Midland College
Syllabus
TGMT 3356 Oil and Gas Industry

3 semester credit hours (3 hours lecture)

Course Description: This course introduces the student to the development of multiple-use resource management strategies and the role of public policy in energy resource management. Topics include legal, regulatory, and operational requirements of energy production, refining, and transportation enterprises.

This course will achieve the following general student learning outcomes for the Bachelor of Applied Technology program:

- Demonstrate an understanding of the cultural, political, legal, technological, and economic forces that shape the global business environment.
- Solve complex management problems utilizing critical thinking, research methodology, problem solving techniques, and decision making models to create new opportunities to enterprises.
- Apply the skills acquired in their area of interest in the management of projects and processes, the development and marketing of products and services, and the financing of the ventures.

This course is an upper division course for students that have met the admission requirements for upper division courses. This course is designed to investigate the broad spectrum of the business oil and gas industry issues that managers face today and will face in the future.

The basic principles and concepts of oil and gas industry will be presented in the lectures, class discussions, through the select readings and research. This course uses the case analysis skills as the focus of learning. Case analysis is the basis of student exercises that involve the student in the thought process for the oil and gas industry.

This course will transfer to other community colleges and most four-year institutions in Texas.
Prerequisite: None

Text, References, and Supplies:


Course Goals/ Objectives:

Upon successful completion of the course the student will be able to:

<table>
<thead>
<tr>
<th>Competencies</th>
<th>Purpose and/or sample real life applications</th>
<th>Projects</th>
<th>Used through out the course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provide an overview of energy markets.</td>
<td>Prepare the student for the complexity in the oil and gas industry environment. Review energy fundamentals such as energy sources, energy uses, and key definitions.</td>
<td>Use critical thinking to analyze, synthesize and evaluate real-world oil and gas industry environments in which business functions. Integrate student experiences, current events, and instructors’ real-world experiences into a business framework.</td>
<td>yes</td>
</tr>
<tr>
<td>Explain environmental implications of energy.</td>
<td>Be able to explain the externalities of traditional fuel sources like coal and the ways that regional pollution has been regulated</td>
<td>Use critical thinking to analyze, synthesize and evaluate the economics of climate change.</td>
<td>yes</td>
</tr>
<tr>
<td>Explain the issues of investment in renewable energy sources.</td>
<td>Be able identify the technologies of renewable resources and consider their private and social costs and benefits.</td>
<td>Use critical thinking to analyze, synthesize and evaluate the economics of renewable resources policies.</td>
<td>yes</td>
</tr>
<tr>
<td>Explain issues of inducing energy conservation.</td>
<td>Be able to explain the economics of energy conservation.</td>
<td>Use critical thinking to analyze, synthesize and evaluate the policies of energy conservation. Integrate student experiences and current events into a business framework.</td>
<td>yes</td>
</tr>
</tbody>
</table>

Students will form teams of three to conduct team research, create a written research paper and present the results to the class in a group presentation. In addition, one essay of 5 pages in length is due from each student in this class. The student has the right to choose the topic and get agreement from the professor that the topic matches the goals of the course.

Student Contribution and Class Policies:

Each student is expected to study at least six hours per week preparing for class, take an active role in lecture/discussion, meet assignment due dates, and conduct themselves in a businesslike manner in the class. Students will be expected to exhibit professional behavior during scheduled class times and while in the lab. Professional behavior includes, but is not limited to, the following:

1. Complies with the rules of Midland College
2. Attends class regularly (no more than two/three absences)
3. Is punctual
4. Exhibits cooperative behavior in class
5. Ear phones, cell phones, and beepers are disruptive and not permitted in class.
6. Is dressed appropriately
7. Take all tests on the scheduled dates.
8. Gives the instructor advanced notice when leaving class early

If it becomes necessary for a student to miss a scheduled class time, it will be the student’s responsibility to contact the instructor during scheduled office hours in order to receive missed assignments.

Missed Exams: If a student is absent on a scheduled exam day, he/she may schedule the make-up exam with the professor.

Evaluation of Students:

<table>
<thead>
<tr>
<th>Tests/Cases</th>
<th>Points</th>
<th>Semester course grade is determined as follows:</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>100</td>
<td>360-400</td>
<td>A</td>
</tr>
<tr>
<td>Final Exam</td>
<td>100</td>
<td>320-359</td>
<td>B</td>
</tr>
<tr>
<td>Team Research</td>
<td>100</td>
<td>280-319</td>
<td>C</td>
</tr>
<tr>
<td>Oil and gas industry Essay</td>
<td>100</td>
<td>240-279</td>
<td>D</td>
</tr>
<tr>
<td>Total</td>
<td>400</td>
<td>239 or Less</td>
<td>F</td>
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</table>

Course Schedule:
This class meets for 3 lecture hours per week. A detailed day to day schedule and class assignment will be provided at the beginning of the semester.

Instructor Information: