

COURSE DESCRIPTIONS

EE 465. ROBOTIC DESIGN. (3) *Prerequisites: Junior standing and consent of instructor. A pass / fail course for students involved in the design and building of the EE robot project.*

EE 470. COMMUNICATIONS AND MODULATION. (3) *Prerequisite: EE 420 and STAT 301. Corequisite: EE 475.* Topics include modulations such as AM, FM, PAM, PPM, PDM, single sideband, vestigial sideband. Coherent and non-coherent detection, heterodyne action, performance and distortion, circuits for modulation and demodulation.

EE 473. ELECTROMAGNETICS I. (3) *Prerequisites: MATH 237, MATH 331 and a grade of "C" or better in PHYS 265.* Topics include electrostatic and magnetostatic fields; Faraday's laws, Maxwell's equations, electromagnetic properties of matter, uniform plane waves, and transmission lines.

EE 475. COMMUNICATION SYSTEMS LAB. (1) *Prerequisite: EE 420. Corequisite: EE 470.* Topics include laboratory exercises involving the design and analysis of electronic communication systems for the transmission of analog and digital data at radio frequencies.

EE 477. NUMERICAL TECHNIQUES IN ELECTROMAGNETICS. (3) *Prerequisite: EE 473 or PHYS 440.* Topics include finite difference and finite element solutions to problems in electromagnetics; absorbing boundaries for wave propagation; convergence and stability; validation with empirical and analytical approaches.

EE 479. OPTOELECTRONICS. (3) *Prerequisites: EE 345 and EE 473.* Topics include basic wave optics, Snell's Law, optical storage, LED's micro-opto-electromechanical systems, optical sensors, fiber optics, solar cells, and fundamentals of lasers.

EE 480. EMBEDDED SYSTEMS. (3) *Prerequisite: EE 380.* A continuation of the study of digital systems and microprocessors focusing on the principles and applications of embedded systems.

EE 490. INTRODUCTION TO ROBOTICS. (3) *Prerequisite: EE 420.* History and application of robots. Robot configurations including mobile robots. Spatial descriptions and transformations of objects in three-dimensional space. Forward and inverse manipulator kinematics. Task and trajectory planning.

ELED – ELEMENTARY EDUCATION SCHOOL OF TEACHER EDUCATION

ELED 345. TEACHING STRATEGIES FOR ELEMENTARY TEACHERS. (3) *Prerequisites: EDU 250 and PSY 310 with a grade of "C" or higher; a passing score on specified standardized instrument, overall GPA of 2.75 or higher, and admission to Teacher Education pending. Prerequisite or Corequisite: SPED 330.* Integrates planning and evaluative techniques with appropriate learning theories. Learning activities for the full range of ability / development levels of students are prescribed.

ELED 355. STUDENT DIVERSITY IN THE CLASSROOM. (3) *Prerequisites: EDU 250, PSY 310, SPED 330 and ELED 345 with a grade of "C" or higher; and admitted to Teacher Education. Corequisites: ELED 407 and 365.* Focus will be on the range of student diversity and identification of characteristics of children in an integrated elementary classroom. Field experiences in public schools and / or other appropriate settings away from campus are required. Students are responsible for their own transportation to designated or assigned sites.

ELED 365. TEACHING STRATEGIES FOR ELEMENTARY TEACHERS II. (3) *Prerequisites: ELED 345 and SPED 330 with grades of "C" or higher, and admitted to Teacher Education. Corequisites: ELED 407 and ELED 355.* The second course in a two course series dedicated to teaching strategies. Focuses on strategies unique to teaching in an integrated elementary classroom. Field experiences in public schools and / or other appropriate settings away from campus are required. Students are responsible for their own transportation to designated or assigned sites.

ELED 405. TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL. (3) *Prerequisites: MATH 308, ELED 355, ELED 365, and ELED 407, all with grades of "C" or higher; completion of General Education Category D1 science courses, and admitted to Teacher Education. Corequisites: ELED 406 and 465.* Materials and methods of instruction in mathematics for grades P-5 with emphasis upon creative utilization of available materials and techniques. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

ELED 406. TEACHING SCIENCE IN THE ELEMENTARY SCHOOL. (3) *Prerequisites: MATH 308, ELED 355, ELED 365, and ELED 407, all with grades of "C" or higher; completion of General Education Category D1 science courses, and admitted to Teacher Education. Corequisites: ELED 405 and ELED 465.* A study of the objectives and place of science in grades P-5. The course includes planning units of work, organizing and using materials and resources, and developing ability in the techniques of elementary school science teaching. Field experiences in public schools and / or other appropriate settings away from campus are required in this

course. Students are responsible for arranging their own transportation to designated or assigned sites. **Course fee**

