

**ENGR 2 Statics****Units:** 3.0 **Hours:** 3.0 Lecture

Vector treatment of two- and three-dimensional force systems acting on particles and engineering structures in equilibrium. Topics include forces, moments, couples, resultants, equilibrium conditions, trusses, centroids, moment of inertia, beams, shear and moment diagrams, cables, fluids and friction. **PREREQUISITE:** Mathematics 1A and Mathematics 1B and Physics 4A with a grade of 'C' or better.

**ENGR 3 Electric Circuit Analysis****Units:** 4.0 **Hours:** 3.0 Lecture and 3.0 Laboratory

An introduction to the theory of electric circuits. Topics include resistive circuits, voltage and current sources, network theorems, op-amp circuits, energy storage elements, RC, RL, and RLC circuits. **PREREQUISITE:** Mathematics 2C (may be taken concurrently) and Physics 4B with a grade of 'C' or better.

**ENGR 4 Properties Of Materials****Units:** 3.0 **Hours:** 3.0 Lecture

Basic principles of physics and chemistry are used to determine the quantitative relationships that describe the behavior of solids. Particular emphasis is placed upon the relationship between the structure and properties of crystalline solids. Applications consider control of properties as an engineering design variable. A term paper based upon review of the periodical technical literature is required. **PREREQUISITE:** Chemistry 1A and Physics 4A.

**ENGR 5 Engineering Programming and Problem Solving****Units:** 3.0 **Hours:** 2.0 Lecture and 3.0 Laboratory

An introduction to engineering problem solving using computer programming, numerical computing, and spreadsheets. Topics will include basic control structures, data types, input/output, an introduction to the design, implementation, testing and documentation of software, and the syntax and semantics of a modern programming language. Additional topics include matrix manipulation, curve plotting, finding solutions of ODEs, statistical analysis and presentation of data using available software. **PREREQUISITE:** Mathematics 1A with a grade of 'C' or better. May be taken concurrently.

**ENGR 10A Introduction to Engineering I****Units:** 2.0 **Hours:** 1.5 Lecture and 1.5 Laboratory

Engineering 10A introduces students to the engineering profession. Topics will include an introduction to the various engineering disciplines; the role of engineers and engineering in society; the curriculum requirements for the various engineering disciplines at different four-year institutions; academic success strategies; personal and professional development techniques; an introduction to the engineering design process; an introduction to engineering problem-solving methodologies; engineering ethics; communication skills; and working as a member of a team. **ADVISORY:** English 250.

**ENGLISH****ENGL 1A Composition and Reading****Units:** 4.0 **Hours:** 4.0 Lecture**Transferable:** CSU-GE:A2, IGETC:1A, GAV-GE:A2

English 1A is a composition course which focuses on the development and application of the academic writing process. Students read and assess models of expository, analytical, and argumentative prose to learn techniques of effective writing. Students practice strategies for planning, drafting, sharing, and revising essays in a variety of rhetorical modes. Students apply critical reading skills to the evaluation of source material in the development of a thesis-driven, research-supported essay. To create the research essay, students apply techniques in organizing, developing, and crafting prose which supports their arguments and balances outside sources with their own voice as writers. To achieve this end, students write no fewer than six essays (a minimum of 6,000 words) and read at least five works, two of which are book length. (C-ID: ENGL 100). Completion of English 1A meets transfer level and baccalaureate/university level equivalent. **PREREQUISITE:** English 250 and English 260 or equivalent with grade of 'C' or better or satisfactory score on the English Placement examination.

**ENGL 1B Composition and Literature****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU-GE:C2, IGETC:3B, GAV-GE:C2, GAV-GE:F

English 1B continues the work begun in 1A, but now the emphasis shifts to writing expository prose in conjunction with reading and analyzing imaginative literature. Students are to write as fledgling critics and use the text as a basis for other forms of reflection. The reading requirement includes short stories, poetry, drama, and at least two novels. Course work will also include fundamentals of research writing. Minimum 6,000 words of formal writing. (C-ID: ENGL 120) **PREREQUISITE:** English 1A with a grade of "C" or better.

