Students must enroll in and complete ENG 095, American Thought and Language requirement.

092. English for Foreign Students—Speaking and Listening

093. English for Foreign Students—Language Laboratory

094. English for Foreign Students—Reading

095. English for Foreign Students—Writing

101. Responses Through Writing
Fall. 4(4-0) Arts and Letters Freshmen only. Students must enroll in and complete ENG 102 satisfactorily to make a substitution for the American Thought and Language requirement. A writing workshop that concentrates on the students' personal writing voice and on their responses to the things people, and institutions central to their experience.

102. Writing and Composing
Winter. 3(5-0) ENG 101; Arts and Letters Freshmen only. A continuation of ENG 101 that develops the emphasis of ENG 101 and encourages students to write in more public and objective forms—narrative, critical analysis, and issue-oriented essays.

104. Writing for Science Majors
Fall. 3(3-0) Satisfactory grade in English proficiency exam; College of Natural Science majors. Interdepartmental with the Department of American Thought and Language.

201. Nature of Language
Fall, Winter, Spring, Summer. 3(3-0) Various aspects of language—phonology and orthography; morphology; semantics and the lexicon; syntax; and dialects—with special reference to American English.

204. Forms of Literature: Fiction
Fall, Winter, Spring, Summer. 3(3-0) Open to Freshmen.

205. Introduction to Shakespeare
Fall, Winter, Spring, 3(3-0) Not applicable to major or minor requirements. A study of selected plays illustrating the powers of England's greatest writer.

207. Forms of Literature: Drama
Fall, Winter, Spring, Summer. 3(3-0) Open to Freshmen.

208. Forms of Literature: Poetry
Fall, Winter, Spring, Summer. 3(3-0) Open to Freshmen.

210. Introduction to the Study of Literature I
Fall, Winter. 4(4-0) English majors or prospective English majors.

211. Introduction to the Study of Literature II
Descriptions — English of Courses

302. Introduction to English Language Studies
Fall, Winter, Spring, Summer. 4(4-0)
The English language, including such topics as social and regional dialects, sounds, grammar, usage, psycholinguistics and semantics. Attention is given to practical applications.

303. Grammar and Usage
Winter, Spring, 4(4-0) Completion of the ATL requirement or approval of department.

310. Writing for Prelaw Students
J M 310. Fall, Winter. 4(4-0) ENG 213 or approval of department.
Provides a step-by-step process for organizing and writing a legal argument. Emphasizes a logical, clear, and persuasive style.

311. Literature and the Adolescent
Winter, Spring. Summer of even-numbered years. 4(3-4) Sophomore English Education majors or minors and 5 credits of literature or written approval of department.
Extensive reading of literature appropriate for secondary school students. Discussion of formal literature programs in relation to student's reading needs. Methods of analyzing literature and establishing common and individualized reading programs. Will participate in field experiences.

312. English Field Experience Internship
Fall, Winter, Spring. Summer 1 to 5 credits. May reenroll for a maximum of 10 credits. Juniors, approval of instructor. Supervised field experience in English.

313. Scientific Writing
Winter, Spring. 4(4-0) Science students or students with considerable background in the natural sciences.
Writing of papers, reports and essays.

314. Playwriting
Winter, Spring. 4(4-0) May reenroll for a maximum of 8 credits. Written approval of instructor.
Basic elements of playwriting: dramatic action, exposition, plotting, characterization, dialogue, mood, and visual effects. Class work will also include discussion of plays.

315. Advanced Fiction Writing
Fall, Spring. 4(4-0) May reenroll in ENG 328 and/or ENG 329 for a maximum of 12 credits. ENG 228B and written approval of instructor based on manuscripts submitted.
Advanced work in the writing of fiction. Classes and individual conferences.

316. Advanced Poetry Writing
Winter, Spring. 4(4-0) May reenroll in ENG 328 and/or ENG 329 for a maximum of 12 credits. ENG 228B and written approval of instructor based on manuscripts submitted.
Advanced work in the writing of poetry. Classes and individual conferences.

