880. Proseminar for Master's Degree Candidates
Fall, Winter, Spring, Summer. 3(3-0)
Individual scholarly work under guidance.

885. Studies in the History of Literary Criticism
Fall, Winter, Spring, Summer. 3(3-0)
The history of literary criticism.

886. Studies in Modern Criticism
Fall, Winter, Spring, Summer. 3(3-0)
Continuation of 885.

889. College Teaching of English
Fall, Winter, Spring. 1 to 3 credits.
May re-enroll for a maximum of 3 credits.
Supervised teaching of college classes in English language and literature.

890. Practicum in English Language and Literature
Fall, Winter, Spring, Summer. 2 to 6 credits.
Supervised graduate practitioners, observations, internships in the teaching of English language and literature.

895. Graduate Practicums in English Literature
Fall, Winter, Spring, Summer. 3(3-0)
Supervised teaching of college classes in English language and literature.

899. Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

902. Comparative Literature: Studies in Form and Genre
Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits. Interdepartmental with the German and Russian and Romance Language Departments. Development and interrelationships of individual and collective forms and genres of literatures of the Western world, including the drama, tragedy, the novel, the short story, the theory and forms of poetry, popular literature, and the tale.

903. Comparative Literature: Studies in Periodization
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits. Interdepartmental with the German and Russian and Romance Language Departments. Analysis of the manner in which various genres, conventions and continuing traditions of literature interact with the creative and critical climates of particular periods and movements, such as classicism, the Middle Ages, the baroque, or Romanticism, in qualifying or modifying characteristic literary works.

904. Studies in Influence
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits. Mutual influences of the English, Romance and Germanic literatures in general and in terms of specific authors and literary kinds, together with studies of the intermediaries of transmission, translations and sources.

910. Studies in English Drama
Fall of odd-numbered years. Winter and Spring of even-numbered years. 3(3-0) May re-enroll for a maximum of 9 credits.

912. Studies in Shakespeare
Winter of odd-numbered years. 3(3-0)
To receive credit, both 940 and 941 must be completed satisfactorily.

930. Studies in English Drama
Fall of odd-numbered years. Winter and Spring of even-numbered years. 3(3-0) May re-enroll for a maximum of 9 credits.

932. Studies in Shakespeare
Winter of odd-numbered years. 3(3-0)
To receive credit, both 940 and 941 must be completed satisfactorily.

941. Studies in Shakespeare
Spring of odd-numbered years. 3(3-0)
To receive credit, both 940 and 941 must be completed satisfactorily.

970. Graduate Reading Course
Fall, Winter, Spring. 1 to 3 credits. Approval of department. Supervised reading course in English and American literature for Ph.D. candidates.

980. Studies in English Language
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits.
The English language from the viewpoint of historical problems, literary analysis and pedagogical implications.

981. Seminar: Earlier English Literature
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits.
Special problems in English literature, beginnings to 1800.

982. Seminar: Later English Literature
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits.
Special problems in English literature, 1800-1900.

983. Seminar: American Literature
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits.
Special problems in American literature, beginnings to 1900.

984. Seminar: Twentieth Century Literature
Winter, Spring. 3(3-0) May re-enroll for a maximum of 6 credits.
Special problems in English and American literature, 1900 to the present.

985. Seminar: Special Studies in Literary Form and Theory
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits.
Forms, genres, and movements.

986. American Literature and Culture
Fall, Winter. 3(3-0)
American literature in a cultural context, drawing upon popular and fine arts, the history of ideas, the history of social movements.

987. Seminar: Special Topics in Comparative Literature
Spring. 3(3-0) May re-enroll for a maximum of 9 credits. Advanced graduates, Interdepartmental with the departments of Romance Languages and German and Russian and administered by the Romance Languages Department.

999. Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

ENTOMOLOGY

301. General Entomology
Fall, Spring. 3(3-0) B S 211 and 212 recommended. Biological relationships of insects. Insect behavior, ecology, and classification. Metamorphosis and development of insects.

302. General Entomology Laboratory
Fall, Spring. 2(0-6) 301 or concurrently. Experiments in morphology, physiology, behavior of insects. Populations and classification of major groups.

337. Forest and Shade Tree Entomology
Fall. 4(3-2) Three terms of Natural Science.
Provides an understanding of significance and nature of insect injury to forest and shade trees, based upon morphology, physiology, biology and taxonomy of insect and host. Analyzes biological, chemical, cultural and silvicultural approaches to insect control in order to equip student with competence to carry out survey and action program assignments.

401. Problems
Fall, Winter, Spring, Summer. 1 to 6 credits. May re-enroll for a maximum of 12 credits. Approval of department. Advanced individual work on a field or laboratory research problem or a study of published literature on a selected topic.

404. Field Entomology
Summer. 6 credits. One year of zoological science or teaching major in general science or approval of department. Given at W. K. Kellogg Biological Station.
Basic field survey in entomology. Emphasis on the biology, collection and identification of insects common to the Gull Lake Biological Station area.

410. Apiiculture and Pollination
Spring. 3(3-3) Biology of the honey bee and some of the wild bees. Relationships between bees and flowering plants. Value of bees in crop pollination. Introduction to management with visits to the University apiary.

