Descriptions — Engineering of Courses

365. House Planning
Fall, Winter, Spring. 3(1-4)
Elementary house architecture. Drawing plans from sketches. Kitchen planning, house styles, elements of design, financing, heating, lighting.

386. Architectural Perspective
Drawing
Fall. 3(0-6) Any engineering graphics course.
One-point and two-point perspective, revolved plan and measuring line methods. Pencil rendering, problems in shade and shadows. House model to scale, optional.

390. Value Engineering
The basis of value engineering is function, value, and a group of special techniques developed to aid in isolating and identifying problems created by our complex society and technology.

401. Technology Assessment
Spring. 3(3-0) Seniors or approval of department. Interdepartmental with the Natural Science Department.

410. Systems Methodology
Winter. 3(3-0) IDC 201, MTH 113, CPS 110 or 130, Interdepartmental with and administered by Systems Science.
The systems approach in multidisciplinary large scale problem solving. The development of useful systems analysis tools; systems design; feasibility study; computer simulation for feasibility evaluation.

411. Systems Project
Spring. 3(3-0) 410. Interdepartmental with and administered by Systems Science.
Completion of a systems study initiated in 410. The project may involve the design of hardware, simulation of a solution to an interdisciplinary problem, or development of a solution concept.

463. Architectural Drafting III
Spring. 3(0-6) 364 or 365.
Traditional and modern elevations. One- and two-point rendered perspective. Functional plans drawn in 364 or 365 required.

480. Special Problems
Fall, Winter, Spring, Summer. 1 to 4 credits. May re-enroll for a maximum of 8 credits. Approval of department.

ENGLISH ENG

College of Arts and Letters

091. English for Foreign Students—Elementary
Fall, Winter, Spring, Summer. Zero credit. (3-3-0) to 15(25-0)?. English language proficiency examination.
Spoken structures, pattern practice, reading, writing, and laboratory in the English language for foreign students on the elementary level.

092A. English for Foreign Students—Low Intermediate
Fall, Winter, Spring, Summer. Zero credit. (3-3-0) to 15(25-0)?. English language proficiency examination.
Spoken structures, pattern practice, reading, writing and laboratory in the English language for foreign students on the low-intermediate level.

092B. English for Foreign Students—High Intermediate
Fall, Winter, Spring, Summer. Zero credit. (3-3-0) to 15(25-0)?. English language proficiency examination.
Spoken structures, pattern practice, reading, writing, and laboratory in the English language for foreign students on the high-intermediate level.

093. English for Foreign Students—Advanced
Fall, Winter, Spring, Summer. Zero credit. (3-3-0) to 15(25-0)?. English language proficiency examination.
Spoken structures, pattern practice, reading, writing, and laboratory in the English language for foreign students on the advanced level.

104. English for Foreign Students—Supplementary
Fall, Winter, Spring, Summer. Zero credit. (3-3-0) to 15(25-0)?. English language proficiency examination.
Composition in the English language for foreign students on the supplementary level.

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

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

200H. Honors Work
Fall, Winter, Spring. 1 to 10 credits. Approval of department.

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.

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.

206. Forms of Literature: Fiction
Fall, Winter, Spring. 3(3-0) Required of majors and minors. Open to Freshmen.
Major forms of prose fiction, designed to reveal artistic problems met and solved by these forms. Prepares students for advanced literary study by acquainting them with the conventions of various literary forms, by providing a critical vocabulary and by furnishing experience in reading and writing compositions of outstanding literary works from all historical periods.

207. Forms of Literature: Drama
Fall, Winter, Spring, Summer. 3(3-0) Required of majors and minors. Open to Freshmen.
Major forms of drama, designed to reveal artistic problems met and solved by these forms.

208. Forms of Literature: Poetry
Fall, Winter, Spring, Summer. 3(3-0) Required of majors and minors. Open to Freshmen.
Major forms of poetry, designed to reveal artistic problems met and solved by these forms.

210. Introduction to the Study of Literature I
Fall, Winter. 4(4-0) English majors or prospective English majors.
Exploration of the major forms of literature, the aims and process of literary study, the cultural and personal functions of literature, and the role of literary study in the University.

211. Introduction to the Study of Literature II
Winter. 4(4-0) 210.
A continuation of 210.

213. Writing Workshop
Fall, Winter, Spring, Summer. 3(3-0)
A writing workshop designed to help students improve their writing abilities. The course provides opportunities for students to write with different purposes in a variety of modes.