317. Composition for Secondary English Teachers
Fall, Winter. Summer of odd-numbered years. 4(3-4) Sophomore English Education majors or minors or written approval of department.
Writing practice in various modes such as personal narrative and description, the familiar essay, drama, poetry, and fiction. Exercises in creative dramatics. Discussion of the process of composing and the teaching of oral and written composition in junior and senior high schools. Will participate in field experiences.

320. Afro-American Literature I
Fall. 4(4-0) Sophomores.
Chronological survey of the literature and historical experience of Black America from the African oral tradition to Reconstruction. Literary texts complemented by readings in history, politics, and culture. Several film screenings.

321. Afro-American Literature II
Winter. 4(4-0) Sophomores.
Chronological survey of the literature and historical experience of Black America from Reconstruction to the present. Literary texts complemented by readings in history, politics, autobiography. Several film screenings.

322. English Literature I
Fall. 4(4-0) Sophomores.

323. English Literature II
Winter. 4(4-0) Sophomores.
Survey of English literature, Milton to Blake. Major representative writers and literary forms of the specified period.

324. English Literature III
Spring. 4(4-0) Sophomores.
Survey of English literature, Blake to Hardy. Major representative writers and literary forms of the specified period.

325. World Literature in English
Fall. 3(3-0) Interdepartment with Linguistics and Oriental and African Languages.
Representative works, not from England or the United States, which were written originally in English, especially the English literature of present or former British Commonwealth nations, and nations from the Middle East and Africa.

326. Genres and Themes in World Literature
Spring. 3(3-0) Interdepartment with Linguistics and Oriental and African Languages.
Work will center each term around a single literary genre, type or theme. Typical examples: The Quest, Literature of Revolt, Satire. Literary examples will be selected from several national literatures.

327. African Literature in English
Spring of odd-numbered years. 3(3-0) Sophomores.
Contemporary African literature written in English, including novels by Soyinka, Achebe, Ngugi, Arimah, La Coma, and Ekwenzi; plays and poetry by Clark, Huchinson, Nkosi, Henshaw, Okara, Awooner, Okigbo, and others.

328. Canadian Literature and Culture
Spring. 4(4-0) May reenroll for a maximum of 9 credits. Sophomores.
Canadian literature and culture in bicultural, historical and contemporary contexts.

329. Classic Myths and Literature
Fall, Winter, Spring. Summer of even-numbered years. 3(3-0) Sophomores.
Greek myths that have been woven into later poetry, fiction, drama, painting, sculpture, and music.

330. Afro-American Literature
Fall, Winter. 3(3-0) Sophomores.
Survey of Afro-American literature, including topics such as the oral tradition, the slave narrative, the Negro poet, and the Harlem Renaissance. Will participate in field experiences.
381. Masterpieces of English Literature  
Fall, Winter, Spring, Summer. 3 credits. Sophomores. Not applicable to major or minor requirements.  
Selected masterpieces of English literature.

382. Masterpieces of Contemporary Literature  
Fall, Winter, Spring, Summer. 3(3-0)  
Sophomores. Not applicable to major or minor requirements.  
Selected masterpieces of contemporary literature.

389. Perspectives on Literature and English Language  
Fall, Winter, Spring, Summer. 4(4-0)  
May reenroll for a maximum of 12 credits if different topics are taken. Sophomores.  
A rich variety of perspectives on literature and English language for majors and non-majors. Approach and content differs with each section.

400. Tutorial  
Fall, Winter, Spring. 1 to 5 credits. May reenroll for a maximum of 10 credits. Approval of department.  
Reading, discussion, and writing under the guidance of a faculty member.

400I. Honors Work  
Fall, Winter, Spring. 1 to 5 credits. May reenroll for a maximum of 10 credits. Approval of department. Honors College advisor.

