Course Syllabus

PTRT 1301
Introduction to the Petroleum Industry

***** Note to Student *****

Student Success is our number one priority at Coastal Bend College and we realize that prompt, effective communication plays a significant role in achieving that goal. It is vitally important that you have the proper contact information for your instructor. This should include their phone number, email address, and if applicable, their office number, and office hours. If you ever have any problems contacting your instructor, or do not receive a prompt response to your inquiries, please contact the Assistant Dean of Workforce Training, or the Dean of Workforce, as soon as possible. Their contact information is provided below:

<table>
<thead>
<tr>
<th>Julia Garcia, Dean of Workforce Training</th>
<th>Noemi Aguilar, Assistant Dean of Workforce Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>(830) 569-4222 X1202</td>
<td>(361) 354-2306</td>
</tr>
<tr>
<td><a href="mailto:jgarcia@coastalbend.edu">jgarcia@coastalbend.edu</a></td>
<td><a href="mailto:aguilard@coastalbend.edu">aguilard@coastalbend.edu</a></td>
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<td>Coordinator of Industrial Workforce: Rolando Chavarria;</td>
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<td></td>
<td>361-664-2981 EX 3027 <a href="mailto:rolandje@coastalbend.edu">rolandje@coastalbend.edu</a></td>
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We wish you all the best in your education and encourage you to contact us if you have any questions or concerns.

Keeping student success in sight, faculty in each of the courses will review with students, course information with specific reading schedules, assignments, and testing information during the first week of class. Additionally, the course information will be posted to Blackboard (THECB 60x30TX compliance).

Course Description: An introduction to the various aspects of petroleum industry including equipment, systems, instrumentation, operations, and the various scientific principles. Addresses a variety of petroleum technologies: exploration, drilling, production, transportation, marketing, and chemical processing industries.

Semester Hours: 3

Lecture/Lab Hours: Class meets for (3) lecture hours per week. Student will be dropped after (3) consecutive unexcused absences.

Prerequisite: Introductory

End-of Course Outcomes: Upon successful completion of this course the student will:
1. Identify the concepts of exploration, production, refining, marketing, and transportation.
2. Describe the terms and phases associated with the petroleum industry.

Evaluation Methods: Will be based on the following criteria:
Tests & Assignments  75%
Final Exam  25%

A-100-90 Points, B 89-80, C 79-70, D 69-60, F 59 & Below

Student Learning Outcome: Students will describe in detail the assessments of exploration, production, refining, marketing, and transportation in the oil and gas industry.

Student Contribution: Each student is expected to spend (3) hours per week preparing for class. Attendance is crucial for the success of this course.

This Course consists of:
1. Individual reading, taking notes in the classroom.
2. Completion of homework assignments on time.
3. Lectures and demonstrations by the instructor.
4. Class discussion on material taught.
5. Completion of work book assignments on visual aids.
6. Comprehensive Quizzes and Tests given by Instructor.
7. Completion of all tests on time.
8. Make up work will have a 10 point penalty for every day that is not made up.

Teaching methods:
1. Lecture
2. Demonstrations
3. Projects
4. Visual Aids
5. Homework Assignments

Course Evaluation Methods:
1. Homework Assignments
2. Written Tests and Quizzes
3. Final Exam

Course Outline:

I. How the earth was formed.
   a) How the earth was formed and oil and gas were deposited.
   b) How the geologic structure of the earth formed different types of rock formations.
II. Petroleum Origins and Accumulation.
   a) Student will learn different types of rock properties.
   b) Student will learn different types of traps.
   c) Student will learn different reservoir pressures.

III. Petroleum Exploration
   a) Exploration of the past.
   b) Exploration Geology
   c) Seismic Geology
   d) Geologic tools used in the industry.

IV. Basic Contracts & Regulations
   a) Land Ownership
   b) Acquiring mineral rights
   c) Different petroleum contracts

V. Reservoir Performance
   a) Different reservoir fluids
   b) Different reservoir drives
   c) Gas Reservoirs
   d) Water Flooding

VI. Drilling
   a) Introduction to drilling
   b) Early drilling rigs
   c) Rotary drilling
   d) Drilling crews
   e) Drilling procedures

VII. Formation Evaluations
   a) Coring
   b) Open Hole well logs
   c) Data Requirements

VIII. Well Completions
   a) Casing
   b) Cementing
   c) Well Stimulation
   d) Sand Control
   e) Equipping the well to produce

IX. Production
   a) Natural Reservoir Flow
   b) Artificial Lift
   c) Sucker Rod Pumping

X. Natural Gas & Oil
   a) Markets
   b) Field handling of natural gas
   c) Disposal of surplus associated gas
   d) Natural Gas pipelines
XI. Refining and Petrochemicals
   a) Process
   b) Petrochemicals

XII. Petroleum Marketing
   a) Crude marketing
   b) OPEC and Crude pricing
   c) Natural Gas marketing
   d) Refined and petrochemical product marketing

Technical Support:

| Email Support: | helpdesk@coastalbend.edu  
cabrigo@coastalbend.edu  
ycharles@coastalbend.edu |
|---------------|------------------------------------------------------------------|
| Telephone Support: | 866-722-2838 ext. 2508 (Toll Free)  
361.354.2508 (Direct Line) |
| Live Chat: | Fall/Spring Hours: Monday-Thursday 8 a.m. to 8 p.m.; Friday 8 a.m. to 5 p.m.  
Summer Hours: Monday-Thursday 7 a.m. to 6 p.m. |

Tutoring Services: Coastal Bend College offers free tutoring services to all CBC students who need academic assistance. Services include One-on-One, Group, and Online tutoring to all current CBC students. The Tutoring Coordinator’s office is at CBC-Beeville in the Student Success Center (SSC), Room 140 which is in the R.W. Dirks building. The SSC’s hours of operation are Monday - Thursday from 8 am – 8 pm. Tutoring services are also available at all the CBC site locations and students can visit the site’s SSC. For questions regarding tutoring services, please contact the CBC Tutoring Coordinator at (361) 354-2838 ext. 2578 or visit us at our website at: http://coastalbend.edu/tutoring/.