214. Composition for Secondary English Teachers
Fall, Winter, Spring. 4(4-0) Sophomore English Education majors or written approval of department.
Writing practice in various modes such as personal narrative and description, the familiar essay, dramas, poetry, and fiction. Exercise in creative dramatization. Discussion of the process of composing and the teaching of oral and written composition in junior and senior high schools. Will participate in field experience.

228A. Fiction Writing
Fall, Winter, Spring, Summer. 4(4-0) Written approval of instructor.
The writing of short fiction. Classes and individual conferences. Approval to enroll requires a conference with the instructor and will usually be on the basis of manuscripts submitted to him.

228B. Fiction Writing
Fall, Winter, Spring, Summer. 4(4-0) Written approval of instructor.
The writing of fiction. Classes and individual conferences. Approval to enroll requires a conference with the instructor and will usually be on the basis of manuscripts submitted to him.

229. Poetry Writing
Fall, Winter, Spring. 4(4-0) Written approval of instructor.
The writing of poetry. Classes and individual conferences. Approval to enroll requires a conference with the instructor and will usually be on the basis of manuscripts submitted to him.

230. Non-fictional Imaginative Prose Writing
Fall, Winter, Spring. 4(4-0) Written approval of instructor.
The writing of biography, autobiography, and personal essays. Classes and individual conferences.

241. Introduction to Popular Culture
Fall, Winter, Spring. 3(3-0) Freshmen or Sophomores.
Generic and thematic study of the arts and artifacts of popular culture with particular emphasis on writing about the popular culture of contemporary American society.
242. Popular Literary Forms
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 6 credits. Freshmen or Sophomores.
Study of a particular genre of popular literature (e.g., science fiction, western, gothic) through reading, discussion, and writing, with attention to the genre's development in media other than print.

250. Major Themes in English and American Literature
Fall, Winter, Spring, Summer. 3(3-0) May re-enroll for a maximum of 6 credits. A particular theme of significant works of English and American writers in a relevant social or cultural context. Reading, discussion and writing are essential activities.

300A. Advanced Fiction Writing
Fall, Winter, Spring, Summer. 4(4-0)
May re-enroll in 300A and/or 300B for a maximum of 12 credits. 298B and written approval of department.
Advanced work in the writing of fiction. Classes and individual conferences. Approval to enroll requires a conference with the instructor and will usually be based on the basis of manuscripts submitted to him.

300B. Advanced Poetry Writing
Fall, Winter, Spring, Summer. 4(4-0)
May re-enroll in 300A and/or 300B for a maximum of 12 credits. 299B and written approval of department.
Advanced work in the writing of poetry. Classes and individual conferences. Approval to enroll requires a conference with the instructor and will usually be based on the basis of manuscripts submitted to him.

300C. Playwriting
Winter, Spring. 4(4-0) May re-enroll 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.

301. Literature and the Adolescent
Fall, Winter, Spring. 4(3-4) 208; Junior English education majors or written approval of department.
Extensive reading of literature appropriate for secondary school students. Discussion of formal literary problems in relation to student's reading needs. Methods of analyzing literature and establishing common and individualized reading programs. Will participate in field experience.

309. English Field Experience Internship
Fall, Winter, Spring. Summer. 3 to 5 credits. May re-enroll for a maximum of 8 credits. 214, 301, or 406A or concurrently.
Intensive field experience in English. Interns will be placed in schools for work in middle, junior, and senior high school classrooms and learning centers in the Lansing area.

313. Scientific Writing
Winter, Spring. 3(2-0) Science students or students with considerable background in the natural sciences.
Writing of papers, reports and essays.

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

316. World Literature in English Translation
Winter. 3(3-0) Interdepartmental with and administered by the Department of Linguistics and Oriental and African Languages.
Significant and characteristic works of the Orient, the Middle East, and Africa in English translation.

317. Genres and Themes in World Literature
Spring. 3(3-0) Interdepartmental with the Department of 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 Revolution, Satire. Literary examples will be selected from several national literatures.

340. Studies in Popular Culture
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 6 credits. Majors: 205; others: 6 credits of literature. Popular Cultures of the United States and England from the 19th Century to the present.

342. Women and Literature
Spring. 3(3-0) Third term American Thought and Language course numbered 123 or above or ENG 102.
The feminine sensibility as revealed in literary themes, characterization, and authorship.

