II

The student will be encouraged to innovate new methods and explore ideas based on his own experiences. Techniques in multiplate color and photo image intaglio will be explored.

Prerequisite: Art 308.

(3) semester hours

(3) semester hours

(3) semester hours

(3) semester hours

(3) semester hours

(3) semester hours

(4) 3 semester hours

(4) 3 semester hours

(4) 3 semester hours

ART 350: TOPICS IN STUDIO ART

(4) 3 semester hours
This course examines topics in a particular area of studio arts. A student may repeat this course for credit.

Prerequisite: consent of chairman and permission of instructor.

ART 360: SEMINAR IN THE VISUAL ARTS

(3) 3 semester hours
This course is concerned with various historical and theoretical topics in the visual arts.

Prerequisite: permission of instructor.

ART 361: SEMINAR IN ART HISTORY

(3) 3 semester hours
Readings, discussions and papers on selected topics. This course is designed for students to work with the class and instructor in an in-depth exploration of specific problems in art history including those of interpretation and methodology. May be repeated with change of topic.

Prerequisite: Advanced class standing and permission of instructor.

NOTE: Art 231 and 232 must be taken by all art majors prior to taking other art history courses.

ART 380: WORKSHOP IN THE VISUAL ARTS

This workshop is concerned with various studio topics in the visual arts. This course may not be substituted for required introductory studio courses. The number of credit hours and prerequisite are determined by the particular workshop offered.

ART 383: WORKSHOP IN MEDIUM AND MATERIALS

(4) 3 semester hours
This workshop provides broad experiences with various art processes and techniques not dealt with in other studio art courses but which are directly applicable to teaching art at the elementary and secondary levels. Effective use of free, inexpensive and readily available materials and resources are researched and explored.

ART 390: PROBLEMS IN THE VISUAL ARTS

(1-6) 3 semester hours
Students will select in consultation with the instructor a specific area and medium in the visual arts to which the work will be restricted. Evidence of performance is presented in the form of completed art work. A maximum of six credits in a single area of study may be obtained.

Prerequisite: the most advanced course offered in the area of study, upper-class standing, and permission of instructor and department chairman. Requests for this course must be submitted one month prior to the end of the preceding semester.

ART 391: READING AND RESEARCH

(3) 3 semester hours
The student will select in consultation with the instructor a specific topic or problem. Evidence of performance is presented in the form of a report or discussion. This course may be repeated.

Prerequisite: the most advanced course offered in the area of study, Upper-class standing, and permission of department chairman. Requests for this course must be submitted one month prior to the end of the preceding semester.

ART 392: SENIOR STUDIO

(4) 3 semester hours
This course through its various sections provides an opportunity for the student to focus upon an area of interest and synthesize previous knowledge and experience. Sections of this course approach topics that involve in-depth exploration and conceptual inquiry issues, technology and visual form. Detailed information on the various sections may be obtained from the department. May be repeated for credit.

Prerequisite: art major with senior standing or permission of instructor and department chairman.

ART 450: ADVANCED TOPICS IN STUDIO ART

(4) 3 semester hours
This course examines topics in a particular area of studio arts on the graduate level. A student may repeat this course.

Prerequisite: consent of chairman and permission of instructor.

ART 480: WORKSHOP IN THE VISUAL ARTS

This workshop is concerned with various studio topics in the visual arts. The number of credit hours and prerequisite are determined by the particular workshop offered.

ART 560: GRADUATE SEMINAR IN THE VISUAL ARTS

(3) 3 semester hours
Selected topics, announced in advance, focus upon current issues concerning philosophical, historical, social or aesthetic problems in art and art education. Structural concepts and methods of inquiry relevant to such problems will be identified.

Prerequisite: consent of instructor.

ART 590: DIRECTED GRADUATE STUDY

(1-6) 3 semester hours
This course is open to Master of Arts in Teaching candidates in art only. Research is conducted under the supervision of a member of the department.

Prerequisite: consent of department chairman.

DEPARTMENT OF BIOLOGY

All of the courses offered by this department are unreserved arts and sciences courses.

• BIOLOGY 101: INTRODUCTORY BIOLOGY

(4) 4 semester hours
This course introduces the fundamental principles and concepts of life. The molecular and cellular nature of living systems is stressed.

Two lecture periods and one three-hour laboratory period.

• BIOLOGY 102: INTRODUCTORY BIOLOGY

(4) 4 semester hours
This course is a continuation of Biology 101. Organismal biology is emphasized and interactions among groups of organisms and their environment are also stressed.

Two lecture periods and one three-hour laboratory period.

Prerequisite: Bio 101.

BIOLOGY 220: CELL AND MOLECULAR BIOLOGY

(4) 4 semester hours
The structure and function of cells as living units is presented. Cell metabolism, reproduction and steady-state controls are discussed. The biochemical and ultra-structural nature of cells is examined. Laboratory work involves the application of microscopy and the various biochemical-biophysical techniques used in the study of cells.

Three one-hour lectures and one three-hour laboratory period.

Prerequisite: Bio 101-102.

BIOLOGY 221: GENETICS

(4) 4 semester hours
This course is designed to present a balanced treatment of classical Mendelian concepts, population topics and the recent advances in molecular genetics. Laboratory work relies extensively on the use of microorganisms with some use being made of the more traditional materials to investigate the areas of transmission, bacterial transformation, biochemical mutants and population genetics.

Three lecture periods and one three-hour laboratory period.

Prerequisite: Bio 101-102.

BIOLOGY 300: DEVELOPMENTAL BIOLOGY

(4) 4 semester hours
A descriptive and experimental approach to plant and animal ontogeny with consideration of morphogenesis, induction, growth, regulation and differentiation.

Three one-hour lectures and one three-hour laboratory period.

Prerequisite: Bio 101-102.

BIOLOGY 310: NONVASCULAR PLANTS

(4) 4 semester hours
This course provides a detailed survey of the anatomy and morphology of nonvascular

plants exclusive of bacteria. Included are the algae, fungi, bryophytes and lichens. Possible evolutionary sequences within and between groups are considered and special attention is given to the unique structures developed by these groups.

Three lectures and one three-hour laboratory period.

Prerequisite: Bio. 101-102.

BIOLOGY 311: VASCULAR PLANTS

4 semester hours

This course deals with the structure, life histories and evolutionary development of the major vascular plant groups both past and present. The origin and development of important organs such as flowers, stems, roots and leaves are studied.

Three one-hour lectures and one three-hour laboratory period.

Prerequisite: Bio. 101-102.

BIOLOGY 314: PLANT PHYSIOLOGY

4 semester hours

Presented in this course are the mechanisms by which plants obtain their nutrients, grow, develop and interact with their environment. Major consideration is given to such fundamental processes as translocation, absorption, photosynthesis, respiration and reproduction.

Three one-hour lectures and one three-hour laboratory period.

Prerequisite: Bio. 220 or consent of instructor.

BIOLOGY 318: ECOLOGY

4 semester hours

The objective of this course is to give the student a firm background in the fundamental concept of the ecosystem. Emphasis is placed on how the interaction of environmental factors have shaped, influenced and controlled the distribution of biomes, communities and populations. Field experience is provided by a series of trips to a variety of terrestrial and aquatic communities.

Three lectures and one three-hour laboratory period.

Prerequisite: Bio. 101-102.

BIOLOGY 321: INVERTEBRATE ZOOLOGY

4 semester hours

The study of common invertebrate types, their life histories, adaptive morphology and physiology with respect to their environment as well as to their phylogenetic position are considered. The laboratory consists of dissections and experiments on selected invertebrate types.

Three lecture periods and one three-hour laboratory period.

Prerequisite: Bio. 101-102.

BIOLOGY 324: VERTEBRATE ZOOLOGY

4 semester hours

The study is concerned with the animals in the subphylum vertebrata. The origin, evolution, life history and adaptation of this group is studied. The local fauna is stressed in the laboratory.

Three lectures and one three-hour laboratory period.

Prerequisite: Bio. 101-102.

BIOLOGY 326: ANIMAL BEHAVIOR

4 semester hours

This course will involve an analysis of the biological basis of animal behavior as an integrating phenomenon in the animal kingdom. Physiological, environmental and evolutionary aspects of behavioral adaptation will be examined. Special emphasis will be placed on social interactions, such as aggressive and defensive behavior, courtship and mating, animal communication and abnormal behavior patterns. The laboratory session will include experimental observation of behavior patterns exhibited by selected animal types under laboratory field conditions.

Three lecture periods and one three-hour laboratory period.

Prerequisite: Bio. 101-102.

BIOLOGY 329: COMPARATIVE VERTEBRATE ANATOMY

4 semester hours

Comparison of the anatomy and the functions of the vertebrates from the evolutionary point of view is presented in this course. Detailed dissection of selected representatives from five classes of vertebrates will be included in the laboratory.

Three lectures and one three-hour laboratory period.

Prerequisite: Bio. 101-102.

BIOLOGY 331: HUMAN ANATOMY

4 semester hours

The study of the human organism with respect to the histological and gross anatomy using a systematic approach. Laboratory work includes dissection of appropriate animals and isolated organs.

Three one-hour lectures and one three-hour laboratory period.

Prerequisite: Bio. 101-102.

BIOLOGY 335: VERTEBRATE PHYSIOLOGY

4 semester hours

Body processes of chordates, common for this animal group, are stressed and physiological diversity considered. Suitable laboratory animals and human subjects are used.

Three lecture periods and one three-hour laboratory period.

Prerequisite: Bio. 101-102.

BIOLOGY 336: PHYSIOLOGY OF EXERCISE

3 semester hours

Emphasis is placed on muscle physiology and the integrated adjustments of the human organism to exercise. Concepts related to biological work, efficiency, strength and endurance are developed. Metabolic and homeostatic mechanisms associated with muscle activity are studied.

Two lecture periods and one three-hour laboratory period.

Prerequisite: Bio. 335.

BIOLOGY 348: MICROBIOLOGY

4 semester hours

The course will deal with microbial structure and metabolism, dynamics of microbial populations, disease causation, microbial genetics and virology.

Three hours of lectures and three hours of laboratory.

Prerequisite: Bio. 101-102.

BIOLOGY 349: BIOLOGICAL TECHNIQUES

4 semester hours

Presented in this course are the techniques needed for scientific research and teaching, such as processing of tissues for microscopic examination, instrumentation, the collecting, preserving, mounting and displaying of plant and animal specimens. Experience is also gained in animal room and greenhouse care and procedures.

One lecture and two three-hour laboratory periods.

Prerequisite: Bio. 101-102.

BIOLOGY 350: EVOLUTION

3 semester hours

A modern synthesis of evolutionary concepts is presented. An interdisciplinary approach is used to examine evolutionary trends of plants and animals, the origin of life, molecular evolution and speciation.

Three lecture periods.

Prerequisite: Bio. 221.

BIOLOGY 402: MYCOLOGY

4 semester hours

This course presents the morphology, taxonomy and economic importance of the fungi. Laboratory periods generally consist of a detailed study of representative organisms; but techniques of isolation, pure culture and maintenance of pure culture will be described.

Three one-hour lectures and one three-hour laboratory period.

Prerequisite: Bio. 310.

BIOLOGY 404: BIOGEOGRAPHY

3 semester hours

This course is concerned with the distribution, composition and importance of the world's major biomes. The reasons for various types of distribution patterns, floral and faunal composition, past distributions and evolution of the present day biomes are studied in detail.

Three one-hour lectures.

Prerequisite: Bio. 318 or permission of instructor.

BIOLOGY 405: MAMMALOLOGY

4 semester hours

A study of the mammals, their identification, life histories and economic importance with special attention to the local fauna. Laboratory sections will involve the collection, identification and mounting of mammals.

Three one-hour lectures and one three-hour laboratory period.

Prerequisite: Bio. 324.

BIOLOGY 410: BIOCHEMISTRY

3 semester hours

A discussion of the physical and chemical properties and metabolism of proteins and nucleic acids. Emphasis is placed on the properties of enzymes and enzyme systems, the role of vitamins as coenzymes and the biochemistry of heredity.

Three one-hour lectures.

Prerequisite: Chem. 205-206.

BIOLOGY 411: BIOCHEMISTRY

3 semester hours

A discussion of the physical and chemical properties of carbohydrates and lipids. Emphasis will be placed on intermediary metabolism, including bioenergetics, respiration, photosynthesis and hormonal regulation of metabolism.

Three one-hour lectures.

Prerequisite: Bio. 410.

BIOLOGY 412: BIOCHEMISTRY LABORATORY

2 semester hours

Laboratory experiments dealing with chemical and physical properties and metabolism of the main classes of biological molecules. The course provides laboratory experiments to complement Biology 410-411.

Two three-hour laboratories.

Corequisite or prerequisite: Bio. 411.

BIOLOGY 425: CYTOLOGY

4 semester hours

The cell as the structural unit of living organisms is discussed. In considering the close relationship of cellular structure and functions, developmental, cytogenetic and biochemical aspects are emphasized.

Three lecture periods and one three-hour laboratory period.

Prerequisite: Bio. 220 and Chem. 205-206 or consent of instructor.

BIOLOGY 427: ENTOMOLOGY

4 semester hours

This is a study of the anatomy, physiology, development, ecology, taxonomy and evolution of insects and their relationship to other animals. Consideration of their life histories, social structure, economic importance and control is also given. Field trips are required.

Three lectures and one three-hour laboratory period.

Prerequisite: Bio. 321.

BIOLOGY 428: CELLULAR PHYSIOLOGY

4 semester hours

This course considers the functions of cells such as respiration, active transport and biosynthesis of macromolecules which are common to all cells. Certain specialized topics

such as photosynthesis, nerve impulse conduction, integration and control of cellular activities are also discussed.

Three lecture periods and one three-hour laboratory period.

Prerequisite: Bio. 220 and Chem. 205-206.

BIOLOGY 429: ADVANCED MICROBIOLOGY

4 semester hours

An examination of the macromolecular architecture of microbes as related to their morphology and function is presented. Nutritional aspects and generation of activated metabolites and their role in macromolecular synthesis are discussed. Microbial cytology, evolution, ecology and systematics are examined. Properties of the pathogenic bacteria and viruses are considered.

Three hours of lecture and one three-hour laboratory.

Prerequisite: Bio. 348 and Chem. 205-206.

BIOLOGY 430: IMMUNOBIOLOGY

4 semester hours

The characteristics of antigens, the nature of the immune state and the use of antibodies in studies of biological problems are considered. The contributions of serology to systematics and evolution, biochemical individuality, development and genetics are stressed.

Two lectures and one four-hour laboratory period.

Prerequisite: Bio. 101-102 and Chem. 205-206 or consent of instructor.

BIOLOGY 431: ENDOCRINOLOGY

4 semester hours

Chemical control of animal physiology as it involves the structure and function of the endocrine glands and effects of hormones on function and malfunction will be considered. Current methods of measuring hormones, including radioimmunoassay, will receive theoretical and practical consideration.

Three lecture periods and one three-hour laboratory period.

Prerequisite: a course in physiology and/or consent of instructor.

BIOLOGY 432: ADVANCED DEVELOPMENTAL BIOLOGY

4 semester hours

An examination of the molecular regulation of development, differentiation, control of the cell cycle and regeneration. Emphasis will be on recent research.

Three one hour lectures and one three hour laboratory period.

Prerequisite: Bio. 220, 221 and 300 or the equivalent.

BIOLOGY 460: GRADUATE SEMINAR

1 semester hour

Reports and discussion of current biological topics are presented.

One hour discussion a week.

Prerequisite: graduate standing; open to undergraduates with consent of department chairman.

BIOLOGY 491-494: PROBLEMS IN BIOLOGY

1-4 semester hours

Students examine the experimental aspects and recent advances in different fields of biology and are required to initiate research projects and to submit papers on the work accomplished. A maximum of four credits may be earned in the sequence of Biology 491-494, not open to students enrolled in M.A. program.

Prerequisite: two 300-level biology courses or approval of department chairman.

BIOLOGY 551-554: ADVANCED TOPICS IN BIOLOGY

1-4 semester hours

Student will study advanced topics in biology under the direction of a member of the biology department faculty. Open only to students enrolled in the MA program in biology. Students in the MAT program may take this course only with permission of the department chairman. A maximum of four credits may be earned in the sequence 551-554.

BIOLOGY 591-596: DIRECTED RESEARCH

1-6 semester hours

A student will pursue research on an experimental question in biology under the direction of his major adviser. This course is available only to students admitted to the MA program in biology. A total of six semester hours may be taken in the sequence Biology 591-596.

Prerequisite: permission of the adviser and the department chairman.

BLACK STUDIES

This course is an unrestricted arts and sciences course.

INTERDEPARTMENTAL COURSE 361: SEMINAR IN BLACK STUDIES

3 semester hours

This seminar provides a culminating experience in Black studies.

Prerequisite: permission of instructor and coordinator of Black studies. Restricted to students in the interdepartmental concentration in Black studies.

CHEMISTRY

(Department of Physical Sciences)

All of the courses offered by this department are unrestricted arts and sciences courses.

• **CHEMISTRY 103-104: GENERAL CHEMISTRY**

8 semester hours

Topics include stoichiometry, periodicity, atomic theory, chemical bonding, kinetic molecular theory, kinetics, thermodynamics, electrochemistry and equilibrium. Throughout the course considerable emphasis is placed upon the relationship between conceptual models and empirical observations.

Two semesters. Three lecture periods and one three-hour laboratory period.

CHEMISTRY 103H-104H: HONORS GENERAL CHEMISTRY

8 semester hours

This course is intended for the student with a good background in science and math, especially those continuing in science. It will include all topics covered in Chemistry 103-104. Additional topics such as nuclear chemistry, organic chemistry, spectroscopy and coordination chemistry will be included. The laboratory will feature individual research projects in addition to traditional experiments. The course carries the credit equivalent to Chemistry 103-104.

Two semesters; three lecture periods and one three-hour laboratory period.

CHEMISTRY 205-206: ORGANIC CHEMISTRY

8 semester hours

This is a two-semester course on the structure and reactions of compounds ranging from the simple methane series to complex heterocyclic compounds. Emphasis is placed upon important functional groups and upon general types of organic reactions. Mechanisms are treated as an integral part of the development. The laboratory is planned to correlate closely with the theoretical treatment.

Two semesters. Three lecture periods and three hours of laboratory.

Prerequisite: Chem. 103-104.

CHEMISTRY 301-302: PHYSICAL CHEMISTRY

8 semester hours

This course presents, through rigorous quantitative approaches, topics in kinetic molecular theory, thermodynamics, kinetics, phase equilibria, solutions and statistical mechanics. Chemical bonding and molecular spectroscopy are discussed within the framework of wave mechanics.

Two semesters. Three lecture periods and three hours of laboratory.

Prerequisite: Math. 314, Physics 101-102 or 103-104 and Chem. 103-104

CHEMISTRY 303: INORGANIC CHEMISTRY

3 semester hours

The quantum mechanical basis of chemical bonding will be used to explain the properties, structure and reactions of the elements and their compounds.

One semester. Three lecture periods.

Prerequisite: Chem. 103-104, Math. 212 and 313 or permission of instructor.

CHEMISTRY 304: ANALYTICAL CHEMISTRY

4 semester hours

Theory and applications of volumetric, gravimetric and instrumental methods of analysis are considered. Instrumentation includes spectrophotometry, potentiometry, conductivity, polarography, chromatography and flame photometry.

One semester. Three lecture periods and three hours of laboratory.

Prerequisite: Chem. 103-104, Physics 101-102 or 103-104.

CHEMISTRY 321: IDENTIFICATION OF ORGANIC COMPOUNDS

4 semester hours

The course deals with the theory and practice of separation and identification of organic compounds. Both chemical and physical methods will be considered. The physical methods include infrared, mass and nmr spectrometry.

The laboratory work involves the identification of individual compounds and the separation and identification of the components of mixtures.

Prerequisite: Chem. 205-206.

CHEMISTRY 305: TOPICS IN CHEMISTRY

3-4 semester hours

This course examines topics in a particular area of chemistry. A student may repeat this course with a change in content. If the topic under study requires laboratory or field work, four credits will be assigned for the course.

Prerequisite: consent of department chairman.

CHEMISTRY 390: INDEPENDENT STUDY IN CHEMISTRY

3 semester hours

Students enrolled in this course will study independently in an area of chemistry under the guidance of a member of the physical science faculty. The particular area of chemistry will be selected on the basis of the interests of the student and instructor.

Open only with consent of department chairman.

CHEMISTRY 391, 392, 393: PROBLEMS IN CHEMISTRY

1-3 semester hours

The student does research in a topic selected after consultation with the instructor and prepares a report of the work. A maximum of six credits may be earned in these courses.

Admission and credit are to be determined in consultation with the instructor and department chairman.

CHEMISTRY 490: INDEPENDENT STUDY IN CHEMISTRY

3 semester hours

Students enrolled in this course will study independently in an area of chemistry under the guidance of a member of the physical science faculty. The particular area of chemistry will be selected on the basis of the interests of the students and instructor.

Open only with consent of department chairman.

COMMUNICATIONS

(Department of Communications and Theatre)

All of the courses offered by this department are unrestricted arts and sciences courses.

• **COMMUNICATIONS 111: APPROACHES TO SPEECH****COMMUNICATION**

4 semester hours

The course introduces the student to basic concepts of and approaches to the study of speech communication and to how these concepts and approaches apply in different communication settings. The course includes a series of practical applications of the basic concepts through structured communication experiences. The course may not count toward a major in communications and theatre.

COMMUNICATIONS 208: FUNDAMENTALS OF ORAL COMMUNICATION

3 semester hours
The purpose of this course is to develop basic oral communication skills through directed practice in individual and group experiences. Emphasis is on the selection and organization of material, use of reasoning and evidence, speech construction and methods of delivery.

COMMUNICATIONS 220: VOICE AND ARTICULATION

3 semester hours
An intensive examination is made of the mechanics and physiological bases of speech. The International Phonetic Alphabet and the application of phonetics to the discrimination and improvement of speech sounds is also included. Special attention is given to the student's individual problems and improvement in the areas of vocal quality, articulation and pronunciation.

COMMUNICATIONS 221: INTRODUCTION TO SPEECH

4 semester hours
This course is an introduction to the etiology, diagnosis and treatment of various types of speech disorders. Each student is required to complete five hours of supervised observation of therapy in schools or clinics.

COMMUNICATIONS 222: PHONETICS

3 semester hours
The production of speech sounds of the English language with application of the International Phonetic Alphabet is studied. Practice in dictation and phonetic transcription is included.

*** COMMUNICATIONS 240: MASS COMMUNICATION**

3 semester hours
The institutions, history and technology of the mass media are examined as communications systems. Newspapers, film and broadcasting media are studied in terms of social and personal impact. Contemporary media issues, policies and ethics are discussed.

COMMUNICATIONS 251: ARGUMENTATION AND DEBATE

3 semester hours
A study of analysis, evidence, logic, refutation and briefing, this course provides practical experiences in delivering debates on contemporary issues. Emphasis is on the development of critical thinking and effective communication.

COMMUNICATIONS 252: SPEECH COMMUNICATION AND CONTEMPORARY ISSUES

3 semester hours
Significant current issues are examined as they are reflected in the speeches of the times. Students will analyze the speeches in light of the events and the socio-political context in which the issues emerge.

COMMUNICATIONS 254: COMMUNICATION IN BUSINESS AND THE PROFESSIONS

3 semester hours
Study and practicum in special types of speaking in professions and in business and industry. Methods of organizing and conducting meetings. Course includes tours, guest speakers and projects.

COMMUNICATIONS 255: COMMUNICATION THEORIES

4 semester hours
A study is made of the theories having contributed significantly to the understanding of speech communication habits and processes including those dealing with the origin of language, learning to speak, personal communication breakdown, feedback and cybernetics, verbal and non-verbal codes, and the relationship between communication and culture. Psychological principles in the communication process are applied to individual and group communication, personality and speech.

COMMUNICATIONS 258: INTERPERSONAL COMMUNICATION

3 semester hours
By participating in a series of communication games, the student explores the basic elements of interpersonal communication. The course is designed to help students augment their own communication as they learn to understand the underlying communication process in human interaction.

COMMUNICATIONS 302: FUNDAMENTALS OF ORAL INTERPRETATION

3 semester hours
This course introduces the student to the procedures of analysis, preparation and delivery of literary selections for oral interpretation purposes. The student concerns himself with the demands made by a variety of literary forms, including dramatic literature, prose and poetry. The emphasis is on experiencing and leading others to the subtleties of good literature. (same as Theatre 302)

It is recommended that majors enroll in Comm. 220 before taking this course.

COMMUNICATIONS 321: SPEECH AND LANGUAGE DEVELOPMENT

3 semester hours
The course includes the theories of normal speech and language, and the factors which may impede normal development. Observation in schools and clinics will be utilized.

COMMUNICATIONS 325: VOICE AND ARTICULATION DISORDERS

3 semester hours
The student is introduced to the study of the etiologies, types, diagnosis and treatment of selected voice and articulation disorders. Films, tapes and observations of therapy in schools and clinics will be employed.

COMMUNICATIONS 341: INTRODUCTION TO CINEMA

3 semester hours
Study of the film medium as part of the mass media environment. Covering film theory and motion picture technical development, emphasis will be placed on the role of cinema in the social development of mass audiences. Film presentations serve as prime source materials.

COMMUNICATIONS 342: BASIC FILMMAKING

3 semester hours
The production of student films using super 8MM and 16MM formats. Technical and theoretical aspects of filmmaking will be explored in workshop situation. Emphasis will be placed on solving problems in script writing, cinematography, sound and editing. The cost of film and processing will be absorbed by the student.

Prerequisite: Comm. 341 or permission of instructor.

COMMUNICATIONS 345: FILMMAKING ANIMATION

3 semester hours
The student is interested in camera operation, animation effects and methods, and the basics of film editing. The emphasis is on creating and exploring animated images. The cost of film and processing will be absorbed by the student.

Prerequisite: Comm. 341 or permission of instructor.

COMMUNICATIONS 346: INTRODUCTION TO BROADCASTING

3 semester hours
The student investigates the historical growth and social implications of radio and television. Emphasis is placed on analyzing the cultural impact of broadcasting programming. The future of broadcasting, especially cable television is investigated.

The course does not include production.

COMMUNICATIONS 347: TELEVISION PRODUCTION

3 semester hours
Participation and practice in writing, producing, directing and performing in television productions, including the portable video-tape format will be emphasized. The course provides the student with the opportunity to study the technical, legal and corporate area of broadcasting and to practice broadcast program creation under laboratory circumstances.

Prerequisite: Comm. 346 or permission of instructor.

COMMUNICATIONS 351: PERSUASION

3 semester hours
A study is made of the basic elements inherent in persuasion and the means of influencing individuals and audiences through verbal appeals. Representative persuasive

speeches are analyzed and practice is provided in securing the acceptance of ideas and controlling belief and behavior by implementing these principles.

COMMUNICATIONS 353: HISTORY OF PUBLIC ADDRESS 4 semester hours
A rhetorical study is made of important speakers and their speeches from classical Greek and Roman times to the present with reference to social and political movements having been affected decisively by the power of the spoken word.

COMMUNICATIONS 354: LEADERSHIP AND MANAGEMENT COMMUNICATION 3 semester hours

A study is made of the problems and methods of improving communication used by leaders and managers in organizations and businesses, whether interpersonal, small group, or public communication. Among the topics to be investigated will be vertical and horizontal communication patterns, the relationship of communication to human motivation and decision making.

COMMUNICATIONS 355: LANGUAGE AND THOUGHT IN COMMUNICATION 3 semester hours

The course examines communicative behavior, the symbolizing process, problems of communication failure, and how persons respond to words and symbols drawing upon general semantics and the relationship between language, reality and human behavior.

COMMUNICATIONS 356: DISCUSSION AND GROUP COMMUNICATION 4 semester hours

This course emphasizes the principles and practice of discussion as employed in com mittees, panels, symposiums and forums with particular attention to the development of group leadership skills, cooperative problem-solving methods and the elements of interpersonal communication. Students plan and participate in discussions of contemporary problems. The theory and techniques of parliamentary procedure are studied and applied in the discussion setting.

COMMUNICATIONS 358: ADVANCED INTERPERSONAL COMMUNICATION 3 semester hours

In this advanced course the student explores the theoretical and conceptual nature of interpersonal communication. Lectures and discussion are based on the extensive literature in communications research from which modern interpersonal communication theories are derived.

COMMUNICATIONS 361: SEMINAR IN COMMUNICATIONS 3 semester hours
This course is designed to provide the student with an opportunity to explore in depth an area in communications, pursuing investigations into specialized problems or theories. May not be taken more than twice. A student may not take more than nine semester hours in any combination of Communications 361, 390, 391.

Prerequisite: successful completion of 12 credit hours in communications courses and permission of instructor.

COMMUNICATIONS 378: COMMUNICATIONS INTERNSHIP 9 semester hours
This program is designed to enable the student to gain a more comprehensive understanding of the professional media through on-the-job training. It offers professional instruction, supervision, and practice in broadcasting, filmmaking, journalism, advertising, and public relations. The course is open only to communications majors who are juniors or seniors. Application must be made during the semester prior to the period of internship.

COMMUNICATIONS 390: INDEPENDENT STUDY IN COMMUNICATIONS 3 semester hours
The student selects an area for concentrated study under the supervision of department faculty adviser. The course could involve creative work accompanied by a written analy-

sis or scholarly research culminating in a thesis paper. May be taken not more than twice. A student may not take more than nine semester hours in any combination of Communications 361, 390, 391.

Prerequisite: successful completion of 12 semester hours in communications courses and permission of instructor.

COMMUNICATIONS 391: SPECIAL PROBLEMS IN COMMUNICATION 3 semester hours

The student selects with the aid of a faculty adviser a practicum-oriented problem on which to concentrate for the semester. The course will consist of periodic conferences between student and adviser, a tangible project and a written report of the procedures followed in accomplishing the project. May be taken not more than twice. A student may not take more than nine semester hours in any combination of Communications 361, 390, 391.

Prerequisite: successful completion of 12 semester hours in communications courses and permission of instructor.

COMMUNICATIONS 457: SPEECH COMMUNICATION AND SOCIETY 3 semester hours

The influence of speech communication on propaganda is studied in terms of theory, methods and impacts. Special attention is given to sociology, demagoguery, censorship, public opinion formation, rumor and panic. Selected readings, recordings, films, video tapes and student projects augment lectures and discussions.

COMMUNICATIONS 461: SEMINAR IN MASS COMMUNICATIONS 3 semester hours

Students participate in maintained analysis of specialized problems, policies and forecasts in mass communications. Specific topics may vary from semester to semester. Limited to seniors and graduate students.

Prerequisite: Comm. 240 or permission of instructor.

COMMUNICATIONS 460: WORKSHOP IN COMMUNICATIONS
Selected topics are investigated in various formats. Credits and prerequisite vary.

COOPERATIVE EDUCATION

All of the courses are restricted arts and sciences courses.

COOPERATIVE EDUCATION 261: FIELD EXPERIENCE I 3-12 semester hours
Students in this course are placed in work situations under the supervision of the college and the agency providing the placement. They participate in a seminar program and must meet other appropriate academic requirements established during the semester. Each placement and set of formal requirements are established with the approval of the chairman of the appropriate department(s).

Prerequisite: approval of the director and the agency.

COOPERATIVE EDUCATION 262-263-264: FIELD EXPERIENCE II-III-IV 3-12 semester hours

These courses provide additional work experiences for students who have satisfactorily completed the appropriate previous seminars. A seminar program is included in these courses. Each placement and its academic requirements are established with the approval of the chairman of the appropriate departments.

Note: All cooperative education courses are offered only for credit/no credit.

Prerequisite: previous cooperative education course completed satisfactorily and approval of the director and the agency.

DEPARTMENT OF COUNSELOR EDUCATION

None of the courses offered by this department are arts and sciences courses.

COUNSELOR EDUCATION 401: INTRODUCTION TO PUPIL PERSONNEL SERVICES 3 semester hours

Consideration is given to the nature and need for pupil personnel services, evaluation and operation of the major services, understanding of the individual, imparting of guidance principles, counseling of the individual, placement and follow-up. This is a basic course for the school counseling track.

COUNSELOR EDUCATION 402: INTRODUCTION TO SOCIAL AND REHABILITATIVE SERVICES 3 semester hours

Consideration is given to the nature and need for social and rehabilitative services, operation of the major services and counseling the disabled and disadvantaged. This is a basic course for the agency and rehabilitation counseling track.

COUNSELOR EDUCATION 403: THEORIES AND METHODS OF COUNSELING 3 semester hours

The nature of the counseling process and theories of counseling are considered in this course. Techniques of interviewing, and common and special counseling problems at various schools and agency settings are studied.

Prerequisite: Coans. Ed. 401 or 402, or these courses taken concurrently.

COUNSELOR EDUCATION 404: COUNSELING CHILDREN: OBSERVATIONAL PROCEDURES 3 semester hours

The course is aimed at identification and assessment of observational procedures employed in the study of the child. A variety of longitudinal and cross-sectional approaches utilizing both objective and subjective techniques are considered. Students are expected to develop observational skills through practice under controlled conditions.

Prerequisite: Coans. Ed. 411.

COUNSELOR EDUCATION 405: PUPIL BEHAVIOR AND ADJUSTMENT PROBLEMS 3 semester hours

Symptoms, causes and treatment of emotional problems of the child from the elementary school through the secondary school are described. Problems peculiar to the school setting, deviant achievement, reading disability, the slow learner, the gifted child, the drop out, delinquency and cultural deprivation are considered and discussed within the context of personality theory.

Prerequisite: Coans. Ed. 401 or 402.

COUNSELOR EDUCATION 406: MEASUREMENT AND TEST INTERPRETATION IN COUNSELING 3 semester hours

Techniques for the effective use of test results in counseling are developed and concepts such as ability, growth, aptitude and capacity are examined with references to these developments. Statistical techniques appropriate for several types of evaluation problems are studied. Analysis of data presented is an essential part of the work.

Prerequisite: Coans. Ed. 401 or 402.

COUNSELOR EDUCATION 407: VOCATIONAL COUNSELING AND PLACEMENT 3 semester hours

Problems dealing with occupational orientation, knowledge of occupational opportunities, aptitudes and interests and theories of vocational choice and "status" are considered in this course. Techniques of placement are considered in terms of the role of the school and of the agency.

Prerequisite: Coans. Ed. 401 or 402.

COUNSELOR EDUCATION 408: MEDICAL INFORMATION FOR COUNSELORS 3 semester hours

This course considers medical problems commonly encountered by counselors who work in agency settings. Additionally, students develop a working knowledge of the medical profession, its specialties and its basic vocabulary.

Prerequisite: Coans. Ed. 401 or 402.

COUNSELOR EDUCATION 409: INTRODUCTION TO GROUP COUNSELING 3 semester hours

The course covers the principles and techniques of group counseling, an analysis of current concepts and procedures of multiple counseling, and the dynamics of the group process. Students will have an opportunity to participate as members in a time-limited group.

Prerequisites: Coans. Ed. 401 or 402 and 403.

COUNSELOR EDUCATION 410: OCCUPATIONAL ANALYSIS AND PLACEMENT OF THE DISABLED AND DISADVANTAGED 3 semester hours

Students in this course will develop skills in assessing the human potential of the disabled and disadvantaged and in utilizing these data to facilitate optimal vocational placement and in job analysis.

Prerequisite: Coans. Ed. 407.

COUNSELOR EDUCATION 411: PRACTICUM IN COUNSELING I 3 semester hours

The practicum offers advanced counseling experience under supervised laboratory conditions emphasizing observation and evaluation by students and instructors in laboratory-seminar sequence. Closed circuit TV, tape recordings and process recordings are used.

Prerequisite: Coans. Ed. 403. Open only to matriculated students in the counseling program.

COUNSELOR EDUCATION 412: PRACTICUM IN COUNSELING II 3 semester hours

Attention is given to the development of special skills in counseling. Self-analysis is stressed, particularly in consideration of the client-counselor relationship. Students enrolled in this course are expected to work with clients under controlled supervisory conditions.

Prerequisite: successful completion of Coans. Ed. 411.

COUNSELOR EDUCATION 413: AGENCY FIELD PLACEMENT I 3 semester hours

Students enrolled in this course are placed in social and rehabilitation agencies for supervised clinical experience. The emphasis is on the translation of training into effective practice.

Prerequisite: successful completion of Coans. Ed. 411. Reserved primarily for those enrolled in the rehabilitation counseling program.

COUNSELOR EDUCATION 414: AGENCY FIELD PLACEMENT II 3 semester hours

A continuation of Agency Field Placement I.

COUNSELOR EDUCATION 415: PROFESSIONAL SEMINAR IN REHABILITATION COUNSELING 3 semester hours

This seminar will examine intensively the current "state of the art" of rehabilitation counseling. Emphasis will be upon readings and presentations that discuss contemporary issues in the profession of rehabilitation counseling and synthesize theory and practice.

Prerequisite: concurrent enrollment in Agency Field Placement II.

COUNSELOR EDUCATION 416: CASE PROBLEMS IN COUNSELING

3 semester hours
This course deals with case methods in counseling and the development of records for an adequate case history. Each student presents a complete case history of an individual having learning problems. Evaluation of the case and plans for helping the client are developed as a part of course requirements.

Prerequisite: *Couns. Ed. 411.*

COUNSELOR EDUCATION 480: WORKSHOP IN COUNSELING

Selected topics are investigated in various formats. Credits and prerequisites vary.

COUNSELOR EDUCATION 505: ORGANIZATION AND ADMINISTRATION OF COUNSELING SERVICES

3 semester hours
This course involves a study of practice, concepts and trends in organization and administration related to the counseling service.

Prerequisite: *master's in counseling or 24 hours in counseling concentration.*

COUNSELOR EDUCATION 510: INTERNSHIP IN COUNSELING I

3 semester hours
This course provides a work setting placement under the supervision of a field supervisor and departmental faculty.

Prerequisite: *materiated CAGS candidates, Couns. Ed. 407, 412, 406, 409 and consent of department chairman.*

COUNSELOR EDUCATION 511: INTERNSHIP IN COUNSELING II

3 semester hours
This course provides the student with opportunity for advanced field experiences under joint direction of field supervision and departmental faculty.

Prerequisite: *Couns. Ed. 510 and consent of department chairman.*

COUNSELOR EDUCATION 512: COUNSELING MINORITY GROUPS

3 semester hours
This course is designed to broaden the understanding and effectiveness of counselors in dealing with specific ethnic groups that include Blacks, Spanish-speaking and Portuguese-speaking minorities. Communication styles, family patterns, social relationships and value systems are examined. Current counseling models are evaluated in terms of their appropriateness for counseling minorities and an attempt is made to modify existing models and/or develop more relevant ones for diverse ethnic groups.

Prerequisite: *Couns. Ed. 411 and consent of department chairman/instructor.*

COUNSELOR EDUCATION 520: COUNSELING WOMEN

3 semester hours
This course will provide a seminar experience dealing with pertinent issues and special concerns related to counseling women. An overview of developmental crises, enculturation, sex-role stereotyping and trauma will be presented within the counseling framework. Assessment of current counseling models will be explored.

Concentration will be focused on the various counseling models employed to assist women develop awareness, understanding, and skills which may enhance potential or emergence.

Prerequisite: *Couns. Ed. 411 and consent of department chairman/instructor.*

COUNSELOR EDUCATION 563: SEMINAR IN COUNSELOR EDUCATION: RESEARCH DESIGN

3 semester hours
The purpose of this seminar is to provide experience designed to enable the student to understand and evaluate research as well as to plan and carry out a research-oriented field project.

Prerequisite: *open only to materiated CAGS candidates, Couns. Ed. 406, and Statistics or Psychology 420.*

COUNSELOR EDUCATION 571: SEMINAR IN SCHOOL COUNSELING

3 semester hours
Provides an opportunity for depth analysis of the counseling function in the school setting. Emphasis is on the synthesis of theory and practice. Consideration is given to both research and evaluation.

Prerequisite: *open to advanced students with consent of department chairman.*

COUNSELOR EDUCATION 582: PRACTICUM IN GROUP COUNSELING

3 semester hours
This practicum offers advanced group counseling experience under supervised laboratory conditions featuring observation and evaluation by students and instructors in laboratory-seminar sequence.

Prerequisite: *materiated CAGS candidates, Couns. Ed. 409 and consent of department chairman/instructor.*

COUNSELOR EDUCATION 583: ADVANCED PRACTICUM IN COUNSELING I

3 semester hours
This course consists of advanced counseling practice with the focus on long-term counseling. Placement is arranged in one educational or agency setting. Joint supervision of this intensive experience will be handled by college and field personnel.

Prerequisite: *materiated CAGS candidates.*

COUNSELOR EDUCATION 584: ADVANCED PRACTICUM IN COUNSELING II

3 semester hours
This course consists of a continuation of advanced counseling practice with the focus on long-term counseling. Placement is arranged in one educational or agency setting. Joint supervision of this intensive experience will be handled by college and field personnel.

Prerequisite: *successful completion of Couns. Ed. 583.*

COUNSELOR EDUCATION 585: COUNSELING WITH PARENTS

3 semester hours
This workshop is designed to provide school counselors with appropriate models and skills for assisting parents with the myriad situations and challenges they face with their children. Methods of instruction will include lectures, discussions, role-playing, videotapes, films and "live" clinical sessions. This course is intended primarily for counselor-trainees who plan to work in the elementary and middle schools.

Prerequisite: *materiated CAGS candidates and Couns. Ed. 412.*

COUNSELOR EDUCATION 586: SUPERVISION IN COUNSELING

3 semester hours
This course involves theoretical concepts and applied skills in the supervision of counseling. Students will have an opportunity to develop their teaching and supervisory skills by assisting staff in the supervision of Counselor Education 580 Practicum in Counseling I.

Prerequisite: *Couns. Ed. 583, and either concurrent enrollment in or completion of Couns. Ed. 584.*

COUNSELOR EDUCATION 990: INDEPENDENT STUDY

3 semester hours
Research related to counseling and helping issues is conducted under the supervision of a member of the department.

Prerequisite: *CAGS candidates and consent of department chairman.*

CURRICULUM

(Department of Administration and Curriculum)

None of the courses offered by this department are arts and sciences courses.

CURRICULUM 480: WORKSHOP IN CURRICULUM

3 semester hours
Topics vary.

CURRICULUM 503: PRINCIPLES OF CURRICULUM CONSTRUCTION AND DEVELOPMENT

3 semester hours
This course is concerned with the objectives, content and organization of all programs in

elementary, secondary, special education and urban education. Principles basic to all curriculum construction and development are examined.

Prerequisite: C.A.G.S. admission or consent of instructor.

CURRICULUM 510: CURRICULUM MATERIALS LABORATORY 3 semester hours
Candidates develop competencies and skills in the selection, organization, utilization and evaluation of instructional materials. In addition to course work, candidates spend 30 clock hours working in a curriculum materials center. Proficiency must be demonstrated.