ELED 407. MATERIALS AND METHODS IN SOCIAL STUDIES. (3) *Prerequisites: ELED 345 and SPED 330 with grades of "C" or higher; admitted to Teacher Education, and completion of the General Education Category "C" Social and Behavioral Science courses. Corequisites: ELED 365 and ELED 355.* A study of the objectives, materials, organization, and instructional techniques in the social studies appropriate to grades P-5. Field experiences in public schools and / or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

ELED 465. SENIOR PROJECTS IN ELEMENTARY EDUCATION. (3) *Prerequisites: MATH 308, ELED 355, ELED 365, and ELED 407, all with grades of "C" or higher; completion of General Education Category D1 science courses, and admitted to Teacher Education. Corequisites: ELED 405 and ELED 406.* Part of the professional block semester, which is the culminating experience for elementary teacher candidates prior to the student teaching semester. Projects related to the corequisite courses will be completed. Field experience in public school and / or other appropriate settings away from campus will be required. Students are responsible for their own transportation to designated or assigned sites.

ELED 490. STUDENT TEACHING. (5-10) *Prerequisites: Admission to teacher education; admission to student teaching; and completion of the following courses with grades of "C" or higher: MATH 205, 206, and 308. Corequisite: EDU 489.*

Supervised assignment in approved school setting. Must complete a minimum of 70 days in one or two placements depending on certification requirements. Students follow the academic calendar of the school district in which they are placed and are responsible for providing their own transportation to assigned site(s). **Course Fee**

ELED 491. LECTURE IN LIEU OF STUDENT TEACHING. (5) Seminar in current issues in teaching for certified teachers seeking additional endorsement. Director of Student Teaching approval required.

EM – ENGINEERING MECHANICS DEPARTMENT OF ENGINEERING

EM 221. UK STATICS. (3) *Prerequisite: MATH 136. Prerequisites or corequisite: MATH 137, PHYS 255.* A study of forces on bodies at rest. Vector algebra, study of force systems, equivalent force systems, distributed forces, internal forces, principles of equilibrium, application to trusses, frames and beams and friction. This course is delivered by the University of Kentucky.

EM 222. WKU STATICS. (3) *Prerequisite: MATH 136. Prerequisites or corequisites: MATH 137 and PHYS 255.* A study of forces on bodies at rest. Vector algebra, study of force systems, equivalent force systems, distributed forces, internal forces, principles of equilibrium, application to trusses, frames, and beams and friction. Course delivered by Western Kentucky University.

EM 302. UK MECHANICS OF DEFORMABLE SOLIDS. (3) *Prerequisites: EM 222 with a grade of "C" or better, MATH 137.* A study of fundamental principles and physical laws governing the response of mechanical components to external forces. Concepts of stress, equivalent systems, rigid body equilibrium, stress-strain and deformation, torsion, internal forces and bending moments, shear and bending moment diagrams, flexural loading, Mohr's circle and pressure vessels are presented. This course is to be delivered by the University of Kentucky.

EM 303. WKU MECHANICS OF DEFORMABLE SOLIDS. (3) *Prerequisites: MATH 137 and EM 221 with a grade of "C" or better.* Study of fundamental principles and physical laws governing the response of mechanical components to external forces. Concepts of stress, equivalent systems, rigid body equilibrium, stress-strain and deformation, torsion, internal forces and bending moments, shear and bending moment diagrams, flexural loading, Mohr's circle and pressure vessels are presented. This course is delivered by Western Kentucky University.

EM 313. DYNAMICS. (3) *Prerequisites: EM 221 or 222 with a grade of "C" or better; MATH 331 (may be taken concurrently).* Study of the motion of bodies. Kinematics: Cartesian and polar coordinate systems, normal and tangential components, translating and rotating reference frames. Kinetics of particles and rigid bodies: laws of motion: work and energy; impulse and momentum.

ENG – ENGLISH DEPARTMENT OF ENGLISH

ENG 051. WRITING FOR NON-NATIVE ENGLISH SPEAKERS. (3-6) *Prerequisite: COMPASS Writing Skills Placement Test score of 59 or below or equivalent standardized test score.* A writing course designed to give non-native speakers of English preparation for ENG 100. A grade of "C" or better is a requirement for ENG 100. Equivalent to DENG 051C.

