964. Large Scale Dynamic Systems

Winter of even-numbered years. 3(3-0) SYS 961.

Model simplification; stability of large scale systems; decentralized control; optimization by decomposition and coordination; multilevel hierarchical control; applications.

999. Doctoral Dissertation Research

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

ENGINEERING

EGR

College of Engineering

1255. Orientation to Engineering Careers

Winter. 2(2-0) Credits earned in this course are included in computation of GPA and MAPS but are not included in the 180 credits required for graduation.

Engineering careers, history and philosophy of engineering profession, present and future challenges, industrial job functions, employment trends.

200. Technology, Society and Public Policy

Winter. 3(3-0) Twelve credits from natural science or engineering. Interdepartmental with the Department of Natural Science.

Description and analysis of certain current technologies and their consequences; exploration of avenues for assessing such consequences as an aid to formulation of public policy.

290. Selected Topics

Fall, Winter, Spring, Summer. 1 to 3 credits May reenroll for a maximum of 6 credits if different topics are taken.

Experimental course developments or special topics appropriate for freshmen and sophomores.

344. Engineering Cooperative Education

Fall, Winter, Spring, Summer. Zero credits. [3 credits-See page A-1, item 3.] May reenroll for a maximum of six terms. Employment assignment approved by College of Engineering.

Pre-professional employment in industry and government related to student's major.

390. Value Engineering

Fall, Winter, Spring. 4(4-0) MMM 280 or approval of department.

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. Engineering and Public Policy

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

Sociotechnical assessment of impact of technology on society, with analysis of the role of engineering and natural science in contributing to public policy formulation.

ENGLISH

ENG

College of Arts and Letters

091. English for Foreign Students-Structures

Fall, Winter, Spring, Summer. Zero credits. [3(5-0) See page A-I item 3.] English language proficiency examination.

Explanation and intensive practice of basic grammatical structures of English. Students are tested and then placed in small groups, from beginning to advanced, depending on their need.

092. English for Foreign Students-Speaking and Listening

Fall, Winter, Spring, Summer. Zero credits. [3(5-0) See page A-1 item 3.] English language proficiency examination.

Intensive speaking and listening practice of spoken English in small groups (determined by proficiency). For beginners, practice is largely drill. Advanced groups use drill, films, discussion, and practical conversations.

093. English for Foreign Students-Language Laboratory

Fall, Winter, Spring, Summer. Zero credits. [3(5-0) See page A-1 item 3.] English language proficiency examination.

Language laboratory practice in small groups (determined by proficiency). Beginnings review and supplement ENG 091, ENG 092. Advanced groups use carefully prepared lectures, speeches, and presentations to practice structures and vocabulary.

094. English for Foreign Students-Reading

Fall, Winter, Spring, Summer. Zero credits. [3(5-0) See page A-1 item 3.] English language proficiency examination.

Intensive and extensive reading in small groups (determined by proficiency). Beginners emphasize vocabulary development and practice in basic structures. Advanced classes include reading skills, wider reading, and specialized vocabulary.

095. English for Foreign Students-Writing

Fall, Winter, Spring, Summer. Zero credits. [3(5-0) See page A-I item 3.] English language proficiency examination.

Frequent controlled and free writing in small groups to reduce errors and practice using structures and vocabulary to express ideas. Advanced classes include writing styles used in academic course work.

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. 5(5-0) ENG 101; Arts and Letters Freshmen only.

A continuation of ENG 101 that develops the emphases 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. Writing workshop for science students that develops and refines composition ability.

105. The Scientist as Writer

Winter. 3(3-0) ENG 104. Interdepartmental with the Department of American Thought and Language.

Study of various types of writing by scientists—fiction, poetry, and autobiography as well as professional papers and books. Students will write frequently about the readings.

106. Introductory Scientific Writing

Spring. 3(3-0) ENG 105. Interdepartmental with the Department of American Thought and Language.

Writing of popular essays, scientific papers and reports, and other papers related to science.

126. The Writer and Literature

Fall, Winter, Spring. 3(3-0) The first term of ATL 121 or above or ENG 101.

Modern literature from the writer's perspective. Students also write their own critical and creative work, using journal method.