**ENGL 1C Critical Reasoning and Writing****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU-GE:A3, IGETC:1B, GAV-GE:C2

This course is designed to develop critical thinking, reading, and writing skills beyond the level achieved in English 1A. The emphasis is on critical analysis of arguments and the development of the ability to integrate the principles of critical thinking into essay writing. Students will write a minimum of 6,000 words. (C-ID: ENGL 105) **PREREQUISITE:** English 1A with a grade of "C" or better.

**ENGL 2B American Ethnic Literature****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU-GE:C2, IGETC:3B, GAV-GE:C2, GAV-GE:F

Students will examine the concept of ethnicity in the context of contemporary American multi-ethnic literature: Native American, Hispanic American, Black American, Asian American. Students will critique this literature using the accepted elements of literary criticism. They will read and analyze selections from each literature and explain their results in journals, oral presentations, a research project and examinations. **PREREQUISITE:** Eligible for English 1A.

**ENGL 2C Introduction to Film and Fiction****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU-GE:C2, IGETC:3B, GAV-GE:C2

This is a literature course in analysis of the novel and film as art forms. The student will read several novels, view the films based on the novels, and discuss the difference in techniques, both orally and in writing. **PREREQUISITE:** Eligible for English 1A.

**ENGL 2E Introduction to Women Writers****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU-GE:C2, IGETC:3B, GAV-GE:C2, GAV-GE:F

This is a transfer literature class which examines the history of women as writers and distinguishes themes in women's literature using the tools of literary criticism. PREREQUISITE: Eligible for English 1A.

**ENGL 2F Children's Literature****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU-GE:C2, IGETC:3B, GAV-GE:C2, GAV-GE:F

A survey of texts for elementary and intermediate grades, with a focus on literary analysis, criticism and evaluation. Study of historical backgrounds and development of genres of children's literature in a cross section of cultures. This course has the option of a letter grade or pass/no pass. (C-ID: ENGL 180) PREREQUISITE: English 1A.

**ENGL 2J World Mythology****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU-GE:C2, IGETC:3B, GAV-GE:C2, GAV-GE:F

This course is a survey of myths from around the world, with an emphasis on literary analysis of the myths. The course covers the purposes and types of myths; the development of myths and mythological characters, the recurring elements of mythological structures, the influence of mythology on contemporary texts. PREREQUISITE: Eligible for English 1A.

**ENGL 4A British Literature - 449 to 1798 A.D.****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU-GE:C2, IGETC:3B, GAV-GE:C2

This course is a study of the masters of early British Literature from the years 449 - 1798 and the major literary trends within that time period. In this course, students will work to understand the language and concepts within early British poetry and prose, as well as explore the social and historical influences which inform this literature. (C-ID: ENGL 160) PREREQUISITE: Eligible for English 1A.

**ENGL 4B British Literature - 1798 to Present****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU-GE:C2, IGETC:3B, GAV-GE:C2, GAV-GE:F

This course is a study of the masters of British Literature from 1798 to present, as well as an exploration of major literary trends during the Romantic, Victorian, Modern, and Contemporary Literary Eras. Note: this course need not be taken in sequence. (C-ID: ENGL 165) PREREQUISITE: Eligible for English 1A, Composition.

**ENGL 5A Survey of American Literature - 1620 to 1865****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU-GE:C2, IGETC:3B, GAV-GE:C2, GAV-GE:F

This course is a study of the masters of American Literature and the major trends of literature from Pre-colonial times through to 1865. In this course, students will work to understand concepts within poetry and prose, examine common literary trends, as well as work to explain the social and historical influences which inform this literature. (C-ID: ENGL 130) PREREQUISITE: Eligible for English 1A.

**ENGL 5B Survey of American Literature - 1865 to Present****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU-GE:C2, IGETC:3B, GAV-GE:C2, GAV-GE:F

This course is a study of the masters of American Literature and the major trends of literature during the years 1865 to the present. The major trends can include Realism, Naturalism, Modernism, Post-Modernism, etc. (C-ID: ENGL 135) PREREQUISITE: Eligible for English 1A.

