

answers to the question, "What can I expect to do as an engineer?" In addition, basic computer skills and electronic data acquisition are introduced in a laboratory setting, emphasizing a hands-on approach to experimentation. Prerequisite: MATH 115. Corequisite: ENGL 111. Semester offered: Fall, Spring.

**ME-159 Graphical Communication and Design 2 cr.**  
Sketching and orthographic projection. Detail and assembly working drawings, dimensioning, tolerance specification, and design projects. Semester offered: Spring.

**EE-201 Engineering Circuit Analysis 3 cr.**  
Introductory engineering analysis of analog circuits. Topics include electrical component descriptions and equations (resistors, inductors, and capacitors), Kirchhoff's voltage and current laws, and calculus based formulation of network equations using time and frequency domain concepts. Prerequisite: MATH 189. Semester offered: Fall.

**CE-233 Mechanics-Statics 3 cr.**  
An introduction to basic engineering structural analysis of static (stationary) objects. Methods to examine external and internal forces on structural components are developed using vector methods. Prerequisites: MATH 189, PHYS 215. Semester offered: Fall.

**ME-234 Mechanics-Dynamics 3 cr.**  
Expand your knowledge of statics to the study of systems in motion. Dynamics is divided into two parts: "kinematics" examines the geometric aspect of motion (where does it go?), and "kinetics" covers forces involved in motion (how should I design it?). Vector analysis methods are used throughout. Prerequisites: MATH 189, CE 233. Semester offered: Spring.

**ME-240 Thermodynamics 3 cr.**  
This first course in thermodynamics is applicable to all engineering disciplines (and modern society in general) as it deals with energy, and an "energy-balance" approach to problem solving. The first portion is devoted to energy, energy transfer, and physical properties. The first law of thermodynamics (which relates energy to heat and work) and the second law (specifies the direction of certain processes) are then covered in detail. Prerequisite: MATH 268. Semester offered: Spring.

**ENGR-295/299 SPTO: (Special Topics) 1-4 cr.**  
Special or specific topic course to meet the needs of students. Topics and credits are announced in the Schedule of Classes. These courses may be used as electives for Associate degree requirements. May be repeated one or more times for additional credit. No more than 6 credits of special topic courses can be used toward a degree.

## ENGLISH

**ENGL-050 English Skills 3 cr.**  
Helps students build competence in sentence mechanics, grammar, and usage needed for academic and professional writing. Skills will be developed through ongoing writing assignments, as well as exercises and a range of active learning methods. The course may be taken either as a companion course (with ENGL 095, 099, 111, or 118) or

on its own. Course is not applicable towards any degree or certificate. Prerequisite: APEN 0-029. Semesters Offered Fall, Spring, Summer.

**ENGL-095 Basic Writing Workshop 6 cr.**  
A reading and writing workshop designed to help students improve academic and communication skills in preparation for college-level writing courses. The course addresses academic literacy skills in reading and writing, library research work, computers and word processing, and college success. English 095 is the first-level, pre-college composition course. (RR option) Prerequisites: ENGL 050 or APEN 040-069. If APEN is 030-039 then Corequisite is ENGL 050. If APEN is 040-069 then the corequisite is RDNG 095. Semesters Offered Fall, Spring, Summer.

**ENGL-098 Basic Technical Composition 3 cr.**  
introduces students to communication skills useful to technicians who need to produce practical, informative writing. This reading and writing workshop prepares students for ENGL 118: Technical Composition. This course addresses academic, technical, and workplace literacy skills necessary for college-level reading and writing, particularly in certificate programs and A.A.S. technical fields. Prerequisite: Successful completion of ENGL 095 with instructor recommendation or APEN 070-084. Corequisite: RDNG 095 or APRD 58+. Semester offered: - Fall and Spring.

**ENGL-099 Basic Composition 3 cr.**  
A reading and writing workshop designed to help students improve academic and communication skills in preparation for college-level writing courses. This course addresses academic literacy skills in college reading, writing, and library research and is the second-level, pre-college composition course. (RR option) Prerequisites: ENGL 095 or APEN 070-084. Corequisite: RDNG 095 or APRD 58+. Successful completion of ENGL 095 with instructor recommendation or placement exam score. Semesters Offered Fall, Spring, Summer.

**ENGL-100 English As a Second Language 3 cr.**  
Specifically for students whose predominant language is not English. Emphasis on the enhancement of standard written and spoken English. Graded S/U. Course not applicable towards any degree or certificate. Semester offered: On Demand.

**ENGL-105 SPIN: (Special Interest) 1-3 cr.**  
Course is designed to address a variety of subjects required to meet the needs of lifelong learning students. Not available for transfer or applicable as an elective.

