

**ENGL 584 INDIVIDUAL AUTHORS: BRITISH (4)**

In-depth study of an individual author and related criticism. Please see Schedule of Classes for current offering. May be repeated for credit under different subtitles. Prerequisite: graduate status or consent of instructor.

**ENGL 587 SEMINAR: RHETORICAL THEORY (4)**

Study of topics in recent rhetorical theory specifically as it applies to the teaching of writing at the college level. Course content varies from semester to semester. Course may be repeated for credit under different subtitles. Prerequisite: consent of instructor.

**ENGL 588 SEMINAR: STUDY OF LANGUAGE (4)**

Study of current theories in linguistics and literacy studies and their applications to English, with emphasis on original research and analysis in the study of oral and/or written language. Course may be repeated for credit under different subtitles. Prerequisite: consent of instructor.

**ENGL 595 SPECIAL STUDIES (1-4)**

Individualized study on a student-designed topic. The material and course of study should only cover topics not available in currently offered courses. Students must complete the standard SSU form and secure the required written approvals. May be repeated once for credit toward the M.A. Prerequisites: consent of instructor and department chair.

**ENGL 597 DIRECTED READING (3)**

Focused reading on a relatively narrow topic validated by a written and an oral examination. To be taken by students choosing the directed reading option to complete the M.A. Topic to be approved by the directed reading chair and second reader. Prerequisites: ENGL 500, classified status, and an authorized Advancement to Candidacy (GS01) form.

**ENGL 599 THESIS AND ACCOMPANYING DIRECTED READING (3-6)**

To be taken by students writing a traditional thesis, an extended research topic approved and guided by the thesis chair and second reader. Prerequisites: ENGL 500, classified status, and an authorized Advancement to Candidacy (GS01) form.

**Engineering Science (ES)**

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**ES 101A COMMUNICATION IN THE DIGITAL AGE (3)**

Concept of digital age, technology, and modern communications, understanding various routinely used technical terms and commonly known computer and communications components and devices; understanding digital voice, video and data communication, mobile communication, and communication through internet; ill effects such as radiation, invasion of privacy, unethical usages and protection from them; assessment of learning. (The companion laboratory course ES 101B is strongly recommended; the course does not apply to EE major). Prerequisite: GE math eligibility. This course meets GE Area B3 requirement.

**ES 101B COMMUNICATION IN THE DIGITAL AGE LABORATORY (1)**

Laboratory to demonstrate the concepts discussed in the course ES 101A and give hands-on experience to the students. (Does not apply to the EE major). This course meets the GE science laboratory requirement.

**ES 210 DIGITAL CIRCUITS AND LOGIC DESIGN (4)**

Students learn how to analyze and evaluate scientific, inductive and deductive reasoning, through digital logic and its application to logic gates and digital electronic circuits. Laboratory work includes designing, building and testing of digital circuits and designs. Project assignments require students present their own design and the final product in public, making persuasive presentations with efficient verbal and non-verbal skills, and listening to peer's critiques for improvement. This course fulfills GE A3. Prerequisites: ES 112, Co-requisite: ES 230, or consent of instructor.

**ES 345E ENGINEERING APPLICATIONS OF PROBABILITY THEORY (1)**

Lecture, 1 hour. This is a one-unit course introducing how to apply probability theory to model engineering problems, particularly in communications and networking areas. Topics covered include application of probability to measure of information and redundancy, moments to measure power, correlation to determine correlation function, power spectrum and linear prediction, and estimation of statistical parameters. Co-requisite: math 345E or consent of instructor.

**ES 495 SPECIAL STUDIES (1-4)**

May be repeated for credit up to 8 units.