**ENGL 9A Introduction to Creative Writing****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU-GE:C2, GAV-GE:C2

This course allows writers to experiment with various forms of poetry and prose, including drama, fiction, poetry, and narrative non-fiction and includes the writing, reading, and discussion of such works. The class is primarily experiential, providing many opportunities for generation of new pieces of writing, some time for gentle encouraging feedback, and a focus on terminology to develop better understandings of both the process and craft of creative writing. (C-ID: ENGL 200) PREREQUISITE: Eligible for English 1A.

**ENGL 9B Advanced Creative Writing****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU-GE:C2, GAV-GE:C2

This class is a continuation of English 9A, with an emphasis on further development on the craft and production of various forms of poetry and prose, including drama, fiction, poetry, and narrative non-fiction and includes the writing, reading, and discussion of such works. The class remains primarily experiential, providing many opportunities for generation of new pieces of writing, some time for gentle encouraging feedback with a greater focus on developing leadership skills in that area as well as a deepening knowledge of terminology, in order to develop better understandings of both the process and craft of creative writing. PREREQUISITE: English 9A with a grade of 'pass' or C or better.

**ENGL 9C Creative Writing: Poetry****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU-GE:C2, GAV-GE:C2

This course is an immersion into poetry and its creation, providing students opportunities to practice the craft of poetry, receive feedback, and read poems by established writers. Emphasis will be placed on a variety of poetic forms and the development of terminology useful in both creating and analyzing poetry. PREREQUISITE: Eligible for ENGL 1A or completion of ENGL 9A.

**ENGL 9D Creative Writing: Fiction****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** CSU-GE:C1, GAV-GE:C2

This course is an immersion into fiction and its creation, providing students opportunities to practice the craft of fiction, receive feedback, and read fiction by established writers. Emphasis will be placed on exploring a variety of fictional elements and the development of terminology useful in both creating and analyzing fiction. PREREQUISITE: Eligible for ENGL 1A or completion of ENGL 9A.

**ENGL 12A Tutoring Writers: Training****Units:** 2.0 **Hours:** 2.0 Lecture

Fundamentals of compositional theory, the writing process, peer-to-peer communication, and effective responses to writing will be covered. In addition, students will receive training in tutoring methodology, while participating in a community of writers that connects them to their own writing practice. ADVISORY: Eligible for English 1A.

**ENGL 12B Tutoring Writers: Practice****Units:** 1.0 **Hours:** 1.0 Lecture

Practice in the writing process, peer-to-peer communication, interacting with faculty and educational institutions, and effective responses to writing will be covered. In addition, students will gain an understanding of writing pedagogy while participating in a community of writers that connect them to their own writing practice. ADVISORY: Eligible for English 1A.

**ENGL 12C Tutoring Writers: Theory****Units:** 1.0 **Hours:** 1.0 Lecture

Compositional theory and responses to writing across the curriculum will be covered. In addition, students will gain an understanding of the methodology and theory of tutoring pedagogy, while participating in a community of writers that connects them to their own writing practice. ADVISORY: Eligible for English 1A.

**ENGL 12D Tutoring Writers: Research****Units:** 1.0 **Hours:** 1.0 Lecture

Compositional theory and responses to writing across the curriculum will be covered. In addition, students will gain from inquiry questions and conduct research on tutoring methods, while participating in a community of writers that connects them to their own writing practice. **ADVISORY:** Eligible for English 1A.

**ENGL 99 Supplemental Instruction Leader Training****Units:** 1.0 **Hours:** 1.0 Lecture

Introduction to and practice of the craft of supplemental instruction. Development of effective communication and leadership skills to facilitate collaborative, interactive, and productive learning as a supplement to classroom instruction. Students read, observe, discuss, and reflect on SI theory and application in SI sessions. Recommended for supplemental instruction leaders employed on campus. **ADVISORY:** Eligible for English 1A.

**ENGL 250P Practical Writing****Units:** 3.0 **Hours:** 3.0 Lecture and 1.0 Laboratory

This course covers writing clear, correct, effective essays and learning preliminary research skills. This course will be offered as pass/no pass unless student requests a grade. **PREREQUISITE:** Eligibility for ENGL 440 or ENGL 420. **COREQUISITE:** ENGL 260P

**ENGL 250 Practical Writing****Units:** 3.0 **Hours:** 3.0 Lecture and 1.0 Laboratory

This course covers writing clear, correct, effective essays and learning preliminary research skills. Also listed as English 250P. This course has the option of a standard letter grade or pass/no pass. **PREREQUISITE:** Eligibility for English 440.

