

ENERGY**ENER-110 Oil & Gas Employee Immersion 4 cr.**

Classroom and hands-on learning experience designed for newly-hired technicians, and specialized technicians moving to multi-skilled positions. Covers an introduction to the industry, the basics of oil and gas production operations from the reservoir to the sales point, and common terminology for equipment, maintenance, and troubleshooting. Promotes an understanding of roles, accountabilities, and expectations; enhances employees' ability to work safely and effectively. Offered: On Demand.

ENER-111 Introduction to Oil and Gas 1 cr.

This course introduces students who have little or no knowledge of oil and gas industry to the basics of oil and gas discovery and production. Including locating and extracting the oil and gas; basic oil and gas field concepts; terminology of the oil and gas industries; the transmission of, and processing of oil and gas into consumable products. Offered: All.

ENER-112 Introduction to the Wellhead .5 cr.

Course presents basic principles of wellbore, wellhead, and Christmas tree design and operation for lease operators, field technicians, and pumps. Instruction provides students with standard terminology to promote effective communication regarding maintenance issues and potential malfunctions. By understanding and correctly identifying these designs and functions, students will be able to perform basic troubleshooting. Offered: On Demand.

ENER-113 Introduction to Separators & Tanks .5 cr.

Course presents basic principles of separator and tank design for production operations. Students will learn standard terminology for effective communication regarding: principles of separation, separator components, preventive maintenance, and operational efficiencies. Offered: On Demand.

ENER-116 Introduction to Plunger Lift Systems .5 cr.

Basic principles of the design and operation of the plunger lift system and its relationship to the wellhead separator. Instruction provides students with standard terminology to promote effective communication regarding incremental deliquification for maximum uplift, maintenance issues, and potential malfunctions. By understanding and correctly identifying plunger lift system design and function, students will be able to perform basic operations and troubleshooting tasks. Offered: On Demand.

ENER-117 Introduction to Pumping Unit .5 cr.

Basic principles of the design and operation of a pumping unit, aka beam lift, and its relationship to the wellhead separator. Instruction provides students with standard terminology to promote effective communication regarding maintenance issues and potential malfunctions. By understanding and correctly identifying pumping unit (surface equipment and downhole insert pump) design and function, students will be able to perform basic operations and troubleshooting tasks. Offered: On Demand.

ENER-118 Introduction to Gas Lift .5 cr.

Course presents basic principles of the design and operation of

gas lift. Instruction provides students with standard terminology to promote effective communication regarding maintenance issues and potential malfunctions. By correctly identifying gas lift design and function, students will be able to understand how to operate and perform basic troubleshooting for gas lift wells. Offered: On Demand.

ENER-119 Intro to Gas Measurement .5 cr.

Basic principles of gas measurement design and operation, particularly the orifice meter. Students will learn standard terminology for effective communication regarding maintenance and potential malfunctions. By understanding and gas measurement equipment and techniques, students will be able to perform basic troubleshooting. Course will include natural gas composition; types of meters; auxiliary equipment; sampling; inspection of measurement equipment; and gas sales contracts. Offered: On Demand.

ENER-120 Introduction to Dehydration .5 cr.

Basic principles of dehydration, including standard terminology to promote effective communication regarding equipment maintenance and potential malfunctions. Offers an overview of generic automation components including the solar panel, RTU, host, end devices, etc. and includes rationale for and economic value of automation. Introduces digital multimeter. Offered: On Demand.

ENER-121 Introduction to Automation .5 cr.

This course presents basic principles of the design and operation of automation. Students will learn to identify automation equipment and its location on the well site. Provides students with terminology to promote effective communication regarding troubleshooting and potential malfunctions. Offers an overview of generic automation components. Offered: On Demand.

ENER-122 Introduction to Compression .5 cr.

Course presents basic principles of the natural gas compression process and compressor skid design for production operations. Covers standard terminology of skid components to promote effective communication for identifying maintenance issues and potential malfunctions. By understanding and correctly identifying compressor skid components, design, and function, students will be able to perform basic troubleshooting. Offered: On Demand.

ENGLISH**ENGL-050 English Skills 3 cr.**

Helps students build competence in sentence mechanics, grammar, and usage through active learning. May be taken either with a companion English course or on its own. Offered: Fall & Spring.

ENGL-095 Basic Writing Workshop 6 cr.