403. The Development of Modern English  
Winter. 4(4-0). Sophomores.  
Historical development of the language; native and foreign elements; changes in inflections, pronunciation, vocabulary, meaning.

404. American English  
Spring. 4(4-0). Sophomores.  
Characterize American dialects, standard and non-standard, with analysis of usage and explanations of origins and differences.

407. Methods of Teaching English as a Second Language  
Fall. 4(4-0) ENG 302 or ENG 402 or approval of department.  
Survey and demonstration of theories, methods and techniques for teaching English, both here and abroad, to school age children and adults who are not native speakers of English.

408C. Problems in the Teaching of Reading  
Fall, Winter, Spring. 4(3-4). ENG 408B.  
Instruction and independent work in developing junior and senior high school reading programs. Will participate in field experience.

410. Chaucer  
Fall, Winter, Spring. 4(4-0). Juniors, 8 credits of literature.  
Chaucer's poetry, especially 'The Canterbury Tales'. Read in Middle English.

411. Spenser  
Spring. 4(4-0). Juniors, 8 credits of literature.  
A representative selection of Spenser's poetry with special emphasis on 'The Faerie Queene'.

412. Milton  
Winter, Spring. 4(4-0). Juniors, 8 credits of literature.  
Milton's prose and poetry, especially 'Paradise Lost'.

421. Shakespeare: Representative Plays  
Fall, Winter, Spring, Summer. 4(4-0). Juniors, 8 credits of literature.  
Plays chosen to represent the different periods of Shakespeare's career and the genres in which he wrote.

422. Shakespeare: Advanced Study  
Spring. 4(4-0) ENG 421 or ENG 426B or approval of instructor.  
Intensive study of particular plays, poems, genres, or issues.

423. Writing: Style and Technique  
1 M 410. Winter, Spring. 4(4-0) ENG 213 or approval of department.  
Intensive individual and seminar instruction in advanced composition.

424. Conference Course in Advanced Writing  
Fall, Winter, Spring, Summer. 1 to 5 credits. May reenroll for a maximum of 10 credits. Written approval of instructor based on manuscripts submitted.  
Intended for the student ready to pursue an advanced project in writing. Individual conferences.

425. Writing as a Profession  
Spring. 4(4-0). At least one creative writing course or approval of department.  
Discussion of many questions and problems experienced by students interested in professional writing. A variety of panels and lectures by people who know the field.

426A. Comparative Drama  
Fall. 3(3-0). Juniors, 8 credits of literature.  
Studies in the development of drama: classical and medieval.

426B. Comparative Drama  
Winter. 3(3-0). Juniors, 8 credits of literature.  
Studies in the development of drama: Renaissance and seventeenth century.

426C. Comparative Drama  
Spring. 3(3-0). Juniors, 8 credits of literature.  
Studies in the development of drama: neoclassical and romantic.

426D. Comparative Drama  
Winter. 3(3-0). Juniors, 8 credits of literature.  
The development of drama: Ibsen to World War II.

426E. Comparative Drama  
Spring. 3(3-0). Juniors, 8 credits of literature.  
The development of drama: World War II to the present.

431. Writing the Research Report  
Fall. 4(4-0) ENG 213 or approval of department.  
Advanced methods and organization of written research reports will be taught by providing examples, exercises, and writing practice based on research submitted by the students.

436. Comparative Fiction  
Fall. 3(3-0). May reenroll for a maximum of 9 credits. Juniors, 8 credits of literature.  
Types of narrative and fiction in various literatures and periods. Specific course content varies each term.

439. Twentieth Century British Poetry  
Winter. 4(4-0). Juniors, 8 credits of literature.  
Special emphasis on Hopkins, Hardy, Yeats, Auden and Thomas.

441. American Literature: Colonial and Revolutionary Period  
Fall. 4(4-0). Juniors, 8 credits of literature.  
Works of such writers as Bradstreet, Equiano, Franklin, French, Taylor, Wheatley, and others.