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

346. Literary Interpretation of the Bible
Fall, Winter, Spring. 4(4-0)
Literary study of the Old and New Testaments, with emphasis upon the ideas and events which figure prominently in English and American literature.

347. Literature and Film
Fall, Winter, Spring. 3(3-0) 208 or 211.
Introduction to the relationship between film and literature through study of theme, style, and structure in selected film masterpieces from different periods and cultures.

351. English Literature I
Fall. 4(4-0) English major or minor.
Survey of English literature to Milton. Major representative writers and literary focus of the specified period.

352. English Literature II
Winter. 4(4-0) English major or minor.

353. English Literature III
Spring. 4(4-0) English major or minor.
Survey of English literature. Blake to Hardy. Major representative writers and literary focus of the specified period.

375. Regional American Literature
Fall, Winter, Spring. 3(3-0)
Representative works of a particular geographical region as expositions of its distinctive, cultural, historical, and literary characteristics, e.g., in a given term, the Middle West, South, New England, or Far West.

376. Canadian Literature and Culture
Spring, 4(4-0) May re-enroll for a maximum of 8 credits. Canadian literature and culture in bicultural, historical, and contemporary contexts.

377. Jewish-American Literature
Winter. 3(3-0)
The Jewish-American experience as reflected in fiction, drama, poetry, essay, autobiography, film.

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

381. Masterpieces of English Literature
Fall, Winter, Spring, Summer. 3 credits. Not applicable to major or minor requirements. Selected masterpieces of English literature.

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

399. Perspectives on Literature
Fall, Winter, Spring, Summer. 4(4-0)
May re-enroll for a maximum of 12 credits.
A rich variety of perspectives on literature for majors and non-majors. Approach and content differs with each section.

400. Tutorial
Fall, Winter, Spring. Summer. 1 to 5 credits. May re-enroll for a maximum of 10 credits. Majors: approval of department.
Reading, discussion, and writing under the guidance of a faculty member.

400H. Honors Work
Fall, Winter, Spring. Variable credit.
Open to particularly able students. Consists of individually supervised study of a phase of literary history.

401. 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.

402. Modern English Grammar
Winter, Spring, Summer. 4(4-0) 401.
English morphology and syntax, incorporating insights from current linguistic theory and practice.

403. The Development of Modern English
Winter, Summer. 4(4-0) 401.
Historical development of the language; native and foreign elements; changes in inflections, pronunciation, vocabulary, meaning.

404. American English
Fall. 4(4-0)
Characteristics American dialects, standard and non-standard, with analysis of usage and explanations of origins and differences.
Descriptions—English of Courses

406. Comparative Linguistics
Spring. 3(4-0) 402, 403; 2 college years of a foreign language or approval of department.
Techniques for the scientific comparison of related languages. The comparative method and the results of its application to the Indo-European languages.

407. Methods of Teaching English as a Second Language
Fall. 4(4-0) 401 or 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.

408A. Problems in the Teaching of Reading
Fall, Winter, Spring. 4(3-4) 214, 301, ED 327D.
Instruction and field experience in the teaching of reading for prospective English teachers.

408B. Problems in the Teaching of Reading
Fall, Winter, Spring. 4(3-4) 408A.
Instruction and field work on the teaching and learning of reading with strong emphasis on field experience.

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

409. Teaching Competencies in English
Fall, Winter, Spring, Summer. 4(4-0) 214, 301, or 408A or ED 327D. ENG 309 concurrently.
Practicum in the development of teaching competencies in the fundamentals of reading and writing within a humanistic English curriculum. Analysis of accountability models and assessment instruments in English.

410. Chaucer
Fall, Winter, Spring, Summer. 4(4-0) Majors: 208; others: 6 credits of literature.
Chaucer’s poetry, especially The Canterbury Tales. Read in Middle English.

411. Spenser
Winter. 4(4-0) Majors: 208; others: 6 credits of literature.
A representative selection of Spenser’s poetry with special emphasis on The Faerie Queene.

412. Milton
Fall, Winter, Spring, Summer. 4(4-0) Majors: 208; others: 6 credits of literature.
Milton’s prose and poetry, especially Paradise Lost.

417. Scandinavian Contributions to Literary Tradition
Fall. 3(3-0) Approval of department. Interdepartmental with the departments of Germanic and Russian and Romance Languages and administered by the Department of German and Russian.
Development and influence of the ideas, forms and motifs of the Scandinavian literatures in the literatures of the world.