200H. Honors Work

Fall, Winter, Spring. 1 to 16 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, Summer. 3(3-0) 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 critical evaluations of outstanding literary works from all historical periods.

207. Forms of Literature: Drama

Fall, Winter, Spring, Summer. 3(3-0) 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) 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.

Courses

211. Introduction to the Study of Literature II

Winter, Spring. 4(4-0) ENG 210. A continuation of ENG 210.

213. Writing Workshop

Fall, Winter, Spring, Summer. 4(4-0) Completion of the American Thought and Language General Education requirement.

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.

220. English from Greek and Latin Roots

Fall. 3(3-0) Interdepartmental with and administered by Classical Languages.

Prefixes, roots, suffixes derived from Greek and Latin word elements used in formation of English words. Useful for improving vocabulary and spelling.

226. Introduction to Creative Writing

Fall, Winter, Spring. 4(4-0) Completion of American Thought and Language General Education requirement.

Writing of fiction, drama, creative nonfiction, and poetry, with ample practice in several. Some reading of professional contemporary writing. Course organized as workshop, designed for beginning writers.

228A. Fiction Writing

Fall, Winter. 4(4-0) Written approval of instructor based on manuscripts submitted. The writing of short fiction. Classes and individual conferences.

228B. Fiction Writing

Winter, Spring. 4(4-0) Written approval of instructor based on manuscripts submitted.

The writing of fiction. Classes and individual conferences.

229. Poetry Writing

Fall, Winter, Spring. 4(4-0) Written approval of instructor based on manuscripts submitted.

The writing of poetry. Classes and individual conferences.

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 (A)

Fall, Winter. 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 recrroll 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, and 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 reenroll 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.

302. Introduction to English Language Studies

(401.) Fall, Winter, Spring, Summer.

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.

Survey of the history and philosophy behind standards of correctness. Review of traditional grammatical terms. Intensive study and practice of usage rules.

310. Writing for Prelaw Students

(JM 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.

312. Advanced Workshop in Expository Writing

Winter, Spring. 4(4-0) ENG 213 or approval of department.

Directed practice in the writing of clear, concise, and forceful expository prose, with special emphasis on practical writing tasks like the composing of summaries, reports, and position papers.

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.

327. Playwriting

(300C.) 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.

328. Advanced Fiction Writing

(300A.) 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.

329. Advanced Poetry Writing

(300B.) Winter, Spring. 4(4-0) May recuroll in ENG 328 and/or ENG 329 for a maximum of 12 credits. ENG 229 and written approval of instructor based on manuscripts submitted.

Advanced work in the writing of poetry. Classes and individual conferences.

330. Composition for Secondary English Teachers

(214.) Fall, Winter. Summer of oddnumbered 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 experience.

331. Literature and the Adolescent

(301.) Winter, Spring. Summer of even-numbered years. 4(3-4) Sophomore English Education majors or minors and 8 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 experience.

332. English Field Experience Internship

(309.) Fall, Winter, Spring, Summer. 3 to 5 credits. May reenroll for a maximum of 8 credits. ENG 330, ENG 331, or ENG 408A 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.

340. Studies in Popular Culture

Spring. 3(3-0) May reenroll for a maximum of 9 credits. Sophomores.

Popular Cultures of the United States and England from the 19th Century to the present.

342. Women and Literature

Fall, Winter, Spring. 3(3-0) Sophomores.

The feminine sensibility as revealed in literary themes and characterizations, through a study of poetry and fiction written by women authors.

343. Regional American Literature

(375.) Fall. 3(3-0) May reenroll for a maximum of 9 credits if different topics are taken. Sophomores.

Representative works of a particular geographical region as expressions of its distinctive cultural, historical, and literary characteristics, e.g., in a given term, the Middle West, South, New England, or Far West.

344. Jewish-American Literature (A)

(377.) Winter. 3(3-0) Sophomores.

The Jewish-American experience as reflected in fiction, drama, poetry, essay, autobiography, film.

347. Literature and Film

Fall, Winter, Spring. 4(2-4) Sophomores.

Introduction to the relationship between film and literature through study of theme, style, and structure in selected film masterpieces from different periods and cultures.