Helps students improve writing and reading skills. Introduces students to college culture, including academic literacy, campus resources, computer skills, and college success strategies. Prerequisites: ENGL-050 and RDNG-050 or appropriate English and Reading Accuplacer scores. Corequisites: RDNG-095. Offered: All.

- ENGL-098 Basic Technical Composition** 3 cr.
Introduces communication skills useful for practical, informative writing in academic, technical, and workplace settings. Designed for technicians in certificate and A.A.S. fields. Prerequisites: ENGL-095 and RDNG-050 or appropriate English and Reading Accuplacer scores. Offered: Fall & Spring.
- ENGL-099 Basic Composition** 3 cr.
Improves students' academic and personal communication skills in preparation for college-level writing courses. Emphasizes academic literacy skills in college reading, writing, and basic use of sources. Prerequisites: ENGL-095 and RDNG-050 or appropriate Accuplacer English and Reading scores. Offered: All.
- ENGL-111 Freshman Composition** 3 cr.
Emphasizes academic writing, intertextuality, and analysis of rhetorical situation through writing workshop and readings. [NM Common Course Number ENGL 1113, Area I; Communications]. Prerequisites: ENGL-099 and RDNG-095 or appropriate Accuplacer English and Reading test scores. Offered: All.
- ENGL-118 Technical Composition** 3 cr.
Emphasizes workplace communication including letters, memos, reports, instructions, and job application materials. Designed for technicians in certificate and AAS fields. Prerequisites: ENGL 098 or ENGL-099 or appropriate Accuplacer English test score. Offered: All.
- ENGL-125 Introduction to Creative Writing** 3 cr.
Introduces four genres of creative writing: creative non-fiction, fiction, poetry and drama. Students will write in each genre, learning and practicing the elements of the craft. Each student's own voice and style will be encouraged with direction and techniques for more effective writing. Prerequisites: ENGL-111 or higher. Offered: Fall.
- ENGL-130 Editing and Style for Writers** 3 cr.
Examines the elements of good creative writing and the methodologies of evaluating and editing students' own writing and that of others. Includes style and usage, diction and sentence variety, imagery, and figurative language, and how to write concisely and with expression. Prerequisites: ENGL-111 or obtain permission of instructor. Offered: Fall.
- ENGL-211 Advanced Composition** 3 cr.
Develops rhetorical and expository writing skills. Explores a variety of forms and styles with emphasis on argument and academic research. [NM Common Course Number ENGL 1123, Area I; Communications]. Prerequisites: ENGL-111 and RDNG-113. Offered: All.
- ENGL-218 Advanced Technical Composition** 3 cr.
Emphasizes theory and application of workplace communication, including design principles, graphics, collaborative writing, research process, and source incorporation into a variety of documents such as letter, memos, reports, instruction, definitions, and proposals. [NM Common Course Number ENGL 2113, Area I; Communications]. Prerequisites: ENGL-118 or ENGL-111 and RDNG-113. Offered: All.
- ENGL-221 Creative Writing: Fiction** 3 cr.
Introduces the techniques and practice of contemporary fiction including novels and short stories. Students write and share original stories in a workshop setting. Prerequisites: ENGL-111 or obtain permission of instructor. Offered: Fall.
- ENGL-222 Creative Writing: Poetry** 3 cr.
Introduces the elements of poetry writing. Students read and discuss poetry, as well as experiment with their own writing and share their original poetry in a workshop setting. Prerequisites: ENGL-111 or permission of the instructor. Offered: Spring.
- ENGL-223 Creative Writing: Creative Nonfiction** 3 cr.
Explores the elements, genres, and styles of creative nonfiction and the requisite attributes of creative nonfiction writers--literary voice, personal interaction with subject, openness to experience, among others. Students experiment with forms such as memoir, travel, nature, personal essay, social commentary, and more. Prerequisites: ENGL-111 or obtain permission of instructor. Offered: Spring.
- ENGL-225 Introduction to Poetry** 3 cr.
Explores the vast world of poetry. Introduces poetic conventions, techniques and forms with special attention to contemporary poetry. Prerequisites: ENGL-111 or obtain permission of instructor. Offered: Fall odd-numbered years.
- ENGL-228 Latin American Literature** 3 cr.
Explores fiction, poetry and essays written by Latin American authors. Offers students an increased understanding of the complexities of Latin American cultures, politics, history and socio-economic status. Prerequisites: ENGL-111 or obtain permission of instructor. Offered: On Demand.
- ENGL-230 Southwest Literature** 3 cr.
Explores fiction, poetry, biography, and other works by Anglos, Native Americans, and Hispanics. Increases students' understanding of the Southwest and its relations to the broader American culture. [NM Common Course Number 2713, Area V; Humanities]. Prerequisites: ENGL-111 or obtain permission of instructor. Offered: Fall.
- ENGL-235 Women's Literature** 3 cr.
Surveys women writers from the English-speaking tradition. Includes various genres that represent the diversity of women's experiences. Prerequisites: ENGL-111 or obtain permission of instructor. Offered: Fall even numbered years.
- ENGL-243 The Bible As Literature** 3 cr.
Introduces the Bible through a literary study of genres (narrative, poetry, and proverb among others), language and archetypes. Prerequisites: ENGL-111 or obtain permission of instructor. Offered: On Demand.
- ENGL-245 Native American Literature** 3 cr.
Introduces students to historical and contemporary works by Native American writers. Examines themes relevant to cultural identity. [NM Common Course Number 2733, Area V; Humanities]. Prerequisites: ENGL-111 or obtain permission of instructor. Offered: Spring.

