

## Course Descriptions

**EGDT 2710**  
**Special Problems--Mechanical**  
 2:2:0 On Sufficient Demand  
 • Prerequisite(s): EGDT 2200 with a grade of C- or higher

An advanced course in mechanical layout and design using solid modeling techniques. Students, with approval, may design and layout projects of their choice. Final details are fabricated in the machine shop.

**EGDT 2720**  
**Special Problems--Surveying**  
 2:2:0 On Sufficient Demand  
 • Prerequisite(s): EGDT 2400 and (MATH 1060 or EGDT 1610) both with a grade of C- or higher

For people seeking a surveyor's license, civil engineering, drafting and construction management majors. Covers instrument maintenance and calibration, basic photogrammetry and surveying for photogrammetry, mine surveying, construction surveying, resection, and legal aspects of land surveying. Completers should have job skills for surveying and civil technology.

**EGDT 2730**  
**Special Problems--Civil Drafting**  
 2:2:0 Sp  
 • Prerequisite(s): EGDT 1400 with a grade of C- or higher

For people seeking a surveyor's license or intended Civil Engineering and Engineering Graphics and Design majors desiring a civil drafting emphasis. Covers preparation of drawings associated with surveying and civil engineering and design. Projects include: property surveys and subdivision design, geotechnical investigations, wastewater treatment, storm drains, highway design, topographic mapping, earthen and concrete dams, and NICET certifications.

**EGDT 2740**  
**Special Problems--Architectural**  
 2:2:0 On Sufficient Demand  
 • Prerequisite(s): EGDT 1100 with a grade of C- or higher

A special problems course in architectural drafting. Teaches how to layout and detail a floor plan using a 3D modeling package.

**EGDT 2750**  
**Special Problems--Architectural Rendering**  
 2:2:0 On Sufficient Demand

For students who wish to develop additional architectural rendering skills to enhance their job performance. Covers theory of perspective, laying out a building perspective from blueprints, inking techniques to develop a finished rendering, and quick coloring methods for ink renderings.

**EGDT 2760**  
**Special Problems--Structural**  
 2:2:0 On Sufficient Demand  
 • Prerequisite(s): EGDT 1300 with a grade of C- or higher

Provides opportunities for in-depth study in structural steel drafting. Teaches beam sizing and selection for design drawing. Requires a special class project with complete objectives and goals outlined and presented to the instructor for approval. Emphasizes project documentation. Computer graphics are an important part of this course.

**EGDT 2780**  
**Special Problems--Electrical**  
 2:2:0 On Sufficient Demand  
 • Prerequisite(s): EGDT 1010 with a grade of C- or higher

For students who wish to advance beyond EGDT 2010 through the development of an outside project which incorporates advanced theory and drawing procedures. The instructor will review project outline to ensure that it meets course objectives and will monitor student progress, establishing progressive goals.

**EGDT 281R**  
**Cooperative Work Experience**  
 1 to 8:0:5 to 40 Su, F, Sp

• Prerequisite(s): EGDT 1010, EGDT 1040, EGDT 1070, EGDT 1080, EGDT 1100, EGDT 1200, EGDT 1300, and EGDT 1400, all with a C- or higher  
 For drafting students to receive actual on-the-job work experience. Work assignments are set up with businesses and industries who are involved in drafting and design, construction or manufacturing. Two credits may apply toward graduation. Students receive pay for their work, but the real benefit is the on-the-job experience.

**EGDT 2850**  
**Cooperative Correlated Instruction/Orientation**  
 0.5:0:5:0 F

Designed to orient the student to opportunities offered by the school, department, community, and industry, and to assist cooperative work experience. Time is spent on the importance of working and communicating with others.

**EGDT 2860**  
**Cooperative Correlated Instruction/SkillsUSA**  
 0.5:0:5:0 Sp

SkillsUSA is a first-year class for Engineering Graphics and Design Technology majors. Includes leadership training, parliamentary procedure, job interview skills, prepared speaking, extemporaneous speaking, and organizational skills. Upon completion, the student should understand the SkillsUSA organization and how it helps to build leadership skills.

**EGDT 2870**  
**Portfolio and Career Preparation**  
 1:1:0 F, Sp

Required for Engineering Graphics and Design Technology majors. Teaches necessary job acquisition skills. Instructs students in the job search process, including production of typical types of correspondence, job interview techniques, and creation of presentation-quality portfolios. Correspondence includes letters of application, resumes, follow-up letters, letters of acceptance and rejection, and references. Interview techniques include interview preparation, appearance, and question/answer techniques. Final project is portfolio of samples of work in all areas of Engineering Graphics and Design Technology learned for the degree.

## ENGH—ENGLISH-BASIC COMPOSITION

**ENGH 0890**  
**Basic Writing I**  
 5:5:0 Su, F, Sp

• Prerequisite(s): Appropriate placement score  
 Requires students to create portfolios to display their essays and to model the stages of writing. Teaches students to distinguish formal from informal writing. Emphasizes writing as a reflection of their reading and speaking abilities. Fosters a community of writers by practicing literate activities in the classroom and online.

**ENGH 0990**  
**Basic Writing II**  
 5:5:0 Su, F, Sp

• Prerequisite(s): ENGH 0890 or Appropriate placement scores  
 Requires students to create portfolios that include informative, persuasive, and multiple-source essays. Helps students to understand peer review and collaborative learning processes both in the classroom and online. Prepares students for ENGL 1010 and other writing intensive courses by asking them to write for various academic audiences.

## ENGL—ENGLISH AND LITERATURE

**ENGL 1010\*\*** CC  
**Introduction to Writing**  
 3:3:0 Su, F, Sp

• Prerequisite(s): Appropriate placement scores or ENGH 0990 with a grade of C- or higher  
 Emphasizes, in writing intensive workshops, rhetorical knowledge and skills. Teaches critical reading, writing, and thinking skills. Explores writing situations as complex and recursive processes. Enhances basic literacies, addressing both rhetorical problems and conventions of language use (within the context of Standard Written English). Three major essays with graded revision(s), micro themes, in-class writing and collaboration, portfolios, and journals.