349. Afro-American Literature I

(449.) 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 and politics. Several film screenings.

350. Afro-American Literature II

(450.) 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.

351. English Literature I

Fall. 4(4-0) Sophomores.

Survey of English literature to Milton. Major representative writers and literary forms of the specified period.

352. 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.

353. 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.

360. World Literature in English

(315.) Fall. 3(3-0) Interdepartmental 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.

World Literature in English 361. Translation

(316.) Winter. 3(3-0) Interdepartmental with and administered by Linguistics and Oriental and African Languages.

Significant and characteristic works of the Orient, the Middle East, and Africa in English translation.

362. Genres and Themes in World

(317.) Spring. 3(3-0) Interdepartmental 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.

363. African Literature in English

(318.) Spring of odd-numbered years. 3(3-0) Sophomores.

Contemporary African literature written in English, including novels by Soyinka, Achebe, Ngugi, Armah, La Guma, and Ekwensi; plays and poetry by Clark, Hutchinson, Nkosi, Henshaw, Okara, Awooner, Okigbo, and others.

364 Canadian Literature and Culture

(376.) Spring of even-numbered years. 4(4-0) May reenroll for a maximum of 8 credits.

Canadian literature and culture in bicultural, historical and contemporary contexts.

365. Classic Myths and Literature

(345.) Fall, Winter, Spring. Summer of even-numbered years. 3(3-0) Sophomores.

Greek myths that have been wrought into later poetry, fiction, drama, painting, sculpture, and music.

366. Literary Interpretation of the Bible

(346.) Fall, Winter. 3(3-0) Sophomores.

Literary study of the Old and New Testaments, with emphases upon the ideas and events which figure prominently in English and American literature.

380. Masterpieces of American Literature

Fall, Winter, Spring, Summer. 3(3-0) Sophomores. Not applicable to major or minor requirements.

Selected masterpieces of American literature.

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

Fall, Winter, Spring, Summer. 3(3-0) Sophomores. Not applicable to major or minor requirements.

Selected masterpieces of contemporary litera-

Perspectives on Literature and 399. 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, Summer. 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.

400H. Honors Work

Fall, Winter, Spring. 1 to 5 credits. May reenroll for a maximum of 10 credits. Approval of departmental Honors College adviser. Open to particularly able students. Consists of individually supervised study of a phase of literary history.

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.

American English

Fall. 4(4-0) Sophomores.

Characteristic American dialects, standard and non-standard, with analysis of usage and explanations of origins and differences.

Methods of Teaching English as a Second Language 407.

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.

Problems in the Teaching of Reading

Fall, Winter, Spring. 5(3-5) ENG 330 or ENG 331, ENG 302.

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) ENG 408A.

Instruction and independent work on the teaching and learning of reading with strong emphasis on field experience.

408C. Problems in the Teaching of Reading (408.) 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. 4(4-0) Juniors, 8 credits of literature.

Chaucer's poetry, especially 'The Canterbury Tales'. Read in Middle English.

411. Spenser

Spring of even-numbered years. 4(4-0) Juniors, 8 credits of literature.

A representative selection of Spenser's poetry with special emphasis on 'The Faerie Queene'.

412.

Winter, Spring. 4(4-0) Juniors, 8 credits of literature.

Milton's prose and poetry, especially 'Paradise Lost'.

418. Scandinavian Contributions to Literary Tradition

Winter. 3(3-0) Approval of department. Interdepartmental with German and Russian and Romance Languages. Administered by German and Russian.

Development and influence of the ideas, forms and motifs of the Scandinavian literatures in the literatures of the world.

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.

Shakespeare: Advanced Study 422.

Spring, 4(4-0) ENG 421 or ENG 426B or approval of instructor.

Intensive study of particular plays, poems, genres, or issues.

Writing: Style and Technique

(J 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. 4 credits. Written approval of instructor based on manuscripts submitted.

Intended for the student ready to pursue an advanced project in writing. Individual confer-

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. ature.

426A. Comparative Drama

Fall. 3(3-0) Juniors, 8 credits of liter-

Studies in the development of drama: classical and medieval.

426B. Comparative Drama

Winter, 3(3-0) Juniors, 8 credits of lit-

Studies in the development of drama: Renaissance and seventeenth century.