Prerequisite: Curric. 503.

CURRICULUM 519: CURRICULUM PROBLEMS IN URBAN EDUCATION 3 semester hours

The psychological and sociological characteristics of the inner city child and adolescent are studied. Curriculum models necessary to meet the needs of the inner city youth are constructed. Extensive field work is required as well as demonstrated proficiency in selecting and organizing curriculum materials.

Prerequisite: Curric. 503.

CURRICULUM 532: CURRICULUM THEORY AND RESEARCH 3 semester hours
Examines the rationale for curriculum construction. Study is made of the interrelationship among individual and societal needs and the structure of knowledge. Special consideration is given to a review of research in curriculum as it pertains to the development of theory.

Prerequisite: Curric. 503

CURRICULUM 560: SEMINAR IN CURRICULUM 3 semester hours
Topics vary.

Prerequisite: Consent of instructor

CURRICULUM 561: SEMINAR IN RESEARCH: RESEARCH DESIGN IN CURRICULUM 3 semester hours

The purpose of this seminar is to provide experiences designed to enable the student to understand and evaluate research in the field of curriculum in order to plan and carry out a research-oriented field project.

Open only to accepted C.A.G.S. candidates.

Prerequisite: Curric. 503 and consent of department chairman. Psych. 320 or Psych. 420, or a course in statistics with consent of adviser.

DANCE

(Department of Health and Physical Education)

The restricted arts and sciences courses listed below are Dance 181, 281, 317, 381 and 392. All others are unrestricted arts and sciences courses.

• **DANCE 106: FOLK DANCE** 3 semester hours

This course consists of experiences designed to give the student the ability to analyze folk dance patterns, interpret dance descriptions and develop a repertory of dances. It will stress characteristics of the dancing of many ethnic and national groups.

• **DANCE 107: BEGINNING MODERN DANCE** 3 semester hours

Instruction is focused on rhythmic response, improvisation, alignment and fundamentals of modern dance technique. Simple dance forms are the basis of group choreography. Performance experience in a workshop is provided.

DANCE 108: SOCIAL DANCE 2 semester hours

Students develop competencies in analyzing and performing traditional and contemporary ballroom dances. Included are the waltz, foxtrot, rumba, mambo, tango, charleston, samba, lindy, conga and twist.

DANCE 109: SQUARE AND ROUND DANCE

2 semester hours
Students develop competencies in analyzing, and performing and calling traditional square and round dances.

DANCE 181: DANCE COMPANY

1 semester hour
Credit available to all qualified students who participate for the full academic year.

Prerequisite: membership in Rhode Island College Dance Company and permission of instructor.

DANCE 207: INTERMEDIATE MODERN DANCE

2 semester hours
Dance technique includes more difficult progressions than the beginning level. The range and variety of movement experiences is extended. Students are introduced to Graham and Humphrey technique. Group choreography is extended in form and held to more exacting criteria.

Prerequisite: Dance 107.

DANCE 281: DANCE COMPANY

1 semester hour
Credit available to all qualified students who participate for the full academic year.

Prerequisite: membership in Rhode Island College Dance Company and permission of instructor.

DANCE 302: MUSICAL RESOURCES FOR DANCE

3 semester hours
This course provides experiences in creating and selecting music for dance accompaniment. Experiences include taking rhythmic dictation, composing rhythmic scores and analyzing musical forms. Criteria for selection of music to support, supplement or contrast with dance is developed. Specific attention is given to accompaniment for teaching dance.

DANCE 303: DANCE PRODUCTION

3 semester hours
This course is a study in the fundamentals of technical production of dance concerts and performances. Scenic design for dance and technical aspects of lighting design will be emphasized. A minimum of 20 hours of laboratory work in production will be required.

Two hours of lecture; four hours laboratory.

DANCE 304: CHOREOGRAPHY

5 1/2 semester hours
Students derive a basic concept of, and have guided experience in, choreography. Binary and ternary dance forms are reviewed; rondo, theme and variations, sonata and other forms are choreographed. Dance history is summarized and exemplary performing artists are introduced.

Prerequisite: permission of instructor

DANCE 307: ADVANCED MODERN DANCE

3 semester hours
Dance techniques are refined and elicit great expertise. Dances are choreographed for trio and duets. Performance experience is increased.

Prerequisite: Dance 207

DANCE 308: DANCE THERAPY

3 semester hours
A historical review of dance therapy in the United States introduces a comparison of current philosophies and approaches. All activities are focused on children. An overview of the extent of dance therapy in Rhode Island is made. Practical application with peers, observation of children, films, discussion and study are emphasized.

DANCE 317: DANCE PERFORMANCE

3 semester hours
The craft of dance performance will be studied. The dancer will examine and practice those aspects of performance which lend artistry to productions.

DANCE 381: DANCE COMPANY

1 semester hour
Credit available to all qualified students who participate for the full academic year.

Prerequisite: membership in Rhode Island College Dance Company and permission of instructor.

**DANCE 391: INDEPENDENT STUDY
IN DANCE**

1-3 semester hours

The student working with a faculty adviser, selects a topic for study and researches the topic in depth.

Prerequisite: demonstration of superior ability and initiative in previous dance courses and permission of instructor, department chairman and educational studies dean.

**DANCE 392: INDEPENDENT PERFORMANCE
IN DANCE**

3 semester hours

The student, working with a faculty adviser, selects a specific form or style in dance to which the work is restricted. Evidence of performance is presented during annual spring concert.

Prerequisite: demonstration of superior ability and initiative in previous dance courses and permission of instructor, department chairman and educational studies dean.

DEPARTMENT OF ECONOMICS

The restricted arts and sciences courses in this department are Management 230 and 231. All of the other courses listed below are unrestricted arts and sciences courses.

• ECONOMICS 200: INTRODUCTION TO ECONOMICS

4 semester hours

A survey of economic theory, this course emphasizes the application of theory to present-day problems including economic growth, unemployment, price stability, poverty and environmental pollution.

• ECONOMICS 202: COMPARATIVE ECONOMIC SYSTEMS

3 semester hours

After developing a theory of socialism based on the work of early socialist writers students in this course compare the socialist model with the capitalist economic model. The operations of some modern economies are also studied to determine how they deviate from pure economic theory.

ECONOMICS 211: MICROECONOMIC THEORY AND ANALYSIS

4 semester hours

This course examines the theory of behavior of the individual decision maker in the economic realm. Topics covered will include the theory of consumer behavior, the theory of production, market structures, and the theory of social welfare.

ECONOMICS 212: MACROECONOMIC THEORY AND POLICY

4 semester hours

Beginning with a study of the various theories dealing with the determination of national income, students in this course examine inflation, unemployment, price levels and growth, and compare classical, Keynesian and monetarist theories of income determination with an emphasis on economic stabilization policy.

ECONOMICS 301: HUMAN RESOURCES

3 semester hours

An analysis of the structures and operations of human resource markets including pricing and allocation of labor resources, wage differentials, income distribution, discrimination and unemployment will be covered. Public and private sector investment expenditures on formal schooling, on-the-job training, health care, information costs and human mobility are considered with the emphasis on education.

Prerequisite: Econ. 200, 211 or 212.

ECONOMICS 303: PUBLIC FINANCE

3 semester hours

This course analyzes the role of government in the economy as it allocates resources, distributes income and stabilizes the economy. The effects of federal, state and local expenditure and revenue patterns on the economy are examined.

Prerequisite: Econ. 200, 211 or 212.

ECONOMICS 304: MONETARY ECONOMICS

3 semester hours

The influence of the quantity of money on the American economic system will be studied

by examining the financial institutions and money creating process, emphasizing the role of commercial banks. Consideration is given to the classical Keynesian and monetarist schools of thought on the effect of money on the economic system. The actions of the Federal Reserve to stabilize the economy using monetary policy are also studied.

Prerequisite: Econ. 200, 211 or 212.

ECONOMICS 305: REGIONAL AND URBAN ECONOMICS

3 semester hours

This course applies economic analysis to problems of cities and metropolitan areas. It suggests alternatives in policy decisions toward transportation, congestion, pollution, urban poverty, urban renewal, property taxation and business location. It analyzes the interaction of economic forces and socio-political institutions.

Prerequisite: Econ. 200, 211 or 212.

**ECONOMICS 306: INDUSTRIAL ORGANIZATION AND
MARKET STRUCTURE**

3 semester hours

This course investigates the environment in which American capitalist industries operate. Since elements of monopoly are present, the primary concern is with the conduct and performance of industry in the marketplace with emphasis on the overall well being of society. Anti-trust and other regulatory mechanisms are assessed.

Prerequisite: Econ. 211.

ECONOMICS 317: MATHEMATICAL ECONOMICS

3 semester hours

The student is introduced to mathematical techniques used by economists, including Lagrangian undetermined multipliers, determinants and Cramer's Rule in the theory of production and utility. Further linear models such as linear programming and input-output analysis will be studied.

Prerequisite: Econ. 211 and either Math. 212 or 247.

ECONOMICS 318: ECONOMETRICS

3 semester hours

An introduction to the application of statistics to economic theory, students in this course will review the basic principles of statistics and construct simple econometric models. Topics will include the use of econometrics and the interpretation of results, common econometric problems such as auto-correlation, the estimation of simultaneous models and the problem of identifiability. Two lecture periods and one two-hour laboratory period each week.

Prerequisite: Econ. 212 and Math. 240, 248 or 247.

ECONOMICS 321: INTERNATIONAL ECONOMICS

3 semester hours

This course covers the theory of international trade and the benefits to be gained from trade, the effects of tariffs and quotas, and the effects of customs unions, as well as the theory of international monetary relations which includes determination of exchange rates, balance of payments problems, determinants and effects of capital flows and proposed reforms to the system.

Prerequisite: Econ. 200, 211 or 212.

ECONOMICS 322: ECONOMICS OF DEVELOPING COUNTRIES

3 semester hours

This course begins by looking at the characteristics of developing countries and of the process of economic development. Theories of growth and development are then covered. Emphasis is then given to the areas of capital formation, in industry and agriculture, human resources, including education; entrepreneurship and population, and the effects of foreign trade and aid. The use of economic planning in developing countries is then covered.

Prerequisite: Econ. 200, 211 or 212 or permission of department chairman and instructor.

ECONOMICS 343: HISTORY OF ECONOMIC THOUGHT

3 semester hours

In this introduction to economic intellectual history many of the more important economists will be studied to determine their contributions to the present state of the discipline.

ECONOMICS 348: ECONOMIC HISTORY OF THE UNITED STATES

3 semester hours

This study of the development of the American economy will apply both historical and economic insights to the experience of the United States in an analysis of those forces which have shaped and are shaping the American economic system. (This course is interchangeable with History 348.)

ECONOMICS 360: SEMINAR IN ECONOMIC RESEARCH

3 semester hours

This seminar provides an integrating experience of economic theories, concepts and practices in which students will have the opportunity to examine the literature of significant economic research in microeconomics, macroeconomics and specialized fields within the discipline. This will serve as the basis for their own research to be presented in both oral and written form. The seminar is required for those students seeking honors in economics.

Prerequisite: senior with a major in economics who has completed a minimum of 18 hours in the department or permission of the department chairman.

ECONOMICS 360: WORKSHOP IN ECONOMICS

Selected topics are investigated in various formats. Credits and prerequisites vary.

ECONOMICS 390: DIRECTED STUDY

3 semester hours

The student selects a topic and undertakes concentrated research under the supervision of a faculty adviser. Applications must be submitted to the department chairman by November or May of the preceding semester.

Prerequisite: approval of the department chairman.

ECONOMICS 410: CONCEPTS IN ECONOMIC EDUCATION

3 semester hours

A study is made of selected economic concepts and such economic institutions as markets, business, banking, labor and government. Special emphasis is placed on their significance in the public school curriculum.

Prerequisite: permission of instructor

ECONOMICS 480: WORKSHOP IN ECONOMICS

3-6 semester hours

Selected problems are investigated in various formats. Credits and prerequisites vary.

EDUCATION

While the great majority of courses in education are offered by the Departments of Elementary Education and Secondary Education courses in education are also offered by the Departments of Administration and Curriculum, Industrial Education, Health and Physical Education, Philosophy and Foundations of Education, Art, Music, Mathematics, English, Communications and Theatre, Psychology, Modern Languages and Instructional Technology.

The unrestricted arts and sciences course in this department is 250. None of the other courses listed below are arts and sciences courses.

EDUCATION 200: CONCEPTS IN ART EDUCATION

3 semester hours

This course focuses upon concepts in art as a subject matter discipline as well as concepts of teaching and learning in art. Philosophical, sociological and psychological content integral to the field of art education are explored through readings and discussions. Observations and individualized teaching experiences are included.

Prerequisite: twelve credits in art; Psych 216; *prerequisite or concurrent.*

EDUCATION 210: CONCEPTS OF TEACHING I

(4) 3 semester hours

This course focuses on the analytical study of teaching and the transfer of concepts of learning to teaching situations. The major objectives are the development of the ability to

apply aspects of several analytical techniques to given teaching examples and to demonstrate the significance of the concepts identified as they relate to the teaching/learning process.

Two hours lecture, two hours of laboratory and conference per week.

Prerequisite: Psych 213; *prerequisite or concurrent.*

EDUCATION 250: TOPICS IN EDUCATION

3 semester hours

Contemporary issues and developments in the field of education will be considered. Specific topics will vary and may focus on the child, the schools and the educational community.

EDUCATION 303: PRACTICUM IN ART EDUCATION

4 semester hours

This course is designed to give the student further understanding and experience with conceptual directions, curriculum development, research and evaluation and teaching models in art education. Participation in teaching at both the elementary and secondary levels in actual classroom situations is an important component of this course.

Prerequisite: Ed. 203; cumulative index of 2.0; all art courses in sequence up to junior year, and acceptance into the art education program.

Graduate Prerequisite: Ed. 203; Psych 216; acceptance into MAT-C program.

EDUCATION 308: PRACTICUM IN INDUSTRIAL ARTS

4 semester hours

Comprising this course are three major instructional units, involving observation of accepted practices in industrial arts education, principles and practices of teaching industrial arts and initial participation in the teaching of industrial arts.

Prerequisite: Psych 214; normal standing of fifth semester and special departmental requirements.

EDUCATION 309: PRACTICUM IN MUSIC EDUCATION

6 semester hours

The course is designed to give the student an understanding of principles, programs and practices in teaching music at both elementary and secondary grade levels. Observation of classes and initial participation in teaching are included.

Prerequisite: Music 101; Psych. 216 and special departmental requirements for acceptance into music education program.

EDUCATION 310: PRACTICUM IN SECONDARY EDUCATION (S)

4 semester hours

The secondary practicum is devoted to a study of the principles, curriculum, materials and methods of secondary education. Under the guidance of college and laboratory school instructors, students prepare lessons and work with individual pupils, small groups and classes of secondary school pupils. Each student takes this course under the direction of his major department.

Prerequisite: Psych 214; a class standing of at least the fifth semester, and the minimum index required for retention in educational studies for the related class standing. Additionally, each area of concentration has specific entrance requirements. The student is advised to consult with the Director of Laboratory Experiences and/or the specialist in the area of concern (e.g., English education, mathematics education, etc.).

EDUCATION 311: DEVELOPMENTAL READING IN SECONDARY SCHOOLS

3 semester hours

This course includes: diagnosis of reading abilities, development of specific reading skills such as vocabulary building, word analysis, reading in content areas, examination of instructional materials, and the role of interest and motivation in establishing permanent reading and study habits. Emphasis is given to the role of principal, teacher, librarian and guidance counselor in the reading program. Individually prescribed instruction and school-wide programs are examined.

Prerequisite: Ed. 321, or secondary teaching experience, or consent of program advisor, M.Ed. in reading.

EDUCATION 312: METHODS AND MATERIALS IN TEACHING FOREIGN LANGUAGES (ELEMENTARY SCHOOL)

3 semester hours
This course covers the aims, methods and problems of teaching a second language. It includes observation of language classes in elementary schools. The course is taught by a member of the modern language staff.

EDUCATION 314: PRINCIPLES AND TECHNIQUES OF TEACHING IN THE SECONDARY SCHOOL

3 semester hours
A general methods course designed for college graduates seeking to become certified secondary school teachers. The primary focus of the course is on the development of basic skills and techniques necessary for successful management of a learning environment. The course is activity-oriented and requires the placement of evaluative instruments, lessons for video-taping and analysis, and the construction of instructional aids. The course is restricted to part-time graduate students seeking certification.

Prerequisite: permission of the chairman of the department of secondary education.

EDUCATION 318: PRACTICUM IN HEALTH EDUCATION

4 semester hours
This course is an overview of health education instruction at both the elementary and secondary grade levels. Under the guidance of college and laboratory school instructors, students will examine methods, materials and subject matter in health and prepare units of instruction.

Prerequisite: Health Ed. 201, 202, 301 and Psych. 216, 320, 330; a class standing of at least the fifth semester and the minimum index required for retention in educational studies for the related class standing.

EDUCATION 319: DRIVER EDUCATION

3 semester hours
This is a two-phase program consisting of classroom activities and on-the-road training. The successful completion of the course will certify the students for the teaching of driver education. This course will not count for credit towards a degree.

EDUCATION 320: STUDENT TEACHING IN THE ELEMENTARY SCHOOL

5 or 8 semester hours
This course provides teaching experience in nursery, elementary or middle school classrooms under the joint supervision of a certified cooperating teacher and a college supervisor. Students gradually assume responsibility for a class or a set of classes. Upon request students qualified to teach elementary French are assigned one quarter in elementary French and one quarter in a regular elementary classroom. Students are required to follow the calendar of the school to which they are assigned while student teaching.

Undergraduates in regular elementary and early childhood: one assignment, four and one-half days weekly for one semester, eight semester hours.
Undergraduates in special education: two half-semester assignments, full time, five semester hours in regular classroom and five semester hours in a special education classroom (See Spec. Ed. 303).

Prerequisite: Psych. 213; Ed. 322, 340, 341 and 342; Ed. 210, 328 and 330; or Ed. 210, 329 and 331; adequate health; the attainment of a cumulative index of 2.00 a full semester prior to the commencement of student teaching; the satisfactory completion of all courses required prior to student teaching in the major field and professional sequence; adequate performance in practicum; proficiency in the operation of audiovisual equipment and speech proficiency.

*Students in the early childhood program must complete two of the required three special methods courses prior to student teaching; those in the generalized elementary program are required to select two of these three special methods courses; those in the specialized program are required to select one of these three special methods courses.
Master of Arts in Teaching students; refer to the graduate degree descriptions for requirements and prerequisite.

EDUCATION 321: STUDENT TEACHING IN THE SECONDARY SCHOOL

9 semester hours
This course involves a semester of teaching in a middle, junior or senior high school under the joint supervision of a certified cooperating teacher and a college supervisor. The student assumes increasing responsibility for classroom instruction and for extra class activities expected of a teacher in the subject field. The student also participates in a weekly seminar concerned with the teaching experiences. This seminar is scheduled during the late afternoon, therefore the student is advised that the seminar is scheduled completely during the afternoon in meeting other course obligations. Students observe the calendar of the school to which they are assigned.

Prerequisite: Psych. 214, Ed. 310 or 303, Eng. 332 or 333; adequate health; the attainment of a cumulative index of 2.00 a full semester prior to the commencement of student teaching; the satisfactory completion of all courses required prior to student teaching in the major field and professional sequence; adequate performance in practicum; proficiency in the operation of audiovisual equipment, and speech proficiency.

EDUCATION 322: METHODS AND MATERIALS IN TEACHING READING

4 1/2 semester hours
This course analyzes elementary school reading programs. An investigation is conducted into alternative teaching methods and materials. Construction of materials designed to meet needs of particular learning situations are required.

Two hours lecture, two hours of laboratory and conference per week.

EDUCATION 323: INTERNSHIP IN INDUSTRIAL EDUCATION

9 semester hours
The in-service teacher completes one year of supervised full-time teaching as an employed teacher. This course may not be taken for credit by persons who have completed Ed. 321.

Prerequisite: Voc. Ed. 300, 301, 303, Psych. 214

EDUCATION 324: STUDENT TEACHING IN MUSIC EDUCATION

9 semester hours
Student teaching in music offers the student an opportunity to gain teaching experiences for a half semester each at the elementary and secondary levels under the joint supervision of certified cooperating teachers and a college supervisor. Whenever possible, the student's special interest area is considered in arranging school assignments (i.e., elementary vocal or instrumental, secondary vocal or instrumental, junior high school, general music, etc.). Students are required to follow the calendar of the school to which they are assigned while student teaching.

Prerequisite: Music 103, 105, Ed. 309, Psych. 216; adequate health; the attainment of a cumulative index of 2.00 a full semester prior to the commencement of student teaching; the satisfactory completion of all courses required prior to student teaching in the major teaching field and professional sequence; adequate performance in practicum; proficiency in the operation of audiovisual equipment, and speech proficiency.

EDUCATION 325: STUDENT TEACHING IN ART EDUCATION

9 semester hours
This course involves a semester of teaching art under supervision in both the elementary and secondary schools of the state. Whenever possible the student's special interest area will be considered in arranging secondary school assignments (i.e., ceramics, sculpture, etc.). Students are required to follow the calendar of the school to which they are assigned while student teaching.

Prerequisite: Ed. 203, 303, Psych. 216; special departmental requirements; adequate health; the attainment of a cumulative index of 2.00 a full semester prior to the commencement of student teaching; the satisfactory completion of all courses required prior to student teaching in the major teaching field and professional sequence; adequate performance in practicum; proficiency in the operation of audiovisual equipment, and speech proficiency.

EDUCATION 326: STUDENT TEACHING IN ELEMENTARY SCHOOL PHYSICAL EDUCATION

10 semester hours

This course provides teaching experience in elementary school physical education under the joint supervision of a certified cooperating teacher and a college supervisor. Students participate for five full school days and are expected to assist in after school intramural and recreational programs, meetings and other activities in which the school community is involved.

Students, who anticipate dual assignments for student teaching with both elementary and handicapped children, must meet the requirements stipulated under the physical education program description.

Prerequisite: In addition to satisfactory completion of the departmental prerequisite, successful completion of a total of 21 hours in the major and professional sequences, including *Psych 213*; students must have adequate health; a cumulative index of 2.00 one full semester prior to student teaching; and passing grades in all professional and major courses, adequate performance in practicum, proficiency in the operation of audiovisual equipment, and speech proficiency.

EDUCATION 327: STUDENT TEACHING IN SCHOOL HEALTH EDUCATION

9 semester hours

Student teaching in health education provides the student an opportunity to obtain teaching experiences for a half semester each at the elementary and secondary levels under the joint supervision of cooperating teachers and a college supervisor. The student assumes increasing responsibility for classroom instruction in health while attending a related senior seminar and taking one additional course. Students are required to follow the calendar of the school to which they are assigned while student teaching.

Prerequisite: *Inst. Tech 304, Ed. 318, Health Ed. 304*; adequate health; the attainment of a minimum cumulative index of 2.00 a full semester prior to the commencement of student teaching; the passing of all courses required prior to student teaching in the concentration and the professional sequence; adequate performance in practicum; proficiency in the operation of audiovisual equipment, and speech proficiency.

EDUCATION 328: CONCEPTS OF TEACHING II (EARLY CHILDHOOD) NURSERY-KINDERGARTEN EDUCATION

(4) 3 semester hours

Included in this course are a study of educational programs for nursery school and kindergarten pupils and analyses of curriculum materials and classroom procedures appropriate to young children's initial school experiences. Emphasis is placed on establishing a learning environment where each child can know and appreciate himself as a learner in all aspects of school life.

For students in the early childhood curriculum.

Two hours lecture, two hours of laboratory and conference per week.

Prerequisite: *Ed. 210* and specialized requirements in *English and social science*.

EDUCATION 329: CONCEPTS OF TEACHING II (ELEMENTARY) LANGUAGE ARTS/SOCIAL STUDIES

(5) 4 semester hours

This course focuses on the development of teaching/learning concepts and strategies relating to the teaching of language arts and social studies. Structure, curriculum, media and materials are studied.

For students in the elementary education curriculum.

Three hours lecture, two hours laboratory and conference per week.

Prerequisite: *Ed. 210* and specialized requirements in *English and social science*.

EDUCATION 330: CONCEPTS OF TEACHING III (EARLY CHILDHOOD) PRIMARY EDUCATION

(4) 3 semester hours

This course is an overview of primary instruction with major emphasis on the first and second grades. A systematic examination is made of curriculum materials and classroom

procedures essential to a sound learning environment. Consideration is given to the total integrated curriculum, particularly the development of skills, knowledge and attitudes in language arts, social studies, science and mathematics.

For students in the early childhood education curriculum.

Two hours lecture, two hours laboratory and conference per week.

Prerequisite: *Ed. 210, 328* and specialized requirements in *mathematics and science*.

EDUCATION 331: CONCEPTS OF TEACHING III (ELEMENTARY)

(5) 4 semester hours

This course focuses on the development of teaching/learning concepts and strategies relating to mathematics and science. Curriculum, media and materials and the structure of these areas are studied.

For students in the elementary education curriculum.

Three hours lecture, two hours laboratory and conference per week.

Prerequisite: *Ed. 210, 329* and specialized requirements in *mathematics and science*.

EDUCATION 332: EARLY CHILDHOOD EDUCATION - PART I

3 semester hours

Included in this course are a study of educational programs for pre-school, kindergarten and primary grade pupils and a systematic analysis of sequential curriculum experiences for young children in language arts, social studies, science, mathematics, music and art. Consideration is given to the development of early childhood education and to research findings in this and related fields. This course involves individualized laboratory experiences. Students may not receive credit for both *Ed. 332* and *Ed. 328* and *330*.

EDUCATION 333: PERSONALIZED CLASSROOM READING INSTRUCTION

3 semester hours

The following aspects of personalized classroom reading instruction will be considered in this course: nature of reading differences, guidelines for reading assessment, identification of reading needs, instructional techniques, providing materials, scheduling techniques and making provision for reading differences in the content areas.

Prerequisite: *Ed. 322*.

EDUCATION 340: METHODS AND MATERIALS IN ART EDUCATION

(3) 2 semester hours

This course considers children's art expression in relation to pertinent research and current trends in art education. Workshop experiences with various art materials used in the elementary classroom focus on the development of visual and aesthetic awareness. Elementary classroom observation is included.

EDUCATION 341: METHODS AND MATERIALS IN MUSIC EDUCATION

(3) 2 semester hours

A one-semester study of the theory and pedagogy of teaching music in grades one through six; this course is required of all students concentrating in early childhood education for classroom teachers before practice teaching assignments. It is not for music education students.

EDUCATION 342: METHODS AND MATERIALS IN PHYSICAL EDUCATION

(3) 2 semester hours

Basic principles of physical education programs for elementary schools are covered. The course includes experience in teaching movement through games, rhythms and self-testing activities suitable for various age levels.

EDUCATION 345: METHODS AND MATERIALS IN HEALTH EDUCATION

3 semester hours

A course for elementary school classroom teachers, health specialists, physical educators and other personnel interested in school health instructional programs. The latest methods, procedures and techniques for presenting the knowledge, principles and concepts of

a school health curriculum are surveyed. Instructional materials, their sources, utilization and effects are presented and considered.

EDUCATION 356: MATHEMATICAL STRUCTURES IN THE INTERMEDIATE GRADES 3 semester hours
The teaching of elementary algebra in a framework of the theory of sets is studied with emphasis on the understanding of fundamental principles. It is designed for teachers of grades six through nine.

Prerequisite: at least one year of college mathematics or consent of the instructor. This course may not be counted for credit in addition to either Ed. 310 (Practicum, mathematics section) or Ed. 429 except by explicit special consent of the department in writing.

EDUCATION 360: SENIOR SEMINAR IN SECONDARY EDUCATION (2) 1 semester hour
Taken concurrently with Foundations of Education 302, this course provides a seminar situation for the analysis and discussion of the student's research.

Prerequisite: Ed. 321.
EDUCATION 362: SENIOR SEMINAR IN ART (2) 1 semester hour
This course is designed to serve as the capstone to the sequence of professional courses and to correct the gap between student teaching and full-time teaching. Students and to correct the gap between student teaching and present and defend investigate topics or problems of general concern to art educators and present and defend their findings in the seminar. This course is to be taken the semester following student teaching.

Prerequisite: Ed. 325.
EDUCATION 363: SEMINAR IN URBAN EDUCATION 3 semester hours
In this course the student will be involved in the study of, and in day-to-day experiences in urban schools. The seminar will build upon students' knowledge and understanding developed in the two prerequisite courses and will focus attention on urban youth and urban education through study, research, discussion and visits to urban schools and social agencies. Limited to students in an educational studies curriculum in the semester preceding student teaching.

Prerequisite: Psych. 215 and Soc. 204, 208 or 211.
EDUCATION 360: WORKSHOP IN EDUCATION
Selected topics are investigated in various formats. Credits and prerequisite vary.

EDUCATION 390: DIRECTED STUDY 3 semester hours
The student, working with a faculty adviser, selects a topic for study and researches the topic in depth.

EDUCATION 402: CURRENT PROBLEMS IN EDUCATION 1 semester hour
This course provides intensive treatment of selected educational problems or problem areas.

EDUCATION 404: MATHEMATICS IN THE ELEMENTARY SCHOOLS 3 semester hours
This course is a study of the content and approach to modern mathematics programs with emphasis on current research and curriculum trends.

Prerequisite: Ed. 330 or 331, or elementary experience, or consent of instructor.
EDUCATION 406: EARLY CHILDHOOD EDUCATION - PART II 3 semester hours
A continuation of Education 332, this course includes a study of the organization, administration and evaluation of kindergarten and primary programs. Attention is given to the wide range of early childhood programs, the role of government, the use of community agencies, the variety of staffing plans, the contribution of an interdisciplinary team and the strengthening of home-school relationships.

Prerequisite: Ed. 330 or 332.

EDUCATION 408: LANGUAGE ARTS IN THE ELEMENTARY SCHOOL 3 semester hours

This course approaches language arts from a research base and focuses on the role of creativity in language expression, the sequence in which the child develops linguistic skills and the characteristics of a spiral curriculum organization in the elementary school. This course includes individualized laboratory experiences.

Prerequisite: Ed. 330 or 331 or elementary experience, or consent of instructor.

EDUCATION 409: PSYCHOLOGICAL AND SOCIAL PROBLEMS OF URBAN YOUTH 6 semester hours
This course prepares school people to cope with the psychological and sociological problems commonly found among disadvantaged children and youth. In addition to achieving a specialized approach to psychological and sociological principles of education, students participate in a human relations workshop which seeks to assist them to overcome their fears and feelings of inadequacy when dealing with children or youth of cultures different from their own.

EDUCATION 410-411: PRACTICUM IN URBAN EDUCATION 8 semester hours
This course is chiefly clinical in operation. Under the direction of the unit coordinator, participants observe disadvantaged youth in youth centers, drop-in centers, Upward Bound and Talent Search conferences, and in Family Court. After a period of observation, and participation in appropriate conferences, the participants accept responsibility for working with disadvantaged youth in counseling, advisory and tutorial roles. An important aspect of this experience is a one-to-one relationship with disadvantaged youth. Participants will meet in a weekly seminar. Two semesters.

Prerequisite: Ed. 409 or permission of program coordinator.

EDUCATION 415: LITERATURE IN THE ELEMENTARY SCHOOL 3 semester hours
This course is primarily concerned with the development of various patterns of literature instruction in the elementary school. The development and enrichment of children's literary taste and appreciation are stressed. This course includes individualized laboratory experiences.

Prerequisite: Ed. 330 or 331, or elementary teaching experience, or consent of instructor.

EDUCATION 416: CURRICULA IN SCIENCE 3 semester hours
This course focuses on science curriculum projects and programs of elementary school (K-8) classroom. Topics encompass both textbook and non-textbook basic curricula. The course stresses the philosophical and psychological foundations and models for teaching the new curricula as well as workshop sessions with the materials in light of current recommendations and research data.

Prerequisite: Ed. 418.

EDUCATION 417: TEACHING THE PROCESSES AND CONCEPTS OF SCIENCE 3 semester hours
This course is involved with various models of teaching, conceptual schemes and processes that have been developed in current science programs in the elementary school (K-8). A significant portion of the time will be spent by the student in the investigation of techniques for teaching processes and concepts. Relevant research in the area will be investigated.

Prerequisite: Ed. 416 or consent of instructor.

EDUCATION 418: SCIENCE IN THE ELEMENTARY SCHOOL 3 semester hours
This course emphasizes recent research and curriculum trends in science education. Individual and group laboratory experiences employing various science processes are also included.

Prerequisite: one year of college level science or consent of instructor.

EDUCATION 420 TEACHING INTERNSHIP IN URBAN EDUCATION

3 semester hours

This is a supervised internship. The participant will be a teacher in an urban school supervised by the unit coordinator. M.A.T.-C candidates are supervised cooperatively by the unit coordinator and the appropriate subject matter specialist. M.Ed. and C.A.G.S. candidates are supervised by the unit coordinator. One of the most important functions of the unit coordinator will be to work with the school administration and department heads in order to evaluate his own progress. The internship will normally be completed in one semester and include a weekly seminar. The experience will be evaluated on a satisfactory/unsatisfactory basis.

Prerequisite: Ed. 410-411 or permission of program coordinator.

EDUCATION 421: ART IN THE ELEMENTARY SCHOOL

3 semester hours

This course considers the objectives of an art program in the elementary grades and also the means of presenting, motivating, encouraging and evaluating such a program. Current research and activities in the field are discussed and the class participates in relevant studio activities.

Prerequisite: Ed. 340, art or elementary experience and consent of instructor.

EDUCATION 424: MUSIC IN THE ELEMENTARY SCHOOL

3 semester hours

Conducted as a workshop, the course deals with more advanced topics of concern to both the classroom and music teacher. Areas covered include philosophy, contemporary methodology, research and special problems.

Prerequisite: consent of department chairman.

EDUCATION 427: FOREIGN LANGUAGES IN THE SCHOOLS

3 semester hours

The purpose of this course is to develop more effective foreign language teaching at all levels, through the examination of recent research in methodology and educational media, with particular reference to the contributions made by such areas as psychology, linguistics and social anthropology. Laboratory experiences will be offered.

Prerequisite: Ed. 320 or 321 or equivalent, and/or consent of instructor.

EDUCATION 428: SOCIAL STUDIES IN THE ELEMENTARY SCHOOL

3 semester hours

Students examine and evaluate objectives, content and organization of social studies, curriculum resource materials and selected instructional models in the light of current recommendations and research data.

Prerequisite: Ed. 310 or 331, or elementary teaching experience, and consent of instructor.

EDUCATION 429: MATHEMATICS IN THE SECONDARY SCHOOLS

3 semester hours

This course studies the modern secondary curriculum in mathematics, emphasizing those aspects which are directly concerned with the actual teaching of mathematics. Particular attention is paid to recent curriculum recommendations which affect methodology and the teacher's fundamental approach to mathematics or which propose specific new topics. The course is designed for secondary school teachers of mathematics, in particular for those in M.Ed. or M.A.T. programs.

Prerequisite: at least two years of college mathematics and an introduction to methods of teaching mathematics (such as Ed. 310), or consent of instructor.

EDUCATION 430: INTERNSHIP IN TEACHING MATHEMATICS AT THE JUNIOR COLLEGE

3 semester hours

Under the supervision of a Rhode Island College mathematics education faculty member, the student will plan and carry out teaching activities in mathematics at his own junior college. These activities will be applications of theoretical considerations to which the

student will have been exposed in his C.A.G.S. program.

This course is normally required of and open only to non-certified junior college teachers who are candidates for the C.A.G.S. in Mathematics Education.

Prerequisite: Ed. 429, either previously or concurrently.

EDUCATION 433: ADULT BASIC EDUCATION

3 semester hours

A basic course on the teaching of adults whose educational level is below eighth grade. Social and psychological characteristics of disadvantaged adults and various strategies and materials that are useful in motivating and teaching them will be studied. Demonstrations of useful techniques will be presented and case studies will be analyzed and presented by sub-groups of the students.

Prerequisite: teaching certificate or successful completion of student teaching.

EDUCATION 434: READING IN THE ELEMENTARY SCHOOL

3 semester hours

The following basic aspects of reading instruction are studied in this course: reading readiness, word analysis, vocabulary building, comprehension, oral reading and study skills. Schoolwide reading programs and informal testing strategies are explored.

Prerequisite: Ed. 322, or elementary teaching experience, or consent of program advisor, M.Ed. in Reading.

EDUCATION 441: SCIENCE IN SECONDARY SCHOOLS

3 semester hours

Areas to be examined include evaluation of aims and objectives, selection and organization of content, principles and methods of science teaching and current research in science education.

Prerequisite: Ed. 310 or equivalent, three years teaching experience in science, or consent of instructor.

EDUCATION 442: ENGLISH IN SECONDARY SCHOOLS

3 semester hours

Areas to be examined include evaluation of aims and objectives, selection and organization of content, principles and methods of English instruction and current research in secondary English instruction.

Prerequisite: Ed. 310 or equivalent, three years teaching experience in English, or consent of instructor.

EDUCATION 443: SOCIAL STUDIES IN SECONDARY SCHOOLS

3 semester hours

Areas to be examined include evaluation of aims and objectives, selection and organization of content, principles and methods of social studies instruction and current research in social studies instruction.

Prerequisite: Ed. 310 or equivalent, three years teaching experience in social studies, or consent of instructor.

EDUCATION 444: BIOLOGY IN SECONDARY SCHOOLS

3 semester hours

Areas to be examined include evaluation of aims and objectives, selection and organization of content, principles and methods of biology teaching and current research in biological education.

Prerequisite: Ed. 310 or equivalent, three years teaching experience in biology, or consent of instructor.

EDUCATION 445: THE TEACHING OF WRITING IN SECONDARY SCHOOLS

3 semester hours

Areas to be examined include evaluation of aims and objectives, selection and organization of content, principles and methods of writing instruction and current research and practice in the teaching of writing appropriate to the middle and secondary school levels.

EDUCATION 446: TEACHING ENGLISH AS A SECOND LANGUAGE

3 semester hours

This is a methods course designed for students and teachers who plan to teach or are presently teaching English as a second language. Emphasis will be placed on the sequential nature of second language acquisition. The various teaching techniques to be demonstrated will reflect up-to-date research in applied linguistics.

EDUCATION 447: CONCEPTS IN BILINGUAL-BICULTURAL EDUCATION

3 semester hours
Methods and materials relating to bilingual and bicultural learning situations at all levels are examined and compared. The essential components of a bilingual-bicultural program are identified, and models are constructed for their implementation. Existing materials are researched and evaluated according to criteria pertaining to the several tracks of special classroom conditions. Cultural sensitivity and awareness of individual linguistic variations are key concepts.

EDUCATION 448: DIAGNOSTIC AND PRESCRIPTIVE TEACHING IN BILINGUAL EDUCATION

3 semester hours
Techniques and theories of diagnosing and prescribing pupil's learning needs are studied with an emphasis on procedures for establishing differentiated learning in the bilingual classroom. Students are expected to design and construct a complete differentiated learning materials product and to field-test the product.

EDUCATION 450: METHODS AND PRINCIPLES OF APPLIED LINGUISTICS IN THE CLASSROOM

3 semester hours
This course is based on current research in linguistics and includes the phonological, morphological, syntactic, semantic, dialectic and historical components of the English language. Students will develop an understanding of how language functions, and will apply this to classroom teaching at the elementary level. Traditional, structural and transformational grammars will be examined and their relative value in language arts instruction assessed.

EDUCATION 452: CREATIVE DRAMA AND LITERATURE RESOURCES IN THE CLASSROOM

3 semester hours
This course will explore the experience of creative drama and literature as vital resources for a child's learning and understanding of reading, English and social studies. Through a variety of experiences, both dramatic and literary, a beginning will be made toward the development of instructional strategies and materials.

Prerequisite: Theater 330 or Ed. 435.

EDUCATION 453: DIAGNOSTIC TECHNIQUES IN ELEMENTARY SCHOOL MATHEMATICS

3 semester hours
This course examines principles and approaches of diagnosis of mathematics strengths and weaknesses at the elementary level. Activities in administration and interpretation of commercial, individual and group diagnostic instruments are provided. Diagnostic tests are constructed, administered and evaluated for both clinical and large group use. In addition, current research validating diagnostic techniques will also be examined.

Prerequisite: Ed. 404 or consent of instructor.

EDUCATION 454: TEACHING STRATEGIES IN ELEMENTARY SCHOOL MATHEMATICS

3 semester hours
Emphasis is placed upon teaching strategies which are useful in introducing, developing and providing practice for mathematical topics with elementary school students. Special consideration shall be given to those teaching strategies and guidelines which are appropriate for instruction as a follow-up to a thorough diagnosis of students' strengths and weaknesses. Both remediation and enrichment activities will be stressed.

Prerequisite: Ed. 453.

EDUCATION 455: PRACTICUM IN DIAGNOSTIC TECHNIQUES AND TEACHING STRATEGIES IN ELEMENTARY SCHOOL MATHEMATICS

6 semester hours
This practicum course offered during summer session includes lectures, demonstrations

and clinical activities designed to reinforce theory and develop skills in both the diagnosis and prescriptive treatment of elementary mathematics.

Prerequisite: Ed. 454.

EDUCATION 456/457: INTERNSHIP IN DIAGNOSTIC TECHNIQUES AND TEACHING STRATEGIES IN ELEMENTARY SCHOOL MATHEMATICS

6 semester hours
This internship, conducted during an entire school year, includes lectures, demonstrations with clinical activities in the participant's home school. The clinical experiences are designed to reinforce theory and develop skills in both the diagnosis and prescriptive treatment of elementary school mathematics.

Prerequisite: Ed. 454.

EDUCATION 458: DEVELOPING COMPOSITION AND CREATIVE WRITING SKILLS IN THE ELEMENTARY SCHOOL

6 semester hours
This course will focus on the nature of composition including areas of narration, exposition, description and persuasion. Particular emphasis will be placed on evaluation and motivation of children's writing. The processes involved in creative writing will be examined in depth.

Prerequisite: Ed. 408.

EDUCATION 460: SEMINAR IN EDUCATION

The topics vary.

EDUCATION 465: SECONDARY EDUCATION COLLOQUIUM

The student will analyze the representative literature of historical, descriptive and experimental studies in the field and will become acquainted with the sources and retrieval systems for these materials. Human relations training is included as a part of the colloquium. The literature related to a particular problem in Secondary Education capable of being researched will be synthesized.

EDUCATION 480: WORKSHOP IN EDUCATION

Selected topics are investigated in various formats. Credits and prerequisite vary.