ENG 100. INTRODUCTION TO COLLEGE WRITING. (3) *Prerequisites:* Minimum score of 16 on English section of ACT or 60 on Compass Writing Skills Placement Test or successful completion of DENG 055 or DENG 051 with a grade of "C" or better. Students with ACT English scores of 16 and 17 or 60 to 73 on the Compass Writing Skills Placement Test will be required to attend an enhanced section of ENG 100 which includes an extra hour of class time. Students who have unsuccessfully attempted ENG 100 (earned grade of W, F, or FN) may not retake ENG 100 as a WEB section except under extraordinary circumstances, and then only with the written permission of the Director of Composition. Emphasizes writing for a variety of rhetorical situations with attention to voice, audience and purpose. Provides practice in development, organization, revision and editing. Introduces research skills. Equivalent to ENGL 100C. **Colonnade F-W1 | WC**

ENG 104. INTRODUCTION TO LINGUISTICS. (3) A general introduction to language study with emphasis on units of sound, units of meaning, sentence structure, dialects, and other cultural aspects of language. Focus is on the English language.

ENG 200. INTRODUCTION TO LITERATURE. (3) *Prerequisite:* ENG 100. Introductory study of fiction, poetry, and drama demonstrating techniques by which literary artists reflect human experience. Substantial student writing about literature will be required. Equivalent to ENGL 200C. **Colonnade F-AH | AH**

ENG 202. HONORS FORUM. (1) An informal introduction to English honors. Topics vary by term.

ENG 203. CREATIVE WRITING. (3) *Prerequisites:* ENG 100 and 200. An introduction to the writing of poetry, fiction, creative nonfiction and drama as genres of literary expression. Equivalent to ENGL 203C.

ENG 290. ENGLISH TOPICS ABROAD. (1-3) *Prerequisite:* Permission of instructor. This course focuses on special topics in English that are appropriate to study abroad sites, such as comparative literature or travel writing. Only taught in study abroad programs. Will not count for the English major. May be repeated twice, for a total of 9 hours.

ENG 299. INTRODUCTION TO ENGLISH STUDIES. (3) *Prerequisite:* ENG 200 or permission of instructor. Introduction to the discipline of English studies for literature and writing majors, including exploration of issues and conflicts within the discipline, strategies for reading and researching literary texts, overview of requirements and opportunities within the major and introduction to career and graduate study options.

ENG 300. WRITING IN THE DISCIPLINES. (3) *Prerequisites:* ENG 100 and 200 or equivalent. Interdisciplinary writing course to be taken in the junior year. Students will read and write about challenging texts from a number of fields. Each student will produce a substantial research project appropriate to his or her chosen field. **Colonnade F-W2 | WC**

ENG 301. ARGUMENT AND ANALYSIS IN WRITTEN DISCOURSE. (3) *Prerequisites:* ENG 100 and ENG 300. A survey of major theories of argument and analysis with special attention to writing effective argumentative and analytical essays.

ENG 302. LANGUAGE AND COMMUNICATION. (3) *Prerequisite:* ENG 100. A course in English grammar and usage designed primarily for elementary education majors. Emphasis is given to sentence structure. Attention is also given to the nature of language, historical backgrounds, dialects, and standards of correctness.

ENG 303. INTERMEDIATE FICTION WRITING. (3) *Prerequisites:* ENG 200 and 203 or permission of instructor. A concentrated study of the techniques of writing fiction, emphasizing contemporary theory and practice.

ENG 304. ENGLISH LANGUAGE. (3) *Prerequisite:* ENG 100. Study of the structure of English words and sentence patterns including review of the historical conditions leading to the development of Modern English grammar.

ENG 305. INTERMEDIATE POETRY WRITING. (3) *Prerequisites:* ENG 200 and 203 or permission of instructor. An intensive course in the writing of poetry. Some attention to the practice and prevalent theories of contemporary poets.

ENG 306. BUSINESS WRITING. (3) *Prerequisite:* ENG 100. Designed to meet the needs of students in business fields, this course teaches the preparation of written reports, case studies, and other forms of professional writing.

ENG 307. TECHNICAL WRITING. (3) *Prerequisite:* ENG 100. Designed to meet the needs of students in engineering and other technical fields, this course teaches the preparation of written and oral reports. Emphasizes formal and informal reports, but also includes various kinds of business letters, memoranda, and other forms necessary in the students' future professional role.

ENG 309. DOCUMENTARY FILM. (3) *Prerequisite:* ENG 200. Introductory study of documentary film and theory with special attention to the genre's complex reception as "non-fiction" in diverse social and cultural contexts. Among the forms to be

studied are the essay-film, cinema verite, reportage, and mockumentary. Will include a film viewing lab.