426C. Comparative Drama

Spring. 3(3-0) Juniors, 8 credits of lit-

erature.

Studies in the development of drama: neoclassical and romantic.

426D. Comparative Drama

Winter. 3(3-0) Juniors, 8 credits of lit-

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.

430. Advanced Writing: The Prose Essau

(ATL 329) Spring. 4(4-0) ENG 213 or approval of department.

Provides instruction in the acquiring of knowledge from the prose essay, making sophisticated inferences from the ideas collected, and formulating and supporting logical theses in the writing of such essays.

431. Writing the Research Report

(ATL 439.) 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.

432. Technical Report Writing

(ATL 449.) Winter. 4(4-0) ENG 213 or approval of department.

Use and understanding of language through writing and editing clear, concise, purposeful technical reports, letters, instructions, proposals.

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 of even-numbered years. 4(4-0) Juniors, 8 credits of literature.

Works of Taylor, Edwards, Franklin, Freneau and others.

442. American Literature: Early Romanticism

Winter. 4(4-0) Juniors, 8 credits of literature.

Works of Cooper, Irving, Poe, Emerson, Thoreau and others.

443. American Literature: Later Romanticism

Spring. 4(4-0) Juniors, 8 credits of literature.

Works of Hawthorne, Melville, Whitman, Dickinson 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 authors as Twain, James, Dreiser, Robinson, and others.

447. Twentieth Century American Fiction

Fall, Winter, Spring, Summer. 4(4-0) Juniors, 8 credits of literature.

Works of Fitzgerald, Hemingway, Faulkner and others.

448. Twentieth Century American Poetry

Fall, Spring. 4(4-0) Juniors, 8 credits of literature.

Works of Eliot, Pound, Frost and others.

452. Contemporary British Literature Fall. 4(4-0) Juniors, 8 credits of liter-

tall. 4(4-0) Juniors, 8 credits of literature.

Contemporary British fiction, drama, poetry; such writers as Sillitoe, Powell, Murdoch, Osborne, Fowles, Larkin, and others.

453. Contemporary American Poetry

Winter. 4(4-0) Juniors, 8 credits of literature.

American poetry from WW II to present: such writers as Roethke, Lowell, Plath and others.

454. Contemporary American Fiction

Spring. 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-Shakespearian 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 liter-

ature.

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 midcentury to the early romantics.

465. The English Romantic Period

Fall, Winter. 4(4-0) Juniors, 8 credits of literature.

The beginnings of romanticism; Blake, Wordsworth and Coleridge.

466. The English Romantic Period

Winter, Spring. 4(4-0) Juniors, 8 credits of literature.

Continuation of ENG 465; Keats, Shelley, Byron.

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 em-

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 lit-

erature.

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 lit-

Selected readings from poets and essayists of the Victorian period.

474. Oral Folklore.

Spring of even-numbered years. 4(4-0) Juniors, 8 credits of literature.

The nature of folklore, its social functions, and its use in literature and drama.

477A. Comparative Epic

(477.) Fall. 3(3-0) Juniors, 8 credits of literature.

Two epics will be considered: 'Odyssey' and the 'Book of Job'.

477B. Comparative Epic

(477.) 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

(477.) 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

Fall. 4(4-0) Juniors, 8 credits of literature.

A survey of literary theory; critical and historical approaches to literature.

Courses

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 liter-

ature.
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

Winter, Spring. 4(4-0) Juniors, 8 credits of literature.

Study of such writers as Conrad, Ford, Joyce, Lawrence 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. ENG 491H. Continuation of ENG 491H.

493H. Studies in Genre

Winter 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.

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. ENG 493H. Continuation of ENG 493H.

496H. Special Topics

Fall. 4(4-0) May reenroll for a maximum of 12 credits. Juniors, 8 credits of literature, approval of departmental Honors College adviser.

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, themes, genres, movements and periods in different national literatures, and between literature and other arts.

499. Senior Proseminar

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 courses on both the 800-level and the 900-level may change from term to term, making possible a wide variety of course offerings. Students may enroll in a course for more than one term or in more than one section of a course 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 that academic year.