418. Scandinavian Contributions to Literary Tradition
Winter. 3(3-0) Approval of department. Interdepartmental with the departments of Germanic and Russian and Romance Languages and administered by the Department of German and Russian.
Continuation of 417.

419. Scandinavian Contributions to Literary Tradition
Spring. 3(3-0) Approval of department. Interdepartmental with the departments of Germanic and Russian and Romance Languages and administered by the Department of German and Russian.
Continuation of 418.

421. Shakespeare
Fall, Winter, Spring, Summer. 4(4-0) Majors: 208; others: 6 credits of literature.

422. Shakespeare
Fall, Winter, Summer. 4(4-0) 419.
Advanced study of several representative plays exclusive of those taught in 421.

424. Conference Course in Advanced Writing
Fall, Winter, Summer. 4 credits. Written approval of department.
Intended for the student ready to pursue an advanced project in writing. Individual conferences. Approval to enroll requires conference with the instructor and will usually be on the basis of manuscripts submitted to him. Prior course work in writing will normally be expected.

428A. Comparative Drama
Spring. 3(3-0) Majors: 208; others: 6 credits of literature.
Studies in the development of drama: classical and medieval.

428B. Comparative Drama
Winter. 3(3-0) Majors: 208; others: 6 credits of literature.
Studies in the development of drama: Renaissance and seventeenth century.

428C. Comparative Drama
Spring. 3(3-0) Majors: 208; others: 6 credits of literature.

428D. Comparative Drama
Fall, Spring. 3(3-0) Majors: 208; others: 6 credits of literature.
The development of drama: Ibsen to World War II.

428E. Comparative Drama
Spring, Summer. 3(3-0) Majors: 208; others: 6 credits of literature.
The development of drama: World War II to the present.

436. Comparative Fiction
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits. Majors: 208; others: 6 credits of literature.
Types of narrative and fiction in various literatures and periods. Specific course content varies each term.

439. British Poetry and Poetic Theory
Since 1890
Winter, Summer. 4(4-0) Majors: 208; others: 6 credits of literature.
Special emphasis on Hopkins, Hardy, Yeats, Auden and Thomas.

441. American Literature: Colonial and Revolutionary Period
Fall. 4(4-0) Majors: 208; others: 6 credits of literature.
Works of Taylor, Edwards, Franklin, Frenau and others.

442. American Literature: Early Romanticism
Fall. 4(4-0) Majors: 208; others: 6 credits of literature.
Works of Cooper, Irving, Poe, Emerson, Thoreau and others.

443. American Literature: Later Romanticism
Winter, Spring. 4(4-0) Majors: 208; others: 6 credits of literature.
Works of Hawthorne, Melville, Whitman, Dickinson and others.

446. American Literature: Realism and Naturalism
Fall, Winter, Summer. 4(4-0) Majors: 208; others: 6 credits of literature.
Rise and development of realism and naturalism as exemplified in the works of such authors as Twain, James, Dreiser, Robinson, and others.

447. Twentieth Century American Fiction
Fall, Winter, Spring, Summer. 4(4-0) Majors: 208; others: 6 credits of literature.
Works of Fitzgerald, Hemingway, Faulkner and others.

448. Twentieth Century American Poetry
Fall, Summer. 4(4-0) Majors: 208; others: 6 credits of literature.
Works of Eliot, Pound, Frost and others.

449. Afro-American Literature I
Fall, Winter, Summer. 4(4-0) Majors: 208; others: 6 credits of literature.
Creative thought of the black American illustrated by the participation of the black man in American culture from beginnings through Harlem Renaissance.

450. Afro-American Literature II
Winter, Spring, Summer. 4(4-0) Majors: 208; others: 6 credits of literature.
Creative thought of the black American illustrated by the participation of the black man in American culture—post-World War II.

452. Contemporary Literature
Fall, Winter, Spring, Summer. 4(4-0) Majors: 208; others: 6 credits of literature.
Contemporary British or American fiction, drama or poetry.

455. Tudor Literature
Fall. 4(4-0) Majors: 208; others: 6 credits of literature.
Poetry, prose and non-Shakespearean drama of the sixteenth century.

456. Early Seventeenth Century Literature
Winter. 4(4-0) Majors: 205; others: 6 credits of literature.
Some of the major literary works of 1600-1660.