ENG 311. CREATIVE NONFICTION WRITING. (3) *Prerequisites:* ENG 200 and 203 or permission of the instructor. An intensive study of the writing of creative nonfiction (literary nonfiction prose), with emphasis on contemporary theory and practice.

ENG 320. AMERICAN STUDIES I. (3) *Prerequisite:* ENG 200 or the equivalent and 21 hours of Foundations and Explorations Courses, or junior status. Designed to examine the diverse origins and the decisive elements in the development of American culture and to provide a wide cultural appreciation and a greater understanding of the mainstream of American thought. **Colonnade K-SC**

ENG 321. AMERICAN STUDIES II. (3) *Prerequisite:* ENG 200 or the equivalent. Designed to examine further the diverse origins and the decisive elements in the development of American culture and to provide a wide cultural appreciation and a greater understanding of the mainstream of American thought.

ENG 329. SPECIAL TOPICS IN CREATIVE WRITING. (3) *Prerequisite:* ENG 203. A semester-long, detailed study of a specified topic in creative writing. May be repeated twice for a maximum of nine credit hours.

ENG 333. MEDIEVAL LITERATURE. (3) *Prerequisites:* ENG 100 and 200. A survey of representative literary works of the Middle Ages selected from various cultures, with an emphasis on the continuities of medieval literary traditions and cultural values. Non-English works will be read in translation.

ENG 339. SPECIAL TOPICS IN LITERATURE. (3) *Prerequisite:* ENG 200 or equivalent. A semester-long, detailed study of a specified topic in literature. May be repeated twice for a maximum of nine hours credit.

ENG 340. SPECULATIVE FICTION. (3) *Prerequisite:* ENG 200 or the equivalent. A survey of the development of the genre, including science fiction, and its relationship to main literary currents.

ENG 349. SPECIAL TOPICS IN PROFESSIONAL WRITING. (3) *Prerequisite:* ENG 306 or 307. A semester-long, detailed study of a specified topic in professional writing. May be repeated twice for a maximum of nine credit hours.

ENG 354. HISTORY OF DRAMA TO 1640. (3) *Prerequisite:* ENG 200 or the equivalent. A comprehensive course which traces the major developments in drama from the ancient Greeks to 1640. Emphasis on representative dramatists and plays. Equivalent to THEA 354.

ENG 355. HISTORY OF DRAMA SINCE 1640. (3) *Prerequisite:* ENG 200 or the equivalent. A continuation of ENG 354. Equivalent to THEA 355.

ENG 358. DRAMA WRITING. (3) *Prerequisites:* ENG 200 and 203 or permission of instructor. A concentrated study of the techniques of drama writing emphasizing contemporary theory and practice. Equivalent to THEA 358.

ENG 360. GAY AND LESBIAN LITERATURE. (3) *Prerequisites:* ENG 100 and 200. Introduction to gay and lesbian literature from antiquity to present, with emphasis on concepts of sex and gender, critical theory and cultural constructionism in global and historical contexts.

ENG 365. FILM ADAPTATION. (3) *Prerequisites:* ENG 100 and 200. Examines the adaptation of literary works into film not only as an intertextual product but as a process of creative transformation, with emphasis on film analysis and some attention to adaptation theory.

ENG 366. HISTORY OF NARRATIVE FILM. (3) *Prerequisites:* ENG 100 and 200. Examines the history and development of narrative film from the silent era to the present. Emphasis on specific narrative conventions of Hollywood cinema. Equivalent to FILM 366.

ENG 368. JAPANESE CINEMA IN TRANSLATION. (3) *Prerequisite:* ENG 200. Examines major periods, genres and figures in Japanese cinema, with appropriate background readings in Japanese history / culture. Emphasizes a comparison of Japanese cinema with Hollywood and explores the influence of Japanese cinema on other world cinema.

ENG 369. COOPERATIVE EDUCATION IN ENGLISH I. (3) *Prerequisite:* Admission to departmental cooperative program. Appropriate supervised work with a cooperating organization.

ENG 370. MULTICULTURAL LITERATURE IN AMERICA. (3) *Prerequisite:* ENG 200 or Colonnade Category F-AH. Study of literature written in the U.S. by writers from a variety of racial and ethnic groups.

ENG 381. SURVEY OF ENGLISH LITERATURE I. (3) *Prerequisite:* ENG 200. A study of selected works by representative major authors reflecting the chronological development of English literature to 1798.