EDUCATION 481: WORKSHOP IN EDUCATION (ALC)

Topics of, and credits for, Alternate Learning Center in-service workshops vary. Enrollment is limited to teachers in the system or systems funded by the Alternate Learning Center.

EDUCATION 485: DIAGNOSIS OF READING DIFFICULTIES

This course includes lectures, demonstration and experiences designed to introduce theory and develop skill in the diagnosis of reading difficulties. It is intended only for students seeking certification as reading specialist. Credit cannot be granted if Ed. 438 has been completed successfully.

Prerequisite: Ed. 434 or 311.

EDUCATION 486: TREATMENT OF READING DIFFICULTIES

This course includes lectures, demonstrations and simulated experiences designed to familiarize the student with current theories, practices and materials used for reading remediation.

Prerequisite: Ed. 485.

EDUCATION 495: FIELD STUDY IN SECONDARY EDUCATION

The student identifies a problem, a question or a need in the field of Secondary Education relating to one of three areas: curriculum, instructional materials or strategies of teaching. Through consultation with the instructor, the student designs (and completes) a field project directed toward the area he has selected.

Prerequisite: Ed. 465, Carr. 503, Ed. 514 and appropriate methods course.

EDUCATION 505: ELEMENTARY SCHOOL CURRICULUM 3 semester hours
Significant trends in the development of American society, current emphasis on the disciplines of knowledge, focus on processes, and recent research in pedagogy are linked to the curriculum of the elementary school. Recent innovations and new curriculum designs are analyzed.

EDUCATION 506: THEORY OF EDUCATIONAL INSTRUCTION 3 semester hours
This course provides an introduction to the teaching/learning process for students in graduate programs who have no background in education. Emphasis will be placed on preparing students to assist teachers in their work with children.

Prerequisite: consent of instructor

EDUCATION 507: FUNCTIONS OF THE COOPERATING TEACHER, ELEMENTARY OR SECONDARY 3 semester hours
This course prepares experienced teachers to work with student teachers in Rhode Island public schools. Topics studied include orientation, supervision and evaluation of student teachers, and a review of current instructional methods and curriculum materials. Sessions for secondary cooperating teachers also include an analysis of recent developments in their subject matter field. Candidates for a cooperating teacher's certificate should enroll in the appropriate section of their subject matter field.

Prerequisite for all sections: certification to teach in area of assignment; three years of teaching experience; a master's degree or its equivalent, and recommendation from superintendent of schools to the coordinator of student teaching.

EDUCATION 508-509: EDUCATIONAL EXPERIENCES LABORATORY 6 semester hours

Supervised experience in the classroom situation including the observation of the teaching process, participating in classroom management and in the preparation of teaching and curriculum materials. This course is designed to give non-teacher candidates in psychology an understanding of the teacher's role and function through an applied laboratory program. It does not prepare students as teachers, but rather serves to give them experiences in and insight into the needs of teachers. Two semesters.

Prerequisite: Ed. 506 and consent of department chairman.

EDUCATION 513: RESEARCH AND EVALUATION IN ART 3 semester hours
Research and evaluation studies in the arts are analyzed for design, methodology and conceptual foundation. While the emphasis of this course is placed upon interpretation and understanding of research, knowledge is also applied in the planning, instrumentation and analysis of an original research or evaluation project involving some area in the arts.

Prerequisite: consent of instructor.

EDUCATION 514: SECONDARY SCHOOL CURRICULUM 3 semester hours
The development of a curriculum and the forces which modify it will be examined in terms of the problems, needs and trends involved. Recent curriculum developments will be considered.

EDUCATION 515: CURRICULUM ISSUES IN ART EDUCATION 3 semester hours
Issues facing curriculum development of art programs at both the elementary and secondary levels are identified and analyzed. Alternative curriculum models in visual education and aesthetic education are researched and affective learning constructs are studied in depth.

Prerequisite: consent of department chairman.

EDUCATION 517: CURRICULUM ISSUES IN BILINGUAL-BICULTURAL EDUCATION 3 semester hours
Curriculum issues relating to second language acquisition at both the elementary and secondary levels are identified and analyzed. Curriculum models are researched and evaluated. Emphasis is placed on social and cultural factors as they become crucial to the

success of and shape bilingual educational programs. The course includes a practicum component in a school with a bilingual program.

Prerequisite: Ed. 446 or 447.

EDUCATION 523: MUSIC IN THE SECONDARY SCHOOL 3 semester hours
This course deals with concerns of the teacher of music in the secondary school and the music supervisor. Areas to be covered in the course will include curriculum planning and development, scheduling, the general music class, the performing class, and special areas such as music theory and appreciation.

Prerequisite: Ed. 309 or consent of instructor

EDUCATION 525: ADVANCED STUDIES IN MUSIC EDUCATION 3 semester hours

A readings course. Students are exposed to basic concepts in philosophy of music education, aesthetics, history of music education, and sociology and psychology, as they apply to music education. Current problems in music education are discussed.

Prerequisite: consent of instructor.

EDUCATION 527: CURRICULUM IN MATHEMATICS EDUCATION 3 semester hours

Curriculum considerations in school mathematics at all levels are studied, with principal emphasis on the secondary level. Included will be historical development, trends and problems of school mathematics curricula. The student will be expected to work with curriculum materials and to read and evaluate appropriate research.

Prerequisite: Ed. 429 and Math. 441.

EDUCATION 528: METHODS OF TEACHING MATHEMATICS 3 semester hours

Methods of presenting school mathematics subjects at all levels are studied, with principal emphasis on the secondary level. Trends and problems, past and present, in the methodology of teaching mathematics will be analyzed. The implications of psychology and learning theory for teaching methods in mathematics will be considered. The student will be expected to read and evaluate appropriate research.

Prerequisite: Ed. 429 and Math. 441.

EDUCATION 529: REMEDIAL READING CLINIC 6 semester hours

This workshop course includes lectures, demonstrations and clinical experiences designed to reinforce theory and develop skill in the diagnosis and treatment of reading difficulties.

Prerequisite: Ed. 311 or 434, 485, 486, and consent of program adviser, M.Ed. in reading.

EDUCATION 530: INTERNSHIP IN READING I 3 semester hours

This course deals with the application of diagnostic, developmental, corrective and remedial reading procedures. Emphasis is placed on proficiency in the administration, scoring and interpretation of formal and informal reading instruments and the utilization of techniques to overcome difficulties in word identification and comprehension. Students practice these tasks under the supervision of qualified reading specialists in a public school setting during the fall semester.

Prerequisite: Ed. 434 and acceptance into the graduate reading internship program.

EDUCATION 531: INTERNSHIP IN READING II 3 semester hours

A continuation of Education 530, this course deals with the diagnosis of physical, emotional, social and instructional factors which cause reading disability. Attention is given to proficiency in the administration and interpretation of formal and informal instruments. Emphasis is also placed on the refinement of techniques used to overcome difficulties in

word recognition and comprehension. Students practice these tasks under the supervision of qualified reading specialists in a public school setting during the spring semester.

Prerequisite: Ed 530.

EDUCATION 532: THEORIES OF THE READING PROCESS 3 semester hours
Designed to help the student understand more fully the complex act of reading. This course examines the phenomena of reading from physiological, psychological, psycholinguistic, linguistic, humanistic and sociological perspectives.

Prerequisite: Ed 434.

EDUCATION 541: ADMINISTRATION OF READING PROGRAMS 3 semester hours
The concern of this course is with the administration of reading programs. It includes a discussion of program standards, the relationship of reading personnel with faculty, consultation and other specialists as well as problems encountered by the reading consultant/supervisor. Special attention is given to the dynamics of change in reading instruction.

Prerequisite: Ed 532.

EDUCATION 542: RESEARCH DESIGN FOR THE IMPROVEMENT OF READING INSTRUCTION 3 semester hours
This course prepares the student to design and evaluate a program or practice in reading. Methods and procedures for developing a field project are examined.

Prerequisite: Ed 541, Admin 502 and Psych 440.

EDUCATION 545: PRACTICUM IN READING ADMINISTRATION 6 semester hours
In this course the student, under faculty guidance, is given an opportunity to assist in the planning, administration, supervision and evaluation of a reading clinic. Students are assigned supervisory responsibilities in the training of reading specialists at the master's level.

Prerequisite: Ed 532, 541.

EDUCATION 562: SEMINAR IN EDUCATION: REVIEW OF RESEARCH IN READING 3 semester hours
This course involves a detailed investigation of research in reading. Emphasis is given to selection, critical analysis and interpretation of significant reading studies. Application of the findings to current reading instruction is encouraged. This course is designed to precede the comprehensive examination in the M.Ed. in Reading program.

Prerequisite: Ed 434, 438, 529, and consent of program advisor, M.Ed. in Reading.

EDUCATION 564: SEMINAR IN INSTRUCTIONAL MEDIA 3 semester hours
This is a conference course for students preparing a thesis in instructional technology.

Prerequisite: consent of instructor.

EDUCATION 566: SEMINAR IN MUSIC EDUCATION 3 semester hours
Selected problems are investigated.

Prerequisite: consent of instructor.

EDUCATION 580: WORKSHOP IN EDUCATION
Topics, credits and prerequisite vary.

DEPARTMENT OF ENGLISH

English 010 and 011 are restricted arts and sciences courses. All other courses offered by this department are unrestricted arts and sciences courses.

ENGLISH 010: BASIC WRITING SKILLS 2 semester hours*
This intensive writing course is designed to help the beginning writer develop basic skills in English language usage and composition. The student will work each week for two

hours in class on writing assignments and for two hours at the Writing Center on grammar and language usage. Working in a small group as well as individually with the instructor, the student will (1) learn the principles and practices of spelling, grammar and punctuation, (2) organize effective sentences and paragraphs, (3) study and practice the methods of writing clear, effective short essays. Enrollment is limited to 10 students.

This is a performance-based course. When a student has satisfied all the course requirements, the course will have been completed and a grade of Satisfactory will be assigned.

*This credit does not apply to the 118-122 hour graduation requirement; it will, however, be recorded on the student's college record.

ENGLISH 011: WRITING ENGLISH AS A SECOND LANGUAGE 2 semester hours
This is an intensive course in English language usage and composition for foreign students and other non-native speakers of English who need the practice of expressing themselves in English through writing. Students will work each week in class for two hours and in the Writing Center for an additional two hours on assignments in English language usage and composition. Enrollment is limited to 10 students.

ENGLISH 100: BUSINESS AND TECHNICAL WRITING 3 semester hours
The course will examine various forms of written communication frequently used in business and industry and will develop the student's ability to use these forms. Attention will also be given to basic techniques of writing.

ENGLISH 110: APPROACHES TO WRITING 4 semester hours
This course will consider the step-by-step process of writing, analyzing the writing assignment, searching for an idea for the essay, gathering information, writing, and re-writing the essay. Essays will be adapted to various purposes, will be developed by particular rhetorical methods, and will be directed to diverse audiences.

ENGLISH 111: INTRODUCTION TO AUTOBIOGRAPHY 4 semester hours
Journals, diaries and autobiographies of authors, past and present, will be examined. The purpose of the course is not only to analyze the works in order to reveal the personalities of the writers, but also to study the autobiography as a literary genre. This course is also designed to develop the student's mastery of prose style and form through the writing of a series of autobiographical studies.

ENGLISH 112: APPROACHES TO FICTION 4 semester hours
This course is designed to develop an understanding of fiction through a close reading and analysis of short stories and novels selected from various periods of Western literature. This course is also designed to develop the student's mastery of prose style and form through the writing of short papers.

ENGLISH 113: APPROACHES TO DRAMA 4 semester hours
This course is designed to develop an understanding of dramatic literature past and present through a close reading and analysis of representative plays selected from periods in which the genre has flourished. This course is also designed to develop the student's mastery of prose style and forms through the writing of short papers.

ENGLISH 114: APPROACHES TO POETRY 4 semester hours
This course is designed to develop an understanding of poetry through a close reading and analysis of poems from various periods of English and American literature. It will examine poetic form, versification, imagery, diction, figurative language, theme, mood and tone. This course is also designed to develop the student's mastery of prose style and form through the writing of short papers.

ENGLISH 115: THEMES IN LITERATURE 4 semester hours
With topics changing from semester to semester, this course offers the student an opportunity to pursue a limited but in-depth study of significant themes in literature. This course is also designed to develop the student's mastery of prose style and form through the writing of short papers.

ENGLISH 116: APPROACHES TO FILM AND FILM CRITICISM 4 semester hours

This course is designed as an introduction to the study of film. Students will develop a critical understanding of film as an art form through viewing and analyzing representative films and by reading and writing essays on the aesthetics of film. The course is also designed to develop the student's mastery of prose style and form.

ENGLISH 200: CREATIVE WRITING 3 semester hours

This course is an introduction to the craft of writing fiction, drama and poetry. Students will analyze their own work and that of professional writers. From semester to semester the instructor, in consultation with the students, will determine the kinds of writing to be emphasized.

ENGLISH 205: BACKGROUNDS IN ENGLISH LITERATURE TO 1800 4 semester hours

The course introduces the student to representative works of English and Western European literature from the Middle Ages through the 18th century and to the principles of critical reading and critical writing. It is designed for students who need a general historical background in literature and familiarity with the basic principles of literary study before taking 300-level courses.

ENGLISH 206: BACKGROUNDS IN ENGLISH AND AMERICAN LITERATURE 1800-PRESENT 4 semester hours

The course introduces the student to representative works of English, Western European and American literature of the 19th and 20th centuries and to the principles of critical reading and critical writing. It is designed for students who need a general historical background in 19th and 20th century literature and a familiarity with the basic principles of literary study before taking 300-level courses.

ENGLISH 210: CHILDREN'S LITERATURE 3 semester hours

Students read widely in material from early folklore to current literature in order to develop discrimination in the selection of books for children of the elementary school level. The course provides methods of interpreting and criteria for evaluating the different types of literature suitable for children. Required of early childhood and elementary education students prior to taking practicum.

ENGLISH 211: INTRODUCTION TO LINGUISTICS 3 semester hours

This course is an introduction to the principles and methods of the scientific study of English. It is designed to deepen the student's sensitivity to language and to enlarge his awareness of historical and current approaches to grammar by tracing the development of English and examining important linguistic theories.

ENGLISH 212: ADOLESCENT LITERATURE 3 semester hours

The course will explore themes, in various genres, appropriate to adolescent tastes at differing levels of sophistication. It will also acquaint the college student with available resource material on the subject of adolescent literature.

ENGLISH 231: EXPOSITORY WRITING 3 semester hours

The course is a study of the principles of rhetoric and style on a more mature level than that of English 110 or its equivalent and an application of those principles in the writing and revision of themes. It is designed to develop the virtues of clarity, force, and fluency, especially in the writing of expository, critical and argumentative prose. The process and techniques of writing a research paper will also be considered.

ENGLISH 300: ADVANCED CREATIVE WRITING 3 semester hours

The emphasis will be on the completion of a major writing project begun after consultation with the instructor. Students will be expected to enter the course with a substantial portfolio of completed work.

Prerequisite: Eng. 200 or consent of instructor.

ENGLISH 301: AMERICAN LITERATURE FROM THE BEGINNINGS TO 1853 3 semester hours

This course concentrates on the proto-literary attitudes and themes of the colonial and Republican era. Among the figures considered are Taylor, Franklin, Cooper, Irving and Poe.

ENGLISH 302: AMERICAN LITERATURE FROM 1835 TO 1865 3 semester hours

The poetry and prose of the New England Renaissance are examined. Among the figures considered are Emerson, Thoreau, Hawthorne and Melville.

ENGLISH 303: AMERICAN LITERATURE FROM 1865 TO 1914 3 semester hours

With special attention to the rise of American realism and the major poets of the period, this course emphasizes the works of Twain, James, Dreiser, Crane, Dickinson and Whitman.

ENGLISH 321: MODERN POETRY 3 semester hours

This course examines major contributions and movements in British and American poetry from 1900 to the present.

ENGLISH 322: MODERN DRAMA 3 semester hours

The course is a study of the theory, types and themes of representative British, American and European plays.

ENGLISH 323: MODERN BRITISH NOVEL 3 semester hours

Important British novels of the 20th century are analyzed.

ENGLISH 325: LITERATURE AND FILM 3 semester hours

This course examines a number of films in an attempt to consider the role of the motion picture as a major literary and social force of the 20th century. Although particular titles will vary from year to year, the central concerns of the course will be the major genres of the feature film and their relationships to other literary and visual forms. In addition to viewing films shown in class, students will be expected to read and write film criticism and theory, and to see films frequently off campus.

ENGLISH 326: STUDIES IN BLACK PROSE 3 semester hours

With topics varying from year to year, this course examines Black prose in English. Subjects will generally focus upon specific thematic and generic problems.

ENGLISH 327: STUDIES IN BLACK POETRY 3 semester hours

This course examines Black poetry in English. Topics vary from year to year. Subjects will generally focus upon specific thematic and generic problems.

ENGLISH 328: AMERICAN FICTION: 1914-1945 3 semester hours

This course is a study of significant American fiction from 1914 to 1945.

ENGLISH 329: AMERICAN FICTION: 1945 TO THE PRESENT 3 semester hours

This course studies significant American fiction from 1945 to the present.

ENGLISH 332: HISTORY OF THE ENGLISH LANGUAGE 3 semester hours

This course examines the external and internal history of the English language. The political and social factors that influenced the development of the language will be investigated. Students will analyze the phonological, morphological and syntactic changes that affected the growth and structure of Old, Middle, and Modern English.

ENGLISH 333: MODERN ENGLISH GRAMMAR 3 semester hours

This course uses the theories and techniques of modern linguistics to analyze the structure of contemporary English. Phonology, morphology and syntax will be examined in a generative-transformational framework. Students will be expected to become familiar with both the concepts and the application of linguistic analysis.

ENGLISH 334: STUDIES IN LITERARY CRITICISM 3 semester hours

This course is devoted to a study of significant theories of aesthetics and literary criticism.

and of major critics past and present. It emphasizes both the historical development of these theories and their practical application to particular works and genres. Recommended for juniors and seniors.

ENGLISH 335: LITERATURE IN TRANSLATION

This course focuses on a limited topic changing from year to year and may be taken twice. Subjects are drawn from such various historical periods as Classical Greek, Medieval or Modern European.

ENGLISH 336: TOPICS IN LITERATURE

The course will provide an opportunity for literary studies of a thematic, topical and comparative nature. Topics will vary from semester to semester. Recommended for juniors and seniors.

ENGLISH 337: TOPICS IN THE AESTHETICS OF FILM

Varying from semester to semester, this course will consider such topics as film genre, works of major directors and theories of film. Emphasis will be placed upon the nature of film technique, the vision of reality which distinguishes film from other creative forms and the language of film and film criticism. The student will be expected to write a series of essays exploring aspects of the semester's work.

Prerequisite: Consent of instructor or department chairman.

ENGLISH 338: PHONOLOGY

This course will introduce students to the theories of phonetic and phonemic analysis. The phonetic alphabet and its modified forms will be studied as will the more recent approach of distinctive feature analysis. The universals in language sound systems will be explored as well as the specific differences in the phonological rules of specific language groups such as Germanic languages and Romance languages. Students will also examine the variations in American English that constitute geographical and social dialects.

ENGLISH 339: ENGLISH DIALECTS AND USAGE

This course will investigate the varieties of contemporary American English. The rules of standard English will be examined as they are appropriate to different social situations. Students will explore geographical and social dialects as well as the different standards of the spoken and written language.

ENGLISH 344: CHAUCER

The *Canterbury Tales*, *Troilus and Criseyde* and a number of Chaucer's short poems are studied. All are read in the late Middle English of the originals. Historical, linguistic and critical material is introduced to illuminate the meaning of the poems. Recommended for juniors and seniors.

ENGLISH 345: SHAKESPEARE: THE HISTORIES AND COMEDIES

With appropriate attention to the theatrical, literary and social background of Shakespeare's age, this course examines the major histories and comedies.

ENGLISH 346: SHAKESPEARE: THE TRAGEDIES

This course offers a critical analysis of Shakespeare's major tragedies and examines the theatrical tradition to which the plays belong. Considerable attention is given to the nature of tragedy as a literary genre and to the role it plays in the Shakespearean canon.

ENGLISH 347: MILTON

Seeking to place Milton against the historical background of the Puritan Revolution, this course analyzes the writer's significant philosophical and political prose works. Particular concern of the course is a critical evaluation of Milton's lyric poetry, his epic, *Paradise Lost and Paradise Regained*, and his drama, *Samson Agonistes*. Recommended for juniors and seniors.

ENGLISH 349: ENGLISH LITERATURE FROM THE BEGINNINGS TO 1500

With primary emphasis on English literature of the Middle Ages, the course considers

such writings as *Beowulf*, Anglo-Saxon lyrics, the works of the Pearl Poet, *Piers Plouman* and Malory's *Morte D'Arthur*. Attention is also given to Bede's *Ecclesiastical History*, the *Anglo-Saxon Chronicle* and selected works of Chaucer.

ENGLISH 350: ENGLISH LITERATURE FROM 1500 TO 1603

This course offers a study of the literature of the English Renaissance. Special attention is given to Edmund Spenser, the sonneteers, the non-dramatic poetry of Shakespeare, Marlowe and the prose of Sir Philip Sidney.

ENGLISH 351: ENGLISH LITERATURE FROM 1603 TO 1660

The chief emphasis of the course is placed on the two major poetic schools of the period: John Donne and the Metaphysicals, and Robert Herrick and the Cavalier lyricists. Some attention is also given to the early verse of Milton and to the miscellaneous prose works of such writers as Richard Burton, Sir Thomas Browne and Francis Bacon.

ENGLISH 352: ENGLISH LITERATURE FROM 1660 TO 1744

The historical and cultural background of neo-classicism is considered through a study of the major figures of the period: Dryden, Pope and Swift. Some attention is also given to other influential figures of the age.

ENGLISH 353: ENGLISH LITERATURE FROM 1744 TO 1784

This course is chiefly concerned with the works of Johnson and his circle. Some attention is also given to the rise of the novel in the 18th century and to the pre-Romantic poets.

ENGLISH 354: ENGLISH LITERATURE FROM 1784 TO 1832

The major tendencies of thought and sensibility of the English Romantic movement are studied chiefly through the works of Blake, Wordsworth, Coleridge, Byron, Shelley and Keats. Some attention may also be given to certain minor poets of the period and to such prose writers as Lamb, Hazlitt and DeQuincy.

ENGLISH 354a: ENGLISH PROSE FROM 1832 TO 1900

This course focuses on major writers of Victorian prose. Writers who may be considered are Macaulay, Carlyle, Ruskin, Mill, Arnold, Newman, Huxley and Pater. Some attention is also given to Victorian fiction.

ENGLISH 355b: ENGLISH POETRY FROM 1832 TO 1900

This course focuses on major poets of the Victorian era. Arnold, Browning, the Pre-Raphaelites, Tennyson, Swinburne and others may be considered.

ENGLISH 356: ENGLISH DRAMA TO 1642, EXCLUDING SHAKESPEARE

The development of the English drama is traced from its beginnings in the Middle Ages to the closing of the theaters in 1642. The course emphasizes major Elizabethan and Jacobean dramatists other than Shakespeare.

ENGLISH 357: RESTORATION AND EIGHTEENTH-CENTURY DRAMA

This course is concerned with the historical and critical analysis of the major dramatists in England from 1660 to 1784, including Etherege, Dryden, Wycherley, Gay, Goldsmith and Sheridan. Considerable attention is also given to the theories of drama which influenced the plays of the period.

ENGLISH 358: THE ENGLISH NOVEL FROM 1700 TO 1832

The beginnings of the English novel and those novelists who most influenced its development in the 18th century are considered in this course. Among the works discussed in depth are those of Defoe, Richardson, Fielding, Smollett, Sterne, Scott and Jane Austen. Some attention is also given to the "Gothic" novel.

ENGLISH 359: THE ENGLISH NOVEL FROM 1832 TO 1914

A critical study, both historical and literary, is made of the Victorian novelists: Dickens, the Brontës, Thackeray, Eliot, Meredith and Butler.

ENGLISH 361: SEMINAR IN AMERICAN LITERATURE

3 semester hours
To satisfy two limits, in-depth study and development of research techniques, the seminar focuses on a limited topic. Semester I topics will be drawn from the beginnings of American literature to 1885. Semester II topics will be drawn from 1885 to the present. The class is limited to 15 students. This course may be taken twice.

Prerequisite: will vary according to the topic chosen. Restricted to undergraduates.

ENGLISH 362: SEMINAR IN ENGLISH LITERATURE

3 semester hours
Like Eng. 361, this course focuses on a limited topic, changing from semester to semester. Semester I topics will be drawn from the beginnings of English literature to 1660. Semester II topics will be drawn from 1660 to the present. The class is limited to 15 students. This course may be taken twice.

Prerequisite: will vary according to the topic chosen. Restricted to undergraduates.

ENGLISH 363: WORKSHOP IN ENGLISH

Topics and credits vary.

ENGLISH 398: DIRECTED STUDY

3 semester hours
The student, working with a faculty adviser, selects a topic for study and researches the topic in depth.

Prerequisite: restricted to undergraduates who have had suitable course work and who have the consent of an instructor and the department chairman. Request to participate in a reading course should be made in writing to the department chairman by the middle of the semester prior to which the student expects to take the reading course.

This course is also open to students who wish to pursue a creative writing project in poetry, drama or fiction under the guidance of a tutor. Acceptance is to be determined by the department chairman and departmental curriculum committee upon written application and submission of a portfolio of work by the student.

ENGLISH 391: DIRECTED STUDY

3 semester hours
This course is open to students whose topic in English 390 may be more fully realized by an additional semester's work. The decision to enroll in this course must be made by the student in consultation with his tutor and the department chairman before the end of the 10th week of the semester in which English 390 is taken.

ENGLISH 501: TRAGEDY

3 semester hours
Through an analysis of works selected from periods when the genre flourished, this course examines the role and function of tragedy and its importance in literary history. Considerable attention is given to the critical approaches which define changes in the tragic form and to the decline of tragedy in the modern era.

Prerequisite: consent of instructor or department chairman.

ENGLISH 502: COMEDY

3 semester hours
This course, like English 501, focuses primarily on dramatic literature, attempts to define the theory and practice of comedy through an intensive study of selected works from Aristophanes through the Absurdists. Plays are supplemented with readings in major critical analyses, including discussions of comedy by such writers as Meredith, Bergson, Frye and Santayana.

Prerequisite: consent of instructor or department chairman.

ENGLISH 503: FICTION

3 semester hours
Starting with the early fictional forms of the Middle Ages and the Renaissance, this course emphasizes the rise of the novel from the 18th century to the present. Not intended as a "survey" of the novel and short story, the course instead analyzes selected works in order

to investigate a variety of narrative forms and techniques. Considerable attention is given to major theories of the art of fiction.

Prerequisite: consent of instructor or department chairman.

ENGLISH 504: SATIRE

3 semester hours
The continuing tradition of satire, its form and critical meaning will be analyzed and demonstrated in representative literatures from classical to modern times. The focus will be on English and American satirists with attention to certain continental models.

Prerequisite: consent of instructor or department chairman.

ENGLISH 510: STUDIES IN OLD ENGLISH AND MEDIEVAL LITERATURE

3 semester hours
By utilizing various topics and approaches and by emphasizing in-depth study of primary materials, this course attempts to evaluate some of the significant characteristics and accomplishments of these periods.

Prerequisite: consent of instructor or department chairman.

ENGLISH 511: STUDIES IN RENAISSANCE LITERATURE

3 semester hours
This course explores some of the important developments and distinctive concerns of the literary movements and authors of the Renaissance by considering topics of limited focus for careful examination.

Prerequisite: consent of instructor or department chairman.

ENGLISH 512: STUDIES IN NEOCLASSICISM

3 semester hours
This course examines aspects of neoclassicism through close study of some of its characteristic achievements.

Prerequisite: consent of instructor or department chairman.

ENGLISH 513: STUDIES IN ROMANTICISM

3 semester hours
Topics of limited focus drawn from the aesthetic, philosophical and literary achievements of Romanticism provide the basis for this course.

Prerequisite: consent of instructor or department chairman.

ENGLISH 514: STUDIES IN VICTORIAN LITERATURE

3 semester hours
By choosing various topics and approaches and by stressing in-depth study of primary materials, this course evaluates some of the important characteristics and accomplishments of significant Victorian figures.

Prerequisite: consent of instructor or department chairman.

ENGLISH 515: STUDIES IN TWENTIETH-CENTURY BRITISH LITERATURE

3 semester hours
This course explores some of the important developments and distinctive concerns of the literary movements and authors of the present century by selecting topics of limited focus for careful and detailed examination.

Prerequisite: consent of instructor or department chairman.

ENGLISH 516: STUDIES IN AMERICAN LITERATURE TO 1900

3 semester hours
By utilizing various approaches in studying the primary materials, this course attempts to evaluate some of the important characteristics and accomplishments of significant American figures.

Prerequisite: consent of instructor or department chairman.

ENGLISH 517: STUDIES IN TWENTIETH-CENTURY AMERICAN LITERATURE

3 semester hours
This course considers some of the important developments and distinctive concerns of

the literary movements and authors of the present century by selecting subjects of limited focus for detailed examination.

Prerequisite: consent of instructor or department chairman.

ENGLISH 500: SEMINAR IN LITERARY SCHOLARSHIP 3 semester hours
Through individual assignments in research, the students are required to find, evaluate, and use research materials on a level of sophistication expected of graduate students.

Prerequisite: consent of instructor or department chairman.

ENGLISH 561: SEMINAR IN AMERICAN LITERATURE 3 semester hours
The student. This seminar examines in depth a topic which changes from year to year. The student, using the methods of sound literary scholarship and criticism, explores independently a subject related to the seminar topic and will deliver one or more papers on that topic.

Prerequisite: will vary according to the topic. Permission of instructor or department chairman is required.

ENGLISH 562: SEMINAR IN ENGLISH LITERATURE 3 semester hours
Deriving its topics from English literature, this is the same kind of course as English 561.

Prerequisite: will vary according to the topic. Permission of instructor or department chairman is required.

ENGLISH 571: DIRECTED READING 3 semester hours
After consultation with his adviser and approval by the Department of English Graduate Committee, the student may pursue a program of reading in areas not covered by the conventional courses. Requests to participate in this course should be made in writing to the graduate adviser by the middle of the semester prior to which the student expects to take the reading course. This course may be taken for credit more than once.

ENGLISH 990: MASTER'S THESIS 3 semester hours
This course is open only to students enrolled in the thesis plan. Before registering for the course, the student shall, with the help of the adviser, prepare a thesis proposal which shall be submitted to the Department of English Graduate Committee for approval.

ENGLISH 991: MASTER'S THESIS 3 semester hours
This course is a continuation of English 990.

FILM STUDIES

(These courses are offered alternately by the Departments of Art, Communications and Theatre and English.)

All of these courses are unrestricted arts and sciences courses.

FILM STUDIES 220: HISTORY OF FILM I 4 semester hours
This course surveys the history of film from its beginnings in the early twentieth century until the start of World War II. The major silent and sound films of America, England, France, Germany and Russia will be studied.

Prerequisite: Comm. 241 or Eng. 110 or the consent of instructor.

FILM STUDIES 221: HISTORY OF FILM II 4 semester hours
This course surveys the history of film from the beginnings of World War II until the present. The major films of America, Asia, England and Europe will be studied.

Prerequisite: Comm. 241 or Eng. 110 or the consent of instructor.

FILM STUDIES 300: TOPICS IN THE STUDY OF FILM 4 semester hours
Topics will vary from semester to semester and may be repeated with a change in content.

Prerequisite: Comm. 241 or Eng. 110 or the consent of instructor.

FOUNDATIONS OF EDUCATION

(Department of Philosophy and Foundations of Education)

The unrestricted arts and sciences courses in Foundations are 200 and 250. No other courses are arts and sciences courses.

FOUNDATIONS OF EDUCATION 200: INTRODUCTION TO AMERICAN EDUCATION 3 semester hours

This course is intended as a general introduction to education in the United States; its scope, its problems, its structure and organization, its purposes and its processes. Attention will be given to the historical, political, economic, curricular and administrative factors related to the educational needs of American society.

This course is designated for non-education majors.

FOUNDATIONS OF EDUCATION 250: TOPICS IN FOUNDATIONS OF EDUCATION 3 semester hours

This course provides an opportunity for undergraduates to study special topics and themes in the foundations of education. Topics are announced prior to the semester in which the course is offered.

FOUNDATIONS OF EDUCATION 300: SOCIAL

FOUNDATIONS OF EDUCATION

This course is a study of American education in the context of the interrelationships between key social forces, organizations and movements, with emphasis on Rhode Island education. It covers the basic constitutional, statutory, and economic aspects of education, the political dynamics of education, the influence of religious organizations and schools, and the roles of business, labor and minority groups.

FOUNDATIONS OF EDUCATION 302: PHILOSOPHICAL

FOUNDATIONS OF EDUCATION

In this course, the writings of major Western philosophers and educational theorists will be discussed, and the implications of their ideas for contemporary educational problems will be considered. Attention will be given to relevant philosophical methodologies, and to the epistemological as well as the socio-political systems within philosophy. Students will learn to use the tools of philosophical analysis in approaching educational problems.

FOUNDATIONS OF EDUCATION 322: TEACHER

ORGANIZATIONS, GOVERNANCE STRUCTURES,

AND EDUCATIONAL DECISION-MAKING

Emphasis is placed on the growing influence of teacher organizations in educational decision-making. An overview of the history, structure, and operations of the organizations is provided.

FOUNDATIONS OF EDUCATION 343: THEORIES OF

MORAL EDUCATION

Current techniques of moral education and dimensions of moral experience are studied. Both the individual and institutional influences on moral character are specified.

FOUNDATIONS OF EDUCATION 360: SEMINAR IN FOUNDATIONS OF EDUCATION 3 semester hours

Various topics in the foundations of education are examined.

FOUNDATIONS OF EDUCATION 380: WORKSHOP IN

FOUNDATIONS OF EDUCATION

Selected processes are investigated in various formats. Credits and prerequisite vary.

FOUNDATIONS OF EDUCATION 390: INDEPENDENT STUDY

IN FOUNDATIONS OF EDUCATION

Selected topics in foundations of education may be investigated by individual students with the approval of the department.

FOUNDATIONS OF EDUCATION 402: CURRENT PROBLEMS IN EDUCATION

3 semester hours
This course provides intensive treatment of selected educational problems or problem areas such as collective negotiations in education, race relations in education, separation of church and state as it affects educational policy and practice, and the education of the culturally distinct.

Prerequisite: six semester hours, or its equivalent, in foundations of education at the 300-level.

FOUNDATIONS OF EDUCATION 405: INTRODUCTION OF COMPARATIVE EDUCATION

3 semester hours
The course studies selected systems of foreign education, including the relationship of instructional practices to the culture of the country being studied. The comparison of economic, ideological and social determinants affecting instructional practices in foreign countries is made. Special consideration is given to educational problems in underdeveloped countries.

Prerequisite: six semester hours, or its equivalent, in foundations of education at the 300-level.

FOUNDATIONS OF EDUCATION 410: HISTORY OF WESTERN EDUCATIONAL THOUGHT

3 semester hours
This course examines the ideas on education, teaching, and the schools professed by major Western educational theorists. Among the thinkers considered will be Plato, Aristotle, Augustine, Thomas Aquinas, Locke, Rousseau, Pestalozzi, Froebel, Spencer and Dewey.

Graduates student enrolled in the M.A.T.-C. program may take this course in lieu of Found. Ed. 302.

Prerequisite: six semester hours, or its equivalent, in foundations of education at the 300 level.

FOUNDATIONS OF EDUCATION 415: HISTORY OF AMERICAN EDUCATION

3 semester hours
In this course American education will be considered in its historical context. The development of the institutions of public education will be studied with emphasis on theoretical pedagogical theory will also be studied.

Graduate students enrolled in the M.A.T.-C. program may take this course in lieu of Found. Ed. 302.

Prerequisite: six semester hours, or its equivalent, in foundations of education at the 300 level.

FOUNDATIONS OF EDUCATION 420: CULTURAL FOUNDATIONS OF EDUCATION

3 semester hours
In this course the matrices of cultural influences on formal and informal educational processes will be examined. Special attention will be given to the effects of cultural pluralism on American education.

Graduate students enrolled in the M.A.T.-C. program may take this course in lieu of Foundations of Education 300.

Prerequisite: six semester hours, or its equivalent, in foundations of education at the 300-level.

FOUNDATIONS OF EDUCATION 431: POLITICAL ELEMENTS IN PUBLIC SCHOOL POLICY

3 semester hours
This course analyzes the political institutions and practices which determine the priorities used in formulating public school policy.

Prerequisite: six semester hours, or its equivalent, in foundations of education at the 300-level.

FOUNDATIONS OF EDUCATION 441: COMPARATIVE PHILOSOPHIES OF EDUCATION

3 semester hours
This course is devoted to a study of the alternative ways in which philosophers view the

relevance of educative experiences. Special emphasis is given to an examination and evaluation of the impact that educational theory has had on cultural and social life.

Graduate students enrolled in the M.A.T.-C. program may take this course in lieu of Foundations of Education 302.

Prerequisite: six semester hours, or its equivalent, in foundations of education at the 300-level.

FOUNDATIONS OF EDUCATION 442: THEORIES OF KNOWLEDGE AND THE CURRICULUM

3 semester hours
Current work in the structure of knowledge, i.e., epistemologies, will be considered as a basic part of curriculum change. The structure of experience in such areas as art, music and literature will be considered in relations to the structure of knowledge and the curriculum.

Prerequisite: six semester hours, or its equivalent, in foundations of education at the 300-level.

FOUNDATIONS OF EDUCATION 445: LOGIC OF TEACHING

3 semester hours
Topics will include the application of logic to teaching practices and critical thinking.

Prerequisite: six semester hours, or its equivalent, in foundations of education at the 300 level.

FOUNDATIONS OF EDUCATION 450: TOPICS IN FOUNDATIONS OF EDUCATION

3 semester hours
Selected topics will be offered in order to provide intensive studies in foundations of education. Topical themes will focus on the social, historical, philosophical and cultural foundations of education.

FOUNDATIONS OF EDUCATION 480: WORKSHOP IN FOUNDATIONS OF EDUCATION

Selected processes are investigated in various formats. Credits and prerequisite vary.

FOUNDATIONS OF EDUCATION 490: INDEPENDENT STUDY IN FOUNDATIONS OF EDUCATION

3 semester hours
Selected topics in foundations of education may be investigated by individual students with the approval of the department.

FOUNDATIONS OF EDUCATION 501: EDUCATION AND SOCIAL INSTITUTIONS

3 semester hours
This course includes a study of historical and sociological principles and information necessary to understand the cultural forces affecting education. It considers the influences of social institutions and social agencies upon the social structure of the schools.

Prerequisite: three semester hours, or its equivalent, in foundations of education at the 400 level.

FOUNDATIONS OF EDUCATION 536: COLLECTIVE NEGOTIATIONS IN EDUCATION

3 semester hours
This course is concerned with the development of collective negotiations in education and the study of various conceptions of the negotiation process. Legal trends, evolving issues and current practices will be studied.

Prerequisite: three semester hours, or its equivalent, in foundations of education at the 400 level.

FOUNDATIONS OF EDUCATION 536: MODERN THEORIES OF EDUCATION

3 semester hours
This course analyzes contemporary educational theory as it relates to practice. The Progressive Education Movement is examined. The effect of early technological and bureaucratic influences are considered. The theory generated out of early and later behaviorism is analyzed. Post-Sputnik criticisms of education are studied along with the humanistic, cognitive, and neo-romantic responses to that criticism.

Prerequisite: three semester hours, or its equivalent, in foundations of education at the 400 level.

FOUNDATIONS OF EDUCATION 560: SEMINAR IN FOUNDATIONS OF EDUCATION

3 semester hours
Topics in foundations of education will be examined.

FOUNDATIONS OF EDUCATION 575: TOPICS IN INTERNATIONAL EDUCATION

3 semester hours
Selected educational systems of the world will be studied. Foreign study opportunities will often be available. Topics will be announced prior to the semester in which the course will be offered.

FRENCH**(Department of Modern Languages)**

The general prerequisite for 200- and 300-level courses in French is proficiency in intermediate French, demonstrated through examination or successful completion of French 113-114 or 115 or the equivalent.

The restricted arts and sciences courses in this department are 101 and 102. All of the other courses listed below are unrestricted arts and sciences courses.

FRENCH 101: ELEMENTARY FRENCH I

3 semester hours
The course offers a thorough study of French pronunciation and grammar. It includes conversation, dictation and reading of French texts, plus the acquisition of some knowledge of French culture. This course is normally not open for college credit to students who have offered admissions credit in the language.

See French 110.

FRENCH 102: ELEMENTARY FRENCH II

3 semester hours
This course is a continuation of French 101.

Prerequisite: French 101 to one year of secondary school French or permission of the department chairman.

FRENCH 110: CONTINUING ELEMENTARY FRENCH

4 semester hours
A concentrated one semester course for the student who wishes to continue the study of language begun in the secondary school. In this course special emphasis is placed on aspects of culture and civilization as it relates to language development. The development of the four skills, listening, speaking, reading and writing, is stressed. Extensive use is made of the language laboratory. Not open to students who have completed French 101 or 102.

Prerequisite: two years of secondary school French or approval of the department chairman.

FRENCH 113: INTERMEDIATE FRENCH

4 semester hours
Through selected readings the student examines the cultural and linguistic heritage of the French speaking world. This course, which includes a review of grammar, also provides for the further development and practice of the basic oral and written skills. The language laboratory is utilized. The course is open to students who have completed either French 100, 102, or 110; three years of secondary school French; or have achieved a score of 500-549 on the CLEP Achievement Test in French.

FRENCH 114: READINGS IN INTERMEDIATE FRENCH

4 semester hours
Emphasis is placed on the development of the reading skill and of an appreciation of literature, selected from various periods and genres, for its interest as a reflection of the heritage of the French people. The development of the oral skill is continued, and some attention is given to the written practice.

Prerequisite: achievement through the French 113 level or the equivalent, or permission of the department chairman.

FRENCH 115: INTERMEDIATE ORAL FRENCH

4 semester hours
The development of oral proficiency is stressed while giving some attention to retaining

written skills previously acquired. Selected periodicals, language manuals and laboratory tapes will serve as basic materials for accomplishing assignments related to vocabulary building, correct and idiomatic diction and oral presentations.

Prerequisite: achievement through the French 113 level or the equivalent, or permission of the department chairman.

FRENCH 201: CONVERSATION AND COMPOSITION

4 semester hours
This course emphasizes the use of correct spoken French on a more advanced level than is expected in the intermediate courses. Careful attention is given to the correction of pronunciation through practice in the language laboratory and elementary work in phonetics. Texts which stress French culture and civilization serve as the basis for oral and written expression.