Courses numbered 900 or above (with the exception of 930, 970, and 999) are doctoral seminars. Students desiring to enroll in these courses must obtain departmental approval at least before registration, but if possible before the preenrollment period.

800. History of the English Language Fall of odd-numbered years. 3 credits.

Tute by back numbered years. a create

801. Old English

Fall of even-numbered years. 3 credits. Phonology and morphology of English before 1100.

802. Beowulf

Winter of odd-numbered years. 3 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.

Comparative study of selected playwrights, movements, trends and developments in world drama from the beginnings to the present day.

807. Advanced Methods of Teaching English as a Second Language

Spring. 3(3-0) ENG 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.

808. Testing of English as a Second Language

Winter. 3(3-0) ENG 407.

Techniques of testing English as a second language; intensive practice in writing test items; survey of current testing practices and test/item analysis procedures. Individual test project required.

810. Medieval Literature

Spring. 3(3-0)

Chaucer and the literature of the fourteenth century.

811. Renaissance Literature

Fall of odd-numbered years. 3(3-0)

English nondramatic literature, 1500-1600.

812. Early English Drama

Spring of even-numbered years. 3(3-0) Non-Shakespearean English drama from its liturgical beginnings to 1642.

815. Restoration and Eighteenth Century Literature

Winter of even-numbered years. 3(3-0) English literature, 1660-1798.

816. Nineteenth Century Literature Spring. 3(3-0)

English literature, 1798-1900.

821. Nineteenth Century American Literature

Winter. Spring of even-numbered years. 3(3-0)

American literature, 1820-1900.

824. Seventeenth Century Literature

Fall of even-numbered years. 3(3-0) English nondramatic literature, 1600-1660, including Milton.

828. Colonial and Revolutionary American Literature

Fall of even-numbered years. 3(3-0)
American literature, from the beginnings to 1820.

829. Twentieth Century Literature

Fall of odd-numbered years. Spring. 3(3-0)

English and American literature, 1900 to the present, with attention to foreign backgrounds.

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.

835. Writing Workshop: Fiction

Fall, Winter. 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 fiction.

837. 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.

840. Writing Workshop for Teachers

Winter. Summer of odd-numbered years. 3(3-0) or 5(5-0) Major in English-Secondary School Teaching or approval of department.

Exploration of the writing process through composition activities and examination of techniques for teaching writing.

841. Topics in the Teaching of English

Fall. 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

Modern linguistic approaches to language and their application to writing.

846. Approaches to Language

Winter. 3(3-0)

Continuation of ENG 845.

Reading and the English 847. Teacher

Spring of odd-numbered years, Summer of odd-numbered years. 3(3-0) or 5(5-0) Investigation of applied linguistics and psycholinguistics and their application to the reading process with particular emphasis on ap-plication to problems in the teaching of reading and literature.

English Teaching Workshop 849.

Winter of odd-numbered years, 2 to 5 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.

855. Shakespeare

Winter. 3(3-0)

Intensive study of selected plays.

862. Approaches to Literature

Spring, Summer. 3(3-0) Major in English-Secondary School Teaching or approval of instructor.

Literary and reading resources; discussion of critical approaches to and techniques for teaching literature.

871. Methods of Literary Research Fall. 3(3-0)

Bibliography and use of library: preparation of reports, reviews, and scholarly papers.

872. Methods of Research into Literacy

Spring of even-numbered years. 3(3-0) 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.

877. Muth, Ritual and Folklore in Literature

Fall of odd-numbered years. 3(3-0) Interdepartmental with Romance Languages. The concepts, scholarship, and methods of study and research in mythology, ritual, and folklore, with special attention to their use in

878. Comparative Literature: Methods in the Study of Comparative Literature

Fall. 3(3-0) Interdepartmental with German and Russian and Romance Languages. Rationale and techniques of study in comparative literature.

Myth, Ritual and Folklore in Literature

Fall. 3(3-0)

The concepts, scholarship, and methods of study and research in mythology, ritual, and folklore, with special attention to their use in literature and drama.

Proseminar for Master's Degree Candidates

Fall of even-numbered years. 3(3-0) Individual scholarly work under guidance.