ENG 382. SURVEY OF ENGLISH LITERATURE II. (3) *Prerequisite:* ENG 200. A study of selected works by representative major authors reflecting the chronological development of English literature from 1798 to the present.

COURSE DESCRIPTIONS

ENG 385. WORLD LITERATURE. (3) *Prerequisite: ENG 200 or the equivalent.* Study of selected works in translation by major figures in world literature from ancient Greece to modern Europe, exclusive of British and American writers.

ENG 387. STUDIES IN AUTOBIOGRAPHY. (3) *Prerequisites: ENG 100, 200, and 300.* An examination of the literary components and cultural context of autobiographical works, with particular emphasis on under-represented groups, gender, race, and class.

ENG 389. COOPERATIVE EDUCATION IN ENGLISH II. (3) *Prerequisite: Admission to departmental cooperative program.* Appropriate supervised work with a cooperating organization.

ENG 390. MASTERPIECES OF AMERICAN LITERATURE. (3) *Prerequisite: ENG 200. Prerequisite or corequisite: ENG 300.* Provides for familiarity with the better-known works of leading American authors. May be counted toward minor in writing but not toward English major or minor.

ENG 391. SURVEY OF AMERICAN LITERATURE I. (3) *Prerequisite: ENG 200.* A study of selected works by representative major authors reflecting the chronological development of American Literature to 1865.

ENG 392. SURVEY OF AMERICAN LITERATURE II. (3) *Prerequisite: ENG 200.* A study of selected works by representative major authors reflecting the chronological development of American Literature from 1865 to the present.

ENG 393. AFRICAN-AMERICAN LITERATURE. (3) *Prerequisite: ENG 200 or permission of instructor.* A critical study of the contributions of African-American writers to American literature.

ENG 394. KENTUCKY LITERATURE. (3) *Prerequisites: ENG 200 or Colonnade Category F-AH.* A survey of literary people and places in Kentucky, detailed study of several works of Kentucky writers.

ENG 395. CONTEMPORARY LITERATURE. (3) *Prerequisite: ENG 200.* A study of representative literature since World War II, stressing significant writers, thematic concerns, experiments in technique, and selected criticism. The course content, variable by genre, focuses primarily on fiction, poetry, or drama in alternate semesters.

ENG 396. MYTHOLOGY. (3) *Prerequisite: ENG 200 or the equivalent.* Greek, Roman and Norse myths and their influence on art and literature.

ENG 398. HEMINGWAY AND FAULKNER. (3) *Prerequisites: ENG 200 and honors participation or 3.2 GPA required.* A critical study of the major literary works of Ernest Hemingway and William Faulkner. For honors-eligible students only.

ENG 399. TOPICS IN ENGLISH. (3) *Prerequisite: ENG 200 or the equivalent.* A semester-long, detailed study of a specified topic in language, literature, or composition.

ENG 401. ADVANCED COMPOSITION. (3) *Prerequisites: ENG 100 and ENG 300.* Theory and practice in reading and writing various genres of non-fiction, including researched essays, cultural critique, exposition, narrative, and argument. Special attention to style, voice, arrangement and advanced writing techniques.

ENG 402. EDITING AND PUBLISHING. (3) *Prerequisites: Either ENG 306 or ENG 307 and one additional upper-level professional writing class.* Editing collections of student works in several types, including experience in computer text editing, lectures by visiting publishers and editors of books, journals, and newspapers.

ENG 403. WRITING MEMOIR AND AUTOBIOGRAPHY. (3) *Prerequisites: ENG 203 and 300.* A course in the techniques of writing autobiography; readings will be chosen primarily from contemporary American examples of the genre.

ENG 404. HISTORY OF THE ENGLISH LANGUAGE. (3) *Prerequisites: ENG 200 or Colonnade Category F-AH.* A study of the origins and development of the language from Indo-European to modern English, with emphasis on developments in the sound system, vocabulary and grammar. Attention is also given to historical and cultural forces, which have affected the language.

ENG 407. LINGUISTIC ANALYSIS. (3) *Prerequisite: ENG 104 or ENG 302 or ENG 304, or an equivalent.* The study of current linguistic theory, which includes the important levels of language as a means of communication, as well as some of the various theories and applications of linguistic theory to other fields of study.

ENG 408. PSYCHOLINGUISTICS AND SOCIOLINGUISTICS. (3) *Prerequisites: ENG 200 or Colonnade Category F-AH, and ENG 407.* The study of developmental psycholinguistics (language acquisition), experimental psycholinguistics (speech production / comprehension), and sociolinguistics (how language varieties are used by families, school systems and multicultural nations).