<table>
<thead>
<tr>
<th>Beeville</th>
<th>Alice</th>
<th>Kingsville</th>
<th>Pleasanton</th>
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</table>
| 3800 Charco Road  
Beeville, TX 78102  
1-866-722-2838 | 704 Coyote Trail  
Alice, TX 78332  
1-866-891-2981 | 1814 Brahma Blvd.  
Kingsville, TX 78363  
1-866-262-1615 | 1411 Bensdale  
Pleasanton, TX 78064  
1-866-361-4222 |

Grady C. Hogue Learning Resource Center (Library): Located on the Beeville campus, the operation hours are Monday - Thursday 8:00 a.m. - 6:00 p.m.; Friday 8:00 a.m.- 5:00 p.m.
(Summer semesters will observe the CBC campus operation hours.) For locations and hours of CBC library in Alice, Kingsville, and Pleasanton sites please visit the library web page links below.

Grady C. Hogue Learning Resource Center (Library): [http://lrc.coastalbend.edu/about](http://lrc.coastalbend.edu/about)
Online Catalog : [http://lrc.coastalbend.edu/catalog](http://lrc.coastalbend.edu/catalog)
Library Website: [http://lrc.coastalbend.edu/about](http://lrc.coastalbend.edu/about)
Hours and Locations: [http://lrc.coastalbend.edu/hours](http://lrc.coastalbend.edu/hours)

Pleasanton Public Library: [https://pleasanton.biblionix.com/](https://pleasanton.biblionix.com/)
115 N. Main St., Pleasanton, TX 78064
Monday – Friday 9:00 a.m. – 6:00 p.m.
Saturday 9:00 a.m. – 1:00 p.m.

Financial Aid: Resources are available for students for financial aid, work study, and veteran benefits. For additional information, visit our website at [www.coastalbend.edu/finaid](http://www.coastalbend.edu/finaid) or contact us at 361-354-2238. Office hours: Monday-Thursday 7-6 and Friday 8-5 (THECB 60x30TX compliance.)

ADA Statement: No qualified individual with a disability shall, by reason of such disability, be excluded from participation in or be denied the benefits of the services, programs, or activities of the College District, or be subjected to discrimination by the College District. Nor shall the College District exclude or otherwise deny equal services, programs, or activities to an individual because of the known disability of an individual with whom the individual is known to have a relationship or association. 42 U.S.C. 12132; 28 CFR 35.130(g).

See at: [GA (Legal)](http://www.coastalbend.edu/)

Students with Disabilities: Please notify your instructor of any modification/adaptation you may require to accommodate a disability-related need. You will need to provide documentation to the Director of Student Services so the most appropriate accommodations can be determined. Specialized services are available through the Office of Disability Services (SSB 4.104, 471-6259). For more information contact (361) 354-2300.

Scholastic Dishonesty: Each student is charged with notice and knowledge of the contents and provisions of Coastal Bend College’s rules and regulations concerning student conduct. All students shall obey the law, show respect for properly constituted authority, and observe correct standards of conduct. Scholastic dishonesty shall constitute a violation of these rules and regulations and is punishable as prescribed by Coastal Bend College Policies [FLB (Local)](http://www.coastalbend.edu/policies/FLB) and [FM (Local)](http://www.coastalbend.edu/policies/FM). Scholastic dishonesty shall include, but not be limited to, cheating on a test, plagiarism, and collusion.

Use of E-mail for Official Correspondence to students: All students should be familiar with the college’s official email student notification policy. Students are expected to check their CBC email on a frequent and regular basis to stay current with college-related communications, recognizing that certain communications may be time-critical. CBC email format: last name with last four digits of social security number
@study.coastalbend.edu and password is your student ID (ex. cougar1234@study.coastalbend.edu).

Copyright Law and Intellectual Property Rights Policy: Copyright is the right of an author, artist, composer or other creator of a work of authorship to control the use of his or her work by others. Protection extends to literary works, musical works, dramatic works, pantomimes and choreographic works, pictorial and graphic works, sculpture, motion pictures and other audiovisual works, sound recordings and architectural works. Generally speaking, a copyrighted work may not be reproduced by others without the copyright owner's permission. The public display or performance of copyrighted works is similarly restricted. Generally, the unauthorized reproduction, performance or distribution of a copyrighted work is copyright infringement and may subject the infringer to civil and criminal penalties. The Fair Use Doctrine outlines exceptions to this Law and is outlined in Coastal Bend College Policy, CT (Legal).

Coastal Bend College, its faculty, students and employees must comply with Copyright Law. Detailed information on Copyright Law and Intellectual Property Rights is available in Coastal Bend College Policy CT (Legal) and CT (Local).

Questions regarding this information should be directed to the Director of Library Services at: library@coastalbend.edu or the Office of Marketing and Public Relations at: socialmedia@coastalbend.edu.

Intellectual Property: Student /Third Party Works: Rights to copyrightable or patentable works created by a student or a third party, that is, not a College District employee, shall reside with the author/creator. Detailed information on Copyright Law and Intellectual Property Rights is available in Coastal Bend College Policy CT (Legal) and CT (Local).

Questions regarding this information should be directed to Library Services at: library@coastalbend.edu.

NOTE: The College website (www.coastalbend.edu) serves as the main source with the most current version of the Coastal Bend College Board Policies and the Coastal Bend College Catalog. Revised 8-22-18.