**ENGL-111 Freshman Composition 3 cr.**  
A writing workshop with reading assignments, in-class writing exercises, group learning activities, and essay draft workshops that will help students produce their best work for their writing portfolios. The course emphasizes academic essay writing and introduces the documented argument paper. Prerequisites: ENGL 095 with signed waiver from instructor or ENGL 099 or APEN 085+. Corequisite: RDNG 113 or APRD 081+. Semester offered: Fall, Spring, and Summer.[NM Common Course Number ENGL 1113, Area I; Communications]

**ENGL-118 Technical Composition 3 cr.**

This college-level course introduces communication skills useful to technicians. Specific activities include a study of sentence mechanics; reading and summarizing technical material; gathering information and preparing both oral and written reports; and writing memoranda and letters. Additionally, the writing skills necessary for a job search will be emphasized. Prerequisites: ENGL 095 with signed waiver from instructor, ENGL 098 or 099 or APEN 085+. Corequisite: RDNG 113 or APRD 081+. Semester offered: Fall, Spring, and Summer.

**ENGL-211 Advanced Composition 3 cr.**

A continuation of the work begun in ENGL 111, Freshman Composition, with additional emphasis on the development of rhetorical and expository writing skills. The course stresses critical reading skills with particular attention given to literary forms such as the short story, poetry, drama and the novel. Additionally, the course emphasizes the research process necessary for advanced college writing. Prerequisite: ENGL 111 and RDNG 113. Semester offered: Spring.[NM Common Course Number ENGL 1123, Area I; Communications]

**ENGL-218 Advanced Technical Composition 3 cr.**

This advanced course in the theory and application of practical, informative writing, covers the organization and presentation of technical information in a variety of formats and situations, including memoranda, letters, reports, descriptions, explanations, summaries, resumes, interviews, and oral reporting. Additionally, the course emphasizes the research process necessary in advanced technical coursework as well as professional workplaces. Prerequisites: ENGL 118, Technical Composition or ENGL 111 Freshman Composition and RDNG 113. Semester offered: Fall, Spring, and Summer. [NM Common Course Number ENGL 2113, Area I; Communications]

**ENGL-221 Creative Writing: Fiction 3 cr.**

Introduction to the elements of fiction writing. Students will read and discuss short fiction, as well as experiment with their own writing and share original short stories in a workshop setting. Prerequisite: ENGL 111 or permission of instructor and RDNG 113. Semester offered: Fall.

**ENGL-222 Creative Writing: Poetry 3 cr.**

Introduction to the elements of poetry writing. Students will read and discuss poetry, as well as experiment with their own writing and share their original poetry in a workshop setting. Prerequisite: ENGL 111 or permission of instructor and RDNG 113. Semester offered: Spring.

**ENGL-223 Creative Writing: Creative Nonfiction 3 cr.**

Introduction to the elements, genres, and styles of Creative Nonfiction writing and to the requisite attributes of creative nonfiction writers-literary voice, personal interaction with subject, openness to experience, among others. Students will read and discuss essays in various genres-travel, nature, memoir, personal essay, social commentary, science, history, and more-as well as experiment with their own writing and share original nonfiction essays in a workshop setting. Prerequisite: ENGL 111 or permission of instructor and RDNG 113. Semester offered: Spring.

**ENGL-225 Introduction to Poetry 3 cr.**

This course will explore the vast world of poetry. In addition to surveying poetry, it will also study poetic conventions, techniques, and forms. Special attention will be paid to contemporary poetry. Prerequisite: ENGL 111 or permission of instructor. Semester offered: Fall, odd-numbered years.

**ENGL-228 Latin American Literature 3 cr.**

A study of Latin America through fiction, poetry, and essays written by Latin American authors. This course will offer the student an increased understanding of the complexities of Latin American cultures, politics, history, and socio-economic status. The course will primarily concentrate on literature written by authors of international status. Prerequisite: ENGL 111 or permission of instructor and RDNG 113. Semester offer: On demand.

**ENGL-230 Southwest Literature 3 cr.**

A study of the American Southwest through fiction, poetry, biography and other works by Anglos, Native Americans, and Hispanics. This course will contribute to the student an increased understanding of the culture of the Southwest and its relations to the broader American culture. Prerequisite: ENGL 111 or permission of instructor RDNG 113. Semester offered: Fall, odd numbered years.[NM Common Course Number ENGL 2713, Area I; Communications]

**ENGL-235 Women's Literature 3 cr.**

A survey of the works of women writers from the English-speaking tradition. Course includes study of works in various genres that explore the diversity of women's experience throughout the ages. Prerequisite: ENGL 111 or permission of instructor and RDNG 113. Semester offered: Fall, even-numbered years.

**ENGL-243 The Bible As Literature 3 cr.**

This course is a literary introduction to the Bible including a study of genres (narrative, poetry, proverb, visionary writing, and others), language, and archetypes. Prerequisite: ENGL 111 or permission of instructor and RDNG 113. Semester offered: Spring, odd-numbered years.

**ENGL-245 Native American Literature 3 cr.**

Provides students with an introduction to a representative range of contemporary and historical works by Native American Writers. Emphasizes literary styles of expression and analyzes texts for their influence on cultural continuity. Prerequisite: ENGL 111 or permission of instructor and RDNG 113. Semester offered: Spring, even-numbered years.[NM Common Course Number ENGL 2733, Area I; Communications]

**ENGL-250 Teaching Writing 3 cr.**

This course is designed for pre-service teachers as an introduction of methods of teaching the writing workshop and the principles of writing to learn. It is applicable for teachers at any level of teaching, and will include practical as well as theoretical material. Students will begin to develop their own practices and philosophies of teaching writing for their future classrooms. Prerequisite: ENGL 111 or permission of instructor and RDNG 113. Semester offered: Spring.