ENG 409. PRACTICUM IN ONE-TO-ONE WRITING INSTRUCTION. (1) *Prerequisites: ENG 200 or Colonnade Category F-AH.* Participants will study the theory and practice of writing conferences and tutorials. Course will prepare participants to work individually with students in tutorial settings.

ENG 410. COMPOSITION THEORY AND PRACTICE IN WRITING INSTRUCTION. (3) *Prerequisites: ENG 300 and either ENG 302 or ENG 304.* A study of contemporary theories of composition with an emphasis on their application to writing and the teaching of writing.

ENG 411. DIRECTED WRITING. (3) *Prerequisite: Permission of the instructor.* A tutorial for students to work under the supervision of a writing instructor. Students choose the form of writing they wish to pursue.

ENG 412. THEORY AND PRACTICE OF RHETORIC. (3) *Prerequisites: ENG 300 or Colonnade Category F-W2.* A survey of the history of rhetorical theory from the classical to the contemporary period with emphasis on how theories reflect and guide public and written discourse and the teaching of writing.

ENG 413. CREATIVE WRITING CAPSTONE. (3) *Prerequisites: Two upper-level writing courses; creative writing majors or minors with senior standing.* A capstone course in the creative writing concentration; provides a workshop setting for students with substantial creative writing projects.

ENG 414. ADVANCED PROFESSIONAL WRITING WORKSHOP. (3) *Prerequisites: Two upper-level writing courses in the Professional Writing option and senior standing.* A capstone course for students in the English major with a professional writing concentration; provides a workshop setting for students with substantial writing projects and culminates in production of a portfolio of professional writing.

ENG 415. WRITING AND TECHNOLOGY. (3) *Prerequisite: ENG 300.* Study of issues surrounding interrelations of technology and writing; effects of technologies (e.g., printing press, computers) on writing processes and on types of writing; institutional changes wrought by computers.

ENG 430. 19TH CENTURY AMERICAN LITERATURE. (3) *Prerequisite: ENG 200 or its equivalent.* Seminar in 19th Century American Literature; Course topics will vary.

ENG 455. AMERICAN DRAMA. (3) *Prerequisites: ENG 200 or Colonnade Category F-AH.* This course deals with the development of American drama from colonial productions to present-day plays. Equivalent to THEA 455.

ENG 457. BRITISH LITERATURE SINCE 1900. (3) *Prerequisites: ENG 100 and 200 or another course in Gen Ed Cat B-1.* A study of British literature from 1900 to the present, including fiction, poetry, and drama, with attention to innovations in literary form and cultural context.

ENG 459. MODERN DRAMA. (3) *Prerequisites: ENG 200 or Colonnade Category F-AH.* A selected study of dramatic literature since Ibsen with emphasis on evolving developments and trends in world theatre. Equivalent to THEA 459.

ENG 460. LITERARY THEORY AND CRITICISM. (3) *Prerequisites: ENG 100 and at least one upper-level literature course.* A study of theories and methods of literary and cultural analysis selected from ancient times to the present. Focus includes the written practice of criticism in response to a wide variety of texts.

ENG 465. FILM GENRES. (3) *Prerequisites: ENG 100 and 200 and either FILM 201 or ENG 365, or instructor's permission.* Study of the historical development, thematic and stylistic conventions, and cultural significance of film genre(s). Surveys representative films from one or two genres, e.g., film noir and the Western; romantic comedy and family melodrama; horror and science fiction; the musical; the war film; the epic. May be taken twice as long as genres differ. Equivalent to FILM 465.

ENG 466. FILM THEORY. (3) *Prerequisites: ENG 366, ENG 365; FILM 201, or permission of instructor.* Study of major theories of narrative film and related media; specific theories examined will include formalist, auteurist, historical, structuralist, psychoanalytical, and political. Will include viewing of selected films. Equivalent to FILM 466.

ENG 467. VISITING WRITER SUMMER WORKSHOP. (3) *Prerequisites: At least one creative writing class beyond ENG 203 Creative Writing and instructor permission required.* Advanced creating writing workshop. Offered for four weeks each summer by a visiting writing of national reputation. Alternating genres. May be repeated once if different genre.

ENG 468. EARLY MODERN ENGLISH LITERATURE. (3) *Prerequisite: ENG 200 or Colonnade Category F-AH.* A study of sixteenth- and seventeenth-century English literature with attention to the embrace of the vernacular, development of genres and poetic forms, and cultural and social contexts.

ENG 469. SECOND LANGUAGE ACQUISITION THEORY. (3) *Prerequisite: One linguistics course.* An introduction to theories, methods, and materials for teaching English as a second or foreign language.