411. Seminar
Fall, Winter. 1(1-0) Majors or approval of department.
Reports by students, faculty, and representatives of the profession, with emphasis on current problems not covered in regular college subjects.

418. Systematic Entomology
Winter. 4(1-0) 301, 302.
General taxonomic course to acquaint the student with the various groups of insects.

420. Aquatic Insects
Fall. 4(2-4) 301, 302.
Biology, ecology and systematics of aquatic insects.

421. Stream Ecology
Summer. 3 credits. 420 or approval of department. Given at W. K. Kellogg Biological Station.
An in-depth examination of stream ecosystems—physical, chemical and biological aspects. Field work will be conducted on local streams. Laboratory exercises will involve manipulations necessary for the determination of population energy budgets, with special emphasis on aquatic insects.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>430</td>
<td>Economic Entomology</td>
</tr>
<tr>
<td>435</td>
<td>Taxonomy of Immature Insects</td>
</tr>
<tr>
<td>430</td>
<td>Morphology of Internal Structure of Insects.</td>
</tr>
<tr>
<td>430</td>
<td>Recognition, Life Histories, Behavior, Ecology, and Integrated Control of Insect Economic Importance</td>
</tr>
<tr>
<td>440</td>
<td>External Morphology of Insects</td>
</tr>
<tr>
<td>440</td>
<td>Morphological Concepts of External Skeletal Parts of Insects.</td>
</tr>
<tr>
<td>441</td>
<td>Internal Morphology</td>
</tr>
<tr>
<td>450</td>
<td>Insect Physiology</td>
</tr>
<tr>
<td>460</td>
<td>Medical Entomology</td>
</tr>
<tr>
<td>470</td>
<td>Introductory Nematology</td>
</tr>
<tr>
<td>480</td>
<td>Insects in Relation to Plant Diseases</td>
</tr>
<tr>
<td>490</td>
<td>Topics in Entomology</td>
</tr>
<tr>
<td>500</td>
<td>Advanced Taxonomy</td>
</tr>
<tr>
<td>511</td>
<td>Ecology of Aquatic Insects</td>
</tr>
<tr>
<td>520</td>
<td>Analytical Techniques for Biological Compounds</td>
</tr>
</tbody>
</table>

830. Insect Ecology
- Spring of odd-numbered years. (3-2-3)
- Approval of department. Insects and various invertebrates in relation to their environment. Factors affecting populations, behavior, and distribution. Application of basic ecological principles to integrated control measures.

820. Insect Biochemistry
- Spring of even-numbered years. (4-0-0)
- Approval of department. Insect biochemistry and the biochemistry of development in insects; stresses biochemical differences between insects and higher animals.

830. Insect Physiology
- Winter of odd-numbered years. (3-0-3)
- Approval of department. Comparative physiology of insects with histological and biochemical aspects of organs and organ systems.

840. Insect Toxicology
- Winter of odd-numbered years. (5-3-0)
- Approval of department. Chemical and physical properties of insecticides, relationship of chemical structure to mode of action, and physiological basis of toxicological action.

851. Insect Physiology Laboratory
- Winter. (2-0-6) 450 or concurrently. Selected physiological systems in insects.

851. Advanced Stream Ecology
- Summer. (2-0-6) 830 or concurrently. Stream ecosystem energy budget models with emphasis on individual projects involving both laboratory and field experiments. Particular use will be made of artificial streams and locally abundant species of aquatic insects.

909. Research
- Fall, Winter, Spring, Summer. Variable credit. Approval of department.

999. Research
- Fall, Winter, Spring, Summer. Variable credit. Approval of department.

FAMILY AND CHILD SCIENCES

145. The Individual, Marriage and the Family
- Fall, Winter, Spring. (4-0-0) Freshmen or Sophomores or approval of department. Emphasis on the identification and quantification of biologically active compounds. Emphasis on spectroscopy and gas-liquid chromatography.

245. Children, Youth and the Family
- Fall, Winter, Spring. Summer of odd-numbered years. (3-0-0) Sophomores, SOC 241. Focuses on family system. Stages of family development include childbearing through lausuching. Interaction of parent, children, and societal forces, particularly in middle childhood and adolescent stages emphasized.

262A. Child Growth and Development: Conception Through Early Childhood
- Fall, Winter, Spring. Summer of odd-numbered years. (3-0-3) A biological science or philosophy course and SOC 241; ED 200 or PSY 160 or 170. Physical, cognitive, social, and emotional aspects of human growth and development from conception through early childhood.

262B. Child Growth and Development Laboratory
- Fall, Winter, Spring. Summer of odd-numbered years. (1-0-3) 262A concurrently or approval of department. Observation of human development in infants and young children.

364. Interacting with Young Children in Child Development Centers
- Fall, Winter, Spring. (3-2-3) 262A and 262B or PSY 245.

369. Learning Activities for Early Childhood Programs

*Name changed November 1, 1968. Formerly Home Management and Child Development.
†Name changed July 1, 1970. Formerly College of Home Economics.