442. American Literature: Early Romanticism  
Winter. 4(4-0). Juniors, 8 credits of literature.  
Works of such writers as Cooper, Emerson, Fuller, Irving, Poe, Thoreau, and others.

443. American Literature: Later Romanticism  
Spring. 4(4-0). Juniors, 8 credits of literature.  
Works of such writers as Dickinson, Douglass, Hawthorne, Melville, Stowe, Whitman, and others.

446. American Literature: Realism and Naturalism  
Fall, Winter, Spring. 4(4-0). Juniors, 8 credits of literature.  
Rise and development of realism and naturalism as exemplified in the works of such writers as Chaucer, Chirpin, Dreiser, James, Robinson, Twain, Wharton, and others.

447. Twentieth Century American Fiction  
Fall, Winter, Spring, Summer. 4(4-0). Juniors, 8 credits of literature.  
Works of such writers as Cather, Faulkner, Fitzgerald, Hemingway, Wright, and others.

448. Twentieth Century American Poetry  
Fall. 4(4-0). Juniors, 8 credits of literature.  
Works of such writers as Eliot, Frost, H.D., Hughes, Pound, Stevens, and others.
Descriptions — English of Courses

452. Contemporary British Literature
Fall. 4(4-0) Juniors, 8 credits of literature.
Contemporary British fiction, drama, poetry; such writers as Sillitoe, Powell, Murdoch, Cabanne, Fowles, Larkin, and others.

453. Contemporary American Poetry
Spring. 4(4-0) Juniors, 8 credits of literature.
American poetry from WW II to present; such writers as Foehlke, Lowell, Plath and others.

454. Contemporary American Fiction
Winter. 4(4-0) Juniors, 8 credits of literature.
American fiction from WW II to present; such writers as Mailer, Ellison, Barth, Updike, O’Connor, Pynchon, and others.

455. Literature of the Early Renaissance
Winter of odd-numbered years. 4(4-0) Juniors, 8 credits of literature.
Poetry, prose and non-Shakespearean drama of the sixteenth century.

456. Literature of the Later Renaissance
Spring of even-numbered years. 4(4-0) Juniors, 8 credits of literature.
Some of the major literary works of 1600-1660.

460. The Age of Dryden and Pope
Fall. 4(4-0) Juniors, 8 credits of literature.
Literature of the Restoration and early eighteenth century, 1660-1744: Dryden, Pope, Swift, and others.

462. The Later Eighteenth Century
Spring. 4(4-0) Juniors, 8 credits of literature.
Fiction, other prose, and poetry from the mid-century to the early romantics.

465. The English Romantic Period
Fall. 4(4-0) Juniors, 8 credits of literature.
The beginnings of romanticism; Blake, Wordsworth and Coleridge.

466. The English Romantic Period
Winter. 4(4-0) Juniors, 8 credits of literature.
Continuation of ENG 455.

467. Language and Culture
Fall. Spring. 4(4-0) Approval of department, Interdepartmental with and administered by the Department of Anthropology.
A survey exploring the interconnectedness of language and culture. Special areas to be emphasized include: Child Language Learning; Linguistic and Cultural Contact Phenomena; ‘Specialized’ Languages, such as Cant, Argot, Trade Jargon, Lingua Franca; ‘Hybridization’ and ‘Substratum’; Language and Cultural Change; a brief examination of Theories of Origins and of the Sapir-Whorf Hypothesis.

468. Nature of Myth
Winter. 3(3-0) Juniors, 8 credits of literature.
Myth in some of its theoretical aspects, with special reference to the mythical character of literature.

471. Victorian Studies
Spring. 4(4-0) Juniors, 8 credits of literature.
Selected readings from poets and essayists of the Victorian period.

477A. Comparative Epic
Fall. 4(4-0) Juniors, 8 credits of literature.
Two epics will be considered: ‘Odysse’ and the ‘Book of Job’.