ENG 470. METHODS AND MATERIALS FOR TEACHING ENGLISH AS A SECOND LANGUAGE. (3) *Prerequisites: ENG 469 or 469G and one linguistics course.* Selecting and evaluating commercially-prepared materials and developing teacher-made materials for Teaching English as a Second Language (TESL).

ENG 471. TEACHING ENGLISH AS A SECOND LANGUAGE PRACTICUM. (4)

Prerequisites: ENG 407, 408, 469, 470 and permission of the instructor.

Supervised observation and instruction in public schools or other appropriate settings, culminating in the production of a portfolio. Students are responsible for arranging their own transportation to designated or assigned sites. The class consists of 30 clock teaching hours and 15 classroom hours.

ENG 474. ADVANCED POETRY WRITING. (3) Prerequisite: ENG 305 or equivalent.

An advanced, intensive course in the writing of poetry, emphasizing the practice and prevalent theories of contemporary poets.

ENG 475. ADVANCED FICTION WORKSHOP. (3) Prerequisite: ENG 303 or equivalent.

An advanced and intensive course exploring the techniques of writing fiction, emphasizing contemporary theory and practice.

ENG 476. CRITICAL APPROACHES TO LITERATURE IN THE SECONDARY CURRICULUM. (3) Prerequisites: At least two 300- or 400-level literature courses.

For English for Secondary Teachers majors, this course surveys texts frequently presented in secondary classes—including widely anthologized short stories, drama, and poetry; classic novels; and contemporary young adult literature—and examines considerations of text selection and presentation.

ENG 481. CHAUCER. (3) Prerequisites: ENG 200 or Colonnade Category F-AH.

Representative works of Chaucer, with emphasis on the Canterbury Tales; some attention to the medieval background.

ENG 482. SHAKESPEARE. (3) Prerequisites: ENG 200 or Colonnade Category F-AH.

Major plays from each stage of Shakespeare's career studied in the light of current Shakespearean criticism and writings from the time.

ENG 484. BRITISH ROMANTICISM. (3) Prerequisites: ENG 200 or Colonnade Category F-AH.

Background and phases of romanticism, with a study of representative exponents of the Romantic Movement.

ENG 486. THE EIGHTEENTH CENTURY. (3) Prerequisites: ENG 200 or Colonnade Category F-AH.

The concentrated study of eighteenth century literature, forms, and developments.

ENG 487. DANTE'S DIVINE COMEDY AND ITS INFLUENCES. (3) Prerequisites: ENG 200 or Colonnade Category F-AH.

An intensive study of *The Divine Comedy*, in English translation, along with Dante's major sources and analogues.

ENG 488. LITERATURE OF THE VICTORIAN AGE. (3) Prerequisites: ENG 200 or Colonnade Category F-AH.

A study of selected works by major poets, essayists, and novelists of Victorian England as a reflection of the culture of the age.

ENG 489. THE ENGLISH NOVEL. (3) Prerequisites: ENG 200 or Colonnade Category F-AH.

The technique and history of the novel. Several representative novels studied.

ENG 490. THE AMERICAN NOVEL. (3) Prerequisites: ENG 200 or Colonnade Category F-AH.

History and technique of the American novel from Cooper to the present. Several representative novels are studied.

ENG 492. SENIOR SEMINAR. (1) Prerequisites: ENG 299 and senior standing.

In the Senior Seminar students will synthesize and assess what they have learned over the course of the English major by reviewing the discipline of English, exploring career and graduate studies opportunities, and collecting and revising selected major projects from previous classes.

ENG 493. AMERICAN POETRY. (3) Prerequisites: ENG 200 or Colonnade Category F-AH.

The course examines, in addition to major writers, selected major movements and schools in American poetry, paying special attention to influences, techniques, and styles.

ENG 495. SOUTHERN LITERATURE. (3) Prerequisites: ENG 200 or Colonnade Category F-AH.

This course traces the development of uniquely Southern characteristics as exhibited in the works of major writers of the South.

ENG 497. WOMEN'S LITERATURE. (3) Prerequisites: ENG 200 and 300.

An examination of the themes, aesthetic importance, and historical context of literature by women, with emphasis on American and British writers. Topic will vary by semester.

ENG 499. DIRECTED STUDY IN ENGLISH. (3) Prerequisites: 3.0 grade point average; senior standing.

A study of a specific literary or linguistic topic directed by a faculty member.