Prerequisite: the equivalent of French 114 or 115, or permission of the department chairman.

FRENCH 202: COMPOSITION AND CONVERSATION

4 semester hours
This course emphasizes writing skills in French through grammatical exercises, controlled composition, original themes and the stylistic analysis of literary texts. Class discussion of the written materials in French provide opportunity for oral practice.

Prerequisite: the equivalent of French 114 or 115, or permission of the department chairman.

FRENCH 203: FRENCH CIVILIZATION

3 semester hours
The geography and the political and cultural history of metropolitan France are traced from origins to modern times. The course is taught in French.

FRENCH 300: APPLIED LINGUISTICS

3 semester hours
In this course a study is made of the meaning and nature of language and its application to the teaching of French with special emphasis on planning and presentation of basic sociolinguistic structures. Practical work in the language laboratory is included.

FRENCH 302: PRE-CLASSICAL FRENCH LITERATURE

3 semester hours
A study is made of the social, political, religious and philosophical climates that contributed to the formulation of the classical discipline and to the establishment of the absolute monarchy. Included are the works of the major writers between 1600 and 1660, such as Molière, Corneille, Honoré d'Urfé, Mlle de Scudéry and Descartes.

FRENCH 303: CLASSICAL FRENCH LITERATURE

3 semester hours
The role of Louis XIV and his influence on French literature are discussed in this course. Students read and criticize the works of the chief literary figures and certain minor writers at the peak of Classicism (1600-1715). Representative authors included are Retz, La Rochefoucauld, Mme de La Fayette, Molière, de Sévigné, Bossuet, LaFontaine, Boileau, Molière and Racine.

FRENCH 304: THE AGE OF REASON

3 semester hours
The course includes a study of the main themes of 18th century thought leading to the French Enlightenment, as well as a study of the historical and artistic backgrounds of the century. Among writers whose major works are discussed are Lesage, Prevost, Marivaux, Montesquieu and Voltaire in his earlier period. Attention is given to the development of the novel and the drama during the century.

FRENCH 305: THE AGE OF ENLIGHTENMENT

3 semester hours
The study of 18th century thought is continued in this course with emphasis on the philosophical trends leading to the rise and development of the liberal movement. The major writers studied include Voltaire, Rousseau, Diderot, d'Alembert and the Encyclopedistes.

FRENCH 306: ROMANTICISM

3 semester hours
The course deals with the emergence and development of French Romanticism in prose and poetry. Among the authors studied are Chateaubriand, Lamartine, Hugo, Musset, Vigny, Stendhal and Balzac.

FRENCH 307: REALISM, NATURALISM AND SYMBOLISM *3 semester hours*
The literary movements that attempted to reflect the realities of life are studied and Parnassian and symbolist poetry are surveyed. The authors considered include Flaubert, Zola, Maupassant, Baudelaire, Verlaine, Rimbaud and Mallarmé.

FRENCH 308: FRENCH LITERATURE FROM 1900 TO THE EARLY 1930's *3 semester hours*
Plays, novels and poetry by such authors as Claudel, Péguy, Gide, Valéry, Apollinaire, Romains, Mauriac, Saint-Exupéry and Malraux are examined as reflections of major movements including post-symbolism, neo-humanism, cubism and unanimism.

FRENCH 309: FRENCH LITERATURE FROM THE MID-1930's TO THE PRESENT *3 semester hours*
Works of such authors as Cocteau, Giraudoux, Montherlant, Sartre, Camus, Saint-John Perse, Bernanos, Anouilh, Ionesco and Beckett are studied to illustrate the progression from emphasis on the *tragique de l'homme* to literature of revolt and involvement, and "new" literature.

FRENCH 312: MEDIEVAL FRENCH LITERATURE *3 semester hours*
Representative literary genres of the Old and Middle French periods from the earliest documents to the works of the Grands Rhétoriciens are examined in relation to their historical, philosophical and aesthetic backgrounds.

FRENCH 313: RENAISSANCE FRENCH LITERATURE *3 semester hours*
This course is a survey of the literature of the French Renaissance, with consideration of the philosophical, historical and aesthetic backgrounds of its prose and poetry, stressing such themes as the rise of humanism, the spread of Platonism and the development of critical and philosophic thought.

FRENCH 320: APPLIED GRAMMAR *3 semester hours*
The goal of this course is to obtain facility of correct construction and grammar in speech and composition. This course involves students in a practical application of grammar in both oral and written forms. An intensive study of construction and idiomatic expressions is included.

FRENCH 321: FRENCH CANADIAN LITERATURE *3 semester hours*
This course studies the works of authors writing under the French Regime (1534-1763) and British rule (1760-1867) before concentrating on the lyrical Groupe de Québec, the post-romantic Ecole littéraire de Montréal, and contemporary literature, both fiction and non-fiction, of French Canada.

Prerequisite: French 202 or equivalent.

FRENCH 350: TOPICS IN FRENCH *3 semester hours*
The course provides opportunity for studies of topical nature. Topics will vary and be announced from semester to semester.

FRENCH 360: SEMINAR IN FRENCH *3 semester hours*
Normally this course is open to only seniors majoring in French. It includes intensive individual and group study of a major author, movement or period in the development of French literature and may concern specific historical, political, social, philosophical or aesthetic problems. Each student is required to submit a major paper as a culmination of the semester's work. Topic or period for each semester of seminar will be announced in advance.

FRENCH 390: DIRECTED STUDY *3 semester hours*
The student selects a topic and undertakes concentrated research under the supervision of a faculty adviser.

Prerequisite: approval of department chairman.
(See also Modern Languages and Literature, p. 58.)

FRENCH 401: ADVANCED CONVERSATION AND DICTION *3 semester hours*
Through controlled classroom discussion and through practice in the language laboratory, the advanced student is oriented toward improved habits of speech in French. Attention is directed toward individual as well as group needs.

FRENCH 501: THE FRENCH NOVEL *3 semester hours*
Works of the longer forms of prose fiction constitute the general content of the course, but selection is made of a particular literary period or movement each time the course is given. This course may be repeated for credit at the discretion of the department chairman if the course content is not duplicated.

FRENCH 502: SHORT FICTION IN FRENCH *3 semester hours*
The *conte, nouvelle* and *nouveau roman* are among the shorter genres examined. The particular literary period or movement studied is at the discretion of the instructor. This course may be repeated for credit at the discretion of the department chairman if the course content is not duplicated.

FRENCH 503: NON-FICTION FRENCH PROSE *3 semester hours*
The essay, journal, memoirs and correspondence are the source materials from which selection is made for this course. These may be studied as literary genres in themselves, as source documents illuminating a particular cultural and intellectual milieu, or as aids to the study of the work of a particular author. This course may be repeated for credit at the discretion of the department chairman if the course content is not duplicated.

FRENCH 504: FRENCH THEATRE *3 semester hours*
Any period, school or movement of French drama may be selected, at the option of the instructor, for intensive study. Works selected may be subjected to purely literary analysis, or may be studied also as reflections of the social, intellectual and cultural atmosphere of the times. This course may be repeated for credit at the discretion of the department chairman if the course content is not duplicated.

FRENCH 505: FRENCH POETRY *3 semester hours*
Poetry of any school or movement may be selected by the instructor for intensive study in relation to the historical, cultural and social atmosphere, or for purely literary analysis. This course may be repeated for credit at the discretion of the department chairman if the course content is not duplicated.

FRENCH 520: GRAMMAR, COMPOSITION AND STYLISTICS *3 semester hours*
The traditional ideals of the French language: precision of diction, accuracy and clarity of expression are the ultimate goals of the course. Through numerous exercises and composition, the student will become acquainted with intricate and meaningful stylistic nuances. Grammar, though not formally presented, is integrated into all aspects of the practical work.

Prerequisite: permission of department chairman.

FRENCH 550: TOPICS IN FRENCH *3 semester hours*
The course provides opportunity for studies of topical nature. Topics will vary and be announced from semester to semester.

FRENCH 560: GRADUATE SEMINAR IN FRENCH *3 semester hours*
This course is open only to students in the graduate program. The work includes intensive individual and group study of one major author or of an important period in the development of French literature. It is directed toward the writing of a major paper in thesis form. This course may be repeated for credit at the discretion of the department chairman if the content of the course is not duplicated.

FRENCH 590: DIRECTED STUDY *3 semester hours*
The student selects a topic and undertakes concentrated research under the supervision of a faculty adviser. A major paper in thesis form is required. This course may be

repeated for credit at the discretion of the department chairman if the content of the prerequisite is not duplicated.

Prerequisite: approval of department chairman.

FRENCH 595: MASTER'S THESIS

This course is open only to students enrolled in the Master of Arts program. Credit will be assigned in the semester when the thesis is completed and approved. No grade is given in this course.

(See also Modern Languages and Literature, p. 88.)

GENERAL STUDIES

All of the courses listed below are unrestricted arts and sciences courses.

GENERAL STUDIES 150: PLAN B COLLOQUIUM:

CONTEMPORARY TOPICS AND PROBLEMS

4 semester hours

The Plan B Colloquium is a one-semester course designed to explore a topic or problem of general and contemporary interest, from a variety of perspectives, and by use of a variety of resources: texts, films, speakers. The topics vary across the sections of General Studies 150 and students may select from among several choices.

The purpose of the course is to introduce students to the kinds of topics and problems explored in higher education, and to cultivate some of the basic skills and procedures of academic inquiry — such as analysis and criticism, the organization and use of evidence and oral and written expression. The course also serves as an introduction to the general studies program by experimenting with a variety of approaches to a single topic, and thereby challenging the student to understand specialized knowledge within the context of a broader academic vision.

In the Plan B program the student takes the Plan B colloquium in the first semester of the freshman year if he has passed the English screening examination. Students who fail the English screening examination are required to take English 010 in the first semester. They enter General Studies 150 in the second semester.

Open only to students in Plan B to meet general studies requirements.

GENERAL STUDIES 151, 152, 153 PLAN A COLLOQUIUM

4 semester hours

The colloquia focus on the methodology, the underlying assumptions and process of learning appropriate to the acquisition and application of knowledge in a given area. Their function is to introduce the student to the variety of ways of knowing through the acquisition of insight into the structure of knowledge and the interrelatedness of knowledge. Thus, major emphasis is placed on the methods, concepts and value judgments inherent in the understanding of specific problems, topics or issues. Offered in three areas each semester: (1) humanities, (2) mathematics and science, (3) social and behavioral sciences.

Open only to students in Plan A completing general studies requirements.

GENERAL STUDIES 361, 362, 363: GENERAL STUDIES SEMINAR

4 semester hours

General studies seminars are concerned with the application and the implications of knowledge rather than with the methods of investigation and structures of knowledge. Their function is to apply the methodology acquired through previous college experience toward the resolution of a specific problem. Offered in three areas each semester. Can be taken no earlier than the sixth semester.

Students in Plan A take two general studies seminars, one of which must be in an area outside the major area of concentration.

Students in Plan B take one general studies seminar in an area outside the major area of concentration.

NOTE: general studies seminars can be taken only after the student has completed all other general studies requirements. These courses are not open for graduate credit or to graduate students.

GEOGRAPHY

(Department of Anthropology and Geography)

All of the courses offered by this department are unrestricted arts and sciences courses.

• **GEOGRAPHY 200: THE CHANGING ENVIRONMENT OF MAN** 4 semester hours
The primary focus of this course is upon the complex interplay between man and his environment. The influence of physical and cultural environmental factors on the distribution of population, the effect of man on the environment and the total environmental complex are considered.

• **GEOGRAPHY 201: INTRODUCTION TO GEOGRAPHY** 3 semester hours
Cultural and physical elements of geography are considered individually, in interrelationship and as these elements are found in areal patterns of political, cultural and economic associations. The use and interpretation of maps is a major emphasis. Offered every semester.

GEOGRAPHY 301: REGIONAL GEOGRAPHY OF ANGL0-AMERICA

3 semester hours

The fundamental geographic attributes of the United States and Canada are developed. This is followed by a systematic study of the regions of this area.

Prerequisite: Geo. 201 or consent of instructor.

GEOGRAPHY 302: GEOGRAPHY OF ASIA

3 semester hours

An assessment of the potential of the major nations of this continent is made on the basis of physical and human resources. Emphasis of the course is on the four countries of China, India, Japan and the Soviet Union. Selected countries of Southeast and Southwest Asia are also discussed.

Prerequisite: Geo. 201 or consent of instructor.

GEOGRAPHY 303: GEOGRAPHY OF EUROPE

3 semester hours

This study of the main cultural and physical features of Europe as a whole serves as an introduction to a discussion of these factors in the life of each individual country. Nations of Scandinavia, the British Isles, the Low Countries, Central Europe and the Mediterranean are treated.

Prerequisite: Geo. 201 or consent of instructor.

GEOGRAPHY 304: GEOGRAPHY OF LATIN AMERICA

3 semester hours

The lands south of the United States are evaluated from the view of the physical and cultural setting; climates, landforms, resources, economics and population patterns are emphasized. The areas of South America, Middle America and Caribbean America are discussed, each in turn.

Prerequisite: Geo. 201 or consent of instructor.

GEOGRAPHY 305: GEOGRAPHY OF RHODE ISLAND

3 semester hours

Discussion centers on the geographic elements in the history and development of Rhode Island as well as their influence on the present and future patterns of growth in the state. The analysis will attempt to assess Rhode Island's place and problems as they exist in the New England, national and world scenes.

Prerequisite: Geo. 201 or consent of instructor.

GEOGRAPHY 310: CARTOGRAPHY I

Maps and related graphics are considered as a means of communication. The course includes cartographic theory and practical experiences in projection, scale, map compilation and map reproduction.

Prerequisite: Geo. 201 or consent of instructor.

GEOGRAPHY 311: ECONOMIC GEOGRAPHY

An analysis of man's economic activities and their variation over the earth's surface makes up the content of this course. Emphasis will be placed on the production, exchange and consumption of agricultural, mineral and industrial resources, as related to economic growth and resource development. Acceptable for credit in economics minor.

Prerequisite: Geo. 201 or consent of instructor.

GEOGRAPHY 312: HISTORICAL GEOGRAPHY OF THE UNITED STATES

The historical development of the United States is examined from a geographical viewpoint. Emphasis is placed on the interaction of those physical and cultural elements which contribute to the emergence of distinctive landscapes, past and present.

Prerequisite: Geo. 201 or consent of instructor.

GEOGRAPHY 313: POLITICAL GEOGRAPHY

Political geography approaches the similarities and differences of the world's political units from the standpoint of their spatial relationships. The elements of size, shape, population, resources and political organization, as well as the social and economic factors which differentiate political units, are analyzed.

Prerequisite: Geo. 201 or consent of instructor.

GEOGRAPHY 315: URBAN GEOGRAPHY

A geographic analysis is used to study urban development. Consideration is given to urbanism on a national and world scale.

Prerequisite: Geo. 201 or consent of instructor.

GEOGRAPHY 316: CARTOGRAPHY II

Advanced problems in cartography are provided in preparing specialized maps.

Prerequisite: Geo. 310.

GEOGRAPHY 317: GEOGRAPHY AND URBAN PLANNING

Geographic implications for urban planning will be considered in relation to the problems and issues of urban growth and development. Emphasis will be placed on new towns and similar planned developments.

Prerequisite: Geo. 201 or consent of instructor.

GEOGRAPHY 318: GEOGRAPHY OF URBAN HOUSING

Spatial analysis will be applied to housing with respect to location, site and zoning. Contemporary issues in housing policy as applied to the private and public sectors will be examined.

Prerequisite: Geo. 201 or consent of instructor.

GEOGRAPHY 319: THE GEOGRAPHY OF OUTDOOR RECREATION

The emphasis of this course is man's use of the landscape for purposes of outdoor recreation. Topics to be discussed include the role of culture in determining leisure patterns, economic impacts of leisure activities, recreational use of wild lands, conflicts of land use and regional patterns of leisure activities in the United States.

Prerequisite: Geo. 201 or permission of instructor.

3 semester hours

3 semester hours

3 semester hours

3 semester hours

3 semester hours

3 semester hours

3 semester hours

3 semester hours

3 semester hours

GEOGRAPHY 320: COASTAL GEOGRAPHY

An extensive examination and analysis is made of the diverse geographical aspects of the land-sea interface focusing on coastal geomorphology and climate, fisheries and other natural resources, patterns of land use and coastal regionalism.

Prerequisite: Geo. 201 or consent of instructor.

GEOGRAPHY 321: CULTURAL GEOGRAPHY

An endeavor is made to understand the cultural diversity of mankind in geographic settings. In a topical and thematic presentation an analytical inquiry is made into the nature and distribution of such features as population, cultural attributes and types of economy.

Prerequisite: Geo. 201 or consent of instructor.

GEOGRAPHY 325: PHYSICAL GEOGRAPHY

The concern of the course is the physical earth. Study of the land treats of rock, minerals and landforms while study of the atmosphere treats of weather and climate. Some attention is also given to oceans, soils and vegetation. Field work is an integral part of the course.

Prerequisite: Geo. 201 or consent of instructor.

GEOGRAPHY 360: SEMINAR IN GEOGRAPHY

This provides an integrating experience in theory and practice. Students do research on a geographic topic which is the basis for oral and written reports.

Prerequisite: 18 hours of geography.

GEOGRAPHY 371-374: READING COURSE IN GEOGRAPHY

Directed reading under the guidance of a geographer is determined on the basis of student's and instructor's interests. Semester hours correspond to the last digit in the course number.

Prerequisite: approval of department chairman.

GEOGRAPHY 380: WORKSHOP IN GEOGRAPHY

Selected topics are investigated in various formats. Credits and prerequisite vary.

GEOGRAPHY 391-394: DIRECTED STUDY IN GEOGRAPHY

The student selects a topic and undertakes concentrated research under the supervision of a faculty adviser. Semester hours correspond to the last digit in the course number.

Prerequisite: students must have the consent of the department chairman, their geography adviser and the instructor with whom they wish to work.

GEOGRAPHY 480: WORKSHOP IN GEOGRAPHY

Selected topics are investigated in various formats. Credits and prerequisite vary.

GERMAN

(Department of Modern Languages)

The restricted arts and sciences courses in this department are 101 and 102. All of the other courses listed below are unrestricted arts and sciences courses.

GERMAN 101: ELEMENTARY GERMAN I

The course offers a thorough study of German pronunciation and grammar. It includes conversation, dictation and reading of German texts, plus the acquisition of some knowledge of German culture. This course is normally not open for college credit to students who have offered admissions credit in the language.

See German 110.

GERMAN 102: ELEMENTARY GERMAN II

This course is a continuation of German 101.

Prerequisite: German 101 or one year of secondary school German or permission of the department chairman.

3 semester hours

3 semester hours

3 semester hours

3 semester hours

1-4 semester hours

1-4 semester hours

3 semester hours

3 semester hours

• **GERMAN 110: CONTINUING ELEMENTARY GERMAN** 4 semester hours

A concentrated one semester course for the student who wishes to continue study of the language begun in the secondary school. In this course special emphasis is placed on aspects of culture and civilization as it relates to language development. The development of the four skills: listening, speaking, reading and writing, is stressed. Extensive use is made of the language laboratory. Not open to students who have completed German 107 or 102.

Prerequisite: two years of secondary school German or approval of the department chairman.

• **GERMAN 113: INTERMEDIATE GERMAN** 4 semester hours

Through selected readings the student examines the cultural and linguistic heritage of Germany. This course, which includes a review of grammar, also provides for the further development and practice of the basic oral and written skills. The language laboratory is utilized. The course is open to students who have completed either German 100, 102 or 110, three years of secondary school German, or have achieved a score of 500-549 on the CEEB Achievement Test in German.

• **GERMAN 114: READINGS IN INTERMEDIATE GERMAN** 4 semester hours

Emphasis is placed on the development of the reading skill and of an appreciation of literature, selected from various periods and genres, for its interest as a reflection of the heritage of the German people. The development of the oral skill is continued, and some attention is given to written practice.

Prerequisite: achievement through the German 113 level or the equivalent, or permission of the department chairman.

• **GERMAN 115: INTERMEDIATE ORAL GERMAN** 4 semester hours

The development of oral proficiency is stressed while giving some attention to retaining written skills previously acquired. Selected periodicals, language manuals and laboratory tapes will serve as basic materials for accomplishing assignments related to vocabulary building, correct and idiomatic diction and oral presentations.

Prerequisite: achievement through the German 113 level or the equivalent, or permission of the department chairman.

GREEK

(Department of Modern Languages)

All of the courses offered by this department are unrestricted arts and sciences courses.

GREEK 101: ELEMENTARY ANCIENT GREEK I 3 semester hours

Through the study of the grammar and syntax of ancient Greek and through readings and exercises based on Greek authors, the student is introduced to the spirit and culture of the classical Greek world and gains appreciation of its contribution to Western civilization.

GREEK 102: ELEMENTARY ANCIENT GREEK II 3 semester hours

This course is a continuation of Greek 101.

Prerequisite: equivalent of Greek 101.

HEALTH

None of the courses offered by this department are arts and sciences courses.

HEALTH 320: PUBLIC HEALTH NURSING 3 semester hours

This is an introduction to public health nursing. Consideration is given to the development and trends in the public health movement on the local, state and national bases as well as the functions of the public health nurse in official and voluntary agencies. The

fundamental principles of public health nursing are discussed in the light of recommended current practices in public health.

Open only to students in the school nurse-teacher program.

HEALTH 321: NUTRITION 3 semester hours

The fundamental principles of human nutrition are presented with application in planning of dieteries to individual situations as they relate to the food needs of different ages, racial preferences and budgeting.

Open only to students in the school nurse-teacher program.

HEALTH 322: SCHOOL NURSING 3 semester hours

The present day philosophy of school nursing is considered in this course. It includes the nurse's role as a member of the school health team, her functions and priorities of service. Discussion encompasses the three areas of the school health program; education, environment and services.

Prerequisite: Health 320.

HEALTH 323: PRACTICUM IN SCHOOL NURSING 3 semester hours

A special program of laboratory experiences for school nurses is available at the Henry Barnard School. This program is under the joint sponsorship of the State Department of Health and Rhode Island College and fulfills the field experience requirement of candidates seeking state certification. School nurses interested in this course should apply through their superintendents of schools to the director of laboratory experiences, Rhode Island College. The course includes 15 three-hour morning sessions of observation and participation oriented around procedures and practices of school health. The program consists of home visits and evaluation of health records and community resources.

Prerequisite: Health 322 or consent of instructor.

HEALTH EDUCATION

(Department of Health and Physical Education)

None of the courses offered by this department are arts and sciences courses.

HEALTH EDUCATION 200: FIRST AID AND SAFETY 3 semester hours

This course is designed to enable participants to qualify as Red Cross instructors in basic first aid, multimedia, standard first aid and personal safety. In addition, safety in aquatic activities as it applies to first aid will be covered in depth both in theory and practice.

HEALTH EDUCATION 201: PERSONAL HEALTH 3 semester hours

Principles, problems and practices that relate the factors of physical fitness, chronic disease, nutrition and consumer education are covered. To acquire basic health knowledge that will affect attitudes and eventual behavior, a comprehensive, conceptual approach is used.

HEALTH EDUCATION 202: HEALTH AND SOCIAL LIVING 3 semester hours

Issues of mental health, preparation for marriage and family living and the role that mood modifiers play in contemporary society are surveyed. Discussions are related to scientific, social, economic, political and other factors affecting attitudes and behavior concerning healthful social living.

HEALTH EDUCATION 303: COMMUNITY HEALTH AND SAFETY 3 semester hours

Safety is regarded as a social and personal health problem. Readings, discussions and class presentations are concerned with critical issues of environmental health and the problem of safety in the home, school and community. Interpretation of vital statistics along with the nature of accidents, communicable diseases and other environmental health concerns are discussed. Initial first aid instruction is presented to emphasize the desire for safety and to focus attention upon the primary concern-prevention.

HEALTH EDUCATION 304: ORGANIZATION AND ADMINISTRATION OF SCHOOL HEALTH EDUCATION PROGRAMS

Organizational and administrative relationships of the total school health education program are presented. The history of school health education practices, state responsibility, duties of personnel and other specific administrative concerns of the school health education programs are included.

HEALTH EDUCATION 401: CONTEMPORARY DESIGNS OF HEALTH EDUCATION PROGRAM

This course considers the development of contemporary health education program with regard to individual or social needs. The tasks of administering, supervising and evaluating the total health program are covered as they relate to the enhancement of eventual student outcomes.

HEALTH EDUCATION 402: FOUNDATIONS OF HEALTH SCIENCE

For graduate students deficient in background areas in the health science discipline, this course presents general content that comprises the scope of health education. Information emphasized.

Prerequisite: consent of advisor.

HEALTH EDUCATION 462: SEMINAR IN HEALTH EDUCATION

Open only to students in the graduate program in health education, the seminar surveys selected topics connected with contemporary issues and recent research in the various areas of health programs. A problem solving approach is utilized through situational identification, reports of student research and consultation with experts in allied health fields aimed at making recommendations for action.

DEPARTMENT OF HISTORY

All of the courses offered by this department are unrestricted arts and sciences courses.

• HISTORY 101: ISSUES AND APPROACHES TO ANCIENT HISTORY

In this course, the student analyzes several significant issues and themes in the ancient world and examines the major interpretive approaches to them. Consideration is given to the special methods of investigation used by the ancient historian.

• HISTORY 102: ISSUES AND APPROACHES TO MODERN EUROPEAN HISTORY

The student analyzes several significant issues and themes in European history since the 15th century and examines some of the major interpretive approaches to the under-contemporary Europe. The course provides a perspective on the forces which have shaped

• HISTORY 103: ISSUES AND APPROACHES TO UNITED STATES HISTORY

The student analyzes significant political and cultural issues in United States history and course provides a perspective on the elements of continuity and change in United States history.

• HISTORY 104: ISSUES AND APPROACHES TO EAST ASIAN HISTORY

The student analyzes significant political and cultural issues in the history of China, Japan and Korea and examines some of the major interpretive approaches to the understanding

of these themes. The course provides perspective on the elements of continuity and change in contemporary East Asia.

• HISTORY 105: ISSUES AND APPROACHES TO MOSLEM HISTORY

The student analyzes significant political and cultural issues in Moslem history and examines some of the major interpretive approaches to the understanding of these themes. The course provides a perspective on the modern Near East.

• HISTORY 106: ISSUES AND APPROACHES TO LATIN AMERICAN HISTORY

The student analyzes significant political and cultural issues in Latin American history and examines some of the major interpretive approaches to the understanding of them. The course provides a perspective on the contemporary development of Hispanic civilization.

HISTORY 200: THE NATURE OF HISTORICAL INQUIRY

This course introduces the student to the principal concerns of historical investigation. The emphasis will be placed upon the tools of historical inquiry, the nature of sources, the extraction and evaluation of evidence, the role of individual judgment and the conceptual framework of historical interpretation. History 200 is normally the first course in the history major and minor.

HISTORY 201-202: UNITED STATES HISTORY

The first semester deals with the development of the United States from its colonial origins through the Civil War and Reconstruction. The area of study in the second semester is the emergence of modern America from the rise of industrialization to the present. (Designed for students who need a general background in United States history before taking 300-level courses.)

HISTORY 221: ANCIENT HISTORY

This course examines the major civilizations of the ancient Near East and Mediterranean, emphasizing their characteristic institutions and significant achievements. (Designed for non-history majors and for students who desire a general background in ancient history.)

HISTORY 223: EARLY MODERN EUROPE

This course examines major political, economic and cultural developments in European history from the 15th century through the French Revolution and Napoleonic Wars. (Designed for non-history majors and for students who desire a general background in early modern history.)

HISTORY 224: MODERN EUROPE

This course examines major political, economic and cultural developments in 19th and 20th century European history since the Congress of Vienna. (Designed for non-history majors and for students who desire a general background in late modern history.)

HISTORY 301: HISTORY OF GREECE

Political and social history form the background for a study of artistic, literary, scientific and philosophic achievements of the Greeks. From the pre-Hellenic Aegean cultures to the Hellenistic era, the course emphasizes the influence of ancient institutions and ideas upon the development of Europe and America.

HISTORY 302: HISTORY OF ROME

An examination is made of the political history of Rome from its beginning through the Empire. Special attention is devoted to Rome's cultural achievements in the fields of government and law, literature and art, religion and philosophy.

HISTORY 303: MEDIEVAL HISTORY

This survey of Europe from the breakup of the Roman Empire to the 14th century examines the political, economic and intellectual forces which shaped medieval civilization.

Through a study of such institutions as the Church and Feudalism, an attempt is made to give the student a fuller appreciation of the character and contributions of this period.

HISTORY 306: FOUNDATIONS OF MOSLEM CIVILIZATION 3 semester hours
An examination is made of the background and development of Moslem Civilization from the 7th to the 16th century. Emphasis will be given to the religious, intellectual and cultural characteristics of the civilization as they are elaborated and become institutionalized. (This is the first course in the Moslem-Near East sequence and is taken prior to History 307 or 308 in satisfying the requirement for the major in non-Western history.)

HISTORY 307: HISTORY OF THE NEAR EAST FROM THE SIXTEENTH CENTURY 3 semester hours
An examination is made of the Near East under the increasingly powerful impact of the West, as the resurgence of Moslem strength under the Ottoman Turks and their contemporary gives way to weakness and decline. Main emphasis is given to political and military as well as institutional and cultural developments since the beginning of the 16th century.

HISTORY 308: HISTORY OF THE NEAR EAST IN THE TWENTIETH CENTURY 3 semester hours
A detailed examination of the Near East in the past half century is made with emphasis on the internal development of the contemporary nations of the Arab world, Turkey and Iran.

HISTORY 310: FOUNDATIONS OF EAST ASIAN CIVILIZATION 3 semester hours
An emphasis is placed on traditional Chinese culture and the major variations of the basic social, economic, political, literary and artistic themes will be dealt with, especially in light of their influences on modern Asia. (This is the first course in the East Asia sequence and is taken prior to History 311 or 312 in satisfying the requirement for the major in non-Western history.)

HISTORY 311: HISTORY OF EAST ASIA IN MODERN TIMES 3 semester hours
The focus of this course is on the revolutionary changes which have occurred in Asia from 1600 to the present, particularly the social and political changes. Emphasis is placed on a survey of the major events which have altered the traditional course of Asian development.

HISTORY 312: CONTEMPORARY INSTITUTIONS IN EAST ASIA 3 semester hours
An examination is made in this course of the new political, social and economic institutions which have come into being in the 20th century in Asia. Particular attention is given to such movements as Asian nationalism, Asian communism, the economic and social attitudes following the end of war in 1945, and the dynamic effects these have had on the traditional society of Asia.

HISTORY 313: EARLY AFRICAN HISTORY 3 semester hours
This course is designed to provide an orientation to the history of Africa as a whole by introducing the student to the present state of knowledge of pre-colonial Africa. The course examines and analyzes the political, social and economic development of the indigenous peoples and cultures before the advent of European domination in the 19th and 20th centuries.

HISTORY 314: MODERN AFRICAN HISTORY 3 semester hours
The European powers, having divided virtually the whole continent of Africa among them and imposed their rule upon its peoples during the 19th and 20th centuries accepted — with a few exceptions — African independence in the last quarter century. This course traces the steps by which political independence in Africa came about and examines the

impact both of the colonial experience and subsequent independence upon the structure of modern African history.

HISTORY 315: THE AGE OF THE RENAISSANCE 3 semester hours
This is a study of Europe's transition from the Middle Ages to the early modern period. The primary focus centers on changing patterns of thought and new art forms that appear in the culture of the Italian city-state of the 14th and 15th centuries. Attention is also given to the spread of these trends and the emergence of a new social and political order.

HISTORY 316: THE AGE OF THE REFORMATION 3 semester hours
The religious crisis of the 16th century forms the central theme of this course. Special effort is made to set forth the political, economic and intellectual context within which the Reformation occurred and to assess the importance of these factors on the development of European culture to 1648.

HISTORY 318: EUROPE IN THE DYNASTIC AGE, 1648-1789 3 semester hours
This course examines the essential themes of European civilization from the Peace of Westphalia to the eve of the French Revolution. Special attention is given to the age of Louis XIV, the Enlightenment and the diplomatic events of the 18th century.

HISTORY 319: EUROPE IN THE AGE OF REVOLUTION, 1789-1850 3 semester hours
Beginning with an intensive study of the French Revolution and the Napoleonic period, this course traces the quest for political and international stability through the Metemich era and the revolutions of 1830 and 1848. Emphasis is placed on the ideological and political origins of liberalism, nationalism and socialism, and on the impact of industrialism on European politics and society.

HISTORY 320: EUROPE IN THE AGE OF NATIONALISM, 1850-1914 3 semester hours
This course examines the major political, economic and cultural developments in Europe during the second half of the 19th century. Special attention is given to the unification of Germany and Italy, the political institutions of the European nation-states, the emergence of nationalism and imperialism, and European diplomatic history from 1900 to the First World War.

HISTORY 321: TWENTIETH CENTURY EUROPE 3 semester hours
This is a study of developments in Europe since the Treaty of Versailles. The course seeks to give the student a deeper understanding of his own century by analyzing the effects of total war upon Europe and its place in the world order. Special attention may be given to such topics as fascism, communism, the economic crisis of the 1930's and the events that led to war in 1939.

HISTORY 324: HISTORY OF RUSSIA FROM THE FIFTEENTH CENTURY TO 1861 3 semester hours
This course examines the evolution of Russia from the rise of the principality of Moscow to the liberation of the serfs. Particular attention is given to the distinctive political and social institutions of traditional Russia and to the counterpoised processes of modernization and Westernization.

HISTORY 325: HISTORY OF RUSSIA FROM 1861 TO THE PRESENT 3 semester hours
An examination of the political, economic, social and intellectual evolution of imperial Russia since Alexander II emphasizes the ways in which internal developments led to the Bolshevik Revolution of 1917 and conditioned the subsequent historical development of Soviet Russia.

HISTORY 331: TUDOR AND STUART ENGLAND 3 semester hours
The main themes of English history between 1485 and 1714 are analyzed: the anarchic

setting of the 15th century, administrative problems, religious conflicts, overseas expansion, the Elizabethan Age, the Civil War and the development of political institutions and traditions.

HISTORY 332: MODERN BRITAIN FROM 1714 *3 semester hours*

Issues in British development from 1714 receive attention: the emergence of the first industrial society, imperial ideas and policies, the development of democratic institutions, the role of Britain in world affairs, and British decline in the 20th century.

HISTORY 333: HISTORY OF THE BRITISH EMPIRE — COMMONWEALTH FROM 1815 *3 semester hours*

Following the Napoleonic Wars, Britain confronted the task of coping with a far-flung empire. As policy was created in response to varying needs, the process of evolution developed in the major parts of the developing Empire—Commonwealth: Canada, Ireland, South Africa, Australia, India and the newer dominions.

HISTORY 341: AMERICAN COLONIAL HISTORY TO 1750 *3 semester hours*

This course studies the colonization of North America from its beginning with emphasis upon the political, economic, social and religious development of the English colonies.

HISTORY 342: THE AMERICAN REVOLUTION, 1750-1788 *3 semester hours*

This course studies the origins, course and aftermath of the American Revolution and the problems of forming the federal union.

HISTORY 343: SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES TO 1865 *3 semester hours*

The purpose of this course is to lead the student toward an understanding of the influence of important intellectual currents upon American development and to study the interaction of social and economic change with American culture. The first semester covers the period from our colonial beginnings to 1865.

HISTORY 344: SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES FROM 1865 TO THE PRESENT *3 semester hours*

A continuation of History 343, the second semester continues an analysis of the influence of important intellectual currents upon American development after 1865.

HISTORY 345: ETHNIC AND MINORITY GROUPS IN UNITED STATES HISTORY *3 semester hours*

This course examines historically the role that ethnic and minority groups have played in the political, social and economic development of the United States. Beginning with an appraisal of cultural conflict, the course traces the changing character of ethnic and minority components in American history from colonial times to the present. Emphasis is placed on the expansion of the American frontier, geographical distribution, intergroup relations and conflicts and on the process of adjustment to American institutions.

HISTORY 346: HISTORY OF AMERICAN FOREIGN POLICY *3 semester hours*

Beginning with a survey and analysis of the historic bases of our foreign policy, the course emphasizes the emergence of the United States as a world power and the factors shaping our foreign policy in the 20th century.

HISTORY 347: UNITED STATES IN THE TWENTIETH CENTURY *3 semester hours*

Significant developments in the United States since 1900 in all fields, social, economic, intellectual, political and diplomatic, are examined against the background of world developments and with special reference to their influence upon contemporary problems.

HISTORY 348: ECONOMIC HISTORY OF THE UNITED STATES *3 semester hours*

This is a study of the development of the American economy with special emphasis on the 19th and 20th centuries. Both historical and economic insights will be applied to the experience of the United States in an analysis of those forces which have shaped and are

shaping the American economic system. (Accepted for credit in economics. Students cannot receive credit for both History 348 and Economics 348.)

HISTORY 349: URBAN HISTORY OF THE UNITED STATES *3 semester hours*

This course examines the forces which have contributed to the rise, growth, complexity and distinctive character of the American city. The focus of the course will be on the rural-urban dichotomy in United States history, population distribution and settlement patterns, and on municipal services, reform and planning. The process of urbanization and its impact on American political and social life will be studied as a means for understanding the achievements and problems of urban America.

HISTORY 350: UNITED STATES HISTORY FROM 1815 THROUGH THE AGE OF JACKSON *3 semester hours*

The course analyzes domestic problems and institutional developments to the 1840's. Emphasis is placed on economic change, fiscal policy, the growth of sectionalism and on the political and social implications of Jacksonian democracy.

HISTORY 351: THE CIVIL WAR AND RECONSTRUCTION *3 semester hours*

Included in this course are an analysis of the developments leading to the Civil War, a study of the efforts of the Union and the Confederacy on the military and home front, and an examination of the effects of the war on North and South, including special consideration of the continuing problems of racial adjustments.

HISTORY 355: RHODE ISLAND HISTORY *3 semester hours*

A survey, this course stresses colonial origins and distinctive characteristics, the part played in the Revolutionary period and the problems of industrial growth and social change during the national period.

HISTORY 356: STUDIES IN BLACK HISTORY *3 semester hours*

This course deals with selected topics in Black history in the United States such as the African background of Black Americans, the origin and development of slavery, the abolitionist and protest movements, legislative and judicial efforts to achieve racial equality, and the contributions of Black Americans to the development of modern society. Alternatively, the course may deal with topics in Black history in other geographic areas such as Latin America. (This course may be repeated when the content is different.)

HISTORY 358: COLONIAL LATIN AMERICA *3 semester hours*

In the period from 1492 to the eve of independence, special stress is given to Spanish colonization and institutions, to colonial rivalry with France and England and to inner conflicts within the settled areas. Attention is paid to the Indian heritage and to the work of the Portuguese in Brazil.

HISTORY 359: MODERN LATIN AMERICA *3 semester hours*

This course underscores the process of achieving independence together with the political, economic and social evolution of the Spanish-speaking republics, Brazil and the Caribbean area in the light of emerging contemporary needs for collective security in the Western hemisphere.

HISTORY 361: SEMINAR IN HISTORY *3 semester hours*

This course builds upon the students' experience in History 200. Emphasis will be placed on issues in historiography, the identification and definition of historical problems, the researching and writing of a substantial paper and historical criticism. Various topics will be offered for analysis each semester. This course is required of all history majors.

Prerequisite: Hist. 200 and 15 additional hours in the major.

HISTORY 371: READING COURSE IN HISTORY *3 semester hours*

Independent study under the careful guidance of an historian is the goal of a reading course. Materials are selected on the basis of student's and instructor's interests.

Prerequisite: restricted to undergraduate seniors who have had variable course work and who have the

consent of an instructor and the department chairman. Request to participate in a reading course should be made in writing to department chairman by December 1 for spring semester and by April 1 for fall semester.

HISTORY 390: DIRECTED STUDY 4 semester hours
Concentrated research under the supervision of a faculty adviser for honors candidates in the first semester of the senior year.

Prerequisite: admission to the honors program.

HISTORY 391: DIRECTED STUDY 4 semester hours
Completion of research on the honors paper in the second semester of the senior year; Honors candidates will prepare a final draft of the honors essay and submit it to the department for acceptance.

Prerequisite: satisfactory completion of Hist. 390

HISTORY 401: SPECIAL TOPICS IN HISTORY 3 semester hours
This course provides an opportunity to study a special topic or theme not offered by the department on a regular basis. Appropriate topics include the study of selected problems in national history or thematic studies in constitutional history, diplomatic history or the history of science and technology. The special topic will be announced prior to the semester in which the course is offered.

Prerequisite: consent of department chairman.

HISTORY 501: HISTORIOGRAPHY 3 semester hours
Main emphasis is placed upon an introduction to the theories and types of history and the various schools of historical thought.

Prerequisite: consent of department chairman and graduate adviser.

HISTORY 511: GRADUATE HISTORY COLLOQUIUM 3 semester hours
The colloquium introduces the Master of Arts candidate to the bibliography of his area section of the course and provides preparation for the research seminar and the master's thesis. Each broad theme selected by the department.

Prerequisite: consent of department chairman and graduate adviser.

HISTORY 521: TOPICS IN COMPARATIVE HISTORY 3 semester hours
Aimed at providing a theoretical and practical appreciation of historical comparison and generalization, this course examines the methodological basis of comparative history and studies in detail instances of analogous development, significant contrast or unique contrast in a topic such as English and American Puritanism; the American, French and Russian Revolutions; ancient and modern slavery; caste and class in East and West.

Prerequisite: consent of department chairman and graduate adviser.

HISTORY 561: GRADUATE SEMINAR IN EUROPEAN HISTORY 3 semester hours
Study in a seminar develops greater knowledge of materials for history, of methods of research and of skill in solving problems of analysis and exposition.

Prerequisite: Hist. 501 and consent of graduate adviser.

HISTORY 562: GRADUATE SEMINAR IN UNITED STATES HISTORY 3 semester hours
Study in a seminar develops greater knowledge of materials for history, of methods of research and of skill in solving problems of analysis and exposition.

Prerequisite: Hist. 501 and consent of graduate adviser.

HISTORY 571: GRADUATE READING COURSE IN HISTORY 3 semester hours
A reading course is available upon the completion of suitable arrangements between candidate, adviser and instructor. Independent study under the careful guidance of an historian is the goal of a reading course.

Prerequisite: restricted to graduate students who have had suitable course work and who have obtained the consent of an instructor and the department chairman. Request to participate in a reading course should be made in writing to department chairman by December 1 for spring semester and by April 1 for fall semester.

HISTORY 599: DIRECTED GRADUATE RESEARCH 3-6 semester hours
This course is open to Master of Arts and Master of Arts in Teaching candidates preparing a thesis or field paper under the supervision of a member of the department. Credit is assigned in the semester that the paper is completed and approved. No grade is given in this course.