885. Studies in the History of Literary Criticism

Winter of even-numbered years. 3(3-0) The history of literary criticism.

Studies in Modern Criticism

Spring of odd-numbered years. 3(3-0) ENG 885.

Continuation of ENG 885.

895A. College Teaching of English Language and Literature: History and Issues

Fall of even-numbered years. 3(3-0) Approval of instructor.

Literature, literary criticism, writing, and reading in the English language as academic subjects.

895B. College Teaching of English Language and Literature: Reading

Winter of odd-numbered years. 3(3-0) Approval of instructor.

Integration of the teaching of writing and reading in English with stress on relevant research in reading in such areas as: linguistics, applied linguistics, psycholinguistics, language acqui-

895C. College Teaching of English Language and Literature: Writing

Spring. 3(3-0) Approval of instructor. Integration of the teaching of writing and reading in English with stress on relevant research in writing and composition such as linguistics, applied linguistics, psycholinguistics, and language acquisition.

896. Practicum in English Language and Literature

Fall, Winter, Spring, Summer. 2 to 6 credits. Approval of department.

Supervised graduate practicums, observations, internships in the teaching of English language and literature.

Master's Thesis Research

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

901. Studies in Comparative Literature

Fall, Winter, Spring. 3(3-0) Interdepartmental with Romance Languages.

Critical approaches to genre, periodization, and influence

940. Studies in Shakespeare

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

955. Studies in Shakespeare

Winter of odd-numbered years. 3(3-0) Special problems in Shakespeare.

970. Graduate Reading Course

Fall, Winter, Spring, Summer. 1 to 5 credits. Approval of department.

Supervised reading course in English and American literature for Ph.D. candidates.

Seminar in English Education

Fall, 3 to 5 credits. May reenroll for a maximum of 10 credits if different topics are taken. Approval of instructor.

Seminar in the teaching of English literature, language, and composition.

975. The Reading Process and the Concept of Literacy

Spring. 3(3-0) Approval of depart-

The contributions of language and literary studies to our understanding of the reading process and our definitions of literacy.

Studies in English Language

Fall, Winter, Spring. 3(3-0)

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)

Special problems in English literature, beginnings to 1660.

982. Seminar: Later English Literature

Fall, Winter, Spring. 3(3-0)

Special problems in English literature, 1660-1900.

983. Seminar: American Literature

Fall, Winter, Spring. 3(3-0)

Special problems in American literature, beginnings to 1900.

Seminar: Twentieth Century 984. Literature

Fall, Winter, Spring. 3(3-0)

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)

Forms, genres, and movements.

986. Seminar: American Literature and Culture

Fall, Winter, Spring. 3(3-0)

American literature in a cultural context, drawing upon popular and fine arts, the history of ideas, the history of social movements.

998. Advanced Writing for Doctoral Candidates

Fall. 3(3-0) Admission to a doctoral program or approval of instructor.

Training for writing dissertations and publishing in the sciences, humanitites, and other fields. Includes a detailed analysis of each student's style, methods of organizing, practice in editing, and individual conferences.

literature and drama.

999. Doctoral Dissertation Research

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

ENTOMOLOGY

ENT

College of Agriculture and Natural Resources College of Natural Science

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 interrelate with the insects.

250. Pesticides, Their Alternatives and Environmental Quality (N) Fall. 3(4-0)

Impact of agricultural pesticides on humans and their 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) BS 211 and BS 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) ENT 301 or concurrently.

Insect diversity with emphasis on morphology, development, classification, identification, bionomics, and evolution. Stresses reproductive strategies and general adaptability as relates to the overall ecological success of insects.

303. Entomological Techniques

Spring. 2(0-6) 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 bionomics. Collection required.

337. Forest and Shade Tree Entomology

Fall. 4(3-2) Three terms of natural sci-

ence

Ecological relationships of insect/tree interactions. Taxonomy of insects and recognition of insect injury. Biological, chemical, silvicultural and intergrated 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 study of published literature on a selected topic.

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.

415. Insect Behavior

Winter of even-numbered years. 3(3-0) ENT 301, ENT 302; ZOL 413 recommended. Mechanisms and adaptive significance of communication, orientation, food and habitat selection and behavioral rhymicity 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(3-3) ENT 301, ENT 302.