477B. Comparative Epic
Winter. 3(3-0) Juniors, 8 credits of literature.
Two epics will be considered: Dante’s ‘Inferno’ and Milton’s ‘Paradise Lost’.

477C. Comparative Epic
Spring. 3(3-0) Juniors, 8 credits of literature.
Two epics will be considered: ‘Beowulf’ and the ‘Song of Roland’.

479. Classical Christian Contributions to Literary Tradition
Spring of odd-numbered years. 3(3-0) Juniors, 8 credits of literature.
Development and influence of the ideas, forms, and motifs of the ancient world and Christianity in literature of the world.

480. Literary Criticism: Theory and Practice
Fall. 4(4-0) Juniors, 8 credits of literature.
A survey of literary theory; critical and historical approaches to literature.

481. Modern Critical Theory
Winter. 4(4-0) Juniors, 8 credits of literature.
An examination of the principal modern theories of literary criticism.

484. Literature and Psychology
Spring. 4(4-0) Juniors or approval of department, Interdepartmental with the Department of Psychology.
An application of psychological theory to the study of literature and an exploration of the ways in which literature enriches the theory which helps to illuminate it.

485. The English Novel Through the Eighteenth Century
Fall. 4(4-0) Juniors, 8 credits of literature.
Study of such writers as Richardson, Fielding, Smollett, Sterne, Austen, and others.

486. The English Novel in the Nineteenth Century
Winter. Spring. 4(4-0) Juniors, 8 credits of literature.
Study of such writers as Scott, Dickens, Thackeray, Eliot, Hardy and others.

487. The Modern English Novel
Fall, Winter. Spring. 4(4-0) Juniors, 8 credits of literature.
Study of such writers as Conrad, Ford, Joyce, Woolf, and others.

491H. Studies in Period
Winter of odd-numbered years. 4(4-0) May reenroll for a maximum of 8 credits. To receive credit, both ENG 491H and ENG 492H must be completed satisfactorily. Juniors, 8 credits of literature, approval of departmental Honors College adviser.
A two-term study of specific writers in relation to their age is provided by ENG 491H and ENG 492H.

492H. Studies in Period
Spring of odd-numbered years. 4(4-0) May reenroll for a maximum of 8 credits. To receive credit, both ENG 491H and ENG 492H must be completed satisfactorily. Juniors, 8 credits of literature, approval of departmental Honors College adviser.
A two-term study of the conventions and techniques of a specific literary genre.

494H. Studies in Genre
Spring of even-numbered years. 4(4-0) May reenroll for a maximum of 8 credits. To receive credit, both ENG 493H and ENG 494H must be completed satisfactorily. Juniors, 8 credits of literature, approval of departmental Honors College adviser.
An intensive study of some particular author, theme, problem or other critical topic.

497H. Senior Honors Essay
Fall, Winter, Spring. 4 to 10 credits. May reenroll for a maximum of 10 credits. Seniors and approval of departmental honors adviser.
A substantial piece of writing under the direction of selected faculty.

498. Topics in Comparative Literature
Fall, Winter, Spring. 3(3-0) or 4(4-0) May reenroll for a maximum of 12 credits if different topics are offered. Interdepartmental with German and Russian, and Romance Languages. Administered by Romance Languages. Varying topics on relationships among writers, genres, movements and periods in different national literatures, and between literature and other arts.

499. Senior Seminar
Spring. 4(4-0) Seniors, 8 credits of literature.
Intensive work in an area, problem or author. Students will work closely with the instructor in the preparation and evaluation of substantial research or critical papers.

The content of certain courses on both the 900-level and the 990-level may change from term to term, making possible a wide variety of course offerings. Students may enroll in such courses with authorized reenrollment provisions for more than one term or in more than one section during the same term, provided that duplication of content does not result. Brochures giving detailed information concerning all graduate courses to be offered during a given year are available in the English office throughout the academic year.