**ENGL 101H** CC  
**Introduction to Writing**  
 3:3:0 F, Sp

• Prerequisite(s): Appropriate placement scores or ENGH 0990 with a grade of C- or higher  
 Emphasizes, in writing intensive workshops, rhetorical knowledge and skills. Teaches critical reading, writing, and thinking skills. Explores writing situations as complex and recursive processes. Enhances basic literacies, addressing both rhetorical problems and conventions of language use (within the context of Standard Written English). Three major essays with graded revision(s), micro themes, in-class writing and collaboration, portfolios, and journals.

**ENGL 1060** GC  
**Career Writing for Technology**  
 3:3:0 F, Sp

Presents basic writing techniques. Includes letter writing, memos, resumes, process writing, description writing, library research skills, and writing policy documents. Satisfies the composition requirement for the Certificate, Diploma, and the AAS Degree.

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**ENGL 106A** GC  
**Career Writing for Technology--A**  
 2:2:0 F, Sp

Presents basic writing techniques. Includes letter writing, memos, resumes, process writing, and description writing. Ten weeks in length. Satisfies the composition requirement for the Certificate, Diploma, and the AAS Degree.

**ENGL 2010\*\*** CC  
**Intermediate Writing--**  
**Humanities/Social Sciences**  
 3:3:0 Su, F, Sp

• Prerequisite(s): ENGL 1010 with a grade of "C-" or better  
 Explores interfaces between the personal and the public and invokes problems for exploration. Emphasizes the production of well-reasoned and carefully researched written arguments that embody the spirit of inquiry, explore and interrogate multiple perspectives, and negotiate meanings across a diverse array of positions. Three major research projects (with at least one mandatory, graded revision), annotated bibliography, oral presentations, portfolios, journals, in-class writing and collaboration.

**ENGL 201H** CC  
**Intermediate Writing--**  
**Humanities/Social Sciences**  
 3:3:0 F, Sp

• Prerequisite(s): ENGL 101H or ENGL 1010 with a C- or better  
 Explores interfaces between the personal and the public and invokes problems for exploration. Emphasizes the production of well-reasoned and carefully researched written arguments that embody the spirit of inquiry, explore and interrogate multiple perspectives, and negotiate meanings across a diverse array of positions. Three major research projects (with at least one mandatory, graded revision), annotated bibliography, oral presentations, portfolios, journals, in-class writing, and collaboration.

**ENGL 2020\*\*** CC  
**Intermediate Writing--Science and Technology†**  
 3:3:0 Su, F, Sp

• Prerequisite(s): ENGL 1010 with a grade of C- or better  
 Instructs students in exploring and practicing writing typical of academic discourses in science and technology. Emphasizes rhetorical awareness; the production of inquiry-driven, well reasoned, and carefully researched written arguments; and conventions appropriate to academic writing in social sciences, sciences, and technology. Includes one or more major research projects with annotated bibliography and may include collaboration, in-class writing, oral presentations, journals, and portfolios. Does not teach technical writing; shares outcomes with ENGL 2010.

**ENGL 202H** CC  
**Intermediate Writing--Science and Technology**  
 3:3:0 F, Sp

• Prerequisite(s): ENGL 101H or ENGL 1010 (C- or better)  
 Instructs students in exploring and practicing writing typical of academic discourses in science and technology. Emphasizes rhetorical awareness; the production of inquiry-driven, well reasoned, and carefully researched written arguments; and

conventions appropriate to academic writing in social sciences, sciences, and technology. Includes one or more major research projects with annotated bibliography and may include collaboration, in-class writing, oral presentations, journals, and portfolios. Does not teach technical writing; shares outcomes with ENGL 2010.

**ENGL 2030** HH  
**Rhetoric of Persuasion**  
 3:3:0 Not 09-10

• Prerequisite(s): ENGL 2010 or ENGL 2020 or instructor/ advisor approval  
 For students from all disciplines interested in the power and control of written and oral language. Teaches principles of language use from ancient Greece to current trends, from politics to advertising. Studies critique, persuasion and its roles, the ethical responsibilities of persuasive language, and the role of language as a tool for success. Includes active class discussions, student-led activities, oral presentations, and final projects in fields of students' choice. Completers should have improved confidence in and control over written and oral language and all that language can accomplish.

**ENGL 2050** F  
**Editing**  
 3:3:0

• Prerequisite(s): ENGL 1010  
 Covers the essentials of editing manuscripts for publication. Provides students with the necessary knowledge of punctuation, grammar and usage as well as the symbols and conventions of editing.

**ENGL 2130** HH  
**Science Fiction**  
 3:3:0 Sp

• Prerequisite(s): ENGL 1010  
 • Corequisite(s): ENGL 1010  
 Presents a chronological survey of major Science Fiction authors from Mary Shelley (1818) to the present. Emphasizes the importance of character, setting, plot, and scientific ideas in analyzing literature. Uses discussion, lectures, videos, and films to help students increase appreciation for the literary genre and its works. Completers will have a better understanding of science fiction, plus enhanced writing skills.

**ENGL 2150** Sp  
**Critical Introduction to Cinema Studies**  
 3:2:3

• Prerequisite(s): ENGL 2010 or ENGL 2020  
 Studies film as an aesthetic and cultural medium. Teaches the fundamentals of film, including narrative form, mis en scene, cinematography, editing, sound, and non-narrative forms. Teaches film analysis, including ideological approaches, and considers film as a cultural institution. Includes discussion, lecture, film screenings, papers, and tests.

**ENGL 217G** (Cross-listed with: COMM 217G)  
**Race Class and Gender in U.S. Cinema**  
 3:2:2 F

• Prerequisite(s): ENGL 1010  
 Raises cultural awareness through aesthetic, critical, and interdisciplinary examination of the evolution of the representation of race, class, and gender in American cinema. Focuses on both Hollywood and independent minority filmmakers. Some films

screened may carry an 'R' rating.

**ENGL 2200** HH  
**Introduction to Literature**  
 3:3:0 Su, F, Sp

• Prerequisite(s): ENGL 1010  
 • Corequisite(s): ENGL 1010  
 Introduces literary appreciation. Teaches criticism and terminology as applied to various types of literature, including fiction, poetry, and drama. Uses discussion, lecture, films, videos, and tests.