460. The Age of Dryden and Pope
Fall. 4(4-0) Majors: 208; others: 6 credits of literature.
Literature of the Restoration and early eighteenth century, 1660-1744: Dryden, Pope, Swift, and others.

462. The Age of Johnson
Spring. 4(4-0) Majors: 208; others: 6 credits of literature.
Literature of the later eighteenth century to 1785; Johnson and his circle, the novelists and others.

465. The English Romantic Period
Fall, Spring. 4(4-0) Majors: 208; others: 6 credits of literature.
The beginnings of romanticism; Blake, Wordsworth and Coleridge.

A-62
466. Nature of Myth
Winter. 3(3-0)
Myth in some of its theoretical aspects, with special reference to the mythical character of literature.

467. Victorian Essayists
Fall, Summer. 4(4-0) Majors: 208; others: 6 credits of literature.
Selected readings from Carlyle, Newman, Arnold, Mill, Hazlitt and other essayists.

468. Romanic Poetry
Spring. 4(4-0) Majors: 208; others: 6 credits of literature.
Study of such writers as Scott, Dickens, Thackeray, Eliot, Hardy and others.

470. The Modern English Novel
Spring, Summer. 4(4-0) Majors: 208; others: 6 credits of literature.
Study of such writers as Conrad, Ford, Joyce, Lawrence and others.

471. The Modern English Novel
Spring, Summer. 4(4-0) Majors: 208; others: 6 credits of literature.
Study of such writers as Conrad, Ford, Joyce, Lawrence and others.

472. Studies in Period
Winter. 4(4-0) May re-enroll for a maximum of 8 credits. To receive credit, both 491H and 492H must be completed satisfactorily. Six credits in English honors courses and approval of the departmental honors advisor. A two-term study of specific writers in relation to their age is provided by 491H and 492H.

473. Studies in Genre
Winter. 4(4-0) May re-enroll for a maximum of 8 credits. To receive credit, both 493H and 494H must be completed satisfactorily. Six credits in English honors courses and approval of the departmental honors advisor. Continuation of 493H.

474. The Modern English Novel
Spring, Summer. 4(4-0) Majors: 208; others: 6 credits of literature.
Study of such writers as Conrad, Ford, Joyce, Lawrence and others.

475. The Modern English Novel
Spring, Summer. 4(4-0) Majors: 208; others: 6 credits of literature.
Study of such writers as Conrad, Ford, Joyce, Lawrence and others.

476. Methods of Comparative Literature
Fall. 3(3-0) Two of the following: 206, 207, 208.
Rational and techniques of study in comparative literature.

477. Comparative Epic
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits. Majors: 208; others: 6 credits of literature. Each term will consist of two epochs. Fall: Old Norse and the Book of Job; Winter: Dante's Inferno and Milton's Paradise Lost; Spring: Beowulf and the Song of Roland.

478. Classical Christian Contributions to Literary Tradition
Spring of odd-numbered years. 3(3-0)
Two of the following: 205, 207, 208.

479. Modern Critical Theory
Winter. 4(4-0) Senior majors.
An examination of the principal modern theories of literary criticism.

480. Literary Criticism: Theory and Practice
Fall, Spring, Summer. 4(4-0) Senior majors.
A survey of literary theory; critical and historical approaches to literature.

481. Modern Critical Theory
Winter. 4(4-0) Senior majors.
An examination of the principal modern theories of literary criticism.

482. Practical Criticism
Spring. 4(4-0) 480 or 481.
Literary criticism in response to a given work.

485. The English Novel Through the Eighteenth Century
Fall, Summer. 4(4-0) Majors: 208; others: 6 credits of literature.
Study of such writers as Richardson, Fielding, Smollett, Sterne, Austen, and others.

491H. Studies in Period
Fall. 4(4-0) May re-enroll for a maximum of 8 credits. To receive credit, both 491H and 492H must be completed satisfactorily. Six credits in English honors courses and approval of the departmental honors advisor. Continuation of 491H.

491H. Studies in Genre
Winter. 4(4-0) May re-enroll for a maximum of 8 credits. To receive credit, both 493H and 494H must be completed satisfactorily. Six credits in English honors courses and approval of the departmental honors advisor. Continuation of 493H.

497. The English Novel in the Nineteenth Century
Winter, Summer. 4(4-0) Majors: 208; others: 6 credits of literature.
Study of such writers as Scott, Dickens, Thackeray, Eliot, Hardy and others.