Biology, ecology and systematics of aquatic insects. Insect collection required.

425. Agricultural Entomology

Fall. 4(3-2) 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.

440. External Morphology of Insects Fall. 4(2-6) ENT 301, ENT 302, or ap-

proval of department.

Morphological concepts of external skeletal parts of insects. Emphasis on evolutionary development of structures from the Apterygota through the Pterygota.

444. Insect Ecology

 $Fall\ of\ odd-numbered\ years.\ 3 (3-0) \\ One\ course\ in\ introductory\ entomology.$

Unique characteristics and principles of insect ecology. Trophic relationships, populations, climate, co-existence, competition, behavior, communities and distributions.

450. Insect Physiology

Fall of even-numbered years. 5(3-4) ENT 301, ENT 302; 1 biochemistry or physiology course; 1 year of chemistry including 1 term of organic.

General and comparative physiology of insects, treating molecular, tissue and organ function. Laboratory exercises emphasizing mastery of sound experimental procedures.

455. Toxicology of Insecticides

Winter of odd-numbered years. 4(4-0) 1 term organic chemistry.

Properties of insecticides. Mode of action, metabolism and movement in animals. Safety and potential hazards to humans and wildlife. Fates of insecticides in the environment.

460. Medical Entomology

Spring. 4(3-3) ENT 301, ENT 302, or approval of department.

Distribution and biology of important arthroped vectors of diseases to humans, disease symptoms, life cycle of the infectious agent, reservoirs, urticating arthropods, anaphylactic reactions, myiasis, and prophylactic measures.

470. Nematode Diseases of Economic Plants

Spring. 4(3-3) B S 212 or BOT 205. Interdepartmental with the Department of Botany and Plant Pathology.

Major nematode diseases of economically important plants, with emphasis on diagnostic symptoms, nematode biology and principles of control.

478. Stream Ecology

Spring. 3(3-0) ENT 420, ZOL 389 or BOT 450 or F W 302 or approval of department. Students may not receive credit in both F W 478 and ENT 421. Interdepartmental with the departments of Fisheries and Wildlife and Zoology. Administered by the Department of Fisheries and Wildlife.

Biological, chemical, physical, and geological processes which determine the structure and function of stream ecosystems.

490. Topics in Entomology

Fall, Winter, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 12 credits. Majors or approval of department.

Advanced work in medical entomology, acarology, advanced forest entomology, soil arthropods, behavior and biological control.

812. Graduate Seminar Topics

Fall, Winter. 1(1-0) May reenroll if different topic is taken. Graduate students and approval of department.

Graduate level seminars on current research and philosophy. Student participation required.

815. Biological Control

Spring of even-numbered years. 3(2-3) Approval of department.

Properties of entomophagous species; relationships to population ecology and systematics; foreign exploration, colonization, manipulation, and evaluation; interactions with pesticides, analysis of successful programs, and future trends. Collection for taxonomic lab to be made the summer before.

820. Applied Insect Ecology

Winter of odd-numbered years. 3(2-3) Approval of department.

Ecological factors in an insect's ecosystem that can be manipulated for the purpose of pest management. Critical evaluation of current and classical literature presented by students in both oral and written reports.

871. Biology of Nematodes

Spring. 4(2-6) ENT 470 or approval of department. Interdepartmental with the Department of Botany and Plant Pathology.

Ontogeny, taxonomy, morphology, pathology and ecology of nematodes, with special reference to plant-parasitic and phytopathogenic species.

881. Biology of the Arthropoda

Winter. 5(3-6) ZOL 481 or approval of department. Interdepartmental with and administered by the Department of Zoology.

Ecology, life cycles, morphology, taxonomy, and distribution of anthropods other than insects.

890. Problems

Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 12 credits. Majors or approval of department.

Advanced individual work in: apiculture, aquatic insects, insect biochemistry, biosystematics, economic insects, insect ecology, forest insects, morphology, nematology, insect physiology, plant disease transmission, insect toxicology, araneida, acarina, medical entomology, chemistry of insecticides, insect biology, extension entomology, systems.

899. Master's Thesis Research

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