**ENGL – ENGLISH
SCHOOL OF UNIVERSITY STUDIES**

ENGL 100C. INTRODUCTION TO COLLEGE WRITING. See ENG 100.

ENGL 200C. INTRODUCTION TO LITERATURE. See ENG 200.

ENGL 203C. CREATIVE WRITING. See ENG 203.

ENGR – ENGINEERING**DEPARTMENT OF ENGINEERING****ENGR 175. UNIVERSITY EXPERIENCE-- ENGINEERING. (1) Prerequisite:** MATH 116 or eligibility for higher math course.

For beginning college freshmen or transfer students with fewer than 24 semester hours of credit. Topics include study skills, critical thinking, information literacy, exploration of engineering majors and careers, campus resources, effective teamwork skills, and basic computer tools regularly used by engineering students. Engineering design processes and practices introduced.

ENGR 295. INTRODUCTION TO RESEARCH METHODOLOGY. (1) Prerequisite: Ogden Research Scholar, or 3.2 grade point average at the end of freshman year, or Ogden College faculty member recommendation.

To familiarize Ogden Research Scholars and other research oriented students with the fundamentals of choosing a research topic, performing a bibliographical search on a subject, topic, classification of instruments, data taking, data reduction, professional ethics and other research oriented topics. The common points of research methodology in the different scientific areas will be accentuated. Examples will be drawn from the various disciplines. Use of computers will be emphasized. (Course does not count towards any major or minor.) Equivalent to BIOL 295, CHEM 295, CS 295, GEOL 295, MATH 295, and PHYS 295.

ENGR 400. PRINCIPLES OF SYSTEMS ENGINEERING. (3) Prerequisites: Junior standing in an engineering discipline; and EE 210 or EM 221, or EM 222 and STAT 301.

An overview of the field and relevant principles of systems engineering. Topics will prepare students to apply systems engineering theory to the solution of complex system-based engineering problems.

ENT – ENTREPRENEURSHIP**DEPARTMENT OF MANAGEMENT****ENT 308. INNOVATION MANAGEMENT. (3) Prerequisite:** Junior standing.

A study of innovation identification, capitalization and industry dynamics in entrepreneurial and intrapreneurial contexts. **Course Fee**

ENT 312. ENTREPRENEURSHIP. (3) Prerequisite: Junior standing and 21 hours of Foundations and Explorations Courses, or junior status.

A study of the entrepreneurial process. Topics include new business opportunities, market entry, access to resources, start-up steps, acquisition, franchising, and careers. Text, cases and hands-on business projects are used. **Course Fee | Colonnade K-SY**

ENT 380. NEW VENTURE BUSINESS PLANNING. (3) Prerequisite: ENT 312 or permission of instructor.

An in-depth analysis of business planning. The purpose and components of business plans and feasibility analyses are presented. Students prepare a written plan for venture, whether for or not-for profit. Students are strongly encouraged to enter the course with an idea for a venture. **Course Fee**

ENT 410. SENIOR SEMINAR-ENTREPRENEURSHIP. (3) Prerequisite: Senior standing.

A special topics course covering subjects of current interest in entrepreneurship. Class format varies with instructor. Can be repeated for a total of up to nine hours. **Course Fee**

ENT 425. INTERNATIONAL ENTREPRENEURSHIP. (3) Prerequisite: MGT 303 or ENT 312.

An introduction to the competitive global economy and entrepreneurship in the international context. Students develop an understanding of the entrepreneurial climate across countries and how to become more competitive in the global context. **Course Fee**

ENT 463. SMALL BUSINESS MANAGEMENT. (3) Prerequisites: ECON 150 or ECON 202 or ECON 203, ACCT 200, MKT 220 and ENT 312.

Provides a basic understanding of how to manage an ongoing small business and aids in the development of managerial skills necessary to operate small businesses. **Course Fee**

ENT 490. PRACTICUM IN ENTREPRENEURSHIP. (3) Prerequisites: ENT 312, junior standing, 2.5 cumulative GPA, and permission of the management chair and instructor.

Includes internships, independent studies, and special projects of interest in the entrepreneurship area. May include individual research projects as well as internships in profit or not-for profit organizations with duties relating to entrepreneurship. Projects must be approved by the Management Chair. **Course Fee**

ENT 496. SMALL BUSINESS ANALYSIS AND STRATEGY. (3) Prerequisites: Senior standing and CIS 243, FIN 330, MGT 210, MGT 314, MKT 220.

Opportunities for students to act in a management consultant relationship with selected small / medium regional entrepreneurial organizations, firms. Overall strategy and policy issues are emphasized. **Course Fee**