DEPARTMENT OF INDUSTRIAL EDUCATION

Industrial Technology 300, 305, 310 and 320 are unrestricted arts and sciences courses. None of the other courses offered by this department are arts and sciences courses.

INDUSTRIAL ARTS 101: TECHNICAL DRAWING (6) 3 semester hours
An introduction to the science of technical communication through a study of pictorial sketching and projections, orthographic sketching and projections, geometric constructions, sectional and auxiliary views, dimensioning, industrial practices and machine reproduction processes.

INDUSTRIAL ARTS 105: FABRICATION TECHNIQUES IN WOOD (6) 3 semester hours
A study of the development and use of wood and wood composite materials and the related industrial fabrication techniques. Laboratory experiences are provided in the use of tools and machines, fasteners, adhesives and finishes used in wood fabrication.

INDUSTRIAL ARTS 109: FABRICATION PROCESSES IN METALS (6) 3 semester hours
A classroom and laboratory study of the basic fabrication processes used in the metals industry. Sheetmetal fabrication, metal shaping—forging, casting, machining, metal fabrication—soldering, bonding, fastening and welding.

INDUSTRIAL ARTS 115: CRAFTS (6) 3 semester hours
An introduction to a number of art, guild and industrial crafts. Laboratory work in jewelry—designing, shaping, casting, plating and etching, copper enameling, silk screening, leather, candlemaking and the application of plastics in crafted items.

INDUSTRIAL ARTS 121: SYNTHETIC MATERIALS TECHNOLOGY (6) 3 semester hours
A classroom and laboratory study of synthetic materials which may be fabricated, poured vacuum formed, blow molded, injected or extruded. This includes the fibreglass, thermoplastic and thermoplastic families of synthetic materials.

INDUSTRIAL ARTS 126: BASIC ELECTRICITY (6) 3 semester hours
A study of the nature of electricity and the source for producing electricity. This includes classroom and laboratory study of DC and AC principles, electro-magnetism, basic circuitry and electrical measurements.

INDUSTRIAL ARTS 131: PHILOSOPHY AND IMPLEMENTATION OF INDUSTRIAL ARTS 4 semester hours
An historical study of the philosophical foundations, social climates, and concepts involved in the development of a generation of industrial education programs and their relationship to the study of contemporary curriculums presently being utilized in the discipline.

INDUSTRIAL ARTS 200: ARCHITECTURAL DESIGN (6) 3 semester hours
A study of residential home designs and construction techniques. This includes site selection, foundations, home construction, heating, plumbing and wiring. Students design their own home and complete an architectural set of drawings.

INDUSTRIAL ARTS 202: CONSTRUCTION

(6) 3 semester hours
A classroom and laboratory study of the residential construction industry. This includes site selection and plot surveying, percolation and foundation tests, concrete and masonry foundations, wood frame construction, installation of heating systems, plumbing and wiring.

Prerequisite: I.A. 125.

INDUSTRIAL ARTS 210: ELECTRONICS I

(6) 3 semester hours
A study of electron tube theory, semiconductors and basic electronic circuitry and their functions in AM and FM receivers.

Prerequisite: I.A. 126.

INDUSTRIAL ARTS 212: ELECTRONICS II

(6) 3 semester hours
A study of the operating theory of the newest semiconductors and their applications in audio and video recording and playback systems, logic circuitry and electronic gadgetry.

Prerequisite: I.A. 126.

INDUSTRIAL ARTS 220: POWER AND ENERGY SYSTEMS

(6) 3 semester hours
A basic comprehensive course investigation in the theory and development of power and energy sources and their utilization. This includes natural power sources, external and internal combustion engines — steam, gas, diesel and turbine.

INDUSTRIAL ARTS 222: POWER SYSTEMS DEVELOPMENT

(6) 3 semester hours
A classroom and laboratory study of new developments in the utilization of energy sources — atomic, solar, wind, geo-thermal, etc. Investigation into power control systems — hydraulic, pneumatic and solid state logic circuitry.

Prerequisite: I.A. 109.

INDUSTRIAL ARTS 230: TECHNICAL ILLUSTRATION

(6) 3 semester hours
An investigation into the commercial and industrial techniques used in informing, communicating, advertising and instructing. This includes pictorial, technical and construction information techniques, design and lay-out techniques, principles, and media analysis.

INDUSTRIAL ARTS 232: COMMERCIAL PRINTING

(6) 3 semester hours
A study of the development of printing and the printing industry. Laboratory experiences in the dominant production processes of offset and letterpress printing incorporating design, layout, composition, camera and copy work.

INDUSTRIAL ARTS 303: INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL

(3) 3 semester hours
This course centers on the industries that are basic to the human needs of food, clothing and shelter which are particularly appropriate for study by the early elementary child. Each industry and its basic processes are investigated, and related basic industrial operations are explored for concrete experiences in the classroom. This involves experimentation and construction with such materials as paper, cardboard, clay, soap, wax, leather, string, yarn, cloth and wood. Restricted to elementary education majors.

INDUSTRIAL ARTS 325: INDUSTRIAL PROCESSING

(6) 3 semester hours
A study of the American Industries from the procurement, development and processing of materials, fabrication and finishing of consumer products, to the delivery of the products to the market.

INDUSTRIAL ARTS 330: INDUSTRIAL TECHNOLOGY ANALYSIS

(6) 3 semester hours
Research and testing principles are employed in the study, exploration of new materials and their applications, new fabrication and production techniques and experimentation in new materials use or fabrication techniques.

Prerequisite: completion of two cluster concentrations.

INDUSTRIAL ARTS 335: LABORATORY PLANNING AND ORGANIZATION

(6) 3 semester hours
A systematic approach to the study of the organization and administration of an industrial education facility. Special emphasis will be placed upon the planning, organization and control of materials utilized in various programs. Study in teacher liability, professional responsibility, and safety will be stressed.

INDUSTRIAL EDUCATION 381: WORKSHOP IN INDUSTRIAL EDUCATION: THE WORLD OF CONSTRUCTION

(3) 3 semester hours
The activities in this workshop are designed to equip a teacher with a working knowledge of the philosophical foundations and the instructional system developed at Ohio State University, under U.S. Office of Education funding, to better acquaint the student with the construction industries and their importance to society. Special materials will be required for the course.

Prerequisite: approval of the department.

INDUSTRIAL EDUCATION 382: WORKSHOP IN INDUSTRIAL EDUCATION: THE WORLD OF MANUFACTURING

(3) 3 semester hours
This workshop will equip a teacher with a new and innovative philosophy, together with modern instructional systems developed at Ohio State University to instill better student understanding of broad concepts and principles of technology and manufacturing. Special materials will be required for the course.

Prerequisite: approval of the department.

INDUSTRIAL EDUCATION 400: APPLIED ELECTRONICS

(3) 3 semester hours
This course proceeds from the basic course in electricity. The student is introduced to the more advanced study of basic electronics. Units typical to the course are the electron tube, elements of radio, principles of semiconductors and basic electron circuits.

Prerequisite: I.A. 126 or consent of instructor.

INDUSTRIAL EDUCATION 402: POWER MECHANICS II

(3) 3 semester hours
This is an extension of I.A. 220 and involves minor tune-up of the internal combustion engine, introduction to horsepower rating and testing and further study of hydraulic, pneumatic and other power generation systems.

Prerequisite: I.A. 220 or consent of instructor.

INDUSTRIAL EDUCATION 403: INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL II

(3) 3 semester hours
This course explores the broad technological fields of communication, transmission and reception (visual and printed), transportation (land, sea and air), and power (natural and man made) and ways that they may be applied in the elementary and middle school curricula. Suitable laboratory experiences are offered in such areas as: photography, printing, basic electricity, wind and water powered machines, and internal combustion engines.

INDUSTRIAL EDUCATION 500: ADMINISTRATION AND SUPERVISION OF INDUSTRIAL EDUCATION

(3) 3 semester hours
This is a study of current practices in the administration and supervision of programs of vocational, technical and industrial arts education at the elementary, secondary and junior college (post secondary) levels. Special emphasis is placed on a study of relationships between administrators and teachers, the impact of federal legislation of local programs and the involvement of local agents in program planning.

Prerequisite: I.A. 100 or Voc. Ed. 301 or equivalent.

INDUSTRIAL EDUCATION 506: CURRENT ISSUES IN INDUSTRIAL EDUCATION

(3) 3 semester hours
Students study selected topics connected with current issues and recent research in the several branches of industrial education. Wide use is made of the problem-solving

approach through situational identification, research and recommendations for action.

Prerequisite: either I.A. 100, Vn. Ed. 302, 303 or consent of instructor.

INDUSTRIAL EDUCATION 507: COOPERATIVE PROGRAMS IN INDUSTRIAL EDUCATION

Beginning with a study of purposes and operational principles of cooperative education, the student moves on to considerations of both traditional and innovative means of implementing programs in schools. 3 semester hours

Prerequisite: two years teaching experience and I.E. 500 or consent of instructor.

INDUSTRIAL EDUCATION 520: SUPERVISED OCCUPATIONAL EXPERIENCES

Supervised experiences in an approved occupational situation are related directly to the professional assignment of the student by means of detailed written plans for integrating the experiences into the school program. More than one experience is permitted under special conditions when recommended by the adviser or department chairman. 3 semester hours

Prerequisite: approval of department chairman not less than one month prior to registration.

INDUSTRIAL EDUCATION 580a, b, c: WORKSHOP IN MATERIAL AND PROCESS TECHNIQUES

Advanced study of material and process is made in the several technical fields of industrial education such as wood, metals, plastics, graphics. A student may take this course with his adviser's consent a maximum of three times. Credits may vary.

Prerequisite: permission of department chairman or instructor.

INDUSTRIAL TECHNOLOGY 300: DESIGN ANALYSIS

A classroom and laboratory study of the design analysis concepts used in industry from product development to manufacturing and cost considerations and marketing. 3 semester hours

Prerequisite: I.A. 101, 105 and 109.

INDUSTRIAL TECHNOLOGY 305: PRODUCTION CONTROL AND MANAGEMENT

Analysis of the production processes, including time study of production stations and training needs for production, and a study of working regulations regarding physical exertion, safety and liability. Field trips will be employed to assess actual practices. 3 semester hours

Prerequisite: I.A. 101, 109 and 121.

INDUSTRIAL TECHNOLOGY 310: PLANT SUPERVISION AND MANAGEMENT

An investigation of plant organization of personnel, their responsibilities and duties. A study of accepted and preferred supervisory attitudes and policies in regard to improving and/or correcting particular personnel situations and minority and equal opportunity hiring considerations. 3 semester hours

Prerequisite: I.T. 320.

INDUSTRIAL TECHNOLOGY 320: INDUSTRIAL ORGANIZATION AND MANAGERIAL STRUCTURE

An investigation into the common developmental and organizational factors in an industrial enterprise — corporate and managerial structure, product development and production analysis, labor and job training considerations. A corporation is created, industrial positions are role-played, a product is developed, produced and sold, and the enterprise is analyzed for production problems, overhead and profit. (6) 3 semester hours

DEPARTMENT OF INSTRUCTIONAL TECHNOLOGY

None of the courses offered by this department are arts and sciences courses.

INSTRUCTIONAL TECHNOLOGY 304: AUDIOVISUAL INSTRUCTIONAL MATERIALS

(4) 3 semester hours

Designed to give the student an understanding of audiovisual materials and techniques of utilization; teaching tools, the course includes evaluation of materials and techniques as classroom materials. In addition to non-projected materials of all types, projected materials, instructional television, multiple listening recording devices and other audio aids are covered. Selected experiences in the preparation of teaching materials are included. Two-hour lecture, two-hour laboratory per week.

INSTRUCTIONAL TECHNOLOGY 422: FIELD INTERNSHIP IN INSTRUCTIONAL TECHNOLOGY

3 semester hours

Students in this course are required to spend at least one day per week under the supervision of instructional material coordinators in selected public schools with supervision from the college media staff.

Prerequisite: 12 semester hours in instructional technology.

INSTRUCTIONAL TECHNOLOGY 430: VISUAL COMMUNICATION TECHNIQUES

3 semester hours

This course is designed to acquaint the classroom teacher with successful classroom visual communication projects and production techniques. Participants will get experience conducting visual communication projects in class and with their own students.

Prerequisite: Inst. Tech 304.

INSTRUCTIONAL TECHNOLOGY 435: SELECTION OF MATERIALS FOR INSTRUCTION

3 semester hours

An examination is made of criteria for development and evaluation of school curriculum. Special attention will be given to the selection and utilization of instructional materials as well as the role of the audio-visual specialist in the process of curriculum development.

Prerequisite: limited to M. Ed. degree candidates in instructional technology.

INSTRUCTIONAL TECHNOLOGY 436: THEORY AND DESIGN OF SELF-INSTRUCTIONAL MODULES

3 semester hours

Emphasizing the combination of audiovisual technology with programming theory in design, preparation, use and evaluation of self-instructional modules, this course includes the development of a self-instructional module by each student.

Prerequisite: Inst. Tech 304.

INSTRUCTIONAL TECHNOLOGY 437: THE ROLE OF TELEVISION IN EDUCATION

3 semester hours

This course is devoted in part to an exploration of the impact of television on the curriculum. Television utilization and program selection is discussed at length with reference to closed-circuit. Opportunity is given for actual experience in preparing and presenting a television lesson using portable TV equipment.

INSTRUCTIONAL TECHNOLOGY 439: INTRODUCTION TO LIBRARY RESOURCES

3 semester hours

An introduction to the field of librarianship, principles and practices of descriptive and subject cataloging and classification of print and non-print materials are discussed, principles and policies employed in the acquisition, organization and circulation of materials are investigated.

INSTRUCTIONAL TECHNOLOGY 440: PREPARATION OF AUDIOVISUAL MATERIALS

3 semester hours

This course is devoted to the techniques of making audiovisual materials for classroom use. The laboratory technique is used almost entirely throughout the course. Emphasis is given to the preparations of various types of slides, transparencies for the overhead projector and 8 mm sound motion picture production. No technical background is required.

Prerequisite: Inst. Tech. 304.

INSTRUCTIONAL TECHNOLOGY 450: MULTI-MEDIA APPROACH TO INSTRUCTION

3 semester hours

This course includes the design, analysis, preparation and evaluation of multi-media presentations. The student will prepare presentations using a variety of media and will explore the application of these techniques to the curriculum.

Prerequisite: Inst. Tech. 440.

INSTRUCTIONAL TECHNOLOGY 504: ADMINISTRATION OF INSTRUCTIONAL TECHNOLOGY PROGRAMS

3 semester hours

Duties and problems of the media director are studied. Field trips are arranged to various media centers in surrounding communities. Students identify problems and set up procedures for establishing media services.

Prerequisite: six credits in instructional technology.

INSTRUCTIONAL TECHNOLOGY 516: DESIGN AND USE OF LEARNING SPACE

3 semester hours

This course is designed to explore problems related to the design of learning space, large and small, where media are to be used as an integral part of the curriculum. Emphasis will be placed on new construction as well as remodeling of existing facilities for optimum approach will be utilized with field trips to local media facilities, an integral part of the course work.

Prerequisite: six credits in instructional technology.

INSTRUCTIONAL TECHNOLOGY 526: THEORY OF COMMUNICATION AND MESSAGE DESIGN

3 semester hours

This course investigates the implications of theory and research in communications on message design.

Prerequisite: six credits in instructional technology.

INSTRUCTIONAL TECHNOLOGY 537: INSTRUCTIONAL DESIGN UTILIZING TELEVISION

3 semester hours

This course develops sound principles for the development of television production facilities within the school. Production includes the use of the two camera system, normal studio equipment and set design.

Prerequisite: Inst. Tech. 417.

INSTRUCTIONAL TECHNOLOGY 539: THE SCHOOL LIBRARY

3 semester hours

This course examines the school library as an Instructional Resource Center and an integral part of the total school environment.

Prerequisite: Inst. Tech. 419.

INSTRUCTIONAL TECHNOLOGY 541: PHOTOGRAPHY

3 semester hours

This course will involve the student in techniques associated with still color photography. Copy techniques, time exposures, wide angle procedures, standard lens use and the specialized areas of telephotography will be considered. Strong emphasis will be given to techniques of storyboarding, and the setting of instructional objectives for visual presentations. The need for retakes, the uses of night photography and areas of micro and macro

photography will also be covered. Students will consider, discuss and work with composition as it effects instruction in specific subject areas.

Prerequisite: Inst. Tech. 304 and consent of instructor.

INSTRUCTIONAL TECHNOLOGY 542: CINEMATOGRAPHY

3 semester hours

This course covers the use of 8mm cinefilm in instruction. The planning of instructional motion pictures is the major emphasis. Techniques covered will include the storyboard, camera angles, scene set-ups, handling and script, in-camera editing, lighting techniques, camera angles, scene set-ups, handling and script, directing, pacing and continuity, and scene/shot development. Timing and matched action techniques, simple animation, titling and instructional composition will also be considered. The mechanics of cinematography will be covered. Mechanics will include the use of editing and splicing equipment as well as tape/synched sound. The combined use of 8mm photography and videotape will also be covered as well as special effects procedures and techniques.

Prerequisite: Inst. Tech. 304 and consent of instructor.

INSTRUCTIONAL TECHNOLOGY 564: SEMINAR IN

3 semester hours

INSTRUCTIONAL TECHNOLOGY

This is a conference course for students preparing a thesis in instructional technology.

Prerequisite: open only to C.A.G.S. candidates.

ITALIAN

[Department of Modern Languages]

The restricted arts and sciences courses in this department are 101 and 102. All of the other courses listed below are unrestricted arts and sciences courses.

ITALIAN 101: ELEMENTARY ITALIAN I

3 semester hours

The course offers a thorough study of Italian pronunciation and grammar. It includes conversation, dictation and reading of Italian texts, plus the acquisition of some knowledge of Italian culture. This course is normally not open for college credit to students who have offered admission credit in the language.

See Italian 110.

ITALIAN 102: ELEMENTARY ITALIAN II

3 semester hours

This course is a continuation of Italian 101.

Prerequisite: Italian 101 or one year of secondary school Italian or permission of the department chairman.

ITALIAN 110: CONTINUING ELEMENTARY ITALIAN

4 semester hours

A concentrated one semester course for the student who wishes to continue study of the language begun in the secondary school. In this course special emphasis is placed on aspects of culture and civilization as it relates to language development. The development of the four skills: listening, speaking, reading and writing, is stressed. Extensive use is made of the language laboratory. Not open to students who have completed Italian 101 or 102.

Prerequisite: two years of secondary school Italian or approval of the department chairman.

ITALIAN 113: INTERMEDIATE ITALIAN

4 semester hours

Through selected readings the student examines the cultural and linguistic heritage of Italy. This course, which includes a review of grammar, also provides for the further development and practice of the basic oral and written skills. The language laboratory is utilized. The course is open to students who have completed either Italian 102, or 110, three years of secondary school Italian; or have achieved a score of 500-549 on the CLEB Achievement Test in Italian.

*** ITALIAN 114: READINGS IN INTERMEDIATE ITALIAN**

4 semester hours
Emphasis is placed on the development of the reading skill and of an appreciation of literature, selected from various periods and genres, for its interest as a reflection of the language of the Italian people. The development of the oral skill is continued, and some attention is given to written practice.

Prerequisite: achievement through the Italian 113 level or the equivalent, or permission of the department chairman.

ITALIAN 115: INTERMEDIATE ORAL ITALIAN

4 semester hours
The development of oral proficiency is stressed while giving some attention to retaining written skills previously acquired. Selected periodicals, language manuals and laboratory tapes will serve as basic materials for accomplishing assignments related to vocabulary building, correct and idiomatic diction and oral presentations.

Prerequisite: achievement through the Italian 113 level or the equivalent or permission of the department chairman.

LATIN

(Department of Modern Languages)

All of the courses offered by this department are unrestricted arts and sciences courses.

LATIN 101: ELEMENTARY LATIN I

3 semester hours
Through the study of the grammar and syntax of classical Latin and through readings from Latin authors, the student is introduced to the spirit and culture of the classical Roman world and gains appreciation for its contribution to Western civilization.

LATIN 102: ELEMENTARY LATIN II

3 semester hours
This course is a continuation of Latin 101.

Prerequisite: equivalent of Latin 101.

LATIN 113: INTERMEDIATE LATIN

4 semester hours
Readings selected from authors from Cicero to the Goliards provide insight into the spectrum of Roman culture from the Republic to the Middle Ages.

Prerequisite: the equivalent of Latin 102, or two years of secondary school Latin.

LATIN AMERICAN STUDIES

This course is an unrestricted arts and sciences course.

INTERDEPARTMENTAL COURSE 363: SEMINAR:**TOPICS IN LATIN AMERICAN STUDIES**

3 semester hours
This seminar provides a culminating experience in Latin American studies.

Prerequisite: permission of instructor and coordinator of Latin American studies. Restricted to students in the interdepartmental concentration in Latin American studies.

MANAGEMENT

(Department of Economics and Management)

The restricted arts and sciences courses are 230 and 231. All other courses listed below are unrestricted arts and sciences courses.

MANAGEMENT 230: ACCOUNTING I

3 semester hours
The identification, measurement, and reporting of the financial effects of economic events on enterprises. Develops the basic concepts involved in the preparation, analysis and interpretation of financial statements. Two hours of lecture and two hours of laboratory per week.

MANAGEMENT 231: ACCOUNTING II

3 semester hours
Elements of cost in industrial firms. Covers job order, process and standard costs. Cost

control and cost and profit analysis for decision making. Will include problem sets. Two hours of lecture and two hours of laboratory per week.

Prerequisite: Econ. 230.

MANAGEMENT 321: PRINCIPLES OF MANAGEMENT

3 semester hours
This course is designed to acquaint the management major with the totality of the scope of managerial decision making. The managerial functions of planning, staffing, directing and controlling will be introduced. The student will be introduced to the types of and controlling models encountered in later courses, and will be introduced to many of the managerial theories which have been developed over the years. Wherever possible, case studies will be employed in order to acquaint the student with the real-life decision-making problems.

MANAGEMENT 326: PERSONNEL MANAGEMENT

3 semester hours
Encompasses such areas as human behavior and interactions within the work environment; personnel management as it concerns recruitment, development and utilization of manpower resources; analysis of employee-employer relationships; and decision-making under collective bargaining, organized conflict and public policy.

MANAGEMENT 331: MARKETING MANAGEMENT

3 semester hours
This course involves the study of the structure and process of market and the strategies involved in their management. Specific focus will be directed to market research, product innovation, pricing problems, sales programs, advertising and organization of marketing plans.

MANAGEMENT 336: MANAGERIAL FINANCE AND CONTROL

3 semester hours
Concepts and theories applicable to the financial administration of a firm. Financial planning and control within the firm, including sources and uses of funds, cost of capital and investment decisions, operating and capital budgets, and financial analysis for managerial evaluation and control.

Prerequisite: Econ. 211, Management 230, 231, 321.

MANAGEMENT 341: THE LEGAL ENVIRONMENT

3 semester hours
This course will provide a survey of the origins, framework and concepts of our legal system, as appropriate to management decisions. Major emphasis will be given to the contractual relations experienced in the management role.

MANAGEMENT 346: MANAGEMENT INFORMATION SYSTEMS

3 semester hours
This course covers the fundamentals of analysis, design and implementation of information systems for managerial decision making. Typical business systems will be covered, such as order entry, billing and inventory. Emphasis will be placed on the use of modern data processing equipment in these systems. Students will be taught to use one of the common computer languages. (two hours of lecture, two hours of laboratory)

Prerequisite: Management 321, 210 and 231.

MANAGEMENT 351: DYNAMICS OF ORGANIZATION AND BEHAVIOR

3 semester hours
Through the study of old and new models of organizational structure, this course will investigate those traits of human behavior which, when combined in a variety of ways, produce a successful organization. An attempt will be made to show why some organizations are productive high morale organizations and some are not. The concepts of motivation, leadership and productivity will be investigated. The operations of small groups of people as well as large ones will be studied. The personalities of various organizations will be explored, by looking at the dynamic aspects of their structure and function. The case-study method may be utilized.

Prerequisite: Management 321.

MANAGEMENT 361: SEMINAR IN MANAGERIAL POLICY

3 semester hours

Actual business problems are presented for solution; the class is expected to act in the role of a consultant. These will be handled by the case method where the instructor normally acts as a resource person and evaluator. This course integrates the student's previous courses in managerial economics into a decision-making framework.

Prerequisite: major status and completion of all required courses except Management 341.

DEPARTMENT OF MATHEMATICS

*Courses marked ** do not carry credit toward the major, minor, or the teaching concentration in mathematics.*

*Courses marked * do not carry credit toward the major or minor in mathematics but may carry credit toward the concentration in mathematics in the elementary education curriculum.*

The restricted arts and sciences courses in this department are 113 and 114. All other courses listed below are unrestricted arts and sciences courses.

****MATHEMATICS 113: SHOP MATHEMATICS I**

3 semester hours

In this applied mathematics course, problem content is taken from the general trade areas to provide a base for instruction in measurement, elements of algebra and selected topics in plane geometry. Instruction is given in the use of the slide rule, which is the basic computational tool for the course.

****MATHEMATICS 114: SHOP MATHEMATICS II**

3 semester hours

This is an applied mathematics course and an extension of Mathematics 113. It centers about a study of plane trigonometry and its adaptation to problems of trade and industry. Problems are drawn primarily from the building, metals and electrical trades.

Prerequisite: Math. 113 or consent of the Department of Industrial Education.

****MATHEMATICS 139: PROBLEMS IN ARITHMETIC**

4 semester hours

The student will participate in an examination of the operations of arithmetic, leading to a study of various algorithms and forms of numeration. Computing devices such as the abacus, Napier's bones, Papy mini-computer, and slide rule will be introduced as tools for computation. Problems solving in elementary number theory will also be included.

This course is especially designed for students not majoring in mathematics. Students may not receive credit for both Mathematics 139 and 142.

****MATHEMATICS 140: PROBLEMS IN ELEMENTARY PROBABILITY**

4 semester hours

The student will play an active role in solving and analyzing different probability problems. Included in the analysis will be the construction and interpretation of various probability models. Counting problems, sample spaces, probability axioms and distributions will be introduced and used as needed.

Mathematics 140 is especially designed for students not majoring in mathematics. Students may not receive credit for both Mathematics 140 and 142.

***MATHEMATICS 141: FUNDAMENTALS OF MATHEMATICS**

3 semester hours

This course surveys some of the fundamental concepts of modern mathematics. Topics included are sets and logic, axiom systems in geometry and algebra, and modular arithmetic, with other topics at the discretion of the instructor.

Mathematics 141-142 has been chosen by the Department of Elementary Education as best fulfilling the needs in mathematics of the elementary education curriculum.

***MATHEMATICS 142: MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS**

3 semester hours

This course covers topics relevant to the prospective elementary school teacher such as

numeration, algorithms, geometry, and number theory, with a concentration on the development of the various number systems. Counting techniques and elementary problem-solving of the various number systems. Manipulative ability are used as problem areas for application of the number systems. Manipulative materials are introduced to enhance understanding of the topics. The emphasis of the course is on an intuitive approach leading to formalization and generalization.

This course is on an intuitive approach leading to the Department of Elementary Education as Mathematics 141-142 has been chosen by the Department of elementary education curriculum. Students best fulfilling the needs in mathematics of the elementary education curriculum. Students may not receive credit for Mathematics 142 in addition to either Mathematics 139 or 140.

Prerequisite: Math. 141 or consent of department chairman.

4 semester hours

***MATHEMATICS 177: LINEAR SYSTEMS**

An introduction to linear systems, this course includes sets of linear algebraic equations, matrix operations and the simplex and other methods of solving linear maxima and minima problems. Models appropriate to various disciplines are formulated and analyzed. Applications to management and economics are stressed throughout.

Prerequisite: three years of high school mathematics or permission of department chairman.

****MATHEMATICS 181-182: APPLIED BASIC MATHEMATICS**

(8) 6 semester hours

This course is taught by a laboratory approach and includes topics from college algebra and trigonometry with special emphasis on topics needed in science courses and on applications to scientific situations. Not open for credit for those who also receive credit in Mathematics 209.

Prerequisite: consent of the department chairman.

MATHEMATICS 209: PRE-CALCULUS MATHEMATICS

4 semester hours

This course includes the study of logic, sets, the complex and real number systems, algebraic and non-algebraic functions and trigonometry. It is designed primarily for students intending to do further work in mathematics or the sciences.

Prerequisite: three units of college-preparatory mathematics or Math. 142 or consent of department chairman.

MATHEMATICS 212: CALCULUS AND ANALYTIC GEOMETRY I

4 semester hours

Study is made of the analytical geometry of the straight line and the circle, and the fundamental concepts and applications of the differential and integral calculus. Derivatives of algebraic and trigonometric functions are treated.

Prerequisite: Math. 182 or 209.

***MATHEMATICS 216: PROGRAMMING FOR DIGITAL COMPUTERS**

4 semester hours

A study is made of the principles and methods of programming digital computers with an emphasis on communication via remote terminals using BASIC and a batch processing language to handle larger scale applications. Logic processes necessary to program general applications in various disciplines outside of mathematics will be developed.

Prerequisite: three units of college-preparatory mathematics or one college mathematics course or consent of department chairman.

***MATHEMATICS 240: STATISTICAL METHODS**

3 semester hours

An introduction to basic statistics, the course includes measures of central tendency and variability, probability and distributions, estimation and tests of significance, regression and correlation. In addition to enabling the student to operate a desk calculator, the laboratory will allow time to study in more detail topics and problems related to the lectures.

Prerequisite: three units of college-preparatory mathematics or one college mathematics course or consent of department chairman.

***MATHEMATICS 245: COMPUTER-ASSISTED STATISTICS I**

4 semester hours

This course includes basic statistical concepts and techniques such as measures of central

tendency and variation; the binomial, normal, and other distributions; basic probability; statistical tests and confidence intervals for the mean, variance, correlation coefficients, contingency tables. Methods of exploring data, the role of assumptions in data analysis and the forms of statistical models will also be discussed. The computer will be used throughout this course for solution of problems with extensive data. Not open for credit for those who also receive credit for Mathematics 240.

Prerequisite: Math 216.

***MATHEMATICS 246: COMPUTER-ASSISTED STATISTICS II** 4 semester hours
This course is a continuation of *Computer-Assisted Statistics I* and includes detailed discussion of statistical techniques such as: analysis of variance in one-way and two-way classifications; factorial experiments; Latin squares; multiple regression. Case studies from diverse fields will be discussed to illustrate realistic data analysis in the research context. The computer will be used throughout this course.

Prerequisite: Math 245 or consent of department chairman.

MATHEMATICS 247: CALCULUS: A SHORT COURSE 4 semester hours
A study is made of differential and integral calculus with emphasis on functions of one variable. Topics include differentiation and integration of algebraic, logarithmic and exponential functions and an introduction to partial differentiation. This is intended to be a terminal course in calculus; those intending more than one semester work in calculus should begin with Mathematics 212. Students may not receive credit for both Mathematics 212 and 247.

Prerequisite: Math 177, 182 or 209.

MATHEMATICS 248: DECISION MAKING WITH PROBABILITY 4 semester hours
This course emphasizes probability and its application to decision making under uncertainty. Topics include probability distributions and expected values. Bayes' theorem and decision theory with discussion of criteria and strategies such as quality control models, inventory models and queuing theory. Applications to management and economics are stressed throughout.

Prerequisite: Math 247 or permission of department chairman.

***MATHEMATICS 309: MATHEMATICAL PROBLEM ANALYSIS** 3 semester hours
Designed for teachers of mathematics, this course emphasizes the concepts involved in choosing a mathematical model in which to set up the problem and on the actual setting up of the problem. The level of difficulty of the problems and their analysis will reach beyond that of secondary mathematics, to provide a broad base for the teaching of problem analysis as well as giving the student confidence in his own ability to handle problems. Designed for the undergraduate teaching concentration in mathematics and for junior high and elementary level graduate programs.

Prerequisite: Math 212.

MATHEMATICS 313: CALCULUS AND ANALYTIC GEOMETRY II 4 semester hours
A continuation of Mathematics 212, this course treats the analytical geometry of the conic sections, differentiation of transcendental functions and more advanced methods of integration.

Prerequisite: Math 212.

MATHEMATICS 314: CALCULUS AND ANALYTIC GEOMETRY III 4 semester hours
This continuation of Mathematics 313 covers solid analytic geometry, partial differentiation, multiple integration, series and elementary vector analysis.

Prerequisite: Math 313.

MATHEMATICS 315: LINEAR ALGEBRA 3 semester hours

This course includes topics selected from matrices, linear systems, vector spaces, vector geometry, linear transformations, linear programming and game theory.

Prerequisite: Math 313.

MATHEMATICS 316: ORDINARY DIFFERENTIAL EQUATIONS 3 semester hours
A study is made of the theory and methods of solving differential equations of the first and second orders, with particular emphasis on the linear constant-coefficient type. Applications to geometry, physics and chemistry are included.

Prerequisite: Math 314, *preceding or concurrent.*

MATHEMATICS 317: INTRODUCTION TO NUMERICAL ANALYSIS 3 semester hours

This course develops algorithms which approximate solutions to problems in various areas in mathematics. Topics include numerical solutions for: roots of polynomials, systems of linear equations, differentiation and integration, and differential equations. The computer will be utilized to facilitate computations.

Prerequisite: Math 216 and 313.

MATHEMATICS 324: FOUNDATIONS OF GEOMETRY 3 semester hours
Included in this course is study of axiomatics, including consistency, independence and completeness of axiom systems. On this basis, finite geometries and presentations of Euclidean geometries are examined. The course also includes a synthetic development of hyperbolic geometry.

Prerequisite: Math 209.

***MATHEMATICS 330: NUMBER THEORY FOR THE ELEMENTARY TEACHER** 3 semester hours
This course is intended primarily to introduce students in the elementary education teaching concentration in mathematics to rigorous proof, using number theory as a model. The major topics covered are mathematical induction, divisibility, prime numbers, congruences and Diophantine equations.

This course does not count in either the mathematics major or the mathematics minor. Credit cannot be received for both Mathematics 330 and 331.

Prerequisite: Math 209 or consent of department chairman.

MATHEMATICS 331: NUMBER THEORY 3 semester hours
A study is made of number systems, divisibility, primes and factorization, Diophantine problems, congruences and Wilson's, Euler's and Fermat's theorems. Credit cannot be received for both Mathematics 330 and 331.

Prerequisite: Math 212.

MATHEMATICS 333: INTRODUCTION TO ABSTRACT ALGEBRA 3 semester hours
A study is made of the theoretical properties of groups, rings, fields, polynomials and sets. Properties of familiar number systems are exhibited as special cases of more general and abstract systems.

Prerequisite: Math 315.

MATHEMATICS 341: INTRODUCTION TO PROBABILITY 3 semester hours
This course includes the development of both discrete and continuous probability theory as well as discussion of mathematical expectation and moments. It provides the basis for comprehensive discussion of statistical theory and techniques in mathematical statistics.

Prerequisite: Math 313.

MATHEMATICS 380: TOPICS IN MATHEMATICS

This course examines topics in a particular area of mathematics. A student may repeat this course with a change in content.

3 semester hours

Prerequisite: consent of department chairman.

MATHEMATICS 388: HISTORY OF MATHEMATICS

This is a history of mathematical thought and a study of the development of mathematics through the present. Taught as a seminar at the discretion of the instructor, the course is intended for seniors.

3 semester hours

Prerequisite: Math. 314 or 333 or consent of the department chairman.

MATHEMATICS 411: ADVANCED CALCULUS

A continuation of the calculus sequence, this course includes a further discussion of improper integrals, evaluation of special functions defined by integrals, line and surface integrals, Green's Theorem, transformations and the Jacobian, and various topics in the calculus of functions of two or more variables. Fourier series may be included.

3 semester hours

Prerequisite: Math. 314.

MATHEMATICS 412: FOUNDATIONS OF HIGHER ANALYSIS

Presented here is a rigorous development of fundamental concepts in analysis. Topics include limits, continuity and uniform continuity, differentiation, the Riemann integral, sequences and series and convergence criteria.

3 semester hours

Prerequisite: Math. 314.

MATHEMATICS 415: INTRODUCTION TO COMPLEX VARIABLES

The course starts with the basic concept of a complex variable and the corresponding laws of algebra which apply. Functions of a complex variable such as the trigonometric, the exponential and the logarithmic function are investigated. Differentiation and integration of complex functions, conformal mapping and other related topics are discussed together with the underlying theory.

3 semester hours

Prerequisite: Math. 314, preceding or concurrent.

MATHEMATICS 419: SET THEORY

The foundations of set theory and logic are studied in the context of their application in the construction of number systems, from the natural numbers through the reals.

3 semester hours

Prerequisite: Math. 314, 333 or consent of department chairman.

MATHEMATICS 426: PROJECTIVE GEOMETRY

A study is made of the general projective transformation using the algebra of matrices and homogeneous coordinates applied to collineations and correlations and developing the theory of conics. Invariant properties of various subgroups of the general projective transformation group are investigated.

3 semester hours

Prerequisite: Math. 314.

MATHEMATICS 428: TOPOLOGY

A study is made of sets and sequences, various topological spaces, including metric, compactness, connectedness, curves and mappings.

3 semester hours

Prerequisite: Math. 314.

MATHEMATICS 433: ALGEBRAIC STRUCTURES

A study is made of selected topics in the development of groups, rings, modules and fields. Topics will include homomorphisms, permutation groups, normal series, solvable groups, basic Galois Theory, ring extension problems and ideals.

3 semester hours

Prerequisite: Math. 315 and 333.

MATHEMATICS 441: MATHEMATICAL STATISTICS

A continuation of Mathematics 341, this course includes discussion of sampling distributions, theory and techniques of estimation and hypothesis testing, regression and correlation.

3 semester hours

Prerequisite: Math. 341.

MATHEMATICS 490: INDIVIDUAL STUDY IN MATHEMATICS

The course consists of independent study under the guidance of a member of the mathematics faculty. The area of study is selected on the basis of the interests of the student and instructor. This is open only to students who have demonstrated superior ability and initiative in previous mathematics courses. It may be repeated once, with change of content, for credit.

3 semester hours

Prerequisite: consent of the department chairman.

MATHEMATICS 516: THEORY OF FUNCTIONS OF REAL VARIABLES

A continuation of Mathematics 412, the course topics include sequences of functions, functions of several variables and an introduction to Lebesgue measure.

3 semester hours

Prerequisite: Math. 412.

MATHEMATICS 518: THEORY OF FUNCTIONS OF COMPLEX VARIABLES

This course is a continuation of Mathematics 415 in the development of the theory underlying functions of complex variables, including Taylor and Laurent series, and analytic continuation.

3 semester hours

Prerequisite: Math. 412 and 415.

MATHEMATICS 519: MEASURE THEORY

The general theory of measure for sets is covered by this course. It includes a study of additive set functions, outer measure (regular or metric), and provides for specific examples such as the Lebesgue-Stieltjes measure.

3 semester hours

Prerequisite: Math. 516.

MATHEMATICS 531: ADVANCED NUMBER THEORY

The course is an extension of elementary number theory, involving solutions of problems requiring application of algebraic or analytic theories.

3 semester hours

Prerequisite: Math. 331.

MATHEMATICS 533: TOPICS IN ALGEBRA

In this course a particular branch of algebra will be examined in depth. The topic studied will be designated each time the course is given. Possible topics would include group theory, ring theory, field theory, semi group theory, homological algebra, automata theory and others.

3 semester hours

A student may repeat this course with a change in content.

Prerequisite: Math. 433, or consent of department chairman.

MATHEMATICS 541: PROBABILITY

The theoretical foundations of probability are developed in this course. Topics include discussion of cumulative distribution functions, mathematical expectations, characteristic functions, derived distributions and limit theorems.

3 semester hours

Prerequisite: Math. 341, 419 or consent of department chairman.

MATHEMATICS 550: TOPICS IN MATHEMATICS

This course examines topics in a particular area of advanced mathematics. A student may repeat this course with a change of content. Topics are to be designated each time the course is offered.

3 semester hours

Prerequisite: consent of the graduate adviser or department chairman.

MODERN LANGUAGES AND LITERATURE

(Department of Modern Languages)

These courses are unrestricted arts and sciences courses.

MODERN LANGUAGES 380: WORKSHOP IN MODERN LANGUAGES AND LITERATURE

The Department of Modern Languages offers the opportunity to pursue studies of language and literature in their cultural contexts. Credit may vary according to the nature and duration of the workshop.

MODERN LANGUAGES 390: DIRECTED STUDIES IN MODERN LANGUAGES AND LITERATURE

The department makes available directed studies in specific modern languages for students who wish to develop a study proposal which utilizes two or more languages. Interested students should consult the chairman of the department to present a specific proposal and to make necessary arrangements.

DEPARTMENT OF MUSIC

The restricted arts and sciences courses in this department are 101, 102, 103, 105, 107, 108, 181-186, 191, 265, 270-288 and 370-388. All of the other courses listed below are unrestricted arts and sciences courses.

MUSIC 101: CLASS PIANO

The course content of Class Piano will presuppose the knowledge and ability of the keyboard technique of Music Theory I and II and will proceed from there to include the following: developing of further keyboard manipulative skills; improvising of accompaniments in various styles; sight reading of the simpler examples of piano literature as found in the graded series and individual work.

Prerequisite: Music 210, 211 or permission of instructor.

MUSIC 102: CLASS PIANO II

The content of this course will include keyboard harmony using secondary as well as primary triads, further improvisations of accompaniments in various styles, transposition, and the sight reading and playing of simpler examples of piano literature of the four major periods of keyboard music.

Prerequisite: Music 101 or permission of the instructor.

MUSIC 103: CLASS STRINGS

A course in the basic technique of the orchestral strings. Pedagogy and a knowledge of basic materials are also considered.

MUSIC 105: CLASS WOODWINDS, BRASS AND PERCUSSION

A course in the basic techniques of the instruments of the standard concert band. Pedagogy and a knowledge of basic materials are also considered.

MUSIC 107: CLASS VOICE

This is a course in basic vocal pedagogy designed for the student who is preparing for a career in teaching. Basic vocal production, diction, interpretation, technique and standard repertoire will be included in the course of study. Emphasis will also be placed on the student's ability to sight-sing and to sing the parts from assigned scores.

MUSIC 108: FUNDAMENTALS OF CONDUCTING

The main purpose of this course will be to establish a sound, practical conducting technique. Both instrumental and choral techniques will be examined and opportunities will be provided for students to conduct ensembles comprised of students enrolled in the class. At least one major composition will be studied via score and recordings each semester with emphasis on interpretation and technique. Rehearsal techniques will also be a vital part of the course.

MUSIC 181: CHORUS

The chorus chooses its repertory from the major choral literature of Western music as well as from the popular and folk categories. Open to all qualified students. Credit available to all qualified students who participate for the full academic year.