**ENGL 2210** HH  
**Introduction to Folklore**  
 3:3:0 F

• Prerequisite(s): ENGL 1010  
 • Corequisite(s): ENGL 1010  
 Introduces the study of folklore. Presents the dynamics of the traditional expressions of a variety of folk groups. Emphasizes folklore performance and its cultural context. Provides practical experience in folklore collection.

**ENGL 2230\*\*** HH  
**Myths and Legends in Literature**  
 3:3:0 F, Sp

• Prerequisite(s): ENGL 1010  
 • Corequisite(s): ENGL 1010  
 Introduces students to myths and legends that are the foundation of literature. Uses discussion, storytelling, videos, journals, and portfolios.

**ENGL 223H** HH  
**Myths and Legends in Literature**  
 3:3:0 F, Sp

• Prerequisite(s): ENGL 1010  
 Provides a thorough foundation for the study of classical mythology; explores common myth themes through guided research and projects in world myth; analyzes myth through a variety of theoretical perspectives. Focuses on lecture, discussion, written and oral presentations, myth analysis, exams, and papers.

**ENGL 2250\*\*** HH  
**Creative Process and Imaginative Writing**  
 3:3:0 F, Sp

Introduces students to the basic literary elements of writing short fiction, drama, personal essay, poetry, or combinations of these. Uses readings, workshops, guest speakers, and student written work to enhance the techniques and aesthetics of creative writing. Note: This course does not replace any of UVU's Writing Program/Composition courses for the AA/ AS degree.

**ENGL 225H** HH  
**Creative Process and Imaginative Writing**  
 3:3:0 F, Sp

Studies different literary genres -- fiction, poetry, drama, personal, and expository essay through lecture, discussion, and presentation of student's own work. NOTE: This course does not replace any English composition courses for the AS/AA and AAS degrees.

**ENGL 2300\*\*** HH  
**Shakespeare**  
 3:3:0 Su, F, Sp

• Prerequisite(s): ENGL 1010  
 • Corequisite(s): ENGL 1010  
 For General Education students and English majors. Introduces several Shakespeare plays with

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particular attention to analysis and critical review of Shakespeare's works. Teaches comprehension of Shakespeare's works and their continued cultural stature. Explores aspects of dramatic performance and a selection of Shakespeare's poetry. May include discussion, lectures, films, papers, examinations, and attending or performing in plays or scenes from plays. Completers should be able to interpret Shakespearean literature and explain the relationship of Shakespeare's works to the world of today.

**ENGL 230H Shakespeare** HH  
3:3:0 F

• Prerequisite(s): ENGL 1010  
For General Education students and English majors. Introduces several Shakespeare plays with particular attention to analysis and critical evaluation of Shakespeare's works. Teaches comprehension of Shakespeare's works and their continued cultural stature. Explores aspects of dramatic performance and a selection of Shakespeare's poetry. May include discussion, lectures, films, papers, examinations, and attending or performing in plays or scenes from plays. Completers should be able to interpret Shakespearean literature and explain the relationship of Shakespeare's works to the world of today.

**ENGL 2310 Technical Communication** HH  
3:3:0 F, Sp

• Prerequisite(s): ENGL 1010  
For Technical Communication minors and those interested in improving their professional and technical communication knowledge and abilities. Emphasizes clear and concise written, oral, and visual communication strategies. Includes creation of professional documents such as technical descriptions, proposals, correspondence, and other work-related communication in both print and electronic media.

**ENGL 2510 American Literature before 1865** HH  
3:3:0 Su, F, Sp

• Prerequisite(s): ENGL 1010  
• Corequisite(s): ENGL 1010  
Surveys American essays, letters, biographies, fiction, and poetry up to 1865. Studies literature as a reaction to American and world events and to the general condition of the American people through discussion, lecture, videos, and writing.

**ENGL 2520 American Literature after 1865** HH  
3:3:0 Su, F, Sp

• Prerequisite(s): ENGL 1010  
• Corequisite(s): ENGL 1010  
Surveys American essays, letters, biographies, fiction, drama, and poetry from 1865 to the present. Studies literature as a reaction to American and world events and to the general condition of the American people through discussion, lecture, videos, and writing.

**ENGL 2600 Critical Introduction to Literature** HH  
3:3:0 Su, F, Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020  
Surveys contemporary critical, theoretical, and ideological approaches to literature (such as structuralist, poststructuralist, psychoanalytical,

feminist / gender, Marxist, new historical, postcolonial, etc.). Introduces key literary terms and engages close reading techniques. May include lectures, screenings, student presentations, analyses and written reports, exams, and a final essay in MLA format and documentation. Required for English majors. Should be taken early in major.

**ENGL 2610 British Literature before 1800** HH  
3:3:0 Su, F, Sp

• Prerequisite(s): ENGL 1010  
• Corequisite(s): ENGL 1010  
Presents a survey of British literature with emphasis on the most important works of the best writers from 450-1800 A.D. Introduces Old English, Middle English, Renaissance, and Neo-Classical British literature. Uses discussion, lecture, films, videos, tests, and papers.

**ENGL 2620 British Literature after 1800** HH  
3:3:0 Su, F, Sp

• Prerequisite(s): ENGL 1010  
• Corequisite(s): ENGL 1010  
Introduces British Romanticism, Victorianism, Modernism, and post-Modernism. Emphasizes important works of the best writers from approximately 1800 to the present. May include discussion, lecture, videos, films, tests, and papers.

**ENGL 2730 Introduction to Gender Studies** HH  
3:3:0 F, Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020  
Analyzes gender from an interdisciplinary model. Explores such issues as the definition of masculinity and femininity, the function of gender roles and stereotypes, and what it means to have sexed bodies and minds. Analyzes questions of gender through the different frameworks of literature, anthropology, sociology, history, biology, psychology, and philosophy.

**ENGL 276R Themes in Literature** HH  
3:3:0 F, Sp

• Prerequisite(s): ENGL 1010  
Analyzes specific themes/topics in literature (generic or other). Requires reading and study of representative works. Includes short papers, tests and presentations. Possible course themes are: horror, fantasy, nonfiction, detective fiction, and western American literature, among others. May be repeated for up to 6 credits toward graduation.