Courses numbered 900 or above (with the exception of 970 and 980) are doctoral seminars. Students desiring to enroll in these courses must obtain departmental approval at least before registration, but if possible before the pre-enrollment period.

500. History of the English Language
Fall of odd-numbered years. 5 credits. May reenroll for a maximum of 12 credits.
801. Old English
Fall of even-numbered years. 3 credits.
May reenroll for a maximum of 12 credits.
Phonology and morphology of English before 1100.

802. Beowulf
Winter of odd-numbered years. 3 credits.
May reenroll for a maximum of 12 credits.

805. Studies in Comparative Theatre and Drama
Fall, Winter, Spring, Summer. 3(3-0)
May reenroll for a maximum of 12 credits.
Approval of department. Interdepartmental.
with and administered by the Department of Theatre.

810. Medieval Literature
Spring. 3(3-0) May reenroll for a maximum of 12 credits.
Chaucer and the literature of the fourteenth century.

828. Colonial and Revolutionary American Literature
Fall of even-numbered years. 3(3-0)
May reenroll for a maximum of 12 credits.
American literature, from the beginning to 1820.

829. Twentieth Century Literature
Fall of odd-numbered years. Spring. 3(3-0) May reenroll for a maximum of 12 credits.
English and American literature, 1900 to the present, with attention to foreign background.

833. Writing Workshop: Poetry
Winter, Spring. 3(3-0) May reenroll for a maximum of 6 credits.
Approval of instructor.
Concentration on individual student's writing, through workshop discussion and conferences with instructor. Some attention to professional contemporary poetry.

834. Writing Workshop: Fiction
Fall, Winter. 3(3-0) May reenroll for a maximum of 6 credits.
Approval of instructor.
Concentration on student's writing, through workshop discussion and conferences with instructor. Some attention to professional contemporary fiction.

835. Writing Workshop: Drama
Fall of odd-numbered years. 3(3-0) May reenroll for a maximum of 6 credits.
Approval of instructor.
Concentration on individual student's writing, through workshop discussion and conferences with instructor. Some attention to professional contemporary drama.

847. Reading and the English Teacher
Spring of odd-numbered years. 3(3-0) May reenroll for a maximum of 12 credits.
Investigation of applied linguistics and psycholinguistics and their application to the reading process with particular emphasis on application to problems in the teaching of reading and literature.

850. Proseminar for Master's Degree Candidates
Fall of even-numbered years. 3(3-0) May reenroll for a maximum of 12 credits.
Individual scholarly work under guidance.

857. Method in the History of Literary Criticism
Winter of even-numbered years. 3(3-0) May reenroll for a maximum of 12 credits.
The history of literary criticism.

862. Approaches to Literature
Spring, Summer. 3(3-0) May reenroll for a maximum of 12 credits. Major in English—Secondary School Teaching or approval of instructor.
Literary and reading resources; discussion of critical approaches to and techniques for teaching literature.

865. Shakespeare
Winter. 3(3-0) May reenroll for a maximum of 12 credits.
Intensive study of selected plays.

872. Method in Research into Literary History
Spring of even-numbered years. 3(3-0) May reenroll for a maximum of 12 credits. Graduate students.
Concepts and procedures of research for investigating the teaching and learning of English language and literature. Examination of representative studies and techniques for evaluating, designing, and conducting applied research.

884. English Teaching Workshop
Winter of odd-numbered years. 2 to 5 credits. May reenroll for a maximum of 12 credits.
Workshop in the development of teaching materials and resources in English. Investigation of sources and bibliographies. Emphasis on seeking practical solutions to particular problems in the teaching of English.

885. Shakespeare
Winter. 3(3-0) May reenroll for a maximum of 12 credits.
Intensive study of selected plays.

887. Method in Research into Literary History
Spring of even-numbered years. 3(3-0) May reenroll for a maximum of 12 credits. Graduate students.
Concepts and procedures of research for investigating the teaching and learning of English language and literature. Examination of representative studies and techniques for evaluating, designing, and conducting applied research.