MUSIC 182: SYMPHONIC BAND

Twentieth-century works for wind ensemble and concert band, as well as the standard literature—original and transcribed—of earlier periods are performed. Open to all qualified students. Credit available to all qualified students who participate for the full academic year.

MUSIC 183: ORCHESTRA

A symphony orchestra with full instrumentation which performs the standard literature. Open to all qualified students. Credit available to all qualified students who participate for the full academic year.

MUSIC 184: CHAMBER MUSIC ENSEMBLE

A one-semester course in the study of instrumental and vocal chamber music consisting of duos, trios, quartets and other small ensembles, this course may be elected to fulfill one of the eight required hours of applied music credit, such substitution not being allowed for two semesters immediately preceding the senior recital. It may also be repeated for elective credit. Since balanced groups are necessary, this course may be taken only with the permission of the instructor.

MUSIC 185: JAZZ ENSEMBLE

The jazz ensemble performs works of various periods of jazz and popular music. Credit is available to all qualified students who participate for the full academic year. Since a balanced ensemble is necessary, this course may be taken only with the permission of the instructor.

MUSIC 186: CHAMBER SINGERS

The chamber singers ensemble performs works from the Middle Ages to the 20th century expressly written for the smaller choral ensemble. It is the touring, choral ensemble and represents the college at various functions throughout the year. Credit is available by qualified students who participate for the full academic year. This course is available by audition only and only to persons who are members of the college chorus.

MUSIC 191: PERFORMANCE CLASS

This course is required of all students taking Applied Music (Music 270-288 and Music 370-388) at the undergraduate level. Eight semesters of a grade of satisfactory in Music 191 is required for completion of the B.S. degree in music performance. Seven semesters of a grade of satisfactory in Music 191 is required for completion of the B.S. degree in music education. A grade of satisfactory in Music 191 is required for students in the B.M. in applied music for completion of the B.A. degree in music education program are required to attain applied performance program and B.S. in music education program are required to attain a grade of satisfactory in Music 191 for each semester of study of applied music for the semester of student teaching in the B.S. program.

MUSIC 201: SURVEY OF MUSIC

This course serves as a general introduction which should stimulate the student to a greater understanding, both intellectual and emotional of music as a facet of man's experience. A special effort is made to broaden the student's awareness of the many musical styles that we inherit and to perceive their basic similarities and differences. The development of nomenclature is also regarded as fundamental to the student's readiness to enter the world of educated adulthood.

MUSIC 203: ELEMENTARY MUSIC THEORY

Fundamentals of scale construction, intervals, syllables, clefs, rhythms and form are studied with stress placed on musical acuteness through ear-training, sight-singing and dictation.

(4) 1 semester hour

(4) 1 semester hour

1 semester hour

1 semester hour

1 semester hour

1 semester hour

(1) 0 semester hours

3 semester hours

3 semester hours

MUSIC 210: LITERATURE AND MATERIALS OF MUSIC I (5) 4 semester hours

The elements of music are surveyed through the styles of all periods, emphasizing principles of organization. A chronological survey of Western music extending into the Renaissance explores these elements through aural and visual analysis. Correlated is the development of written skills involving basic melody writing, melodic elaboration within smaller forms and species counterpoint in two and three parts extending to the function of primary triads in all major and minor keys. Sight-singing, conducting, keyboard and dictation skills are further related to the written theory. Written exercises are scored for instrumental and vocal performances by the class.

MUSIC 211: LITERATURE AND MATERIALS OF MUSIC II (5) 4 semester hours

The chronological survey of the stylistic and structural elements of music is extended into the Baroque era. The growth of Baroque polyphony from structural species counterpoint is studied in its smaller forms. Correlated skills are developed along the lines established in Music 210.

Prerequisite: Music 210.

MUSIC 212: LITERATURE AND MATERIALS OF MUSIC III (5) 4 semester hours

This course will include the study of music of the 18th and 19th centuries by means of aural and visual analysis. Emphasis will be on the study of the harmonic practices and the formal procedures found in the literature of these periods. Listening and writing skills will be stressed. There will also be a continuation of the development of skills in sight-singing, ear-training and keyboard harmony.

Prerequisite: Music 211.

MUSIC 213: LITERATURE AND MATERIALS OF MUSIC IV (5) 4 semester hours

This course will include the study of music of the late Romantic through Modern periods with major emphasis on the compositional practices of 20th century composers. The development of skills in sight-singing, ear-training and keyboard harmony will be continued.

Prerequisite: Music 212.

MUSIC 214: THE SYMPHONY

Representative works from the standard repertory of the 18th and 19th centuries are analyzed, covering major composers from Haydn to Mahler. The development of the symphony in the mid-18th century and its decline in the 20th are also studied. Open to all students.

MUSIC 222: OPERA

The course is a survey of opera from the 17th century to the present, encompassing factors contributing to the changing styles in opera, the particular contributions of composers, the librettos and the music of the most significant operas of the past and present. Open to all students.

MUSIC 268: FOLK GUITAR

This course provides group study in the basic techniques for the use of the guitar in accompanying songs in the elementary school situation. Right-hand accompaniment techniques, chords with special reference to their "family" groupings and bass runs will be studied. Special emphasis will be placed on children's folk materials.

Prerequisite: Ed. 341, Music 203, 210 or permission of instructor.

MUSIC 270-288: APPLIED MUSIC

This course provides advanced private study in voice or any one of the instruments listed below. Music education majors study in the same area for seven semesters and are expected to perform a major public recital under departmental advisement during the senior year. Exceptions will be handled individually by the department. Performance in a student recital series is required once each year.

Music 270 Violin
271 Viola
272 Cello
273 String Bass
274 Voice
275 Clarinet-Saxophone
276 Flute
277 Oboe-English Horn
278 Bassoon

Music 279 Trumpet
280 French Horn
281 Trombone-Baritone
282 Tuba
283 Organ
284 Piano-Harpischild
285 Classic Guitar
286 Percussion
287 Accordion
288 Harp

Students registering for Music 270-288: Applied Music also register for Music 191: Performance Class.

MUSIC 302: TWENTIETH-CENTURY MUSIC

The music of Western civilization since 1900 is studied, with emphasis on major contemporary developments as seen in the music of Schoenberg, Bartok, Stravinsky, Webern, Berg and Hindemith. Also studied are impressionism, post-romanticism and recent stylistic trends.

Prerequisite: Music 201.

MUSIC 303: AMERICAN POPULAR MUSIC

The growth of popular music in the United States is studied in an historical background which brings together the musical, social and cultural origins that have influenced the development of America's unique musical tradition.

Prerequisite: Music 211 or permission of instructor.

MUSIC 305: FORM AND ANALYSIS

This course is designed to study in detail the design and style of musical structure. Small and large forms covered include binary, ternary design, song-form, variations, rondo, sonata form, as well as various hybrid forms.

Prerequisite: Music 211 or consent of instructor.

MUSIC 306: SIXTEENTH-CENTURY COUNTERPOINT

A detailed study is made of the 16th century strict-species counterpoint in two or three parts, including the techniques of double counterpoint, canon, crab canon and invention. Extensive writing and special projects are included.

Prerequisite: Music 211; open to others by permission only.

MUSIC 307: COMPOSITION

This course consists of a study of creative musical techniques of composition in the smaller forms. Extensive experience in form and analysis and a culminating composition are also included.

Prerequisite: Music 211, 305 or 306; open to others by permission only.

MUSIC 309: MUSIC OF THE BAROQUE

A study of European music literature from the last decade of the 16th century to the mid-18th century. Emphasis is placed on the late baroque — the music of Handel and J. S. Bach — but the development of various styles and media, the national schools and other important composers are also stressed.

Prerequisite: Music 201 or 211.

MUSIC 311: MEDIEVAL AND RENAISSANCE MUSIC

This is an historical and critical study of the development of the musical arts from ancient beginnings through the Middle Ages and the Renaissance. Plainchant, polyphony, sacred and secular music and problems in early notation are examined within the changing socio-aesthetic patterns.

Prerequisite: Music 201 or 211.

MUSIC 313: MUSIC OF THE CLASSIC ERA

This course is a study of the history and literature of music from the mid-18th century to about 1825, including precedents in the Rococo period. Representative works, chiefly of Mozart, Haydn and Beethoven will be analyzed.

Prerequisite: Music 201 or 211.

MUSIC 314: MUSIC OF THE ROMANTIC PERIOD

Musical history and literature during the 19th century, including the late romantic composers, are studied. Representative works in various forms are analyzed in detail.

Prerequisite: Music 201 or 211.

MUSIC 321: ORCHESTRATION

The course is a detailed study of the range, tonal quality and characteristics of the various orchestral and band instruments. Problems and projects in scoring for various ensembles are included.

Prerequisite: Music 211; open to others by permission only.

MUSIC 322: EIGHTEENTH-CENTURY COUNTERPOINT

The study of counterpoint is continued to include 18th century styles in canon, fugue, invention and passacaglia. Extensive writing and special projects are included.

Prerequisite: Music 211 and 306; open to others by permission only.

MUSIC 360: SEMINAR IN MUSIC LITERATURE

The seminar concentrates on a selective topic, announced in advance, and offers intensive study of a major composer or of the 19th century historical development. Knowledge of research techniques is also emphasized.

Prerequisite: Music 201, 210, 222 or the permission of instructor.

MUSIC 365: LANGUAGE ORIENTATION

This is a course in the diction of the French, German and Italian languages as applied to standard vocal repertoire.

Prerequisite: permission of the instructor.

MUSIC 366: ACCOMPANYING

This course is designed to provide pianists and organists the opportunity, experience and training in accompanying instrumental and vocal soloists in the performance of their repertoire. Each student will be given a specific number of accompanying assignments in a variety of musical styles and applied areas. This course may be repeated for credit toward the degree program and for elective credit.

MUSIC 370-388: APPLIED MUSIC

This course provides advanced private study in voice or any one of the instruments listed below. Only music performance majors may enroll in these courses. Music performance majors study in the same area for eight semesters and are expected to perform a major public recital under departmental advisement during each of the junior and senior years. Exceptions will be handled individually by the department. Performance in a student recital series is required once each year.

Music 370 Violin

371 Viola

372 Cello

373 String Bass

374 Voice

375 Clarinet-Saxophone

376 Flute

377 Oboe-English Horn

378 Bassoon

Music 379 Trumpet

380 French Horn

381 Trombone-Baritone

382 Tuba

383 Organ

384 Piano-Harpsichord

385 Classic Guitar

386 Percussion

387 Accordion

388 Harp

3 semester hours

3 semester hours

3 semester hours

3 semester hours

3 semester hours

(3) 2 semester hours

4 semester hours

Students registering for Music 370-388: Applied Music, also register for Music 191: Performance Class.

MUSIC 390: INDEPENDENT STUDY

The student with the guidance of a faculty adviser, selects and thoroughly investigates a specialized topic.

Prerequisite: permission of department chairman.

MUSIC 391: SENIOR RECITAL

The student with the guidance of his applied instructor selects and performs a public program which represents the appropriate stylistic periods of the available literature and demonstrates levels of proficiency in the selected areas.

Prerequisite: satisfactory completion of a junior recital or permission of department chairman.

MUSIC 421: THE SYMPHONY

The history of the symphony with emphasis on its continuous stylistic and formal development. Analytical procedures will be stressed, and the student will investigate individual symphonies.

Prerequisite: Music 213.

MUSIC 422: OPERA

The opera from Monteverdi to the present with approximately equal emphasis on each century involved. Analytical procedures will be stressed, and the student will investigate individual works.

Prerequisite: Music 213.

MUSIC 456: TWENTIETH-CENTURY THEORY

A one-semester study of the theoretical and compositional techniques of 20th century composers.

Prerequisite: Music 213 or consent of instructor.

MUSIC 460: MUSIC THEORY SEMINAR

The seminar focuses on advanced topics in the theory and composition of music through writing, analysis, ear training and individual projects. This course is limited to music education students and to others with sufficient background.

Prerequisite: Music 212 and permission of instructor.

MUSIC 461: SEMINAR IN MUSIC PERFORMANCE

Participants will study and perform masterpieces from the solo and chamber literature of their instrument. Historical background, including proper performance practice, and pedagogical considerations are included.

Prerequisite: permission of department chairman.

MUSIC 470-474: SECONDARY INSTRUMENTS

This course provides group study in the categories listed below. The courses are designed to accommodate the study of a secondary instrument beyond the levels of Music 103, 105 or 109. Students are normally expected to study one instrument in a particular category.

Prerequisite as follows:

Music 470: Secondary Strings; *Prerequisite:* Music 103 or permission of department chairman.

Music 471: Secondary Brass; *prerequisite:* Music 103 or permission of department chairman.

Music 472: Secondary Woodwinds; *Prerequisite:* Music 105 or permission of department chairman.

Music 473: Secondary Percussion; *Prerequisite:* Music 105 or permission of department chairman.

Music 474: Secondary Voice; *Prerequisite:* Music 109 or permission of department chairman.

3 semester hours

0 semester hours

3 semester hours

3 semester hours

3 semester hours

3 semester hours

3 semester hours

1 semester hour

MUSIC 301: RESEARCH TECHNIQUES IN MUSIC

3 semester hours

In this course the techniques of research in music and music education will be investigated and applied. Bibliography will be explored and standard sources used.

Prerequisite: consent of instructor.

MUSIC 311: CHORUS

(1 semester hour for full academic year)

The chorus chooses its repertory from the major choral literature of Western music as well as from the popular and folk categories. Open to all qualified students. Credit available to all qualified students who participate for the full academic year.

MUSIC 312: SYMPHONIC BAND

(1 semester hour for full academic year)

Twentieth century works for wind ensemble and concert band, as well as the standard literature — original and transcribed — of earlier periods are performed. Open to all qualified students. Credit available to all qualified students who participate for the full academic year.

MUSIC 313: ORCHESTRA

(1 semester hour for full academic year)

A symphony orchestra with full instrumentation which performs the standard literature. Open to all qualified students. Credit available to all qualified students who participate for the full academic year.

MUSIC 314: CHAMBER MUSIC ENSEMBLE

1 semester hour

A one semester course in the study of instrumental and vocal chamber music consisting of duos, trios, quartets and other small ensembles.

Prerequisite: permission of instructor.

MUSIC 315: JAZZ ensemble

1 semester hour

The jazz ensemble performs works of various periods of jazz and popular music. Credit is available to all qualified students who participate for the full academic year. Since a balanced ensemble is necessary, this course may be taken only with the permission of the instructor.

MUSIC 316: CHAMBER SINGERS

1 semester hour

The chamber singers ensemble performs works from the Middle Ages to the 20th century expressly written for the smaller choral ensemble. It is the touring choral ensemble and represents the college at various functions throughout the year. Credit is available to all qualified students who participate for the full academic year. This course is available by audition only and only to persons who are members of the college chorus.

MUSIC 360: SEMINAR IN MUSIC LITERATURE

3 semester hours

The seminar concentrates on a selected topic, announced in advance, and offers intensive study of a major composer or of an important historical development. Knowledge of research techniques is also emphasized.

Prerequisite: consent of instructor.

MUSIC 370-386: APPLIED MUSIC

2 semester hours

Private study for graduate music students on any of the instruments listed below.

MUSIC 370 Violin	MUSIC 380 French Horn
371 Viola	381 Trombone-Baritone
372 Cello	382 Tuba
373 String Bass	383 Organ
374 Voice	384 Piano-Harpischord
375 Clarinet-Saxophone	385 Guitar
376 Flute	386 Percussion
377 Oboe-English Horn	387 Accordion
378 Bassoon	388 Harp
379 Trumpet	

Prerequisite: audition and consent of chairman.

MUSIC 390: INDEPENDENT STUDY

The student with the guidance of a faculty adviser selects and thoroughly investigates a specialized topic.

Prerequisite: consent of instructor.

DEPARTMENT OF NURSING
(For Nursing Majors Only)

All of the courses offered by this department are restricted arts and sciences courses.

NURSING 201: CONCEPTS BASIC TO NURSING

6 semester hours

This course introduces students to basic concepts in nursing applicable to all age groups in all health settings, including philosophy, nursing process, interpersonal relationships and health promotion. Anatomical equipment and a weekly learning laboratory experience provide opportunity to develop basic nursing skills.

Prerequisite: acceptance into nursing department.

NURSING 207: BACCALAUREATE EDUCATION FOR NURSING

4 semester hours

This course is designed for the practicing nurse who enrolls in the program to pursue a baccalaureate degree in nursing. Content includes the role of the professional nurse in contemporary and emerging health delivery systems and focuses on key concepts related to professional practice.

Prerequisite: acceptance into the college and current licensure as an R.N.

NURSING 301: CARE OF THE ADULT AND CHILD

5 semester hours

This course is designed to provide the student with basic nursing theory related to the care of children and adults. Students will learn to assess health in individuals, plan ways to maintain and restore health, and evaluate the effectiveness of nursing care in patients with problems involving the cardiovascular, renal, respiratory and genitourinary-reproductive system. Clinical learning experiences in care of adults or children will be provided. (Students must have clinical experience in both care of adults and children in Nursing 301 or 302.)

Prerequisite: Nursing 201, Psych 330 and Bio 335.

NURSING 302: CARE OF THE ADULT AND CHILD

5 semester hours

This course is designed to provide the student with basic nursing theory in caring for adults and children. Theory will focus on the endocrine, gastrointestinal, neuro-musculoskeletal and sensory systems and clinical learning experiences in care of children or adults will be provided. (Students must have clinical experiences in both care of adults and children in Nursing 301 or 302.)

Prerequisite: Nursing 201, Psych 330 and Bio 335.

NURSING 303: PSYCHIATRIC-MENTAL HEALTH NURSING

4 semester hours

This course will focus on the study of symptomatology, etiology, prevention and treatment of mental illness. Principles of dynamic psychiatry will be discussed as they apply to the development of a therapeutic nurse-patient relationship, with guided experience in the development of a therapeutic relationship. The many-faceted role of the nurse and other team members will be explored.

Prerequisite: Nursing 201, Psych 330 and Bio 335.

NURSING 304: MATERNAL AND NEWBORN CARE

4 semester hours

This course is designed to provide the student with basic nursing theory regarding the childbearing and childrearing processes. The student is provided with the opportunity to assess, plan, implement and evaluate nursing care for both expectant and expanding families.

Prerequisite: Nursing 201, Psych 330 and Bio 335.

NURSING 341: COMPLEX NURSING

5 semester hours

This course is designed to provide the student with advanced nursing theory and clinical learning relative to the care of critically ill, or traumatized persons. Students will learn the philosophy of intensive care nursing, increase their physical, physiological and psychosocial assessment skills, increase their intervention skills and plan immediate and long range goals for patients and families.

Prerequisite: Nursing 301, 302, 303 and 304.

NURSING 345: COMMUNITY HEALTH NURSING

4 semester hours

This course focuses on application of community health nursing principles incorporated in curriculum in prior and concurrent nursing courses. The role of the professional nurse in the schools and in ambulatory centers is explored and related clinical learning experiences are provided.

Prerequisite: Nursing 301, 302, 303 and 304.

NURSING 351: ADVANCED CONCEPTS IN CARE OF THE ADULT

5 semester hours

Based on concepts presented in Nursing 301 and 302, this elective course provides complex theoretical content with associated clinical learning experiences. Assessing, planning and performing dependent and independent nursing activities for individuals and families will be emphasized.

Prerequisite: Nursing 301, 302, 303 and 304.

NURSING 352: ADVANCED CONCEPTS IN CARE OF THE CHILD

5 semester hours

Based on concepts presented in Nursing 301 and 302, this elective course provides complex theoretical content with associated clinical learning experiences. Assessing, planning and performing dependent and independent activities of children requiring complex nursing care will be emphasized.

Prerequisite: Nursing 301, 302, 303 and 304.

NURSING 353: ADVANCED CONCEPTS IN CARE OF PSYCHIATRIC PATIENT

5 semester hours

An elective course providing greater depth of experience in the practice of psychiatric nursing. This course emphasizes the role of the nurse in the community mental health facility. Concepts of crisis intervention, community mental health, group work and the mental status examination will be discussed and practiced.

Prerequisite: Nursing 301, 302, 303 and 304.

NURSING 354: ADVANCED CONCEPTS IN MATERNAL INFANT CARE NURSING

5 semester hours

Building on the concepts formulated in Nursing 304, this course provides the student with an opportunity to explore complex nursing theory regarding the child-bearing/childrearing processes. Experience in planning, implementing, evaluating, and supervising comprehensive nursing care for expectant and expanding families is provided.

NURSING 355: ADVANCED CONCEPTS IN COMMUNITY HEALTH NURSING

5 semester hours

This course combines seminar and clinical learning experiences with study in greater depth and breadth diverse community health problems. Students elect the kind of setting for clinical learning experiences which serve as a focus for this in-depth study.

Prerequisite: Nursing 301, 302, 303 and 304.

NURSING 366: TRENDS IN NURSING

2 semester hours

This seminar focuses upon past and emerging trends in professional nursing. The student will have an opportunity to analyze professional literature, meet nursing leaders, discuss

issues in nursing, explore legal aspects of nursing practice, and evolve a personal philosophy of nursing.

Prerequisite: Nursing 301, 302, 303 and 304.

NURSING 390: WORKSHOP IN NURSING

Selected topics are investigated in various formats. Credits and prerequisite vary. Credits may not be applied to the nursing major credit requirement.

PHILOSOPHY

(Department of Philosophy and Foundations of Education)

All of the courses listed below are unrestricted arts and sciences courses.

*** PHILOSOPHY 200: PROBLEMS OF PHILOSOPHY**

4 semester hours

Involved in this course are an examination and evaluation of beliefs about our knowledge of the world, moral judgments, political ideals, the interpretation of history, the methods and nature of science, the existence of God, man's freedom and the problems of meaning and verification. Emphasis is placed on ways of reasoning appropriate to the justification of these beliefs.

*** PHILOSOPHY 205: INTRODUCTION TO LOGIC**

4 semester hours

The course covers principles of valid reasoning in responsible statement and argument, the detection of fallacies and inductive procedures in the sciences. Application of these principles is made in subject matter and to practical use in critical thinking.

*** PHILOSOPHY 206: ETHICS**

4 semester hours

An examination and explanation of ethical judgments is made. Clarification and analysis of ethical terms and the validity of norms of conduct from the standpoint of formalistic, intuitional, hedonistic and naturalistic ethical theories are considered.

PHILOSOPHY 230: AESTHETICS

4 semester hours

Theories of art experience, the relation of aesthetic experience to other types of experience and to other kinds of knowledge are included.

*** PHILOSOPHY 241: PHILOSOPHY OF RELIGION**

3 semester hours

This course involves an inquiry into the ontological, epistemological and axiological ramifications of religious experience.

PHILOSOPHY 250: TOPICS IN PHILOSOPHY

3 semester hours

This course provides an opportunity for students to investigate a specific issue in philosophy's history or in philosophic methodology and to interrelate this issue with others of seminal importance in the philosophic disciplines, in consonance with the introductory level of this course.

PHILOSOPHY 300: AMERICAN PHILOSOPHY

4 semester hours

This is a survey of philosophy in America from the colonial period to 1960. The classical American philosophers are the crux of the course, and some of their major works are read. The philosophers are Charles S. Peirce, William James, Josiah Royce, George Santayana, John Dewey and Alfred N. Whitehead.

PHILOSOPHY 311: KNOWLEDGE AND TRUTH

3 semester hours

This course investigates the concept of knowledge and its relationship to the world of experience. Various theories of the nature of truth are presented and analyzed. It provides an introduction to epistemology.

Prerequisite: any 200-level philosophy course.

PHILOSOPHY 320: PHILOSOPHY OF SCIENCE

4 semester hours

Induction and probability, causality and the laws of nature, as well as the nature of explanation and justification are covered.

Prerequisite: permission of instructor.

PHILOSOPHY 321: SOCIAL AND POLITICAL PHILOSOPHY 3 semester hours
This course investigates social and political theories and the philosophical issues they raise concerning the origin of society and man's nature as a "political being" and "social being."

PHILOSOPHY 350: TOPICS 3 semester hours
This course provides an opportunity for students to investigate a specific issue in philosophy's history or in philosophic methodology and to interrelate this issue with others of seminal importance in the philosophic disciplines, in consonance with the advanced level of this course.

PHILOSOPHY 351: PLATO, ARISTOTLE AND GREEK THOUGHT 4 semester hours
The origins of philosophy in Greek thought are explored. Works of philosophers such as Plato and Aristotle are read.

Prerequisite: any 200-level philosophy course.

PHILOSOPHY 355: AQUINAS, BONAVENTURE AND MEDIEVAL THOUGHT 4 semester hours
The origins of medieval thought are traced. The institutionalization of philosophic thought is analyzed. The works of Aquinas and Bonaventure are studied.

Prerequisite: any 200-level philosophy course.

PHILOSOPHY 356: SEVENTEENTH AND EIGHTEENTH CENTURY PHILOSOPHERS 4 semester hours
Works of European philosophers from René Descartes to Immanuel Kant are read.

Prerequisite: any 200-level philosophy course.

PHILOSOPHY 357: EXISTENTIALISM AND CONTEMPORARY PHILOSOPHY 4 semester hours
In addition to analysis of current existentialist, positivist, analytic and religious philosophers, some of the germinal thinkers and forces of 19th century life will be studied.

Prerequisite: any 200-level philosophy course.

PHILOSOPHY 358: HEGELIANISM AND POST-MODERN PHILOSOPHY 3 semester hours
This course is devoted to the investigation of the issues and the methodologies of Hegel and the philosophers who followed Hegel in the transformation of traditional Western philosophy in the late 18th and 19th centuries.

Prerequisite: any 200-level philosophy course.

PHILOSOPHY 359: PHILOSOPHICAL ANALYSIS AND CONTEMPORARY LOGIC 3 semester hours
This course concentrates on modern deductive and inductive logic. These topics are studied in relation to the schools of linguistic analysis.

Prerequisite: Phil. 205. Recommended: Phil. 311.

PHILOSOPHY 363-364: SEMINAR IN PHILOSOPHY 3 or 4 semester hours
Concepts, individual thinkers or institutional movements may be chosen to be explored intensively.

Prerequisite: permission of instructor and department chairman.

PHILOSOPHY 380: WORKSHOP IN PHILOSOPHY
Selected processes are investigated in various formats. Credits and prerequisite vary.

PHILOSOPHY 391-394: INDEPENDENT STUDY 1-4 semester hours
The student, working with a faculty adviser, selects a topic for study and researches the topic in depth.

Prerequisite: permission of instructor and department chairman.

PHYSICAL EDUCATION

(Department of Health and Physical Education)

The unrestricted arts and sciences courses in this department are Physical Education 243, 311 and 116. None of the other courses listed below are arts and sciences courses.

PHYSICAL EDUCATION 101-130: BEGINNING ACTIVITY (4) 2 semester hours
The focus of purpose is upon the development of skill to an intermediate level. Students will analyze basic techniques and study rules which are essential to participation.

101 Archery	118 Lacrosse (women)
102 Badminton	119 Lacrosse (men)
103 Basketball (women)	120 Sailing
104 Basketball (men)	121 Skiing
105 Bowling	122 Softball (women)
110 Fencing	123 Softball (men)
111 Field Hockey (women)	124 Swimming
112 Golf	125 Tennis
113 Gymnastics	126 Track & Field (women)
114 Handball (men)	127 Track & Field (men)
115 Ice Hockey (men)	128 Volleyball
116 Judo	129 Weight Training (men)
117 Karate	130 Wrestling (men)

PHYSICAL EDUCATION 200: FUNDAMENTAL CONCEPTS OF MOTOR PERFORMANCE

(3) 2 semester hours
An introduction is given to the basic psychological, sociological and biological principles underlying the development of effective movement patterns. Concepts are applied through performance of sports and rhythmic activities. Health concepts which affect capacity for participation are also considered.

One hour lecture; two hours laboratory.

PHYSICAL EDUCATION 202-231: INTERMEDIATE AND ADVANCED ACTIVITY

(5) 3 semester hours
Students beyond the beginner level pursue further skill development. Details of individual motor patterns and advanced strategy are analyzed. Students also develop proficiency as judges, officials, critics or choreographers.

Prerequisite: beginning activity course or permission of instructor.

202 Badminton	216 Judo	225 Tennis
203 Basketball (women)	217 Karate	226 Track & Field (women)
204 Basketball (men)	218 Lacrosse (women)	227 Track & Field (men)
210 Fencing	219 Lacrosse (men)	228 Volleyball
211 Field Hockey (women)	221 Skiing	229 Weight Training (men)
212 Golf	222 Softball (women)	230 Wrestling (men)
213 Gymnastics	223 Softball (men)	231 Water Safety Instructor
215 Ice Hockey (men)	224 Senior Life Saving	

PHYSICAL EDUCATION 240: BASIC SKILLS IN GROUP ACTIVITIES

(4) 2 semester hours
The focus of this course is upon the development of fundamental skill competencies essential to selected group activities.

Four hours laboratory.

PHYSICAL EDUCATION 241: BASIC SKILLS IN INDIVIDUAL, DUAL, AND RHYTHMIC ACTIVITIES

(4) 2 semester hours
The focus of this course is upon the development of fundamental skill competencies essential to selected individual, dual and rhythmic activities.

Four hours laboratory.

PHYSICAL EDUCATION 242: HISTORY OF PHYSICAL EDUCATION

3 semester hours

The course is an historical analysis of physical education with emphasis on the significant contributions that have affected current elementary school physical education programs. The analysis provides the context for the study of current physical education principles and practices in the elementary school.

PHYSICAL EDUCATION 243: FOUNDATIONS OF MOVEMENT

3 semester hours

This is the initial course in the physical education major and is prerequisite to all other major courses. It is designed to encompass basic concepts of motor learning and performance. Emphasis will be placed upon the neurological basis of motor learning, and the effects of growth and developmental factors.

PHYSICAL EDUCATION 244: PRINCIPLES OF TEACHING

3 semester hours

Various techniques of activity presentation are studied, including the command, task, problem-solving and guided discovery methods. Individual philosophies of teaching are considered.

Prerequisite: Phys. Ed. 243.

PHYSICAL EDUCATION 245: GROUP ACTIVITIES FOR CHILDREN

(5) 4 semester hours

Organization and uses of group activities are studied. Provisions for coaching adolescent children in competitive team activities are discussed. Laboratory experiences are required.

Prerequisite: Phys. Ed. 243 and 244.

PHYSICAL EDUCATION 309: INDIVIDUAL AND DUAL SPORTS M/W

3 semester hours

Techniques of teaching intermediate and advanced skills and strategy as well as officiating each team sport are studied. The organization and administration of each sport is covered with reference to varsity, intramural or recreational situations.

Prerequisite: permission of instructor.

PHYSICAL EDUCATION 308: M OR W: TEAM SPORTS

3 semester hours

Techniques of teaching intermediate and advanced skills and strategy as well as officiating each team sport are studied. The organization and administration of each sport is covered with reference to varsity, intramural or recreational situations.

Prerequisite: permission of instructor.

PHYSICAL EDUCATION 309: PHYSICAL EDUCATION FOR EXCEPTIONAL CHILDREN

3 semester hours

Individual differences which affect motor learning and performance are considered. Implications for planning activity programs are studied.

Prerequisite: Spec. Ed. 300.

PHYSICAL EDUCATION 310: EVALUATION AND MEASUREMENT IN ELEMENTARY SCHOOL PHYSICAL EDUCATION

3 semester hours

This is a comparative study of the validity and administration of various tests of physical fitness, motor ability and skills. Emphasis is placed upon the use of test data in evaluating elementary school children.

Prerequisite: Phys. Ed. 243.

PHYSICAL EDUCATION 311: KINESIOLOGY

3 semester hours

Effects of physical and anatomical principles on the performance of motor patterns are

studied. Mechanical analysis of specific activities is included.

Prerequisite: Bio. 331.

PHYSICAL EDUCATION 312: ORGANIZATION AND ADMINISTRATION OF ELEMENTARY SCHOOL PHYSICAL EDUCATION

3 semester hours

This is a comparative study of physical education programs in a variety of elementary school systems. Plans are developed for systems having specialists and/or classroom teachers. Such practical matters as budgeting, facilities and personnel evaluations are considered.

Prerequisite: Phys. Ed. 245.

PHYSICAL EDUCATION 313: CREATIVE RHYTHMS FOR CHILDREN

(5) 4 semester hours

Students develop competencies in basic rhythmic motor responses and in teaching these. They have diversified experiences in rhythmic accompaniment and musical resources for children's dance. They employ a variety of teaching methods using folk and creative dance as material. Lab and teaching experiences are required.

Prerequisite: Phys. Ed. 241 and 245.

PHYSICAL EDUCATION 314: INDIVIDUAL ACTIVITIES FOR CHILDREN

(5) 4 semester hours

Students develop skills in gymnastics, tumbling, apparatus, and track and field. An understanding of individual approaches to motor tasks is developed. Laboratory experiences are required.

Prerequisite: Phys. Ed. 243 and 244.

PHYSICAL EDUCATION 316: SOCIO-PSYCHOLOGICAL ASPECTS OF MOTOR PERFORMANCE

3 semester hours

This course is designed to view motor performance as it is affected by social and cultural factors. Special emphasis will be placed on the study of motives and gratifications of the participants, spectators, coaches and game officials. Included in the course will be a survey of the current literature which considers the relationship between environment and activity interest of the population.

PHYSICAL EDUCATION 362: SENIOR SEMINAR IN PHYSICAL EDUCATION

2 semester hours

The focus of this experience is upon a research project directly related to concurrent student teaching experiences. Criteria to apply in selecting research problems for study and process for evaluating the problem statement are included.

Prerequisite: to be taken with Ed. 326.

PHYSICAL EDUCATION 390: INDEPENDENT STUDY IN PHYSICAL EDUCATION

1-3 semester hours

The student, working with a faculty adviser, selects a topic for study and researches the topic in depth.

Prerequisite: Phys. Ed. 310; upper class standing and permission of instructor, department chairman and educational studies dean.

DEPARTMENT OF PHYSICAL SCIENCES

See also courses listed under CHEMISTRY and PHYSICS.
The restricted arts and sciences courses in this department are 107 and 108. All of the other courses are unrestricted arts and sciences courses.

PHYSICAL SCIENCE 103: PHYSICAL SCIENCE

(5) 4 semester hours

This course is an introduction to the processes which control man's physical environment. The natural laws of the physical sciences which relate directly to our everyday living are selected for investigation. The course examines three major conceptual schemes:

matter, force and motion, and energy. The laboratory uses the investigative approach and the emphasis is on principle rather than precision.

One semester. Three lecture periods and one two-hour laboratory period.

• **PHYSICAL SCIENCE 104: PHYSICAL SCIENCE** (5) 4 semester hours
Basic topics in the fields of chemistry, astronomy and the earth sciences will be covered. As in Physical Science 103 the lab utilizes the investigative approach and the emphasis is on principle rather than precision.

One semester. Three lecture periods and one two-hour laboratory period.

PHYSICAL SCIENCE 107: PRINCIPLES AND PROJECTS IN PHYSICAL SCIENCE — WOOD AND METALWORKING 3 semester hours
The student will select two or more projects from an approved list, construct them and demonstrate their operation and usefulness. For this course the grade is either satisfactory or unsatisfactory.

PHYSICAL SCIENCE 108: PRINCIPLES AND PROJECTS IN PHYSICAL SCIENCE — ELECTRONICS AND GLASSBLOWING 3 semester hours
The student will select two or more projects from an approved list, construct them and demonstrate their operation and usefulness. For this course the grade is either satisfactory or unsatisfactory.

• **PHYSICAL SCIENCE 150: ENVIRONMENTAL SCIENCE PROBLEMS** 3 semester hours
This course is concerned with the application of physical science principles to the problems which man experiences with his environment. The topics included are concerned with energy, natural resources and pollution. Primary emphasis is given to developing and understanding of the physical laws which describe the environment and which also place limitations upon possible solutions to the problems. Field work and student projects are an integral part of the course.

Two one-hour lectures and one two-hour laboratory per week.
• **PHYSICAL SCIENCE 201: THE SOLID EARTH** (6) 4 semester hours
This is an introductory course in the earth sciences which deals with material from the areas of astronomy and geology. The student will be oriented with respect to the earth in space, as well as to the structural features and processes of the solid portions of this planet.

One semester. Three lecture periods and three hours of laboratory.

• **PHYSICAL SCIENCE 202: THE FLUID EARTH** 4 semester hours
This introductory environmental science course considers the gaseous and liquid regions of our planet as an integrated system. Topics from the atmospheric and marine sciences are selected which reveal the unity of the physical laws which govern their behavior and the interactions which occur between them.

One semester. Three lecture periods and three hours of laboratory.

• **PHYSICAL SCIENCE 210: INTRODUCTION TO ASTRONOMY** 3 semester hours
This course provides a description of our solar system, the sun and other stars, galaxies and the universe at an introductory level. Basic physical principles will be developed as needed to provide the scientific basis for the course.

One semester. Three lecture periods.

PHYSICAL SCIENCE 301: CONCEPTS OF EARTH SCIENCE 3 semester hours
This is an advanced treatment of selected topics which relate directly to the study of energy transformations involving physical planet Earth. The topics chosen for investigation are those which emphasize relationships among the several disciplines

included in the earth sciences, such as geology, oceanography, meteorology and astronomy.

One semester. Three lecture periods.

PHYSICAL SCIENCE 331: GENERAL OCEANOGRAPHY 3 semester hours
The course is an introductory study of the total marine environment. Among the topics considered are a description of the world's oceans, the nature of the bottom, the properties of seawater, plant and animal life in the sea, waves, tides, ocean currents, near shore processes and hydrographic regions.

One semester. Three lecture periods.

PHYSICAL SCIENCE 360: SEMINAR IN PHYSICAL SCIENCE 1-3 semester hours
The seminar is designed to provide an integrating experience in physical science based on readings, discussions and research projects.

Prerequisite: senior or graduate standing or permission of department chairman.

PHYSICAL SCIENCE 380: WORKSHOP IN PHYSICAL SCIENCE 1-3 semester hours
Selected topics are investigated in various formats.

Prerequisite: permission of instructor or department chairman.

PHYSICAL SCIENCE 391, 392, 393: PROBLEMS IN PHYSICAL SCIENCE 1-3 semester hours
The student does research in a topic selected after consultation with the instructor and prepares a report of the work. A maximum of six credits may be earned in these courses. Admission and credit are to be determined in consultation with instructor and department chairman.

PHYSICS

(Department of Physical Sciences)

All of the courses offered by this department are unrestricted arts and sciences courses.

• **PHYSICS 101-102: GENERAL PHYSICS** (12) 8 semester hours
This course is a non-calculus treatment of selected topics in physics. Specific areas included are space, time, motion, conservation laws, wave phenomenon, electricity, magnetism and modern physics.

Laboratory work is closely integrated with the lectures and is based upon selected problem-solving experiments rather than the duplication of traditional experiments.

Two semesters. Three lecture periods and one three-hour laboratory period.

PHYSICS 103-104: GENERAL PHYSICS (12) 8 semester hours
The first semester of this sequence includes the study of vectors, statics, kinematics, Newton's laws of motion, energy and momentum (rotational and linear).

The second semester includes the study of electrostatics, elementary DC and AC circuit theory, magnetism and electromagnetic waves. Calculus is used throughout the course. The laboratory offers selected experiments designed to illustrate and emphasize classroom materials.

Two semesters. Three lecture periods and one three-hour laboratory period.

Prerequisite: Math 212 completed or taken concurrently.

PHYSICS 203: OPTICS (4) 3 semester hours

The history, theory and applications of geometric, physical and quantum optics will be presented. Specific topics include wave behavior, polarization, line spectra and thermal radiation.

One semester. Two lecture periods and one two-hour laboratory period.

Prerequisite: *Physics 102 or 104, Math, 212.*

PHYSICS 300: ATOMIC AND NUCLEAR PHYSICS (6) 4 semester hours

This course is divided into two parts. The first will examine the structure of the atom and how it gives rise to electromagnetic radiation, especially optical and X-ray spectra. The second part will focus on the nucleus and discuss radioactivity, disintegration processes, fusion and fission.

One semester. Three lecture periods and one three-hour laboratory period.

Prerequisite: *Physics 102 or 104 and Math, 313 preceding or concurrent.*

PHYSICS 301: ELECTRICITY AND MAGNETISM (6) 4 semester hours

This course examines the theory and application of electrostatic fields, charge, potential, magnetic fields, steady currents, magnetic flux, inductance, transient currents, radiation and magnetic energy.

One semester. Three lecture periods and one three-hour laboratory period.

Prerequisite: *Physics 102 or 104, Math, 314.*

PHYSICS 303: MECHANICS (3) 3 semester hours

Newton's laws of motion, integrals of the second law, linear and plane motion of a mass point, dynamics of a system of particles, statics and dynamics of a rigid body, elastic bodies and fluids are studied.

One semester. Three lecture periods.

Prerequisite: *Physics 104 and Math, 316 (or concurrently).*

PHYSICS 304: MODERN PHYSICS (6) 4 semester hours

The major developments in physics of the last 60 years are studied. Included are the experimental evidences and theories concerning the atomic nature of matter and electricity, dual nature of matter and radiation, atomic structure and atomic spectra, an introduction to relativity and quantum mechanics. Also considered are some aspects of nuclear physics: natural radioactivity, nuclear reactions, binding energies and cosmic rays.

One semester. Three lecture periods and one three-hour laboratory period.

Prerequisite: *Physics 301 and Math, 316.*

PHYSICS 306: ELECTRONICS (4) 3 semester hours

The practical electron tube and transistor circuits used in physical research are studied. The introduction to physical electronics includes thermionic emission, field emission, crystal rectification and transistor action.

One semester. Two lecture periods and one two-hour laboratory period.

Prerequisite: *Physics 102 or 301 and Math, 313.*

PHYSICS 307: QUANTUM MECHANICS (3) 3 semester hours

This course will demonstrate the breakdown of classical physics on the atomic scale and introduce the wave function as a means of describing a particle with wave properties. The Schrodinger Equation will be developed and solved for some simple situations.

One semester. Three lecture periods.

Prerequisite: *Physics 300 and Math, 314.*

PHYSICS 308: METEOROLOGY (3) 3 semester hours

An introduction to the science of meteorology is given, dealing with the composition and vertical structure of the earth's atmosphere, the basic pressure patterns and general circulation, frontal structure and air mass analysis, adiabatic processes and stability of the atmosphere, instruments and procedures used in weather observing and forecasting.

severe local storms, tornadoes and hurricanes, weather services and climatology.

One semester. Three lecture periods.

Prerequisite: *Physics 102 or 104 and Math, 313.*

PHYSICS 350: TOPICS IN PHYSICS (3-4) 3 semester hours

This course examines topics in a particular area of physics. A student may repeat this course with a change in content. If the topic under study requires laboratory or field work, four credits will be assigned for the course.