**ENGL 281R Internship** HH  
1 to 8:0:5 to 40 Su, F, Sp

• Prerequisite(s): Approval of Cooperative Coordinator  
Designed for English majors. Provides experience in the student's major. Students who receive credit for an internship must establish learning objectives with their Faculty Sponsor at the beginning of their internship and reflect on their learning through academic work (i.e. papers, journal, etc.). Students are required to submit an evaluation of their experience at the end of the semester. Credit is determined by the number of hours a student works during the semester. May be repeated for a maximum of 8 credits toward graduation.

**ENGL 290R English Scholarly Forum** GH  
1:1:0 F, Sp

For students interested in literature, language and literacy, or planning on an English major. A varying series of lectures, field trips, and service projects that connect students to the professional community. Increases awareness and appreciation of literature through reading, writing, and experiencing literary works. May be taken three times for credit.

**ENGL 299R Independent Study** GH  
0.5 to 3:0 to 3:0 to 12 Su, F, Sp

Provides independent study as directed in reading and individual projects at the discretion and approval of the Dean and/or Department Chair. Limited to three credits toward graduation with an AS/AA degree.

**ENGL 3000 Professional Considerations for the English Major** GH  
1:1:0 F, Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020  
Discusses various career choices for English majors. Familiarizes students with curricular emphases and department faculty. Emphasizes internships and other activities available to help majors professionalize. Features a regular rotation of English faculty guest speakers. English majors must take the course as early as possible, no later than their junior year.

**ENGL 3010 Rhetorical Theory** GH  
3:3:0 F, Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020  
Considers prominent theories of rhetoric and accompanying methods for the production of texts in various contexts, encouraging adopting, amending, and/or developing hybrid theories of rhetoric.

**ENGL 3020 Modern English Grammars** GH  
3:3:0 Su, F, Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020  
Explores language structures, discovering connections between grammar (linguistic structure) and language uses (discourse and/or rhetoric). Writing intensive. Includes the study of and practice in informed decision making in the process of developing language structures (grammatical choices) appropriate to a particular rhetorical aim.

**ENGL 3030 Writing and Communicating Effectively in/across Contexts** GH  
3:3:0 Not 09-10

• Prerequisite(s): ENGL 2010 or ENGL 2020  
Engages rigorous critical reading, listening, thinking, writing, and speaking. Focuses on argumentation, summarizing, paraphrasing, quoting, critical analysis, synthesizing ideas, negotiating positions, interrogating multiple perspectives, and other skills associated with the contemplation of ideas and the generation of sound arguments in written, oral, visual, and other communicative contexts. Includes analysis of situated "real world" texts appropriate to a discipline and "mock" versions of such texts, readings, and portfolio.

**ENGL 3040**  
**History of the English Language**  
 3:3:0 F  
 • Prerequisite(s): ENGL 2010 or ENGL 2020  
 Introduces historical origins of the English language and changes that produced our present speech in its many dialects, creoles and pidgins. Combines linguistic and rhetorical histories. For all English majors and others interested in the origins of our language and how it has grown and continues to change.

**ENGL 3050**  
**Advanced Editing and Design for Print Media**  
 3:3:0 Sp  
 • Prerequisite(s): ENGL 2010 or ENGL 2020 or Instructor Approval; ENGL 2050 recommended  
 Refines student editing, design, and publishing skills. Provides students with the opportunity to take manuscripts from editing to press-ready. Teaches industry standards for state-of-the-art publishing tools using hands-on projects such as designing books and marketing literature/corporate identities. Topics include design, typography, and prepress issues as they relate to writing and editing documents. Recommended for students involved with student publications, including journals and campus newspaper.

**ENGL 3090**  
**Advanced Writing for English Majors**  
 3:3:0 F, Sp  
 • Prerequisite(s): ENGL 2600  
 • Corequisite(s): ENGL 3000 Recommended  
 Required for upper-division English majors and as elective credit for others. Centers on scholarly research and writing in fields related to English Studies, drawing on students' areas of focus. Emphasizes analysis, rhetorical theories of writing, development, style, oral presentations, and primary and secondary research techniques. Prepares students to extend their abilities with researched writing in other upper-division courses and teaches students advanced scholarly attitudes toward researched writing.

**ENGL 3110** (Cross-listed with: THEA 3110, COMM 3110)  
**Non-Fiction Cinema History**  
 3:2:3 On Sufficient Demand  
 • Prerequisite(s): ENGL 2150  
 Surveys the history of non-fiction/documentary film from 1896 to the present. Includes study of early pioneers from Flaherty's NANOOK OF THE NORTH to the current trend of reality television and popular documentaries. Some films screened may carry an "R" rating.

**ENGL 314G** (Cross-listed with: THEA 314G, COMM 314G)  
**Global Cinema History**  
 3:2:3 On Sufficient Demand  
 • Prerequisite(s): ENGL 2150  
 Studies the evolution of global film styles, movements, stars, and genres with a focus on international cinema chronologies outside the United States. Some films screened may be considered controversial and carry an "R" rating.

**ENGL 3150** (Cross-listed with: COMM 3150)  
**Film Theory**  
 3:2:3 F  
 • Prerequisite(s): ENGL 2150  
 Emphasizes film theory as cultural analysis. Relates cultural phenomena to films that reflect elements of contemporary film theory focusing on spectatorship,

stars, narration, authorship, genre, and film production. Includes lecture, film screenings, and critical discussions of assigned readings. Some films screened may be considered controversial and carry an "R" rating.

**ENGL 3320**  
**Grant and Proposal Writing**  
 3:3:0 F  
 • Prerequisite(s): ENGL 2010 or ENGL 2020  
 For interested upper-division students and Technical Writing emphases and minors. Introduces students to private and governmental funding sources. Demonstrates successful proposal and grant writing strategies.

**ENGL 3340**  
**Designing Electronic Documentation**  
 3:3:1 On sufficient Demand  
 • Prerequisite(s): ENGL 2010 or ENGL 2020; Recommended: ENGL 2050, ENGL 2310  
 For advanced undergraduates. Explores the writer's role in creating online help and web-based documentation through document management, web-based documentation design, and online helpfile creation. Includes Framemaker, helpfile creation tools, and web design tools. Topics may include methodologies for determining usability, information architecture, and document management.