888. Shakespeare
Winter. 3(3-0) May reenroll for a maximum of 12 credits.
Intensive study of selected plays.

889. Method in Research into Literary History
Spring of even-numbered years. 3(3-0) May reenroll for a maximum of 12 credits. Graduate students.
Concepts and procedures of research for investigating the teaching and learning of English language and literature. Examination of representative studies and techniques for evaluating, designing, and conducting applied research.

895A. College Teaching of English Language and Literature: History and Issues
Fall of even-numbered years. 3(3-0) May reenroll for a maximum of 12 credits.
Approval of instructor.
Literature, literary criticism, writing, and reading in the English language as academic subjects.
982. Seminar: Later English Literature
Fall, Winter, Spring, 3(3-0) May reenroll for a maximum of 12 credits.
Special problems in English literature, 1660-1800.

983. Seminar: American Literature
Fall, Winter, Spring, 3(3-0) May reenroll for a maximum of 12 credits.
Special problems in American literature, beginning to 1900.

984. Seminar: Twentieth Century Literature
Fall, Winter, Spring, 3(3-0) May reenroll for a maximum of 12 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 reenroll for a maximum of 12 credits.
Forms, genres, and movements.

ENTOMOLOGY

College of Agriculture and Natural Resources

201. Insects and Society (N)
Winter, 4(4-0)
Influence of insects on the human race from a global and historical perspective. Environmental and cultural factors and how they influence and interact with the insects.

250. Pests, Environmental Quality and Ecosystem Management (N)
Fall, 3(4-0)
Impact of pests and pesticides in ecosystems and society, with emphasis on integrated pest management and environmental quality.

301. General Entomology
Fall, Spring, Summer, Given at W. K. Kellogg Biological Station Summer term. Fall, Spring, 3(3-0) Summer: 3 credits. B S 211 and B S 213 recommended.
Biological relationships of insects, insect behavior, ecology, and classification. Metamorphosis and development of insects.

302. General Entomology Laboratory
Fall, Spring, Summer. Given at W. K. Kellogg Biological Station Summer term. Fall, Spring, 2(4-6) Summer: 2 credits. ENT 301 or concurrently.
Insect diversity with emphasis on morphology, development, classification, identification, biometrics, and evolution. Stress reproductive strategies and general adaptability as relates to the overall ecological success of insects.

363. Entomological Techniques
Spring, 2(6-6) ENT 301 or approval of department; ENT 302 recommended but not required.
Field entomology, including collecting and rearing techniques and methods of specimen preparation and preservation. Practical experience in insect identification and biometrics. Collection required.

377. Forest and Shade Tree Entomology
Fall, 4(3-2) Three terms of natural science.
Ecological relationships of insect/tree interaction. Taxonomy of insects and recognition of insect injury. Biological, chemical, silvicultural and integrated control methods. Insect collection required (see instructor during prior spring term).

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

410. Agriculture and Pollination
Spring, 3(2-2)
Biological 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.

415. Insect Behavior
Winter of even-numbered years. 3(3-0) ENT 301, ENT 302; ZOL 313 recommended.
Mechanisms and adaptive significance of communication, orientation, food and habitat selection and behavioral rhythm in insects.

418. Systematic Entomology
Winter, 4(1-9) ENT 301, ENT 302.
General taxonomic course to acquaint the student with the various groups of insects.

420. Aquatic Insects
Spring, 4(3-0) ENT 301, ENT 302.
Biological, ecology and systematics of aquatic insects. Insect collection required.

425. Agricultural Entomology
Winter, 4(2-2) One year of biological or agricultural sciences.
Natural processes of insect populations and associated techniques that are important to agriculture.

438. Taxonomy of Immature Insects
Spring of even-numbered years. 4(1-9) ENT 418.
Identification of immature insects with particular emphasis on the Holometabola.