Prerequisite: *consent of department chairman.*

PHYSICS 391, 392, 393: PROBLEMS IN PHYSICS (1-3) 3 semester hours

The student does research in a topic selected after consultation with the instructor and prepares a report of the work. A maximum of six credits may be earned in these courses. Admission and credit are to be determined in consultation with the instructor and the department chairman.

PHYSICS 400: INDEPENDENT STUDY IN PHYSICS (3) 3 semester hours

Students enrolled in this course will study independently in an area of physics under the guidance of a member of the physical science faculty. The particular area of physics will be selected on the basis of the interests of the student and instructors. Open only with the consent of department chairman.

DEPARTMENT OF POLITICAL SCIENCE

All of the courses offered by this department are unrestricted arts and sciences courses.

POLITICAL SCIENCE 200: INTRODUCTION TO POLITICAL SCIENCE (3) 3 semester hours

Following an examination of the nature methods and the scope of the discipline, the focus in this course will be on such topics as political ideologies, political socialization and major political agencies and institutions. Domestic politics will be briefly compared with international politics.

POLITICAL SCIENCE 202: AMERICAN GOVERNMENT (3) 3 semester hours

The objective of this course is to examine in broad outline the institutions and principles of American national government. Attention is given to the constitutional foundation, federalism, political parties, Congress, the Presidency, the Supreme Court and civil rights.

POLITICAL SCIENCE 204: INTRODUCTION TO POLITICAL THOUGHT (3) 3 semester hours

This course is designed to acquaint the student with some of the fundamental concepts and issues of philosophy and political theory. Basic precepts about authority, law, government and the terms of obligation are examined in light of contemporary concerns.

POLITICAL SCIENCE 206: INTERNATIONAL POLITICS (3) 3 semester hours

The principles of international politics are examined in this course. Emphasis is placed on the motivating and conditioning factors which shape world politics. Attention is given to the means and ends in the relations of nation-states, the impact of nationalism, the causes of war and an analysis of possible methods for the resolution of international conflict.

POLITICAL SCIENCE 207: INTRODUCTION TO COMPARATIVE POLITICS (3) 3 semester hours

This course will consider the concepts which political scientists use to understand the diversity of major nation-states. It will examine the variety of political organizations and processes which characterize modern countries. Emphasis will be given to the way national political systems respond to key problems.

POLITICAL SCIENCE 211: THE POLITICS OF COMMUNITY ACTION GROUPS (4) 4 semester hours

The focus of this course is the formation and development of community action groups as

advocates of the interests and aspirations of low-income and working-class populations. The constituency base, tactics, goals and roles that such groups play in the political system are examined. Students are placed with community groups in the metropolitan Providence area for part of the course.

POLITICAL SCIENCE 255: PUBLIC ADMINISTRATION 3 semester hours
This course is designed to introduce the student to problems and techniques of public administration at the national level in the United States. Attention is given to the theory of organization and management, administrative planning and responsibility, and other selected topics.

POLITICAL SCIENCE 300: METHODOLOGY IN POLITICAL SCIENCE 3 semester hours
This course surveys the basic concepts in research methodology in political science. Philosophical, historical and quantitative techniques of political analysis are examined. The objective of the course is to familiarize the students with these methodological tools in order to enable them to critically evaluate the literature of the discipline.

POLITICAL SCIENCE 303: INTERNATIONAL ORGANIZATION 3 semester hours
Consideration is given to the structure, process and activity of international and regional organizations with respect to the maintenance of peace, settlement of disputes and promotion of welfare. Major emphasis is placed on the United Nations.

POLITICAL SCIENCE 305: URBAN POLITICS 3 semester hours
Presenting an analysis of the political system of the metropolis, the main focus of this course is upon political behavior in an urban setting rather than institutional structure. A wide spectrum of the patterns of urban, suburban, and metropolitan politics will be discussed.

POLITICAL SCIENCE 306: POLITICAL SOCIALIZATION 3 semester hours
This course will consider the ways individuals learn about politics. The school, mass media, family and elements of the political system itself will be treated as agents influencing the development of political knowledge, political attitudes and political skills. Special attention will be given to the influence of public education on political processes.

POLITICAL SCIENCE 313: HISTORY OF POLITICAL THOUGHT 4 semester hours
Great figures in the history of political philosophy are studied relative to perennial questions about political organization. Their views regarding such matters as the basic nature of man and the state, the origins of justice and the proper role of government in human affairs are examined for illumination they may provide for current affairs.

POLITICAL SCIENCE 314: CONCEPTS IN CONTEMPORARY POLITICAL THOUGHT 3 semester hours
Emphasis in this course is upon modern theories of politics and political inquiry. Theorists of the 19th and 20th century will be studied relative to modern problems and issues in political thinking.

POLITICAL SCIENCE 322: COMPARATIVE STATE POLITICS 3 semester hours
This course analyzes state politics in the United States. It focuses on the principal factors, processes and institutions which shape the outcome of policy formation at the state level.

Emphasis is placed on identifying the similarities and differences in political culture, citizen participation, parties and elections, policy-makers and the process by which policy is made.

POLITICAL SCIENCE 325: PUBLIC ADMINISTRATION IN STATE AND LOCAL GOVERNMENT 3 semester hours
Using both student prepared and existing case studies on aspects of public administration at the state and local levels, the course examines problems of inter and intra level coordination and cooperation. The case studies will focus on problems of goal formation and attainment, personal motivation and management, budgeting and budget strategy and evaluation.

POLITICAL SCIENCE 327: INTERNSHIP IN STATE GOVERNMENT 4 semester hours
This course enables students to develop a knowledge of the structure and procedures of Rhode Island state government through a field experience which permits them to integrate classroom theory and political reality. Students are assigned to cooperating sponsors in Executive, Legislative and Judicial Departments of state government and participate in a weekly lecture series which examines the institutions of state government. The series includes a participation by political leaders and academics.

POLITICAL SCIENCE 328: FIELD EXPERIENCES IN THE PUBLIC SECTOR 4 semester hours
In this course students are assigned to cooperating local, state or national agencies, political parties or interest groups. Students will meet individually with a faculty member and undertake assignments designed to relate the field experiences to academic concepts.

POLITICAL SCIENCE 329: PRACTICUM IN PUBLIC SERVICE 4 semester hours
In this course intended for political science-public service majors, students participate in an internship under the joint supervision of the college faculty and public and private political organizations and agencies. Placements will be made in accordance with the needs and desires of the students registered for the course. An additional integral part of the course will be an in-depth exploration of selected public service concepts and theories.

POLITICAL SCIENCE 331: COURTS AND POLITICS 4 semester hours
This course acquaints the student with the American judicial system and the legal dimensions of the political process. Special attention will be given to the impact of court decisions and the influence of both legal and political factors on constitutional development.

POLITICAL SCIENCE 332: CIVIL LIBERTIES IN THE UNITED STATES 4 semester hours
This course examines traditional constitutional guarantees of civil liberty and due process in American life. Attention is given to both developmental and contemporary concerns through the examination of legal decisions and justifications offered for those decisions.

Prerequisite: one political science course at the 200 level, preferably Pol. Sci. 202.

POLITICAL SCIENCE 341: THE POLITICS OF DEVELOPMENT 4 semester hours
The focus of this course will be a study of the theories of political development and an analysis of political problems and processes in developing areas of the world.

Prerequisite: one political science course at the 200 level or consent of instructor.

POLITICAL SCIENCE 343: POLITICS IN ADVANCED SOCIETIES 4 semester hours
This course analyzes and compares in some depth the politics of selected advanced countries.

Prerequisite: one political science course at the 200 level.

POLITICAL SCIENCE 345: COMPARATIVE FOREIGN POLICY 4 semester hours
This course is designed to examine the foreign policy-making processes and the foreign policies of selected countries.

Prerequisite: one political science course at the 200 level, preferably Pol. Sci. 206 or 207.

POLITICAL SCIENCE 351: PARTIES AND ELECTIONS IN AMERICA 4 semester hours

Primary attention is given to party organization, nomination, electoral strategy, campaigning, voting behavior and electoral analysis. Field work in behalf of a candidate or party of the student's choice is an integral part of this course.

Prerequisite: one political science course at the 200 level, preferably Pol. Sci. 202.

POLITICAL SCIENCE 352: POLITICS OF BUREAUCRACY 3 semester hours
Stressing the theory, organization, management and politics of bureaucracies, this course analyzes the value context, environmental setting, operational dynamics and power variables of public bureaucracies.

Prerequisite: one political science course at the 200 level, preferably either Pol. Sci. 202 or 255.

POLITICAL SCIENCE 355: POLICY FORMATION PROCESS 4 semester hours
This course deals with the processes by which public policy is made in the United States. The inputs of the major institutions of government are emphasized. The internal operations of the legislature and the executive will be stressed, as well as the interaction of these two branches.

Prerequisite: Pol. Sci. 202 or consent of instructor.

POLITICAL SCIENCE 356: POLICY ANALYSIS 4 semester hours
This course deals with the substance of public policy in the United States. It will focus on various models of policy analysis which seek to explain the variables which influence the initiation, implementation and outcome of policy decisions.

Prerequisite: Pol. Sci. 202 or consent of instructor.

POLITICAL SCIENCE 360: SENIOR SEMINAR IN POLITICAL SCIENCE 3 semester hours
The seminar is designed to provide an integrating experience in political science, based on readings, discussions and research projects.

Prerequisite: senior standing and 12 semester hours in political science.

POLITICAL SCIENCE 371: READINGS IN POLITICAL SCIENCE 3 semester hours
This course provides independent readings to meet the needs of individual students in political science.

Prerequisite: limited to majors; approval of political science advisor and instructor is required.

POLITICAL SCIENCE 381: WORKSHOP IN PUBLIC SERVICE 1-4 semester hours
Selected topics are investigated in various formats. Credits and prerequisite may vary.

POLITICAL SCIENCE 390: INDEPENDENT RESEARCH IN POLITICAL SCIENCE 4 semester hours
This course provides individual students with an opportunity to select and undertake

concentrated research under the supervision of a faculty adviser.

Prerequisite: consent of instructor.

POLITICAL SCIENCE 480: WORKSHOP IN POLITICAL SCIENCE 1-4 semester hours
Selected topics are investigated in various formats. Credits and prerequisite vary.

PORTUGUESE

(Department of Modern Languages)

The restricted arts and sciences courses in this department are 101 and 102. All of the other courses listed below are unrestricted arts and sciences courses.

The general prerequisite for 200- and 300-level courses in Portuguese is proficiency in intermediate Portuguese demonstrated through examination or successful completion of Portuguese 113 and 114 or 115 or the equivalent.

PORTUGUESE 101: ELEMENTARY PORTUGUESE I 3 semester hours
The course offers a thorough study of Portuguese pronunciation and grammar. It includes conversation, dictation and reading of Portuguese texts, plus the acquisition of some knowledge of Portuguese culture. This course is normally not open for college credit to students who have offered admission credit in the language.

See Portuguese 110.

PORTUGUESE 102: ELEMENTARY PORTUGUESE II 3 semester hours
This course is a continuation of Portuguese 101.

Prerequisite: Portuguese 101 or 1 year of secondary school Portuguese or permission of the department chairman.

PORTUGUESE 110: CONTINUING ELEMENTARY PORTUGUESE 4 semester hours
A concentrated one semester course for the student who wishes to continue study of the language begun in the secondary school. In this course special emphasis is placed on aspects of culture and civilization as it relates to language development. The development of the four skills: listening, speaking, reading and writing, is stressed. Extensive use is made of the language laboratory. Not open to students who have completed Portuguese 101 or 102.

Prerequisite: two years of secondary school Portuguese or approval of the department chairman.

PORTUGUESE 113: INTERMEDIATE PORTUGUESE 4 semester hours

Through selected readings the student examines the cultural and linguistic heritage of the Portuguese speaking world. This course, which includes a review of grammar, also provides for the further development and practice of the basic oral and written skills. The language laboratory is utilized. The course is open to students who have completed either Portuguese 102 or 110; three years of secondary school Portuguese; or have achieved a score of 500-549 on the CEEB Achievement Test in Portuguese.

PORTUGUESE 114: READINGS IN INTERMEDIATE PORTUGUESE 4 semester hours

Emphasis is placed on the development of the reading skill and of an appreciation of literature, selected from various periods and genres, for its interest as a reflection of the Portuguese people. The development of the oral skill is continued, and some attention is given to written practice.

Prerequisite: achievement through the Portuguese 113 level or the equivalent or permission of the department chairman.

PORTUGUESE 115: INTERMEDIATE ORAL PORTUGUESE 4 semester hours

The development of oral proficiency is stressed while giving some attention to retaining written skills previously acquired. Selected periodicals, language manuals and laboratory

tapes will serve as basic materials for accomplishing assignments related to vocabulary building, correct and idiomatic diction and oral presentations.

Prerequisite: achievement through the Portuguese 113 level or the equivalent or permission of the department chairman.

PORTUGUESE 201: CONVERSATION AND COMPOSITION 4 semester hours
This course emphasizes the use of correct spoken Portuguese on a level more advanced than is expected in the intermediate courses. Careful attention is given to the correction of pronunciation through practice in the language laboratory and elementary work in phonetics. Texts which stress Portuguese culture and civilization serve as the basis for oral and written expression.

Prerequisite: the equivalent of Portuguese 114 or 115 or permission of the department chairman.

PORTUGUESE 202: COMPOSITION AND CONVERSATION 4 semester hours
This course emphasizes writing skills in Portuguese, through grammatical exercises, controlled composition, original themes, and the stylistic analysis of literary texts. Class discussions, in Portuguese, of the written materials provide opportunity for oral practice.

Prerequisite: the equivalent of Portuguese 114 or 115 or permission of the department chairman.

PORTUGUESE 350: TOPICS IN PORTUGUESE 3 semester hours
The course provides an opportunity for studies of topical nature. Topics will vary and will be announced from semester to semester.

DEPARTMENT OF PSYCHOLOGY

Psychology 213, 214 and 216 are restricted arts and sciences courses. All other psychology offerings are unrestricted arts and sciences courses.

• **PSYCHOLOGY 210: INTRODUCTORY PSYCHOLOGY** 4 semester hours
This course is a contemporary approach to the introduction of psychology as the scientific study of behavior. The present day status of the science, both in terms of areas of consensus and dispute, are emphasized.

• **PSYCHOLOGY 211: HUMANISTIC PSYCHOLOGY** 4 semester hours
This course is an introduction to basic humanistic psychological perspectives regarding science, human motivation, growth and development, attitudes and values and self-actualization. The works of Maslow, Rogers, Allport and others provide the major theoretical framework of this course.

PSYCHOLOGY 213: EDUCATIONAL PSYCHOLOGY-ELEMENTARY 4 semester hours
This course deals with the application and analysis of psychological theories and research findings to elementary classroom situations. Emphasis is laid on both the characteristics of the learner and the nature of effective teaching at specified grade levels.

PSYCHOLOGY 214: EDUCATIONAL PSYCHOLOGY-SECONDARY 4 semester hours
This course deals with an introduction to the principles of educational psychology applied to the secondary level of education. Emphasis is placed on both the social influences and personality characteristics of the adolescent.

• **PSYCHOLOGY 215: SOCIAL PSYCHOLOGY** 4 semester hours
This course serves as an introduction to the study of individual behavior in relation to social stimuli. The topics include interpersonal interaction, intra- and inter-group relations, cultural influences on behavior and collective behavior.

PSYCHOLOGY 216: EDUCATIONAL PSYCHOLOGY K-12 4 semester hours
This course deals with the application of psychological principles to elementary and secondary level classroom situations. Enrollment is restricted to students in K-12 programs or nursing.

PSYCHOLOGY 217: DRUG USE AND PERSONAL DECISION MAKING 4 semester hours

This drug education course presents a review of psychoactive drugs and their general effects. It also provides an open-ended developmental experience which allows students an opportunity to gain an awareness of themselves and of decision-making related to drug use.

Prerequisite: one course in psychology.

• **PSYCHOLOGY 218: THE ABNORMAL PERSONALITY IN THE ARTS** 4 semester hours

This course deals with the study of the experience and expression of psychological abnormality through literature and self-report in the visual and dramatic arts. Emphasis is laid on the nature of creative and artistic expression and the psychological qualities of the "artistic genius."

PSYCHOLOGY 220: MOTIVATION AND ABILITY 4 semester hours
Examined in this course are the theories and research related to the personal growth of abilities, attitudes, interests, needs and flairs. The interaction between individual motives and social limitations on behavior and the influence of ideational conflicts and non-conformity are each considered as sources of productive talent. Both internal and external determinants of goal-directed behavior are stressed.

PSYCHOLOGY 320: INTRODUCTION TO PSYCHOLOGICAL METHODS 4 semester hours
Methodology, design used in the conduct, principles of measurement used in the analysis and statistical methods used in the interpretation of psychological research.

Prerequisite: Psych. 210.

PSYCHOLOGY 322: PSYCHOLOGICAL TESTING 4 semester hours
Introduction to the basic principles of construction, selection and interpretation of psychological tests. Concepts of reliability, validity and norms will be considered by the examination of instruments selected to illustrate various approaches to these problems.

Prerequisite: Psych. 320 or equivalent.

PSYCHOLOGY 324: PRINCIPLES OF PSYCHOLOGICAL MEASUREMENT 4 semester hours
Principles underlying the construction of instruments of psychological measurement. Theory and practice related to statistical concepts and factors affecting reliability and validity.

Prerequisite: Psych. 320 or equivalent.

PSYCHOLOGY 326: ADVANCED PSYCHOMETRICS 4 semester hours
Open to graduate students who wish to broaden their understanding and skill in testing and other quantitative measures of human behavior. Emphasis will be placed on the construction and improvement of measures related to the primary research concerns of each student.

Prerequisite: Psych. 320 or equivalent.

PSYCHOLOGY 330: HUMAN DEVELOPMENT 4 semester hours
This course is designed to emphasize the concepts of development and learning and cognition; to know the characteristics of the significant periods of human development; to know major learning processes and the nature and development of cognitive behavior.

Prerequisite: Psych. 320 or equivalent.

PSYCHOLOGY 331: CHILD PSYCHOLOGY 4 semester hours
The course concentrates attention on the mental, emotional, social and physical development of children from birth to early adolescence with stress on developmental research related to the process of teaching and learning.

Prerequisite: Psych. 210.

PSYCHOLOGY 332: CHILD PSYCHOLOGY 4 semester hours
The course concentrates attention on the mental, emotional, social and physical development of children from birth to early adolescence with stress on developmental research related to the process of teaching and learning.

Prerequisite: Psych. 330.

PSYCHOLOGY 332: ADOLESCENT PSYCHOLOGY

4 semester hours

To explore sociological, psychological and physiological implications of adolescent adjustment and to promote understanding and gain insight into the dynamics of adolescent search for identity.

Prerequisite: Psych. 330.

PSYCHOLOGY 333: PSYCHOLINGUISTICS

4 semester hours

Learning theory, psychodynamics and communication theory applied to the study of linguistics, language and orthographics. The interdependencies of descriptive and enactive behaviors and of cognitive and emotional responses will be emphasized.

Prerequisite: Psych. 330.

PSYCHOLOGY 334: EXPERIMENTAL CHILD PSYCHOLOGY

4 semester hours

This course deals with various research methods for the study of children's behavior, especially topics related to their early learning and their development of self-generated purposive activities. Methods emphasized include developmental, comparative, cross-cultural, clinical and controlled experimental approaches to scientific inference, hypothesis testing and theory building. An original research project is required. Laboratory required.

Prerequisite: Psych. 320 and 330.

PSYCHOLOGY 340: EXPERIMENTAL PSYCHOLOGY

4 semester hours

Topics include an experimental study of sensory and learning processes, experimental studies of verbal learning; the relationship of sensory processes to psychological phenomena; drawing inferences from experimental data; historical foundations and developments in psychology. Laboratory required.

Prerequisite: Psych. 320.

PSYCHOLOGY 341: PERCEPTION

4 semester hours

A study of the variables that determine what we perceive, including input from sensory systems, and the effects of attention and past experience on what we perceive. Experiments which illustrate perceptual phenomena will be performed. Laboratory required.

Prerequisite: Psych. 340.

PSYCHOLOGY 342: OPERANT CONDITIONING

4 semester hours

This course will consider one basic and important psychological process and investigate its applications to fields outside academic psychology. The basic psychological process to be considered is operant conditioning.

Prerequisite: Psych. 340.

PSYCHOLOGY 343: HISTORY AND SYSTEMS OF PSYCHOLOGY

4 semester hours

This course is a survey of the growth of psychology from its philosophical roots to its current status. Emphasis is on the great historical questions and controversies and the men involved with these issues.

Prerequisite: Psych. 340.

PSYCHOLOGY 344: THEORIES OF LEARNING

4 semester hours

Introduction to the major theories of learning. Emphasis is on the basic issues differentiating one theory from another, the decline of major learning theories and the rise of the meta-theories.

Prerequisite: Psych. 340.

PSYCHOLOGY 345: PHYSIOLOGICAL PSYCHOLOGY

4 semester hours

The neural and chemical bases of behavior. The relationship between anatomical, neurophysiological and behavioral data will be studied. Similarities and differences among the senses and general principles of sensory functioning will be studied.

Prerequisite: Psych. 340.

PSYCHOLOGY 351: PERSONALITY

This course is an in-depth study of personality functioning, including genetic, constitutional and cultural determinants, theories of personality and techniques of personality assessment in children and adults.

Prerequisite: Psych. 210.

PSYCHOLOGY 352: REALITY, DEVIANCE AND CULTURE

The course examines the importance and function of linguistics and semantics as determinants of cultural views of reality and their relationships to cultural definitions of deviant behavior.

Prerequisite: permission of instructor and one of the Psychology 350-level courses.

PSYCHOLOGY 354: ABNORMAL PSYCHOLOGY

The course examines traditional and contemporary approaches to the understanding and treatment of a wide range of abnormal behaviors, both in children and in adults.

Prerequisite: Psych. 351.

PSYCHOLOGY 355: SOCIAL BEHAVIOR

This is a comprehensive survey of research on social behavior which features an emphasis on applicability of concepts to everyday life. Topics to be studied include historical and modern approaches to social behavior, subcultural influences, group dynamics, inter-group relations, interpersonal interaction, attitudes and survey research and collective behavior.

Prerequisite: Psych. 210.

PSYCHOLOGY 390: DIRECTED RESEARCH

Based on prior discussion and reading, the student selects a specific problem and undertakes concentrated empirical research under the supervision of a faculty adviser.

Prerequisite: approval of department chairman.

PSYCHOLOGY 391: DIRECTED RESEARCH

The student completes research undertaken in Psychology 390, writes and submits a paper on the basis of this research.

Prerequisite: Psych. 390 and approval of department chairman.

PSYCHOLOGY 392: PROBLEMS IN PSYCHOLOGICAL RESEARCH

This course considers selected topics of current interest in the psychological literature. Under supervision of the instructor the student conducts an investigation into the topic area of his/her choice. One class meeting per week is devoted to problems of design and methodology in research.

Prerequisite: Psych. 320, 334 or 340. Students may apply no more than two courses from the series Psych. 390, 391, 392 to the psychology major.

PSYCHOLOGY 400: ISSUES IN CHILD DEVELOPMENT

This course deals with an investigation of the dynamic processes of human development from conception to adolescence. The works of Sears, Kagan, Piaget, Erikson and others provide the basic framework of the course.

Prerequisite: six semester hours in psychology or permission of department chairman.

PSYCHOLOGY 402: THE SOCIAL PSYCHOLOGY OF ADOLESCENCE

This course approaches the problems and issues of adolescence through a social-psychological frame of reference. Patterns of development and social interaction are analyzed through an examination of the adolescent's peer group interactions in his search for identity.

Prerequisite: six semester hours in psychology or permission of department chairman.

PSYCHOLOGY 403: MEASUREMENT AND EVALUATION IN THE CLASSROOM

This course deals with the techniques of test construction and the use of evaluation instruments in the classroom. Emphasis is placed on the specification of objectives, test design, construction of items and appropriate statistics analyses of results.

Prerequisite: six semester hours in psychology or permission of department chairman.

PSYCHOLOGY 407: APPLICATIONS OF EDUCATIONAL PSYCHOLOGY

This course deals with an introduction to and the application of pertinent empirical psychological research and findings to classroom situations. Emphasis is placed on current issues in the application of psychological principles in the classroom.

Prerequisite: six semester hours in psychology or permission of department chairman.

PSYCHOLOGY 408: BEHAVIOR IN GROUPS AND SOCIAL ORGANIZATIONS

This course is concerned with the psychological aspects of group task performance, role behavior and social dynamics in working situations. Emphasis is on analytic techniques, institutional climates, leadership methods, human values and community relationships.

Prerequisite: six semester hours in psychology or permission of department chairman.

PSYCHOLOGY 409: PSYCHOLOGY OF RACE AND CLASS

This course examines racial and social class differences in psychological characteristics. The historical and contemporary effects of prejudice and discrimination are analyzed as well as the methods of reducing intergroup conflict.

Prerequisite: six semester hours in psychology or permission of department chairman.

PSYCHOLOGY 410: DRUGS AND BEHAVIOR

The purpose of this course is to acquaint graduate students with different types of drugs, how to recognize these drugs, the mental and physical effects of the drugs, characteristics of the drug addict and rehabilitation of addicts. Experts from psycho-pharmacology, medicine, law enforcement and rehabilitation will present lectures.

Prerequisite: six semester hours in psychology or permission of department chairman.

PSYCHOLOGY 411: INTERPRETATION OF INDIVIDUAL TESTS

This course is concerned with the interpretation of the results of a variety of individual testing instruments and of case studies based on them. Practice will be given in techniques for communicating results to clients, parents and teachers where appropriate.

Prerequisite: Psych. 322 or 403.

PSYCHOLOGY 418: THE CREATIVE AND GIFTED CHILD

Acquainting graduate students with the psychological characteristics of creative and gifted children is the goal of this course. Such variables as intelligence, creativity, personality, the assessment of these characteristics, school achievement, parental roles and educational programs will be examined. Emphasis will be upon recognition of and working with creative and gifted children in a classroom setting.

Prerequisite: six semester hours in psychology or permission of department chairman.

PSYCHOLOGY 419: PSYCHOLOGY OF THINKING

The thinking processes of man are studied from a cognitive, conceptual and phenomenological point of view. Various theoretical viewpoints will be considered including cognitive theories of Piaget, Guilford and Bruner.

PSYCHOLOGY 420: FUNDAMENTALS OF RESEARCH

Research concepts, design and methodology are presented in terms of their specific relationships to education problems. Critical analysis of educational material is included.

PSYCHOLOGY 421: INDUSTRIAL PSYCHOLOGY

This course is designed for students interested in the applications of psychology to problems in the management and administration of business and industry. Emphasis is placed on the measurement of human abilities, and psychological principles in decision-making, planning, industrial training and group interaction.

Prerequisite: six semester hours in psychology or permission of department chairman.

PSYCHOLOGY 430: BEHAVIOR MODIFICATION IN SOCIAL SETTINGS

A basic general course in theory, research and applications of behavior modification, this course will include a review of behavioral approaches to various school-related problems ranging from behavior management to academic remediation. Emphasis will be upon current theory and research as well as skills in self-change.

Prerequisite: six semester hours in psychology and consent of department chairman and instructor.

PSYCHOLOGY 435: THE DEVIANT CHILD

The course will emphasize the identification, description and diagnosis of types of deviant children and the social, psychological and physical factors involved in their development. Problems of rehabilitation and psychological treatment will also be considered.

Prerequisite: Psych. 330 and 351.

PSYCHOLOGY 440: QUANTITATIVE METHODS IN PSYCHOLOGICAL RESEARCH

This course deals with the theories, principles and procedures of psychological measurement and the application of multi-variate statistical models to problems in psychological research. The course seeks to prepare students to undertake behavioral research studies in school settings.

Prerequisite: Psych. 440 and consent of department chairman.

PSYCHOLOGY 450: EDUCATIONAL PSYCHOLOGY

This course will provide the graduate student with an overview of the major concerns of the field of educational psychology. Major emphasis will be upon theoretical orientations and concepts while minor emphasis will be placed on practical applications. This course is designed primarily to provide a theoretical foundation for other more applied courses in the education psychology program.

Prerequisite: consent of department chairman.

PSYCHOLOGY 451: INDIVIDUAL INTELLIGENCE TESTING

A practicum in the administration, scoring and interpretation of cognitive tests. This will include experience with individual intelligence tests as well as tests of specific cognitive abilities, and will consider report writing and the clinical application of these tests.

Prerequisite: 12 graduate semester hours in psychology and consent of department chairman. Open only to matriculated students in the M.A. Educational Psychology program.

PSYCHOLOGY 502: PROJECTIVE TECHNIQUES

An introduction to the theory and use of projective techniques and other methods of personality assessment, the practicum will provide supervised experience in the administration and interpretation of these instruments, their clinical applications and the communication of findings derived from them.

Prerequisite: Psych. 451 and consent of department chairman open only to matriculated students in the C.A.G.S. in school psychology program.

PSYCHOLOGY 504: PSYCHO-EDUCATIONAL ASSESSMENT

This practicum is designed to provide supervised experiences in the evaluation of perceptual abilities, motor skills and language development. The focus of the practicum will be on the evaluation and administration of the available tests used in the identification of

learning problems. The student will also be required to explore, discuss and evaluate teaching strategies needed to formulate appropriate remedial measures.

Prerequisite: Psych. 451 and consent of School Psychology Graduate Committee. *Open only to matriculated students in the C.A.G.S. in school psychology program.*

PSYCHOLOGY 505: DIAGNOSTIC ASSESSMENT PRACTICUM 3 semester hours
Supervised practice in cognitive and personality assessment; this course will utilize the case study method in providing the student experience in diagnostic work in a clinical, school or institutional setting. Methods of evaluating perceptual and language abilities will also be introduced.

Prerequisite: Psych. 502, 504 and consent of School Psychology Graduate Committee. *Open only to matriculated students in the C.A.G.S. in school psychology program.*

PSYCHOLOGY 506: PERSONALITY AND SOCIAL DEVELOPMENT OF CHILDREN 3 semester hours

A systematic approach to personality and social development of children is considered. The nature of major personality and social theories as they relate to children's development will be studied. Theories considered: psychoanalytic-type, Gestalt oriented theories including Piaget and Levin, learning-oriented theory and cross-cultural approaches. Empirical research relevant to a given system of thought is included.

Prerequisite: Psych. 351 and consent of department chairman.

PSYCHOLOGY 509: SOCIAL PSYCHOLOGY OF THE CLASSROOM 3 semester hours

This course examines the social psychological variables operating within the classroom which includes both the background social characteristics of the students, such as ethnic and social class differences; the school as a social system; group dynamics; the role of the teacher, and formation of attitudes toward school and learning.

Prerequisite: consent of department chairman.

PSYCHOLOGY 510: SEMINAR IN PSYCHOPATHOLOGY 3 semester hours
An intensive study of psychopathology in both children and adults, the seminar will consider original source material as well as the contemporary literature in the field. Classification, etiology, the major theoretical approaches and the various categories of disordered behavior will be considered.

Prerequisite: Psych. 354 and consent of department chairman.

PSYCHOLOGY 523: THEORIES OF PSYCHOLOGICAL INTERVENTION 3 semester hours

The basic general course in the theory and methods of promoting psychological change and behavior modification, this course will include a survey of appropriate theories and an introduction to the practical resources available for treatment. Appropriate referral and certain specific techniques will be included.

Prerequisite: Psych. 450 and consent of department chairman. *Open only to matriculated students in a C.A.G.S. program in psychology.*

PSYCHOLOGY 529: INTERNSHIP IN SCHOOL PSYCHOLOGY 12 semester hours
The internship consists of a one year placement in a cooperating school system under the supervision of a certified school psychologist and a college faculty member. Experiences include the administration-interpretation of psychodiagnostic tests and the formulation of appropriate recommendations; observation of special classes; participation in consultation and planning in the schools and in referral both within the school and to outside agencies; an introduction to the problems and needs for research on school-related psychological problems.

Prerequisite: Psych. 505 and consent of department chairman.

PSYCHOLOGY 530: PRACTICUM IN BEHAVIOR MODIFICATION 3 semester hours
This is an advanced graduate level course in the effective and ethical use of applied behavior analysis in educational, therapeutic and social settings. Emphasis will be upon the design, implementation and maintenance of behavior change programs with individuals and groups, primarily in the area of education.

Prerequisite: Psych. 430 and permission of department chairman. *Open only to matriculated students in a C.A.G.S. program in psychology.*

PSYCHOLOGY 560: CURRENT TOPICS IN PSYCHOLOGY 3 semester hours
Contemporary issues and developments in the field of psychology will be explored. Recent areas and theoretical literature will be considered. Topics will vary and will be repeated with a change in content.

Prerequisite: consent of department chairman.
PSYCHOLOGY 565: SEMINAR IN ATTITUDE AND ATTITUDE CHANGE 3 semester hours

This is a seminar on research findings and theoretical issues in the study of attitudes and attitude change. Emphasis will be placed on the analysis of the persuasive effectiveness of variables such as source, content and structure of messages, receiver personality, intelligence and motivation. Training will be provided in attitude measurement including the construction of instruments.

Prerequisite: Psych. 355 and permission of the department chairman.

PSYCHOLOGY 599: DIRECTED GRADUATE RESEARCH 3 to 6 semester hours
This course is open only to candidates in the Master of Arts in psychology and C.A.G.S. in school psychology programs. School-related research is conducted under the supervision of a member of the department.

Prerequisite: consent of department chairman.

RECREATION

(Department of Health and Physical Education)

Recreation 201 and 301 are unrestricted arts and sciences courses. None of the other courses listed below are arts and sciences courses.

RECREATION 201: CAMPING AND RECREATIONAL LEADERSHIP 3 semester hours

A study is made of the philosophy and problems of camping and recreational leadership. The principles, practices, processes and techniques of leadership, in relation to both camping and recreation, are studied in depth. Laboratory experiences are required.

RECREATION 300: AQUATICS 3 semester hours
This course is designed to provide the student with knowledge and understanding of both the activity and the circumstances under which a variety of aquatic skills will be covered. Organizational methods and teaching of various aquatic skills will be covered. Upon successful completion of this course the student receives WSI certification. One hour lecture, four hour laboratory.

Prerequisite: a current advanced lifesaving certificate.

RECREATION 301: OUTDOOR EDUCATION 3 semester hours

This course is designed to provide the student with the philosophy and techniques of school camping and outdoor recreation.

RECREATION 302: RECREATION PRACTICUM 7 1/2 semester hours

This course is designed to provide opportunities for students to gain practical experience

in the field by having them assist in the development, presentation and evaluation of leisure time activities in community, agency, school or college settings. One hour lecture, six hours supervised field experience.

Prerequisite: Health Ed. 200, Ret. 201, 300, 301, and Phys. Ed. 314.

RUSSIAN

(Department of Modern Languages)

The restricted arts and sciences courses in this department are 101 and 102. All of the other courses listed below are arts and sciences courses.

RUSSIAN 101: ELEMENTARY RUSSIAN I

The course offers a thorough study of Russian pronunciation and grammar. It includes conversation, dictation and reading of Russian texts, plus the acquisition of some knowledge of Russian culture. This course is normally not open for college credit to students who have offered admissions credit in the language.

See Russian 110.

RUSSIAN 102: ELEMENTARY RUSSIAN II

This course is a continuation of Russian 101.

Prerequisite: Russian 101 or one year of secondary school Russian or permission of department chairman.

RUSSIAN 110: CONTINUING ELEMENTARY RUSSIAN

A concentrated one semester course for the student who wishes to continue study of the language begun in the secondary school. In this course special emphasis is placed on aspects of culture and civilization as it relates to language development. The development of the four skills: listening, speaking, reading and writing, is stressed. Extensive use is made of the language laboratory. Not open to students who have completed Russian 101 or 102.

Prerequisite: two years of secondary school Russian or approval of department chairman.

RUSSIAN 113: INTERMEDIATE RUSSIAN

Through selected readings the student examines the cultural and linguistic heritage of Russia. This course, which includes a review of grammar, also provides for the further development and practice of the basic oral and written skills. The language laboratory is utilized. The course is open to students who have completed either Russian 102 or 110; three years of secondary school Russian; or have achieved a score of 500-549 on the CEEB Achievement Test in Russian.

RUSSIAN 114: READINGS IN INTERMEDIATE RUSSIAN

Emphasis is placed on the development of the reading skill and of an appreciation of literature, selected from various periods and genres, for its interest as a reflection of the heritage of the Russian people. The development of the oral skill is continued and some attention is given to written practice.

Prerequisite: achievement through the Russian 113 test or the equivalent or permission of the department chairman.

SOCIAL SCIENCE

All of the courses listed below are unrestricted arts and sciences courses. The following courses are taught by members of the Departments of Anthropology-Geography, Economics, History, Political Science and Sociology.

SOCIAL SCIENCE 200: THE DIMENSIONS OF SOCIAL SCIENCE

This introductory level course will strive to convey an understanding of the place of the social science in the totality of knowledge. It will treat the derivational, developmental

and integrational aspects of the social sciences. Attention will also be given to the meaning of "science" and "scholarship" as related to social inquiry. Whenever possible, students will be put into direct contact with such practitioners of the social sciences as social workers, legislators, teachers and lawyers, etc. Social Science 200 is normally the first course in the social science concentration or major.

3 semester hours
Prerequisite: the changing face

SOCIAL SCIENCE 310: AFRICA

To focus systematic attention on changing Africa, this course considers the social structure, political structure and problems of Africa. Social Science faculty members lecture in their fields of specialization. Visiting specialists may also lecture.

3 semester hours
Prerequisite: any 200-level course in the social sciences.

SOCIAL SCIENCE 311: LATIN AMERICA

The many changes in Latin America during the 20th century are examined in terms of their geographic and historical origins and of their political, social and economic implications. Social Science faculty members lecture in their fields of specialization. Visiting specialists may also lecture.

3 semester hours
Prerequisite: any 200-level course in the social sciences.

SOCIAL SCIENCE 315: THE CITY IN THE TWENTIETH CENTURY 3 semester hours
This is an interdisciplinary offering on the nature of cities and their societal role and influence. The first part of the course views the city in both its historical and contemporary setting. Areas of concern and methodologies employed by various social science disciplines in making urban analyses are also discussed. The second part of the course concentrates on issues and problems of the contemporary city as well as the city of the future.

Prerequisite: any 200-level course in the social sciences.

SOCIAL SCIENCE 350: TOPICS IN SOCIAL SCIENCE

This course provides an opportunity to study a special area not offered on a regular basis. Credits and prerequisites vary.

SOCIAL SCIENCE 360: WORKSHOP IN SOCIAL SCIENCE

Selected topics are investigated in various formats. Credits and prerequisite vary.

SOCIAL SCIENCE 480: WORKSHOP IN SOCIAL SCIENCE

Selected problems are investigated in various formats. Credits and prerequisite may vary.

DEPARTMENT OF SOCIOLOGY AND SOCIAL WELFARE

(Courses in Social Welfare and Sociology)

The restricted arts and sciences courses in this department are Sociology 155-156 and Social Welfare 150.

SOCIAL WELFARE 240: INTRODUCTION TO SOCIAL WELFARE

This course will cover the historical evolution of welfare programs, the structure of public and voluntary social services, and current welfare programs in relation to the needs of poor people. Topics will also include the development and status of social work as a profession, and types of social work practice settings.

3 semester hours
Prerequisite: any other 200-level sociology or social welfare course and sophomore status.

SOCIAL WELFARE 323: SOCIAL INEQUALITY

This course examines basic institutions which comprise the network of social inequality. Consideration will be given to the symptoms of inequality such as poverty, discrimination and allocations of goods and services. Content includes an exploration of mechanisms and conditions which perpetuate social inequality, as well as analysis of alternative belief systems, theories and social structures.

3 semester hours
Prerequisite: Soc. 320 or permission of instructor.

SOCIAL WELFARE 325: SOCIAL STRUCTURE AND SOCIAL POLICY

3 semester hours

This course views social policies as efforts to change one or more elements or consequences of social structure. The primary aims of the course are to analyze the history, facts and policies associated with the development, implementation, and consequences of certain social policies; and to critically examine the institutions and conditions that these policies are attempting to change. Areas to be considered include housing, drugs, transportation, employment and poverty.

Prerequisite: Soc. 300 or permission of department chairman.

SOCIAL WELFARE 328: SOCIAL CHANGE THEORY AND METHODS

4 semester hours

This course brings together the theory and practice of social change. It will consider the general theories of macro- and micro-social change and the methods of initiating and guiding social change in contemporary society. Consideration of planned social change, social movements, and community organization will serve to focus theoretical perspectives upon concrete social situations.

Prerequisite: Soc. 300 and one additional 300-level course.

SOCIAL WELFARE 329: CLINICAL METHODS IN SOCIAL WORK

4 semester hours

This course examines the basic core of general social work practice, and the knowledge, values and skills needed for practice in a clinical social work setting. The major type of clinical interventions will be presented in terms of their assumptions, principal concepts and effectiveness in various treatment situations.

Prerequisite: Soc. 331.

SOCIAL WELFARE 336: FIELD WORK

6-9 semester hours

This course is designed for students to test theoretical formulations discussed in Social Welfare 328 and 329 and to develop and improve skills that are essential to social welfare intervention. Limited to social welfare majors.

Prerequisite: Soc. Wel. 328 and 329.

SOCIAL WELFARE 351: TOPICS IN SOCIAL WELFARE

3 semester hours

This course provides an opportunity to study a special area of social welfare not offered by the department on a regular basis. Appropriate topics include, among others, mental health services, advanced methods, child welfare and international social welfare systems.

Prerequisite: varies with topic area.

SOCIAL WELFARE 361: FIELD INSTRUCTION SEMINAR

3 semester hours

This seminar provides the opportunity for senior students to explore and understand the beginning role of the professional generalist within the field of social work practice. Theoretical and philosophical implications of the varied educational experiences of the student are discussed in the light of the student's total experience. Issues involved in moving from the role of student to a generalist's role in the profession of social work will be discussed.

Prerequisite: Soc. Wel. 328, 329 and concurrent enrollment in Soc. Wel. 336.

SOCIAL WELFARE 362: SENIOR SEMINAR IN SOCIAL WELFARE

3 semester hours

The senior seminar is designed to give students the opportunity to integrate their theoretical and practice experiences in social welfare. It will include the students' reactions, thoughts and exposures to controversial materials and viewpoints. Students will be expected to make their contributions from a variety of sources and to integrate their practical and academic learning into a logical and comprehensive approach to the profession of social work.

Prerequisite: Soc. Wel. 328, 329 and 336.