**ENGL 3420**  
**Intermediate Fiction Writing**  
 3:3:0 F, Sp  
 • Prerequisite(s): ENGL 2250 or instructor/advisor approval  
 Implements a variety of intermediate techniques for generating, writing, and revising stories for publication and public readings, along with readings in theory and fiction.

**ENGL 3440**  
**Intermediate Poetry Writing**  
 3:3:0 F  
 • Prerequisite(s): ENGL 2250 or instructor/advisor approval  
 Provides practices and techniques for generating, writing, and revising original poetry. Includes poetry readings, memorizations, and submission of original poetry to literary journals. Focuses on contemporary poetry and critical theories associated with contemporary poetry.

**ENGL 3450**  
**Intermediate Creative Nonfiction Writing**  
 3:3:0 F, Sp  
 • Prerequisite(s): ENGL 2250 or ENGL 225H or instructor/advisor approval  
 Provides intermediate instruction for writing nonfiction prose. Explores and provides practice in various categories of nonfiction, including, for example, narrative, memoir, interpretive reporting, found text, and experimental forms. Addresses the stylistic and compositional challenges of transforming experience into writing.

**ENGL 3510**  
**Early American Literature**  
 3:3:0 F  
 • Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2510 or ENGL 2520  
 Examines selected authors and themes in American literature from its beginnings through the 1820s. Locates texts within their cultural and historical contexts. Explores multiple genres, including

autobiography, essay, poetry, drama, and fiction. Requires discussion, presentations, informal and formal writing, and exams.

**ENGL 3520**  
**Literature of the American Renaissance**  
 3:3:0 F, Sp  
 • Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2510 or ENGL 2520  
 Studies American literary works during the Romantic period, roughly 1830-1870. Authors may include Hawthorne, Melville, Poe, Emerson, Thoreau, Douglass, Jacobs, Stowe, Whitman, and Dickinson. Locates the contribution of both canonical and lesser-known authors within cultural and historical contexts. Requires informal and formal writing, presentations, and exams.

**ENGL 3525**  
**American Literary Realism and Naturalism**  
 3:3:0 Not 09-10  
 • Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2510 or ENGL 2520  
 Studies literature associated with the American realist and naturalist movements between the Civil War and the early twentieth century, by authors such as Mark Twain, Henry James, Kate Chopin, Theodore Dreiser, and Edith Wharton. Explores aesthetic and philosophical issues encountered by authors who attempt to depict social and natural environments realistically.

**ENGL 3530**  
**Modern American Literature**  
 3:3:0 Sp  
 • Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2510 or ENGL 2520  
 Emphasizes the literary movement of modernism from the early twentieth century to the 1960s. Authors covered may include but are not limited to Gertrude Stein, Ernest Hemingway, William Faulkner, and Langston Hughes.

**ENGL 3540**  
**Contemporary American Literature**  
 3:3:0 F, Sp  
 • Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2510 or ENGL 2520  
 For English majors and others with an interest in contemporary American literature and culture. Studies significant authors, themes, and topics in American literature from 1965 through the present. Explores multiple genres, including fiction, drama, poetry, and film, and devotes particular attention to recent developments in literary criticism.

**ENGL 357G**  
**Native American Literature**  
 3:3:0 Not 09-10  
 • Prerequisite(s): ENGL 2010 or ENGL 2020  
 Surveys a wide range of Native American literature. Examines the cultures and identities of Native Americans through the study of literary texts including mythology and works by contemporary writers such as N. Scott Momaday, Leslie Marmon Silko, Louise Erdrich, and Sherman Alexie, among others.

**ENGL 3610**  
**Medieval Literature**  
 3:3:0 Sp  
 • Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620  
 Covers major authors, works, and themes from Anglo

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Saxon, Middle English, up to the Tudor period (750 to 1485 AD). Studies selected authors. May include "Beowulf" poet, Julian of Norwich, Langland, Margery Kempe, Malory, Marie De France, the "Pearl" poet, and the Wakefield Master. Includes brief discussion of Chaucer. Analyzes relevant cultural, philosophical, and historical aspects of the period. Includes lectures, discussions, oral presentations, films, tests, journal writing, and papers.

**ENGL 3620**  
**Tudor British Literature**  
3:3:0 Not 09-10

• Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620

Covers major authors, works, and themes from the Tudor period (1485-1603). Studies selected authors. May include Surrey, Wyatt, Skelton, Moore, Marlowe, Sydney, Spenser, Queen Elizabeth I, Raleigh, Mary Herbert, Shakespeare, Drayton, Campion, and Nashe. Briefly discusses Shakespeare. Analyzes relevant cultural, philosophical, and historical aspects of the period. Includes lectures, discussions, oral presentations, films, tests, journal writing, and papers.

**ENGL 3630**  
**Stuart British Literature**  
3:3:0 F

• Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620

Covers major authors, works, and themes from the Stuart period (Jacobean, English Civil War, and Restoration eras). Studies selected authors. May include Shakespeare, Jonson, Lanyer, Donne, Wroth, Herbert, Herrick, Vaughn, Marvell, Cavendish, Philips, Milton, Behn, and Dryden. Discusses relevant cultural, philosophical, and historical aspects of the period. Includes lectures, discussion, oral presentations, films, journal or response writing, and papers.

**ENGL 3640**  
**Restoration and 18th Century British Literature**  
3:3:0 F

• Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620

Surveys major authors and works from the Augustan and Johnsonian eras of British literature, including literary, political, historical, religious, and social trends and ideas. Studies selected authors. May include Defoe, Swift, Pope, Johnson, Thompson, Gray, Collins, Goldsmith, Montague, Burney, and others. Includes lectures, discussion, oral presentations, papers, and tests.

**ENGL 3650**  
**Romantic British Literature**  
3:3:0 Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620

Explores British poetry, fiction, and nonfiction of the Romantic era (approx. 1780-1830) by authors including Blake, Wordsworth, Coleridge, Byron, Keats, the Shelleys, and Austen. Examines historical and philosophical trends that shaped the era's literature and were shaped by it. Involves lecture, discussion, small group work, audiovisual presentations, examinations, and writing.

