

Bossier Parish Community College
Master Syllabus

Course Prefix and Number: OGPT 101

Credits: 3-3-0

Course Title: Introduction to Exploration and Production of Oil and Gas

Course Prerequisite: MATH 099

Textbook(s): Denehy, Deby. Oil and Gas: The Production Story, 2nd edition. The University of Texas Petroleum Extension Service, 2008. ISBN 0886982251

Course Description: This course is an introduction to the various aspects of the oil and gas industry, including equipment, systems, instrumentation, operations, and the related scientific principles. The origins of oil and gas, exploration, leasing, drilling, testing and completing wells, stimulating reservoirs, reservoir production, lifting, recovering, and separation are also included. This course also meets the computer literacy requirement.

Learning Outcomes:

At the end of the course, the student will:

- A. demonstrate basic oil and gas concepts;
- B. understand basic oil and gas exploration, drilling, and completion techniques;
- C. identify basic oil and gas production processing equipment and processes;
- D. understand basic oil and gas distribution.

To achieve the learning outcomes, the student will or will be able to:

(The letter designations at the end of each statement refer to the learning outcome(s).)

1. demonstrate basic understanding of oil and gas reservoir characteristics, including oil and gas terminology, composition, and geology; (A)
2. describe exploration techniques, including survey data, leasing, and seismic techniques; (B)
3. demonstrate basic understanding of drilling and completion techniques, including simple and complex wells, logging, casing/tubing, well testing and fracturing; (C)
4. develop basic understanding of production processing, including well stimulation, reservoir production and driving methods; (D)
5. demonstrate basic comprehension of well performance and enhancement, including pump systems, enhanced recovery, treating reservoir fluids; (C)develop basic understanding of processing, including special products, storing and measuring oil and gas; (D)
6. develop basic understanding of oil and gas distribution; (D)

Course Requirements: Complete all homework assignments, lectures, tests, and final exam. Textbook, computer access and scientific calculator are required.

Course Grading Scale:

90% to 100% = A
80% to < 90% = B
70% to < 80% = C
60% to < 70% = D
< 60% = F

Attendance Policy: The college attendance policy is available at <http://www.bpcc.edu/catalog/current/academicpolicies.html>

Course Fees: This course is accompanied with an additional fee for supplemental materials.

Nondiscrimination Statement: Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

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Angie Cao, Student and Disability Services Specialist
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Equity/Compliance Coordinator
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