**ENGL-251 American Literature to 1865 3 cr.**  
A survey of the major literary works from pre-colonial times to 1865. Prerequisite: ENGL 111 or permission of instructor and RDNG 113. Semester offered: Fall. [NM Common Course Number ENGL 251, Area I; Communications]

**ENGL-252 American Literature From 1865 to Present 3 cr.**  
A continuation of the survey of major literary works from 1865 to the present. Prerequisite: ENGL 111 or permission of instructor and RDNG 113. Semester offered: Spring. [NM Common Course Number ENGL 2523, Area I; Communications]

**ENGL-261 Survey of World Literature I 3 cr.**  
A study of world literature from antiquity through the Renaissance. Prerequisite: ENGL 111 or permission of instructor and RDNG 113. Semester offered: Fall. [NM Common Course Number ENGL 2613, Area I; Communications]

**ENGL-262 Survey of World Literature II 3 cr.**  
A study of representative texts showing the diversity of people and cultures from a range of time periods from the Renaissance to the modern world. Prerequisite: ENGL 111 or permission of instructor and RDNG 113. Semester offered: Spring. [NM Common Course Number ENGL 2623, Area I; Communications]

**ENGL-271 Introduction to the Study of Language 3 cr.**  
This course offers a broad overview of the descriptive study of linguistics, including language acquisition, language structure, social and cultural aspects of language, and historical development of language. The course explores these and other linguistic issues with particular emphasis on their implications for teachers. Prerequisite: ENGL 111 or permission of instructor. Semester offered: Fall and Spring.

**ENGL-272 Traditional English Grammar 3 cr.**  
This course examines the morphology and syntax of standard English. It is a useful course for those who will be teaching language arts and those who wish to deepen their understanding of how English is structured. Prerequisite: ENGL 111 or permission of instructor and RDNG 113. Semester offered: Fall.

**ENGL-295/299 SPTO: (Special Topics) 1-3 cr.**  
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## ENTREPRENEURSHIP AND SMALL BUSINESS

**ENSB-150 Understanding Financial Statements 1 cr.**  
This course provides a practical understanding of business financial statements and statement analysis for the small business owner. Concepts related to the understanding of the information presented in financial statements, the balance sheet, the income statement, and the cash flow statement will be the major emphasis in this course. Semester Offered: Fall and Spring

**ENSB-265 Small Business Operations 3 cr.**  
This course offers a hands-on approach to managing a small business on an ongoing basis. Course topics include the business mission, marketing, financial planning, problem areas, decision making and management fundamentals for small business; planning, controlling, organizing and directing of human, financial and material resources for small businesses. Defines the problem solving and decision making processes. Those processes include identifying decision elements and recognizing characteristics. Prerequisite: ACCT 201. Corequisite: ENSB 150. Semester Offered: Fall and Spring.

**ENSB-285 Entrepreneurship 3 cr.**  
This course teaches entrepreneurs planning skills from business concept development to the actual development of a comprehensive business plan. A hands-on approach to starting and managing a business from product concept to dissolution. Incorporating the components of the business plan, course topics include marketing strategies and tactics, profitability, human resource management, financial management and projections and loan negotiations. Prerequisite: ACCT 201. Corequisite: ENSB 150. Semester Offered: Fall and Spring.

## FINANCE

**FINA-265 Personal Investing 3 cr.**  
Provides a practical education in the research and analysis of common investments such as stocks, bonds, mutual funds, and some derivatives including put and call options on equities. The course will also cover risk and reward, proper portfolio management and diversification, time value of money, operation of the investment markets, and the economics surrounding various investment options. Students will be involved with simulated stock, mutual fund, and option competitions. Semester Offered: Fall and Spring.

## FIRE SCIENCE

**FIRE-110 Firefighter I 9 cr.**  
This course teaches the basic principles and skills of firefighting. It is designed to develop a student starting with little or no knowledge of firefighting into a firefighter with a good knowledge base. The course covers the characteristics and science of fire and its behavior. The course exposes the student to some of the basic principals of firefighting, as well as some of the basic strategies and tactics employed to extinguish fires. Finally, this course covers many of the additional functions that firefighters may be called on to accomplish. This is the basic course in firefighting for entry-level firefighters.

**FIRE-118 Physical Fitness for Firefighters 1 cr.**  
Teaches the aspects of fitness for fire fighting. Students will learn how to develop strength, cardiovascular endurance, and flexibility in a participatory learning environment. Students are coached through workouts designed to improve strength in target muscle groups and develop the student's cardiovascular ability and fitness.

**FIRE-120 Firefighter II 6 cr.**  
This course builds on the principles and skills covered in Fire I. More advanced principles and techniques are introduced, and many of the concepts introduced in Fire I are expanded upon. This course rounds