**ENGL 3655**  
**Victorian British Literature**  
3:3:0 Not 09-10

• Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620

Explores British poetry, drama, fiction, and nonfiction of the Victorian age (approx. 1830-1900) by authors including Dickens, Tennyson, Eliot, the Brownings and Rossettis, Hardy, and Wilde. Examines historical and philosophical trends that shaped the era's literature and were shaped by it. Involves lecture, discussion, small group work, audiovisual presentations, examinations, and writing.

**ENGL 3660**  
**Modern British Literature**  
3:3:0 F, Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620

Explores modern British literature (c. 1900-1945) in relation to intellectual and historical developments. Emphasizes the literature of empire and of the world wars, modernist experimental writing, and reactions against modernism. Involves lectures, discussion, audiovisual presentations, written assignments, and exams.

**ENGL 3670**  
**Contemporary British Literature**  
3:3:0 F

• Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2610 or ENGL 2620

Explores contemporary British literature (1945-present) in relation to intellectual and historical developments. Emphasizes postmodern and postcolonial writing alongside traditional forms that, together, characterize recent British literature. Involves lectures, discussion, audiovisual presentations, written assignments, and exams.

**ENGL 3710**  
**Literature by Women**  
3:3:0 Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020  
Provides a substantive framework of important critical issues regarding literature by or about women. Studies applications of feminist critical theory to fiction, poetry, personal essays, or drama written by women. Requires oral presentations or discussions by students, written reports, and exams.

**ENGL 373R**  
**Literature of Cultures and Places**  
3:3:0 F, Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020  
Studies one of the literatures that has developed using the English language but that are based on nations other than England or the United States (such as Canada or India) or in cultures within the British Isles or North America that are defined by ethnic or religious culture or by geography (such as African-American, Mormon, Southern, or Irish). May survey the literature of the culture or region as a whole or focus on representative works. May be repeated twice with different designations. Uses lectures, discussion, visiting writers, videos, tests, and papers.

**ENGL 374G**  
**Literature of the Sacred**  
3:3:0 F

• Prerequisite(s): ENGL 2010 or ENGL 2020  
Focuses on reading and interpreting primary texts of Hinduism, Buddhism, Judaism, Christianity, Islam,

and others emphasizing resonances of these texts in later works of literature. Discusses texts from a literary standpoint within the genre of "religious writings." Requires reading, informal and formal writing, and tests.

**ENGL 376G**  
**World Literature**  
3:3:0 HH  
Not 09-10

• Prerequisite(s): ENGL 2010 or ENGL 2020  
Studies selected works of World Literature from a variety of authors, geographic regions, or time periods. Introduces cultures and ideas of world literature. Focuses on careful, critical readings on a particular region or culture, time period, or author or closely related authors.

**ENGL 3780**  
**Mormon Literature**  
3:3:0 Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020  
Surveys the foundations of Mormon literature as expressed through short fiction, novels, personal essays, drama, history and criticism. Includes readings, quizzes, presentations, papers, and exams.

**ENGL 3820**  
**History of Literary Criticism**  
3:3:0 Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020  
Explores rhetorical strategies and philosophical ideas influencing the reading and writing of literary texts from Plato and Aristotle to the present. Includes lectures, discussions, oral presentations, films, tests, journal writing, and papers.

**ENGL 3890**  
**Contemporary Critical Approaches to Literature**  
3:3:0 Su, F, Sp

• Prerequisite(s): ENGL 2600  
Provides in-depth study of one contemporary theoretical and critical approach to literature using primary texts. Explicates how interpretive techniques function within the discipline of English Studies. May include lectures, screenings, student presentations, assigned readings, written reports, exams and a research essay that employs MLA documentation. Required for English majors. Should be taken beginning of junior year.

**ENGL 4010**  
**Studies in Language**  
3:3:0 Sp

• Prerequisite(s): ENGL 3010 or instructor/advisor approval  
Focuses on three major topics in language studies per semester. Includes language in social construction, workplace functions, science, political arenas, and other more specific areas as determined by the instructor. Specific topics will be listed in the class schedule.

**ENGL 412R**  
**Studies in Literary Genres**  
3:3:0 F, Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020  
Examines various literary genres, with a different focus each semester. May be repeated twice with different designations.

**ENGL 414R** (Cross-Listed With: THEA 414R)  
**Special Topics in Cinema History**  
 3:2:3 Not 09-10  
 • Prerequisite(s): ENGL 2150  
 Focuses study on a specific U.S. or International period or movement. Representative topics may include German Expressionism, Italian Neorealism, New Hollywood Cinema, and etc. May be repeated for a maximum of nine credits toward graduation. Some films screened may carry an "R" rating.

**ENGL 416R** (Cross-listed with: THEA 416R)  
**Special Topics in Film Studies**  
 3:2:3 Sp  
 • Prerequisite(s): ENGL 2150  
 Covers cinema directors, genre, theory, and social change on a rotating basis. Explains course focus, defines terminology involved, then studies evolution and/or specific texts or contexts, and considers theoretical discourse. May be repeated for a maximum of 9 credits toward graduation. Some films screened may carry an "R" rating.

**ENGL 4210**  
**Methods in Teaching Literacy I**  
 3:3:0 F, Sp  
 • Prerequisite(s): ENGL 2600, and ENGL 3010 or ENGL 3020 or ENGL 3040  
 Presents and explores content-related issues and practices teaching strategies in the secondary education language arts classroom. Uses discussion, group work, and participation in accordance with NCATE standards.

**ENGL 4220**  
**Methods in Teaching Literacy II†**  
 3:3:0 F, Sp  
 • Prerequisite(s): ENGL 4210  
 Continues to explore issues and research in language arts and further develops teaching skills through reading and discussion, classroom observation, creating teaching materials, and participation in teaching demonstrations. Preparatory to student teaching for English Secondary Education students.