**ENGL 260P Preparation for College Reading****Units:** 3.0 **Hours:** 3.0 Lecture

This course covers writing clear, correct, effective essays and learning preliminary research skills. This course will be offered as pass/no pass unless student requests a grade. **PREREQUISITE:** Eligibility for ENGL 440 or ENGL 420. **COREQUISITE:** ENGL 250P

**ENGL 260 Preparation for College Reading****Units:** 3.0 **Hours:** 3.0 Lecture**Transferable:** GAV-GE:A3

This is a course presenting strategies in the technique and practice of college level critical reading and thinking skills. Also listed as English 260P. This course has the option of a standard letter grade or pass/no pass. **PREREQUISITE:** Eligibility for English 420.

**ENGL 414 English Boot Camp****Units:** 1.0 TO 3.0 **Hours:** 1.0 TO 3.0 Lecture

This immersion course is designed to improve fundamental academic skills in reading, writing, and studying necessary for success in first-year English courses. The course will introduce or review reading and writing strategies, paragraph organization, and vocabulary development. Opportunities for word processing; document formatting; and review of grammar, mechanics, and punctuation are provided. This is a pass/no pass course, and units earned do not count toward the associate degree or certificates.

**ENGL 420 Reading Improvement****Units:** 3.0 **Hours:** 3.0 Lecture and 1.0 Laboratory

This is a practical, "how to" course teaching various methods of learning and reading college material. Using group and individual instruction in vocabulary, comprehension, and study skills, the students will increase their ability to survive academically, to profit, grow and succeed in all college courses, and to enjoy reading and learning. Units earned in this course do not count toward the associate degree and/or certain certificate requirements. This course has the option of a letter grade or pass/no pass. **PREREQUISITE:** Satisfactory score on the English placement examination.

**ENGL 440 Basic Writing****Units:** 3.0 **Hours:** 3.0 Lecture and 1.0 Laboratory

This is an intensive study and application of basic grammar, sentence, and essay writing skills within the context of composing short essays. Units earned in this course do not count toward the associate degree and/or certain certificate requirements. **PREREQUISITE:** Satisfactory score on the English placement examination.

**ENGLISH AS A SECOND LANGUAGE****ESL 510B Basic ESL II****Units:** 6.0 **Hours:** 6.0 Lecture

This course is an intensive, integrated-skill program for students who have limited English skills. Through listening, speaking, reading and writing activities, students learn to communicate about every day topics using basic English structures. **ADVISORY:** ESL assessment recommendation.

**ESL 527 Integrated Reading, Writing I****Units:** 6.0 **Hours:** 6.0 Lecture

This is the first course in a series of integrated skills courses designed to develop the reading, writing and grammar skills of ESL students. This beginning course focuses on vocabulary development, basic reading strategies and comprehension, basic grammar and beginning writing skills (sentence level and basic paragraphs.) The aim of this course is to assist beginning level students in becoming more literate while participating in holistic reading and writing activities based on engaging multicultural topics. **PREREQUISITE:** ESL assessment recommendation.

**ESL 528 Integrated Listening, Speaking I****Units:** 6.0 **Hours:** 6.0 Lecture

This is the first in a series of integrated skills courses designed to develop the listening, speaking and pronunciation skills of beginning ESL students. Activities, which include listening exercises, role-play, pair work, small and large group discussions, interviews, oral presentations and pronunciation drills (focusing on English sounds and rhythm), are presented in the context of relevant, contemporary and intellectually challenging themes. This course is designed especially for students with academic objectives but is highly appropriate for students with personal language goals, as well. **PREREQUISITE:** Assessment recommendation.

**ESL 531 Intermediate ESL Listening, Speaking I****Units:** 4.0 **Hours:** 4.0 Lecture

In this course, listening and speaking skills are developed through extended listening exercises, open-ended dialogues, pair and group discussions, oral interviews, and oral reports. **PREREQUISITE:** ESL 521 or ESL 528 with a grade of 'C' or better or ESL Assessment Recommendation. Recommended concurrent enrollment in ESL 532 and 533.

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Noncredit ESL classes are listed on page 242.