497H. Special Topics
Fall, Winter, Spring. 4(4-0) May re-enroll for a maximum of 12 credits. Approval of the departmental honors advisor. Intensive study of some particular author, theme, problem, or other critical topic.

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

499. Senior Proseminar
Fall, Winter, Spring. 4(4-0) Senior English majors.
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.

500. History of the English Language
Spring, Summer. 3 credits.

801. Old English
Fall, Summer. 3 credits.
Phonology and morphology of English before 1100.

802. Beowulf
Winter. 3 credits.

803. Old English Poetry
Spring. 3(3-0) 802.
Studies in Old English poetic literature; selections from the poetry of the Exeter Book or other works exclusive of Beowulf.

804. Middle English
Winter. 3(3-0)
Linguistic study of English writings, 1100-1400.

805. Studies in Comparative Theatre and Drama
Fall, Winter, Spring, Summer. 3(3-0) May re-enroll for a maximum of 12 credits. Approval of department. Interdepartmental and jointly administered with the Department of Theatre.
Comparative study of selected playwrights, movements, trends and development in world drama from the beginnings to the present day.

806. Medieval Languages
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 15 credits.
Gothic, Old Norse, and Old Irish.

807. Advanced Methods of Teaching English as a Second Language
Fall. 3(3-0) 407.
Advanced study of linguistic theory and applications to classroom practice of methods of teaching English as a second language, specifically with regard to oral drill, reading, writing, testing, language and cultural heritage.

810. Medieval Literature
Fall, Winter, Summer. 3(3-0) May re-enroll for a maximum of 8 credits.
Chaucer and the literature of the fourteenth century.

811. Renaissance Literature
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits.
English non-dramatic literature, 1500-1600.

812. Restoration and Eighteenth Century Literature
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits.
English literature, 1680-1798.

816. Nineteenth Century Literature
Fall, Winter, Spring, Summer. 3(3-0) May re-enroll for a maximum of 9 credits.
English literature, 1798-1900.

821. Nineteenth Century American Literature
Fall, Winter, Spring, Summer. 3(3-0) May re-enroll for a maximum of 9 credits.
American literature, 1830-1900.

824. Twentieth Century Literature
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 6 credits.
English non-dramatic literature, 1900-1960, including Milton.

825. Comparative Literature: Studies in Theme and Idea
Fall. 3(3-0) May re-enroll for a maximum of 9 credits. Interdepartmental with the departments of Romance Languages and German and Russian and administered by the Romance Languages Department.
Myths, archetypes, Topos, significant ideas and intellectual currents in different periods and cultural traditions.
828. Colonial and Revolutionary American Literature
Winter. 3(3-0)
American literature, from the beginnings to 1820.

829. Twentieth Century Literature
Fall, Spring. 3(3-0)
May re-enroll for a maximum of 6 credits.

830. Major Writers of American Literature
Fall, 5(4-0)
Fall. 5(4-0) Major in English—Secondary School Teaching or approval of department.

831. Major Writers of American Literature
Winter. 5(4-0)
Major in English—Secondary School Teaching or approval of department.

840. Writing Workshop for Teachers
Fall, Spring, Summer. 5(5-0)
Major in English—Secondary School Teaching or approval of department.

841. Topics in the Teaching of English
Winter, Spring. 3 to 5 credits
Selected topics and issues in the teaching of English and the language arts. Investigation of problems of special concern to the students, especially those directly related to teaching.

845. Approaches to Language
Winter. 3(3-0)
Major in English—Secondary School Teaching or approval of department.

846. Approaches to Language
Winter. 3(3-0)
Major in English—Secondary School Teaching or approval of department.

847. Reading and the English Teacher
Spring, Summer. 5(5-0)
Investigation of applied linguistics and psycholinguistics to the reading process with particular emphasis on the application to problems in the teaching of reading and literature.

848. Teaching English in Bicultural Settings
Winter, Spring. 3(3-0)
Viewing a bilingual-bicultural group from their novels, plays, stories, or poems, and from historical, sociological, or linguistic works. Applications to teaching.

849. English Teaching Workshop
Fall, Winter, Spring, Summer. 2 to 5 credits. May re-enroll for a maximum of 10 credits.

850. Shakespeare
Fall, Spring. 3(3-0)
Intensive study of selected plays.

855. Comparative Literature: Literature, and Other Disciplines
Winter. 3(3-0)
May re-enroll for a maximum of 9 credits. Interdepartmental with the departments of German, Romance Languages and Literature, and Russian. 