**ENGL 4230**  
**Methods in Teaching Literacy III Teaching the Conventions of Writing**  
 3:3:0 F  
 • Prerequisite(s): ENGL 4210  
 Presents strategies for teaching 6-trait writing in the secondary language arts classroom and provides opportunity to practice these strategies. Focuses on the Utah State Office of Education Language Arts Core Curriculum with a strong emphasis on the practical application of how to teach inquiry-based writing to adolescents. Will also incorporate how to teach the trait of Conventions. Includes direct instruction, class discussion, micro-teaching, and assessment of student writing.

**ENGL 4250**  
**Adolescent Literature†**  
 3:3:0 F, Sp  
 • Prerequisite(s): ENGL 2010 or ENGL 2020  
 Engages secondary education majors and other interested students in the study of literature written explicitly for adolescent readers. Explores attitudes towards adolescence as a distinctive psychological, social and moral state using contemporary and time-honored works from various cultures. Particular attention paid to contemporary adolescent issues, history of young adult literature, value instruction,

and the role of young adult literature in the literacy development process.

**ENGL 4310**  
**Advanced Technical Communication**  
 3:3:0 Su, F, Sp  
 • Prerequisite(s): ENGL 2010 or ENGL 2020  
 For upper-division technology management majors, technical writing emphases and minors, and as elective credit for other upper-division students. Teaches technical communication skills and genres in demand by business and industry. Provides collaborative experience in the development of a professional caliber project, using suitable technology. Emphasizes primary and secondary research and usability.

**ENGL 4320**  
**Document Management**  
 4:3:2 On Sufficient Demand  
 • Prerequisite(s): ENGL 2310  
 For technical writing emphases and minors. Teaches managing electronic and print documents from inception to publication. Introduces the procedures and techniques of successful document management, including scheduling, budgeting, genre selection, and publication issues.

**ENGL 4350**  
**Senior Project**  
 2:1:2 Not 09-10  
 • Prerequisite(s): Departmental Approval, Senior Status  
 For Senior English majors and minors. Work independently with clients and instructors to produce a major print or electronic document.

**ENGL 436R**  
**Topics in Technical Communication**  
 3:3:0 Not 09-10  
 • Prerequisite(s): ENGL 2010 or ENGL 2020  
 Examines key issues and theories in technical communication. Topics vary each semester and include financial, environmental, and medical writing, science writing, and ethical issues in technical writing. May be taken twice with different topics.

**ENGL 4420**  
**Advanced Fiction Writing**  
 3:3:0 F, Sp  
 • Prerequisite(s): ENGL 3420  
 Implements a variety of advanced techniques for generating, writing, and revising stories for publication and public readings, along with readings in theory and fiction.

**ENGL 4430**  
**Play Writing for Creative Writers**  
 3:3:0 F  
 • Prerequisite(s): ENGL 2250 or ENGL 225H or by instructor permission  
 Teaches the skills and processes of successful playwrighting. Presents playwrighting through textual analysis and play attendance. Includes lectures, discussions, oral presentations, and a final portfolio of dramatic writing.

**ENGL 4440**  
**Advanced Poetry Writing**  
 3:3:0 Sp  
 • Prerequisite(s): ENGL 3440  
 Provides further practices and techniques for generating, writing, and revising original poetry. Includes poetry readings, memorizations,

workshopping and submission of original poetry to literary journals. Focuses on contemporary poetry and critical theories associated with contemporary poetry.

**ENGL 4450**  
**Advanced Creative Nonfiction Writing**  
 3:3:0 F, Sp  
 • Prerequisite(s): ENGL 3450I  
 Provides experience in producing nonfiction prose. Focuses on the stylistic/aesthetic development of raw content.

**ENGL 4570**  
**Studies in the American Novel**  
 3:3:0 Sp  
 • Prerequisite(s): ENGL 2010 or ENGL 2020  
 Surveys the "great American novel," providing historical, regional, and cultural perspectives of one of the richest genres in literary history.

**ENGL 4620**  
**Chaucer**  
 3:3:0 F  
 • Prerequisite(s): ENGL 2010 or ENGL 2020  
 Studies selected works by Chaucer investigating selections primarily from The Canterbury Tales, with some use of Chaucer's other major and minor poetry. Considers context of cultural and historical perspectives of the Middle Ages. Includes lectures, discussions, oral presentations, films, tests, journal writing, and papers.

**ENGL 463R**  
**Topics in Shakespeare**  
 3:3:0 Sp  
 • Prerequisite(s): ENGL 2010 or ENGL 2020  
 Examines various topics related to Shakespeare's works. May include study of his genres, poems, sonnets, theater, and/or relevant cultural and historical aspects of his times. May use lectures, discussions, group work, oral presentations, papers, tests, and film. May be repeated for a maximum of 6 credits for graduation with different topics.

**ENGL 4640**  
**Milton**  
 3:3:0 Sp  
 • Prerequisite(s): ENGL 2010 or ENGL 2020  
 Surveys John Milton's major prose and poetry, including an intensive study of "Paradise Lost," placed in context with the important social, political, and religious trends of his time. May include lectures, discussion, oral presentations, papers, tests, and films.

**ENGL 471R**  
**Eminent Authors**  
 3:3:0 F, Sp  
 • Prerequisite(s): ENGL 2010 or ENGL 2020  
 Introduces important works of eminent authors. Emphasizes forms of literary expression and place in the historical development of world literature. Studies relevant cultural and historical aspects of the authors' milieu. Includes lectures, discussions, oral presentations, films, tests, and papers. May be repeated twice with different topics.

**ENGL 473R**  
**Topics in Gender Studies**  
 3:3:0 On Sufficient Demand  
 • Prerequisite(s): ENGL 2010 or ENGL 2020, and ENGL 2600  
 Focuses student reading, research, and discussion

## Course Descriptions

on specific areas of concentration within the field of gender studies. (Specific areas of focus will change as the instructor and his or her focus or expertise changes.) Analyzes how gender affects and is affected by culture, ideology, socio-economic factors, history, etc. Possible course focuses include: Gender and Popular Culture, Gender and the Canon, and Gender in Literary Theory, among others. May be repeated for up to 6 credits toward graduation.

**ENGL 474R**  
**Topics in Folklore**  
3:3:0 Not 09-10

• Prerequisite(s): ENGL 2210 or instructor/advisor approval  
Studies one folk genre, one folk group, or one theme which crosses genres and/or groups. Students will collect folklore related to topic under discussion. Uses discussion, readings, folk events, and students' writings. May be repeated twice with different topics.