ENGL-250 Teaching Writing 3 cr.

Introduces methods of teaching the writing workshop and the principles of writing to learn. Includes practical as well as theoretical material applicable for teachers at any level. Students develop their own practices and philosophies of teaching writing. Prerequisites: ENGL-111 or obtain permission of instructor. Offered: Spring.

ENGL-251 American Literature to 1865 3 cr.

Surveys major literary works from pre-colonial times to 1865. [NM Common Course Number 2513, Area V; Humanities]. Prerequisites: ENGL-111 or obtain permission of instructor. Offered: Fall.

ENGL-252 American Literature From 1865 to Present 3 cr.

Surveys major literary works from 1865 to the present. [NM Common Course Number 2523, Area V; Humanities]. Prerequisites: ENGL-111 or obtain permission of instructor. Offered: Spring.

ENGL-261 Survey of World Literature I 3 cr.

Surveys world literature from antiquity through the Renaissance. [NM Common Course Number 2613, Area V; Humanities]. Prerequisites: ENGL-111 or obtain permission of instructor. Offered: Fall.

ENGL-262 Survey of World Literature II 3 cr.

Examines world literature from the Renaissance to the modern world. [NM Common Course Number 2623, Area V; Humanities]. Prerequisites: ENGL-111 or obtain permission of instructor. Offered: Spring.

ENGL-271 Introduction to the Study of Language 3 cr.

Introduces the study of linguistics including the basic structure of language, first and second language acquisition, bilingualism, and social and regional variation. Explores linguistics issues with emphasis on their educational implications. Prerequisites: ENGL-111 or obtain permission of instructor. Offered: Fall & Spring.

ENGL-272 Traditional English Grammar 3 cr.

Examines the form and function of words and the structure of sentences in the English language, through analysis and diagramming, with applications for teachers and writers. Prerequisites: ENGL-111 or obtain permission of instructor. Offered: Fall.

ENGL-280 Advanced Creative Writing by Genre 3 cr.

Provides continued exploration and development for writers with experiences in a given genre and emphasizes the practice and techniques of published writers. Prerequisites: ENGL-221 or ENGL-222, depending on the genre. Minimum grade required: C. ENGL-125 is strongly recommended. Offered: On Demand.

ENGINEERING**ENGR-112 Introduction to Engineering** 3 cr.

An introduction to engineering as a career. Issues important to engineers, as students and professionals, are discussed along with 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 and team design.

Prerequisites: TAKE MATH-115. Corequisites: ENGL-111. Offered: Fall & Spring.

ENGR-230 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. Prerequisites: MATH-189. Offered: Fall.

ENGR-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 and PHYS-215. Offered: Fall.

ENGR-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 and ENGR-233. Offered: Spring.

ENGR-236 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. Minimum grade required: C. Prerequisites: PHYS-215. Offered: Spring.

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. Prerequisites: Completion of RDNG-095 and ENGL-099 or appropriate Reading and English Accuplacer Scores. Offered: Fall & 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. Prerequisites: Completion of RDNG-113 and ENGL-099 or appropriate Reading and English Accuplacer scores. Take ACCT-201. Corequisites: ENSB-150. Offered: Spring.