856. Comparative Literature: Literature, and Other Disciplines
Winter. 3(3-0)
May re-enroll for a maximum of 9 credits. Interdepartmental with the departments of German, Romance Languages and Literature, and Russian.

860. Approaches to Literature
Winter. 5(4-0)
Major in English—Secondary School Teaching or approval of department.

870. Graduate Reading Course
Fall, Winter, Spring. 1 to 3 credits.
Approval of department.

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. Approaches to Literature: Methods in the Study of Comparative Literature
Fall. 3(3-0)
Interdepartmental with the departments of German, Romance Languages and Literature.

890. Comparative Literature: Studies in Form and Genre
Winter. 3(3-0)
May re-enroll for a maximum of 9 credits. Interdepartmental with the departments of German, Romance Languages and Literature.

899. Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.
986. Seminar: American Literature and Culture
Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 9 credits.
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

College of Agriculture and Natural Resources
College of Natural Science

230. The Role of the Natural Sciences in Future Environments
Fall. 4(4-0) Approval of department. Interdepartmental with the departments of Geology, Physics and Zoology and the College of Natural Science and administered by the College of Natural Science.
Physical and biological science concepts relevant to understanding of environmental issues. Options for action in areas of population size, energy and life support system. Illustrated by case studies.

250. Pesticides and Environmental Quality
Winter. 3(4-0) Impact of agricultural pesticides on man and his environment. Emphasizes the effect of chemicals on food production and combating diseases and ecological imbalance. Presents pesticide alternatives for the future.

301. General Entomology
Fall, Spring. 3(3-0) B S 211 and 212 recommended.

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 biological 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. Apiculture and Pollination
Spring. 3(2-2) 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(1-9) 301, 302.
General taxonomic course to acquaint the student with the various groups of insects.

420. Aquatic Insects
Fall. 4(3-3) 301, 369.
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 centered on local streams. Laboratory exercises will involve manipulations necessary for the determination of population energy budgets, with special emphasis on aquatic insects.

430. Economic Entomology
Fall. 3(2-0) 301, 302.
Recognition, life histories, behavior, ecology and integrated control of insects of economic importance.

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

440. External Morphology of Insects
Fall. 4(3-4) 301, 302, or approval of department.
Morphological concepts of external skeletal parts of insects. Emphasis on evolutionary development of structures from the Arthropoda through the Trilobita.

441. Internal Morphology
Winter. 4(2-0) 440 or approval of department.
Morphology of the internal structure of insects. Emphasis on the evolutionary development of organs and organ systems of various representative insects.

450. Insect Physiology
Spring. 4(4-0) 441; FSL 401; 1 year of chemistry. Approval of department.
Comparative physiology of insects with histological and functional aspects of organs and organ systems.

480. Medical Entomology
Spring. 4(3-3) 301, 362, or approval of department.
Distribution and biology of important arthropod vectors of diseases to man, disease symptoms, life cycle of the infectious agent, reservoirs, urticating arthropods, arachnids, reactions, methyl, and prophylactic measures.

487. Topics in Entomology
Fall, Winter, Spring, Summer. Variable credit. Majors or approval of department.
Advanced work in medical entomology, taxonomy, advanced forest entomology, soil arthropods, behavior and biological control.

488. Advanced Taxonomy
Fall, Winter. 4(0-12) May re-enroll for a maximum of 34 credits. 418, 440. Classification in depth of a single order of insects, including comparative morphology of the group and survey of recent and classical literature.

489. Ecology of Aquatic Insects
Summer of every third year; given in 1965. 3 credits. 420 or approval of department. Given at W. K. Kellogg Biological Station.
Aquatic insects, their physiology, distribution, and density. Preparation of energy budgets for natural populations.

490. Insect Ecology
Spring. 3(2-3) Approval of department.
Detailed consideration of the dynamics of insect populations. Review of those factors in the insect ecosystem which can be manipulated for the purpose of pest management. Role and use of models in insect ecology.

491. Advanced Stream Ecology
Summer. 1 credit. 451 or approval of instructor. Given at W. K. Kellogg Biological Station. Interdepartmental with Fisheries and Wildlife Department.
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.

492. Insect Biochemistry
Spring of even-numbered years. 4(4-0)
450; BCH 401.
Energy metabolism, intermediary metabolism and the biochemistry of development in insects; stresses biochemical differences between insects and higher animals.