**ENGL 476G**  
**Multi-ethnic Literature in America**  
3:3:0 F

• Prerequisite(s): ENGL 2010 or ENGL 2020  
Surveys multi-ethnic literature reflecting the rich diversity inherent in American experience. Includes but is not limited to works by Native American, Hispanic American, Asian American, African American authors.

**ENGL 481R**  
**Internship**  
1 to 8:0:5 to 40 Su, F, Sp

• Prerequisite(s): Departmental approval, senior status  
For senior English majors and minors. Internships are intended to offer students opportunities to work with instructors and other professionals on task related to the field of English. Students who receive credit for an internship must establish learning objectives with their Faculty Sponsor at the beginning of their internship and reflect on their learning through academic work (i.e. papers, journal, etc.). Students are required to submit an evaluation of their experience at the end of the semester. May be repeated for a maximum of 8 credits toward graduation.

**ENGL 486R**  
**Topics in Literature**  
3:3:0 F, Sp

• Prerequisite(s): ENGL 2010 or ENGL 2020  
Studies various topics/themes in fiction, poetry, drama, essay, film, or other art forms such as ethics in literature, queer literature, literature and the environment, literature and war, literature and the civil rights movement, etc. Subject matter will vary each semester. May be repeated twice for different topics.

**ENGL 490R**  
**Directed Readings**  
1 to 3:0:3 to 9 F, Sp

• Prerequisite(s): Department Chair and Instructor Approval  
Reading and writing assignments designed in consultation with a faculty member to meet special needs or interests not available through regular course work. May be repeated two times for a total of up to nine credits.

**ENGL 4950**  
**Senior Seminar**  
3:3:0 F, Sp

• Prerequisite(s): ENGL 3090 and Senior Status  
Culminates exploration into the cultural impact and standing of English Studies. Further professionalizes students by assisting them with career or graduate school preparation. Includes revision of an existing paper as a scholarly writing sample and creation of a professional portfolio to display knowledge and abilities. Students reflect on career possibilities and develop their own professional network by meeting and visiting successfully employed English graduates.

### ENGR—ENGINEERING SCIENCE

**ENGR 1000**  
**Introduction to Engineering**  
3:3:0 F, Sp

• Prerequisite(s): MAT 1000 or MAT 1010  
Introduces the various areas of engineering to pre-engineering majors and others interested in learning more about the contributions engineers make to our modern society. Includes a brief history of engineering and discussions about what engineers really do. Discusses professional ethics, responsibilities, and career opportunities. Emphasizes problem solving skills and the processes and procedures of engineering design. Includes lectures, projects, guest speakers, field trips, and in-class exercises.

**ENGR 2010**  
**Engineering Statics**  
3:3:0 F, Sp

• Prerequisite(s): MATH 1210  
Teaches principles of engineering mechanics as applied to bodies at rest. Discusses the concepts of position and force vectors, free body diagrams, equilibrium, center of gravity, centroids, distributed loading, friction, area and mass moments of inertia. Applies principles learned in the analysis of trusses, frames and machines.

**ENGR 2030**  
**Engineering Dynamics**  
3:3:0 F, Sp

• Prerequisite(s): ENGR 2010, MATH 1220, and PHYS 2210  
Teaches principles of engineering mechanics as applied to bodies in motion. Studies kinematics and kinetics of particles and rigid bodies. Develops the concepts of force and acceleration, work, energy, impulse, momentum, impact, and vibration. Utilizes theory and methodology developed in the solution of practical engineering problems.

**ENGR 2140**  
**Mechanics of Materials**  
3:3:0 F, Sp

• Prerequisite(s): ENGR 2010 and PHYS 2210  
Studies behavior of materials under axial, torsional, flexural, transverse shear and combined loading conditions. Analyzes nature of stress and strain for ductile and brittle materials, stress and strain diagrams, stress concentration, and failure of materials. Includes analysis of repeated and dynamic loading, and basic design techniques related to above topics.

**ENGR 2300**  
**Engineering Thermodynamics**  
3:3:0 Sp

• Prerequisite(s): MATH 1220, PHYS 2210  
Covers static pressure, phase diagrams, equations of state, and mass balance. Studies the first and second laws of thermodynamics and their application in engineering problem solving. Includes analysis of open and closed systems, steady state, and unsteady flow problems. Studies heat engine, refrigeration, and Carnot cycles. Discusses Entropy and Energy balance.

**ENGR 2450**  
**Computational Methods for Engineering Analysis**  
3:3:0 F

• Prerequisite(s): MATH 1210, CS 1400  
Discusses computational and symbolic methods for the solution of complex engineering problems. Discusses computer representation of numbers and algorithm error analysis. Covers the solution of algebraic and differential equations. Includes the use of modern software tools.

**ENGR 295R**  
**Special Topics**  
1 to 3:1 to 3:0 On Sufficient Demand

• Prerequisite(s): Permission of Department Chair  
Presents various engineering topics. Examines current technology, techniques, processes and equipment. Includes oral and written reports. May be repeated for a maximum of 3 credits toward graduation.

### ENST—ENVIRONMENTAL STUDIES

**ENST 3000**  
**Introduction to Environmental Studies**  
3:3:0 F

Explores the complex relationships of culture, technology, and nature within an interdisciplinary framework of the natural sciences, social sciences, business, and humanities. Addresses the integration of humanity and nature in the age of globalization.

**ENST 3520** (Cross-listed with: PSY 3520)  
**Environmental Psychology**  
3:3:0

• Prerequisite(s): (ENGL 2010 or ENGL 2020)  
Studies relationships between behavior and experience and the built and natural environments. Studies perspectives and problems unique to the field. Analyzes psychological research as it applies to humans and the environment. This is a service learning course with community-based research.

### ENVT—ENVIRONMENTAL MANAGEMENT

**ENVT 1110**  
**Introduction to Environmental Management**  
3:3:0 F, Sp

Surveys environmental issues and the impact of people on the environment. Covers water, air, and soil pollution. Discusses pollution prevention and remediation methods. For majors and any who have an interest in environmental issues.