SOCIAL WELFARE 384: WORKSHOP IN SOCIAL WORK

Selected topics are investigated. Credits and prerequisite vary.

SOCIOLOGY 101: HUMAN SEXUALITY

3 semester hours

An introduction to the physiological, psychological and social aspects of human sexuality. Guest lecturers, panels and various audiovisual presentations will provide basic information, while small group discussions will allow students to exchange ideas and discuss issues.

SOCIOLOGY 155-156: COMMUNITY SERVICE

3-6 semester hours

This course is designed to introduce the student into the community as a volunteer. Attention is given to self-awareness, service, research and application, coordination, evaluation and social action. The student volunteer engages in five hours of community service per week and six seminars during the semester.

Prerequisite: any elementary course in any of the social sciences or in psychology. This course does not count toward the major or minor.

• SOCIOLOGY 202: THE FAMILY

3 semester hours

The family is studied as a primary social institution. A functional analysis is used to explain such areas as recruitment of members, role differentiation, socialization of children. Historical, cross-cultural and subcultural materials are used to provide contrast for the "normal middle class" American family pattern.

• SOCIOLOGY 204: URBAN SOCIOLOGY

3 semester hours

The major focus is on urban society in the United States. Of particular concern are such topics as the growth of cities and metropolitan areas, population characteristics, ecological organization, dysfunctional aspects of urban social structure, problems of "city center" and redevelopment programs.

SOCIOLOGY 207: CRIME AND DELINQUENCY

3 semester hours

This course is an introduction to the fields of delinquency and criminology. Subjects include the etiology and extent of crime and delinquency; selected patterns of criminal activity including white collar crime, organized crime, narcotic traffic and gang behavior; prevention and prediction, and the role of the courts.

• SOCIOLOGY 208: MINORITY GROUP RELATIONS

3 semester hours

Broad sociological principles of intergroup relations are considered. The underlying social and individual dynamics of selected minority groups are emphasized. Minority groups of racial, religious and national origins are viewed from an historical and contemporary perspective with an analysis of their acculturation.

SOCIOLOGY 211: SOCIAL PROBLEMS

3 semester hours

This course provides an opportunity for the student to study current social problems within the sociological perspective. Field trips and visiting speakers will be included wherever possible to provide first hand exposure to certain of the problems. Among the problems considered may be overpopulation, famine, corruption, addictions and sexual exploitation.

SOCIOLOGY 300: SOCIOLOGICAL ANALYSIS

4 semester hours

This course examines the basic tools and perspectives used in the analysis of society. The major concepts used by sociologists, the relationship between research and theory, elementary methods of data collection, fundamental relevance of social statistics and basic empirical elements of research design will be described.

Prerequisite: any 200-level course in sociology or social welfare and sophomore standing.

SOCIOLOGY 303: SOCIAL STRATIFICATION

3 semester hours

This course is concerned with the distribution of power and privilege in a society. Various social characteristics such as occupation, education, ethnic or racial origin, age and sex are

considered as factors important in establishing rank systems and class systems in rural, suburban and urban communities.

Prerequisite: Soc. 100 or permission of department chairman.

SOCIOLOGY 306: FORMAL ORGANIZATIONS

This course analyzes the goals, functions, and consequences of modern organizations. Consideration will be given to such characteristics as bureaucratization, the role of the bureaucrat, industrial relations and organizational change. Theorists such as Weber, Roethlisberger, Blau and Etzioni will be discussed.

Prerequisite: Soc. 100 or permission of department chairman.

SOCIOLOGY 308: PENOLOGY AND CORRECTIONS

This course deals with the role of the police, the criminal and juvenile courts, the philosophy of punishment, the sociological analysis of the prison as a social system, types of institutional and community treatment, programs of prevention and methods of prediction.

Prerequisite: Soc. 100 or permission of department chairman.

SOCIOLOGY 310: METHODS OF SOCIAL RESEARCH

This course examines empirical methods of social research with prime consideration given to sociological perspectives. Emphasis may be placed on such elements as the formulation of hypotheses, methods of data collection, historical research and participant observation. Students may engage in actual field experience including instrument design and conducting surveys. Explanation and interpretation of data using descriptive statistical techniques will also be discussed.

Prerequisite: Soc. 100 or permission of department chairman.

SOCIOLOGY 312: POPULATION

Theories of population are considered with reference to its increase and decrease and to the problems of number, quality and distribution; a study of major world areas.

Prerequisite: Soc. 100 or permission of department chairman.

SOCIOLOGY 313: SOCIOLOGY OF RELIGION

Examination will be made of the basic functions and dysfunctions of the religious institution in contemporary society in the United States. The course also surveys the inter-relationships between religion and the other institutional systems, such as the economic, political and educational.

Prerequisite: Soc. 100 or permission of department chairman.

SOCIOLOGY 314: MEDICAL SOCIOLOGY

This course will deal with selected sociological aspects of health and social welfare institutions. Topics will include the influence of the social and economic environment in health and disease, and social-cultural forces affecting medicine, nursing, social services, public health and the provision of medical care. The course should be of special interest to sociology and anthropology majors, to those in the social welfare sequence, and allied health areas.

Prerequisite: Soc. 100 or permission of department chairman.

SOCIOLOGY 315: COMMUNITY

Critical analysis is made of the concept community. Historical development of human communities is studied with particular reference to the development of social institutions, their functions, structure and inter-relationships, methods of studying the community and survey of community action activities.

Prerequisite: Soc. 100 or permission of department chairman.

SOCIOLOGY 316: SOCIOLOGY OF EDUCATION

This course studies the school as one of the major institutions in contemporary society

concerned with the socialization of children (and adults). Special attention is paid to the relationships between the school and the family and the school's traditional role as a major route for social mobility in American society.

Prerequisite: Soc. 100 or permission of department chairman.

SOCIOLOGY 319: COLLECTIVE BEHAVIOR

This course analyzes collective groupings such as crowds, masses, opinion publics and social movements. It will focus on the different theoretical perspectives from which collective behavior has been approached, such as LeBon, Blumer, Smelser and Turner.

Prerequisite: Soc. 100 or permission of department chairman.

SOCIOLOGY 320: THE SOCIOLOGY OF WELFARE

An introductory course concerned with the social welfare system; the historical evolution will deal with the concept and scope of the social welfare system; the relationship of the welfare institution and the role of such factors in social change as industrialism, urbanism, automation and the human rights movement; the relationships between social welfare and other social institutions, such as the family and the role of social work as a professional activity.

Prerequisite: Soc. 100, Psych. 210 and one introductory course in either political science or economics or permission of department chairman.

SOCIOLOGY 330: DEVIANT BEHAVIOR

An examination of theoretical perspectives on the societal aspects of deviant behavior. Discussion of research on the labeling process, maintenance of the deviant role, the deviant subculture and the function of deviance in society.

Prerequisite: Soc. 300 or permission of department chairman.

SOCIOLOGY 331: HUMAN DEVELOPMENT AND SOCIAL STRUCTURE

This course will consider the development of personality within the context of the social structure. The influence of the family and the socio-cultural environment will be stressed. Contributions and convergent theoretical developments in psychology, anthropology, and sociology which bear upon the interface between the individual and the social structure will be utilized.

Prerequisite: Soc. 100 and one psychology course or permission of department chairman.

SOCIOLOGY 332: CLASSICAL SOCIOLOGICAL THEORIES

The development of sociological theory in its historical and social context is studied. The function of theory in science and in sociology is briefly examined. Critical analysis is given to the more important theories from those of Comte to the early Parsons. The major views of such theorists as Marx, Pareto, Durkheim, Mead and Weber will be studied.

Prerequisite: Soc. 100 or permission of department chairman.

SOCIOLOGY 333: CONTEMPORARY SOCIOLOGICAL THEORIES

The recent development of sociological theory in its historical and social context is studied. Critical analysis is given to such contemporary theories as those of the later Parsons, Mills, Merton, Dantendorff and Nisbet. The nature and function of theory, along with its construction and use are examined in some detail.

Prerequisite: Soc. 332.

SOCIOLOGY 350: TOPICS IN SOCIOLOGY

This course provides an opportunity to study a special area of sociology not offered by the department on a regular basis. Topics include the sociology of knowledge, sociology of small groups, political sociology, social ecology, social gerontology and sociology of sex roles.

Prerequisite: varies according to topic area.

SOCIOLOGY 360: SEMINAR IN SOCIOLOGY

This seminar provides an integrating experience of sociological theories.
Prerequisite: 18 hours of sociology, including Soc. 310 and 332.

SOCIOLOGY 360: WORKSHOP IN SOCIOLOGY

Selected problems are investigated in various formats. Credits and prerequisite vary.

SOCIOLOGY 390: INDEPENDENT STUDY

A course offered to those students who wish to undertake independent study in some area of interest in the field of sociology. The course can be in the form of a reading course or an independent research project. The structure of the course will vary. Credits vary.

Prerequisite: any two elementary and/or intermediate sociology courses plus permission of instructor and chairman of department.

SPANISH**(Department of Modern Languages)**

The general prerequisite for 200 and 300 level courses is proficiency in intermediate Spanish demonstrated through examination or through successful completion of Spanish 113 and 114 or 115 or the equivalent.

The restricted arts and sciences courses in this department are 101 and 102. All of the other courses listed below are unrestricted arts and sciences courses.

SPANISH 101: ELEMENTARY SPANISH I

This course offers a thorough study of Spanish pronunciation and grammar. It includes conversation, dictation and reading of Spanish texts, plus the acquisition of some knowledge of Spanish culture. This course is normally not open for college credit to students who have offered admissions credit in the language.

See Spanish 110.

SPANISH 102: ELEMENTARY SPANISH II

This course is a continuation of Spanish 101.

Prerequisite: Spanish 101 or one year of secondary school Spanish or permission of the department chairman.

• SPANISH 110: CONTINUING ELEMENTARY SPANISH

A concentrated one-semester course for the student who wishes to continue study of the language begun in the secondary school. In this course special emphasis is placed on aspects of culture and civilization as it relates to language development. The development of the four skills: listening, speaking, reading and writing, is stressed. Extensive use is made of the language laboratory. Not open to students who have completed Spanish 101 or 102.

Prerequisite: two years of secondary school Spanish or approval of the department chairman.

• SPANISH 113: INTERMEDIATE SPANISH

Through selected readings, the student examines the cultural and linguistic heritage of the Spanish-speaking world. This course, which includes a review of grammar, also provides for the further development and practice of the basic oral and written skills. The language for the further development and practice of the basic oral and written skills. The language laboratory is utilized. The course is open to students who have completed either Spanish 102 or 110 or three years of secondary school Spanish; or who achieved a score of 500-549 on the CEEB Achievement Test in Spanish.

• SPANISH 114: READINGS IN INTERMEDIATE SPANISH

Emphasis is placed on the development of the reading skill and of an appreciation of literature, selected from various periods and genres, for its interest as a reflection of the heritage of the Spanish people. The development of the oral skill is continued and some attention is given to written practice.

Prerequisite: achievement through the Spanish 113 level or the equivalent or permission of the department chairman.

SPANISH 115: INTERMEDIATE ORAL SPANISH

The development of oral proficiency is stressed while giving some attention to retaining written skills previously acquired. Selected periodicals, language manuals, and laboratory tapes will serve as basic materials for accomplishing assignments related to vocabulary building, correct and idiomatic diction and oral presentations.

Prerequisite: achievement through the Spanish 113 level or the equivalent, or permission of the department chairman.

SPANISH 201: CONVERSATION AND COMPOSITION

This course emphasizes the use of correct spoken Spanish on a more advanced level than is expected in the intermediate courses. Careful attention is given to the correction of pronunciation through practice in the language laboratory and elementary work in phonetics. Texts which stress Hispanic culture and civilization serve as the basis for oral and written expression.

Prerequisite: the equivalent of Spanish 114 or 115 or permission of the department chairman.

SPANISH 202: COMPOSITION AND CONVERSATION

This course emphasizes writing skills in Spanish through grammatical exercises, controlled composition, original themes and the stylistic analysis of literary texts. Class discussion of the written materials, in Spanish, provide opportunity for oral practice.

Prerequisite: the equivalent of Spanish 114 or 115 or permission of the department chairman.

SPANISH 230: THE HISPANIC WORLD, SPAIN

The geography and the political and cultural history of peninsular Spain are traced from origins to modern times. The course is taught in Spanish.

SPANISH 231: THE HISPANIC WORLD, LATIN AMERICA

The geography, the political and cultural history of Latin America are traced from the discovery to modern times. The course is taught in Spanish.

SPANISH 300: APPLIED LINGUISTICS

In this course a study is made of the meaning and nature of language and its application to the teaching of Spanish with special emphasis on planning and presentation of basic audio-lingual structures. Practical work in the language laboratory is included.

SPANISH 311: SPANISH LITERATURE OF THE MIDDLE AGES

The characteristic themes and forms of Spanish Medieval literature are studied from the *Poema del Cid* to *La Celestina*.

SPANISH 312: SPANISH LITERATURE OF THE RENAISSANCE

An examination is made of the transformation of the Medieval heritage and its fusion with the main literary and philosophical currents of the Renaissance.

SPANISH 313: GOLDEN AGE DRAMA

The development of the Spanish drama is studied from its beginnings in the Medieval period to its culmination in the works of Lope de Vega, Tirso de Molina, Ruiz de Alarcón and Calderon de la Barca.

SPANISH 314: GOLDEN AGE PROSE AND POETRY

Mysticism, the picaresque, satire and allegory are examined as literary manifestations of the spirit of the Spanish Golden Age with special emphasis on Cervantes, Quevedo and Gongora as pivotal figures in the development of literary forms.

SPANISH 315: ROMANTICISM IN SPAIN

The development and legacy of Romantic literature in Spain are considered against the background of the 18th and 19th centuries.

SPANISH 316: REALISM IN SPAIN

The development of the realistic novel and drama in Spain is studied from the costumbristas to the Generation of 1898.

SPANISH 317: THE GENERATION OF 1898 TO THE SPANISH CIVIL WAR

The development of the major branches of Spanish literature from the Generation of 1898 to about 1940 is analyzed through representative works of the period.

SPANISH 318: THE SPANISH CIVIL WAR TO THE PRESENT

The evolution of Spanish literature from 1940 to the present is studied through the work of representative writers.

SPANISH 320: APPLIED GRAMMAR

The goal of this course is facility of correct construction and grammar in speech and composition. The course involves a practical application of grammar in both oral and written forms and intensive study of construction and of idiomatic expressions.

Prerequisite: Spanish 202.

SPANISH 321: LATIN-AMERICAN LITERATURE: COLONIALISM TO MODERNISM

Latin-American literature from the colonial period to the Mexican Revolution is surveyed with special emphasis on the transformation and adaptation of European sensibilities and literary forms to the realities of the New World and the development of a distinctive literary expression of that reality.

SPANISH 322: CONTEMPORARY LATIN-AMERICAN LITERATURE

Twentieth-century manifestations of major themes of Latin-American literature are studied against their historical and social background. Attention is given to the changing view of the relationship of man to his environment, and the impact on literature of revolution and social protest, the search for cultural identity and the role of the artist and intellectual in society and art.

SPANISH 350: TOPICS IN SPANISH

The course provides an opportunity for studies of topical nature. Topics vary and are announced from semester to semester.

SPANISH 360: SEMINAR IN SPANISH

The material of this course varies from year to year, but the comprehensive pattern remains constant. The work involves intensive individual and group study of literary, philosophical, historical, political, social or aesthetic problems, the choice to be based on the students' backgrounds and interests. Each student is required to submit a major paper as a culmination of the semester's work. Topic or period for each semester will be announced in advance.

SPANISH 390: DIRECTED STUDY

The student selects a topic and undertakes concentrated research under the supervision of a faculty adviser.

Prerequisite: approval of department chairman.

SPANISH 501: STUDIES IN HISPANIC FICTION

Topics and materials for this course will be selected from significant periods or movements of the Spanish or Spanish-American novel or short story. Analysis of form and technique as well as the historical and social context of the works will be stressed. With permission of the department chairman, this course may be repeated for credit if the content of the course is not duplicated.

SPANISH 502: STUDIES IN HISPANIC ESSAY

An analysis of the essay as a literary form and its development in Spain or Spanish America are studied in this course. With permission of the department chairman this course may be repeated for credit if the content of the course is not duplicated.

SPANISH 503: STUDIES IN THE HISPANIC THEATRE

Topics and materials for this course will be selected from a major movement of Spanish and Spanish-American drama. With permission of the department chairman this course may be repeated for credit if the content of the course is not duplicated.

SPANISH 504: STUDIES IN HISPANIC POETRY

The course focuses on the definition, social function and spiritual character of poetic creation as it relates to the respective historical and artistic context of the topic under consideration. With permission of the department chairman, this course may be repeated for credit if the content is not duplicated.

SPANISH 510: STUDIES IN CERVANTES

This course will include an interpretative study of *Don Quixote* and of other works of Cervantes in connection with the historical background.

SPANISH 511: MODERNISM AND POST-MODERNISM IN SPAIN AND SPANISH AMERICA

A study is made of the most important authors and works of Modernism and Post-Modernism in Spain and Spanish America.

SPANISH 550: TOPICS IN SPANISH

The course provides an opportunity for studies of topical nature. Topics vary and are announced from semester to semester.

SPANISH 560: GRADUATE SEMINAR IN SPANISH

This course is open to only students in the graduate program. The work includes intensive individual and group study of one major author or any important period in the development of Spanish or Spanish-American literature. It is directed toward the writing of a major paper in thesis form.

SPANISH 590: DIRECTED STUDY

The student selects a topic and undertakes concentrated research under the supervision of a faculty adviser. A major paper in thesis form is required.

Prerequisite: approval of department chairman.

See also Modern Languages and Literature, page 88.

DEPARTMENT OF SPECIAL EDUCATION

Note of the courses offered by this department are arts and sciences courses.

SPECIAL EDUCATION 300: INTRODUCTION TO EDUCATION OF EXCEPTIONAL CHILDREN

This course emphasizes the educational implications of intellectual, physical and emotional differences among children. School and community adjustments for children with learning and communication problems as well as children with traditional handicapping conditions are considered. This introductory course, which includes observation experience, is required of all students in special education.

SPECIAL EDUCATION 302: EDUCATION OF MENTALLY RETARDED CHILDREN

Topics include the methods, procedures and curricula effective in the education of the mentally retarded from pre-school age to adolescence. This course includes observation and practicum experiences.

Prerequisite: Spn. Ed. 304.

SPECIAL EDUCATION 303: STUDENT TEACHING IN SPECIAL EDUCATION

5 semester hours

One quarter is spent teaching in special education programs under the joint supervision of an experienced teacher and a college supervisor. The student assumes increasing responsibility for teaching in the program to which he is assigned (emotionally disturbed, mentally retarded or neurologically impaired). Students are required to follow the calendar of the schools to which they are assigned while student teaching.

Prerequisite: appropriate special education sequence; consent of instructor; adequate health; the attainment of a cumulative index of 2.00 a full semester prior to the commencement of student teaching; the passing of all courses required prior to student teaching in the major fields and professional sequence; proficiency in the operation of audiovisual equipment and speech proficiency.

SPECIAL EDUCATION 304: PSYCHOLOGY OF EXCEPTIONAL CHILDREN

4 semester hours

This course will examine the nature of individual differences, basic theories of intelligence, learning, the techniques of behavior modification and the educational evaluation of exceptional children. This is a four credit course which includes observation-participation experiences.

Prerequisite: Spec. Ed. 300.

SPECIAL EDUCATION 306: EDUCATION OF THE NEUROLOGICALLY IMPAIRED

4 semester hours

The adaptation of educational procedures for children with neurological defects. Current practices and promising innovations are reviewed with emphasis on dealing with the associated learning problems found in children with central nervous system impairments. This course includes observation and practicum experiences.

Prerequisite: Spec. Ed. 304.

SPECIAL EDUCATION 307: EDUCATION OF THE EMOTIONALLY DISTURBED

4 semester hours

The course concentrates on methods and techniques of teaching children with emotional and social maladjustments. Particular attention is given to educational programming and behavioral alteration procedures. This course includes observation and practicum experiences.

Prerequisite: Spec. Ed. 304.

SPECIAL EDUCATION 313: CLINICAL ORIENTATION IN SPECIAL EDUCATION

3 semester hours

This course is a culminating pre-service orientation and preparation of the prospective teacher in the use of community resources and services for children with learning problems. The student is given experiences in clinical referrals, programmed instruction, prescriptive teaching and the use of educational material resources. The Learning Center at the college and off-campus special education satellite facilities become the laboratories for the conduct of this course.

Prerequisite: Spec. Ed. 303.

SPECIAL EDUCATION 300: INTRODUCTION TO EDUCATION OF CHILDREN WITH SPECIAL NEEDS

3 semester hours

Designed to provide an orientation to special education, the educational characteristics and needs of the range of exceptional children and the organizational procedures for inclusion of such children in the various school programs with particular emphasis on the integration of mildly handicapped children within regular school settings.

Prerequisite: Ed. 310, 310 or 311.

SPECIAL EDUCATION 335: TEACHING CHILDREN WITH SPECIAL NEEDS IN REGULAR SCHOOL PROGRAMS

3 semester hours

For the pre-service education major who has completed student teaching, this course is

designed to assist the teacher in the formulation of assessment and treatment strategies for the management of behavioral and academic problems of special needs children in the regular school setting.

Prerequisite: Spec. Ed. 330.

SPECIAL EDUCATION 400: NATURE OF LEARNING DISABILITIES

3 semester hours

This course reflects the various schools of thought and points of view concerning children with learning problems. Learning disabilities is considered both a distinct and separate category and as an overlapping-interrelated area with all fields of exceptionality.

SPECIAL EDUCATION 404: PSYCHOEDUCATIONAL PROCEDURES WITH EMOTIONALLY DISTURBED CHILDREN

3 semester hours

The application of learning theory to the development of individualized special education programs will be studied. Specific methods of modifying the behavior of socially and emotionally maladjusted children will be discussed. Students are required to develop and apply techniques with disturbed and maladjusted children.

Prerequisite: Spec. Ed. 302, 306, 307 or 408.

SPECIAL EDUCATION 405: TEACHING TRAINABLE MENTALLY RETARDED CHILDREN

3 semester hours

Topics include the methods, procedures and curriculum effective in the education of trainable mentally retarded children from pre-school age through adolescence.

Prerequisite: Spec. Ed. 302.

SPECIAL EDUCATION 406: ADMINISTRATIVE PROBLEMS IN THE EDUCATION OF EXCEPTIONAL CHILDREN

3 semester hours

This is an advanced course for persons interested in the administration of programs for exceptional children. Problems discussed are those facing administrators in relation to school and community planning for these children.

Prerequisite: certification in at least two areas of special education and consent of instructor.

SPECIAL EDUCATION 407: CLINIC AND LIAISON TEACHING FOR CHILDREN WITH DISTURBED BEHAVIOR

3 semester hours

Students will be exposed to procedures utilized in organizing and implementing special education resource and consultative service for emotionally disturbed children. Classroom lectures are supplemented with extensive on-the-job experience in local community mental health centers and/or public schools helping teachers program for such children.

Prerequisite: Spec. Ed. 302, 306, 307 or 408.

SPECIAL EDUCATION 408: CLINICAL METHODS IN SPECIAL EDUCATION

3 semester hours

The discussion, demonstration and application of specific teaching methods in the various fields of special education. Clinical information is gathered for the demonstration of systematic remediation based upon educational priorities.

Prerequisite: consent of instructor.

SPECIAL EDUCATION 409: LANGUAGE DEVELOPMENT AND COMMUNICATION PROBLEMS OF CHILDREN

3 semester hours

This course emphasizes the processes of language development in children. Specific techniques for enhancing language development in exceptional children are considered. The origins, nature and management of classical speech problems are also studied.

Prerequisite: Spec. Ed. 300.

SPECIAL EDUCATION 410: MEDICAL ASPECTS OF LEARNING PROBLEMS

3 semester hours

This course delineates the etiology of physical and emotional conditions as they contribute to developmental and educational handicaps. The role of the physician and the scope of medical intervention with exceptional children are explored.

Prerequisite: *Spec. Ed. 302, 306 or 307.*

SPECIAL EDUCATION 411: THE EDUCATIONALLY RETARDED ADOLESCENT

3 semester hours

The course stresses organization of school and community programs for the adolescent educable and other educationally handicapped children. Curriculum development and methods of teaching personal, occupational and social skills are emphasized.

Prerequisite: *Spec. Ed. 302, 306, 307, 309 or 408.*

SPECIAL EDUCATION 420: VARIABLES AND PRINCIPLES AFFECTING EDUCATIONAL PROGRAMS FOR THE SEVERELY AND PROFOUNDLY HANDICAPPED

3 semester hours

The intent of this course is to provide students with a delineation of the population, with an integrated model for organizing a total program, with knowledge of developmental sequences and with an awareness of existing programs for severely and profoundly handicapped persons. The basic thrust of this course will be the acquisition of a philosophical perspective and theoretical understanding necessary for educating severely and profoundly handicapped persons. Arrangements will be made for field observations.

Prerequisite: *Spec. Ed. 300 or consent of instructor.*

SPECIAL EDUCATION 421: CLINICAL ASSESSMENT AND METHODS OF INSTRUCTION FOR THE SEVERELY AND PROFOUNDLY HANDICAPPED

6 semester hours

This course is designed to provide the student with knowledge of assessment and instructional methods for the severely and profoundly handicapped. Both formal and informal assessment procedures will be examined and directly related to individual teaching strategies. Available curricula and materials will be analyzed and related to methods of changing behavior. In practice, the student will demonstrate the ability to use the information presented to establish baselines and to define behavioral objectives.

Prerequisite: *Spec. Ed. 420; consent of instructor (Access to an educational program for severely and profoundly handicapped persons for a minimum of 10 hours per week will be necessary to complete the requirements of this course).*

SPECIAL EDUCATION 422: INTERNSHIP IN EDUCATION OF THE SEVERELY AND PROFOUNDLY HANDICAPPED

6 semester hours

The intern is required to evaluate, plan for and teach severely and profoundly handicapped persons within the context of a total programming model. A seminar will occur concurrently with the internship.

Prerequisite: *Spec. Ed. 421; consent of instructor (Access to an educational program for severely and profoundly handicapped persons for a minimum of 20 contact-hours per week is necessary to complete this course).*

SPECIAL EDUCATION 423: ISSUES CONCERNING EDUCATION OF THE SEVERELY AND PROFOUNDLY HANDICAPPED

3 semester hours

This course is designed to examine recent literature and research pertinent to the education of severely and profoundly handicapped persons. The student is provided with an opportunity to critically examine and discuss trends, theoretical and philosophical issues related to the education of severely and profoundly handicapped persons.

Prerequisite: *Spec. Ed. 422.*

SPECIAL EDUCATION 424: METHODS IN EDUCATING THE BLIND/DEAF MULTI-HANDICAPPED

3 semester hours

This course is designed to examine educational methods for the blind/deaf multi-handicapped. Characteristics, learning styles, core programming areas and instructional approaches and materials for blind/deaf persons will be studied.

Prerequisite: *Spec. Ed. 300.*

SPECIAL EDUCATION 430: IDENTIFICATION AND ASSESSMENT OF SPECIAL NEEDS IN REGULAR CLASSES

3 semester hours

Designed for the regular educator in service, this course emphasizes the educational implications of differences among children from the easily describable handicap, the disadvantaged, the mildly handicapped and the gifted whose education program is undertaken within regular classes.

SPECIAL EDUCATION 431: INSTRUCTIONAL APPROACHES TO CHILDREN WITH SPECIAL NEEDS IN REGULAR CLASSES

3 semester hours

Examination of a variety of instructional approaches to children with special needs and the development of skills to meet those needs are the overall objectives of this course. It is designed for the regular educator without background in special education to become familiar with and skillful in the management and educational growth strategies for special needs of children in regular classes.

SPECIAL EDUCATION 433: COMMUNICATION WITH EXCEPTIONAL CHILDREN AND PARENTS

3 semester hours

This course is designed to examine the process of verbal and non-verbal communication, specifically as it applies to teachers, parents and exceptional children. The course has particular relevance to special education teachers as well as regular classroom teachers who work with exceptional children. A portion of the course will be devoted to field experiences.

Prerequisite: *student teaching in special education or special education certification.*

SPECIAL EDUCATION 434: EDUCATION OF PARENTS AND FAMILIES OF EXCEPTIONAL CHILDREN

3 semester hours

This course is designed to examine the problems, attitudes and roles of parents and significant persons in the lives of exceptional children and to provide special education teachers and other educators with techniques for professional and parent interaction.

Prerequisite: *student teaching or experience in the education profession.*

SPECIAL EDUCATION 440: IDENTIFICATION AND AMELIORATION OF LEARNING AND BEHAVIORAL PROBLEMS IN PRESCHOOL CHILDREN

3 semester hours

Specifically designed for teachers in preschool settings, the course deals with discrepancies in intellectual, language, affective and psychomotor development, examines both formal and informal techniques available in the assessment of developmental levels of these variables, and reviews a wide array of strategies and curricula which exist for the preschool child who manifests unique needs within the above areas.

SPECIAL EDUCATION 441: CURRICULUM AND TEACHER INTERVENTIONS FOR VULNERABLE PRESCHOOL CHILDREN

3 semester hours

This course is designed to provide day-care, nursery and kindergarten teachers with a basic knowledge of intervention models and strategies appropriate for learning and behavior problem young children. Specific emphasis will be placed on the application of appropriate strategies to on-going problems.

Prerequisite: *Spec. Ed. 440 or consent of instructor.*

SPECIAL EDUCATION 460: PRACTICUM IN THE EDUCATION OF EXCEPTIONAL CHILDREN

3 semester hours
Concentrating in his area of specialization (emotionally disturbed, learning disabilities or mental retardation) each graduate student spends a minimum of 75 hours in assigned clinical and teaching centers. This course emphasizes professional orientation and the development of observation skills. Hours to be arranged.

Prerequisite: consent of instructor.

SPECIAL EDUCATION 461: INTERNSHIP IN THE EDUCATION OF EXCEPTIONAL CHILDREN

6 semester hours
The intern is required to evaluate, plan for and teach children at several developmental levels in his/her area of specialization (emotionally disturbed, learning disabilities or mental retardation).

Prerequisite: consent of instructor.

SPECIAL EDUCATION 502: DIFFERENTIAL DIAGNOSIS AND REMEDIATION OF EDUCATIONAL PROBLEMS

3 semester hours
The role of the clinical educator is emphasized as he/she complements meaningful psycho-medical-social information with differential educational evaluations. This process will serve as the base for planning, implementing and verifying appropriate remedial measures. Graduate students are required to participate in this process as their skills permit.

Prerequisite: Spec. Ed. 408 or consent of instructor.

SPECIAL EDUCATION 550: PRACTICUM IN ADMINISTRATION OF PROGRAMS FOR EXCEPTIONAL CHILDREN

3 semester hours
Students are required to spend two full days a week in assignments. Time is spent in classes for exceptional children in public schools at state institutions, centers operated by private agencies and in occupational training centers. Students also participate in program planning with individual teachers and as supervisor-trainees in specific areas of the state. Trainees, under supervision, are responsible for the coordination of activities for exceptional children. Hours to be arranged. Consent of instructor required for admission.

SPECIAL EDUCATION 580: WORKSHOP IN SPECIAL EDUCATION

6 semester hours
Topics vary from year to year. Open only to graduate students.

THEATRE

(Department of Communications and Theatre.)

The restricted arts and sciences courses in theatre are 321, 379, 393 and 398. All of the other courses listed below are unrestricted arts and sciences courses.

THEATRE 110: APPROACHES TO THEATRE

4 semester hours
The course introduces the student to basic concepts in the study of and approaches to theatre as a medium of entertainment and aesthetics. Students will explore issues related to educational, commercial and community theatre. The course may not count toward a major in theatre.

THEATRE 205: INTRODUCTION TO THEATRE ARTS

3 semester hours
The student will be introduced to the various disciplines in theatre through a theoretical and practical point of view. The course will contain four components, including theoretical overview, modes of presentation, production and performance. A laboratory experience of 20 hours of work on a Rhode Island College theatre production is required. This course is required of all theatre majors.

THEATRE 210: FUNDAMENTALS OF TECHNICAL THEATRE

3 semester hours
This course is a study of the fundamentals of various aspects of technical theatre production. The historical development of stage scenery and its influence on modern theatre technology is explored. The student studies scene construction and handling of scenery, color and paints, the use of properties and elementary lighting and sound. A minimum of 20 hours of laboratory work is required on an actual production.

THEATRE 302: FUNDAMENTALS OF ORAL INTERPRETATION

3 semester hours
This course introduces the student to the procedures of analysis, preparation and delivery of literary selections for oral interpretation purposes. The student is concerned with the demands made by a variety of literary forms, including dramatic literature, prose and poetry. The emphasis is on experiencing and leading others to the subtleties of good literature. (same as Communications 302) It is recommended that majors enroll in Communication 220 before taking this course.

Prerequisite: Theatre 205 or permission of the instructor.

THEATRE 312: SCENE DESIGN FOR THE THEATRE

3 semester hours
In this advanced course the student studies the theory and practice of scene design and its relationship to the problems of total production. The student learns techniques of mechanical drawing, color sketching and model construction as preliminary to translating artistic concepts into practical stage scenery. Studies in the aesthetics of stage design and theatre architecture as related to major historical periods are included.

Prerequisite: Theatre 210 or permission of instructor.

THEATRE 314: COSTUME FOR THE THEATRE

3 semester hours
The theoretical and practical aspects of costuming for the theatre are covered through a lecture-laboratory format. The history of fashion and theatrical costume is studied in conjunction with basic costuming design concepts, techniques of rendering costume plates, the evolution of a stage costume, fabrics, pattern drafting and special materials. At least 20 hours of laboratory work are required.

Prerequisite: Theatre 205 or permission of instructor.

THEATRE 318: LIGHTING FOR THE THEATRE

3 semester hours
The student studies the elementary physics of light, electricity and color as they pertain to the theatre. Attention is given to the aesthetics of light and instrumentation and control of the theatre. Optimum and minimum equipment are studied. The student will be expected to design lighting plots to be carried out in practical laboratory sessions.

Prerequisite: Theatre 210 or permission of instructor.

THEATRE 316: MAKE-UP FOR STAGE, FILM AND TELEVISION

3 semester hours
The theoretical and practical aspects of make-up are covered through a lecture-laboratory format. The course is structured around application of make-up in practical class session and at least 20 hours of laboratory or theatre production. Basic character and stylized make-up categories are studied, based on an understanding of facial anatomy. Fashions in make-up, hair styles and wigs are studied. The student will be introduced to the art of mask and wig making.

Prerequisite: Theatre 205 or permission of instructor.

THEATRE 320: FUNDAMENTALS OF ACTING

3 semester hours
The student is introduced to the basic physical and psychological aspects of acting through exercises, improvisations and assigned scenes. Emphasis is placed on freeing the body and developing the powers of observation, concentration and imagination.

Prerequisite: Theater 205, Comm. 220 or permission of instructor.

THEATRE 321: ADVANCED ACTING

3 semester hours
Individual development and correction of problems is stressed in this continuation of the work begun in Theatre 320. The student is trained in techniques of character analysis and creation through scenes, criticism and coaching. Both classic and contemporary plays are used.

Prerequisite: Theatre 320 or permission of instructor.

THEATRE 325: FUNDAMENTALS OF DIRECTING

3 semester hours
Basic play interpretation, casting, rehearsal procedures and other directorial duties are covered. Techniques for achieving meaningful visual dramatization through the psychological and spatial relationships of characters are demonstrated and utilized in student-directed scenes involving problems in composition, movement, tempo and rhythm.

Prerequisite: Theatre 205, 320 or permission of instructor.

THEATRE 330: CREATIVE DRAMATICS WITH CHILDREN

3 semester hours
The course serves as an introduction to creative dramatics and provides a knowledge and appreciation of creative drama as a process in fostering creative expression with children. Through a study of various theories combined with observation, practice and demonstrations of creative movement, dramatic play and story dramatization, the student explores the uses of improvised drama in the classroom.

THEATRE 335: THEATRE FOR CHILDREN

3 semester hours
This course involves the selection and preparation of scripts, casting, rehearsing, producing and the presentation of plays for audiences of children.

THEATRE 340: HISTORY OF THE THEATRE I

3 semester hours
The development of the physical theatre and dramatic art is correlated from classical Greece to the French Renaissance, providing the student with a knowledge of the rise and development of the theatre as an institution. Relationships to the other arts and to the social environment of the various periods are also explored.

THEATRE 341: HISTORY OF THE THEATRE II

3 semester hours
This is a continuation of Theatre 340, encompassing drama and theatre arts from 1660 to the present.

THEATRE 379: THEATRE INTERNSHIP

9 semester hours
This program is designed to enable the student to gain a more comprehensive understanding of professional theatre through on-the-job training. It offers professional instruction, supervision and practice in the various areas of Trinity Square Repertory Company's operation. The student may concentrate in theatre management, costuming, lighting, properties, scene design and construction, stage management, directing or acting. The intern will be expected to work full-time with Trinity Square Repertory Company. Application must be made one semester prior to the period of internship. Open only to theatre majors who are seniors or second semester juniors.

THEATRE 390: INDEPENDENT STUDY IN THEATRE

3 semester hours
The student selects an area for concentrated study under the supervision of a department faculty adviser. The course could involve creative work accompanied by a written analysis or scholarly research culminating in a thesis paper. May be taken not more than twice. A student may not take more than nine semester hours in any combination of Theatre 390, 391 and 460.

Prerequisite: successful completion of 12 semester hours in theatre courses and permission of instructor.

THEATRE 391: SPECIAL PROBLEMS IN THEATRE

3 semester hours
The student selects with the aid of a faculty adviser a practicum-oriented problem on which to concentrate for the semester. The course will consist of periodic conferences

between student and adviser, a tangible project and a written report of the procedures followed in accomplishing the project. May be taken not more than twice. A student may not take more than nine semester hours in any combination of Theatre 390, 391 and 460.

Prerequisite: successful completion of 12 semester hours in theatre and permission of instructor.

THEATRE 393: SPECIAL PROBLEMS IN DESIGN

3 semester hours
The student with the aid of a faculty adviser selects a design project or problem on which to concentrate for the semester. The course will include periodic conferences between student and adviser, a tangible project and a written report of the procedures followed in accomplishing the project.

Prerequisite: Theatre 210 or its equivalent and permission of instructor.

THEATRE 396: SPECIAL PROBLEMS IN DIRECTING

3 semester hours
The student with the aid of a faculty adviser selects a directing project or problem on which to concentrate for the semester. The course will include periodic conferences between student and adviser, a tangible project and a written report of the procedures followed in accomplishing the project.

Prerequisite: Theatre 325 or its equivalent and permission of instructor.

THEATRE 419: THEATRE MANAGEMENT

3 semester hours
In the context of the history of theatre management, the course focuses on the effective administration of a theatre arts program. The student explores the problems involved in organizing and publicizing a theatre season and in the coordination and administration of theatre staff, budget and facilities.

Prerequisite: permission of department chairman.

THEATRE 440: DRAMATIC CRITICISM

3 semester hours
An intensive analysis is made of the theatrical qualities and aesthetic theories which create the experience of theatre. Dramatic criticism, style and content of plays representing major periods in the continuing evolution of theatre are examined in light of their contribution to theatrical experience.

THEATRE 460: SEMINAR IN THEATRE

3 semester hours
This course is designed to provide the student with an opportunity to explore in depth an area in Theatre, pursuing investigations into specialized problems or theories. May not be taken more than twice. A student may not take more than nine semester hours in any combination of Theatre 390, 391 and 460. Required of all theatre majors and designed for seniors who have completed at least 24 semester hours in theatre and for graduate students.

Prerequisite: successful completion of 22 semester hours in theatre and permission of instructor.

THEATRE 480: WORKSHOP IN THEATRE

Selected topics are investigated in various formats. Credits and prerequisite vary.

URBAN EDUCATION

See Education course listings, page 30.

URBAN STUDIES

All of these courses are unrestricted arts and sciences courses.

INTERDEPARTMENTAL COURSE 321: FIELD EXPERIENCE IN**URBAN STUDIES**

3 semester hours
The student will be assigned to an agency concerned with applied aspects of urban studies. The course will be under the joint supervision of the agency and the college. In addition to the field experience, the course will meet at designated times in order to provide an

opportunity for students to discuss their individual experiences and relate them to the principles and concepts of urban studies. It is recommended that the student take this course in the seventh semester.

Prerequisite: permission of the coordinator of urban studies.

INTERDEPARTMENTAL COURSE 350: TOPICS IN URBAN STUDIES

3 semester hours

Special topics in urban studies will be examined. A student may repeat this course with a change in content. Topics are to be designated each time the course is offered.

INTERDEPARTMENTAL COURSE 362: SEMINAR IN URBAN STUDIES

3 semester hours

This course is a culminating experience offering an opportunity to interpret ideas from previous learning experiences and to develop new perspectives on urban studies by research and reporting in a seminar format. It is recommended that the student take this course in the eighth semester.

Prerequisite: Interdepartmental Course 321.

VOCATIONAL EDUCATION

(Department of Industrial Education)

None of the courses offered by this department are arts and sciences courses.

These courses are limited to persons enrolled in the Bachelor of Science in vocational-industrial education program.

VOCATIONAL EDUCATION 300: METHODS OF TEACHING INDUSTRIAL SUBJECTS

3 semester hours

Current methods and techniques of teaching industrial shop and class work for effective instruction are discussed. The course is designed for teachers who are preparing for certification or a Bachelor of Science in Vocational-Industrial Education.

VOCATIONAL EDUCATION 301: HISTORY, PRINCIPLES AND PRACTICES OF INDUSTRIAL EDUCATION

3 semester hours

The development and growth of technical, trade and industrial education in America are considered. Attention is given to certain European influences. The course acquaints students with the place and practices of trade and industrial education. It familiarizes them with the fundamental principles upon which this work is based.

VOCATIONAL EDUCATION 302: OCCUPATIONAL ANALYSIS AND COURSE CONSTRUCTION

3 semester hours

Present methods of analyzing occupations for the purpose of determining teaching content are considered. An analysis is made for all or part of an occupation. The use of frequency charts in determining instructional order is considered. Operational and related information items of the occupation or activity are isolated and broken down for instructional purpose. Methods for developing these items into courses are presented and instruction sheets are written.

VOCATIONAL EDUCATION 303: SHOP ORGANIZATION AND MANAGEMENT

3 semester hours

This course is designed to train industrial education teachers in organizing and managing shop instruction, handling supplies, maintaining equipment and tools, purchasing materials, keeping records, making inventories and meeting the other problems of setting up and operating shop instruction courses. Concerns for shop safety procedures are appropriately treated in each section. A study is made of shop plans, layouts and pupil personnel organizations.





