Course Content:
This course entails various industrial processes and the physical characteristics of materials used to make products, updating skills, knowledge, and experience in manufacturing

Course Learning Objectives:
Students completing this course should be able to:

- Demonstrate a thorough understanding of manufacturing processes.
- Demonstrate a thorough understanding of materials testing.
- Demonstrate the properties of materials used in manufacturing.
- Demonstrate the quality systems of manufactured materials.

Required Textbook

Course Competencies: Listed below.

<table>
<thead>
<tr>
<th>Course Competencies</th>
<th>TECH 5309</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Computer-Based Skills</strong> – the student will complete</td>
<td></td>
</tr>
<tr>
<td>written assignments using the word processor.</td>
<td></td>
</tr>
<tr>
<td><strong>Communication Skills</strong> – the student will exhibit a</td>
<td>X</td>
</tr>
<tr>
<td>mastery of both written and oral skills in completion</td>
<td></td>
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<tr>
<td>and presentation of the assigned projects.</td>
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<tr>
<td><strong>Interpersonal Skills</strong> – the student will interact</td>
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<tr>
<td>in class discussion to clarify thinking regarding</td>
<td></td>
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<tr>
<td>technological progress.</td>
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<tr>
<td><strong>Problem Solving (Critical Thinking)</strong> – the student</td>
<td>X</td>
</tr>
<tr>
<td>will use conceptual thinking to analyze and make</td>
<td></td>
</tr>
<tr>
<td>determinations regarding the use of industrial</td>
<td></td>
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<tr>
<td>processing equipment.</td>
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<tr>
<td><strong>Ethical Issues in Decision Making and Behavior</strong> –</td>
<td></td>
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<tr>
<td>the student will gain an appreciation of the ethics of</td>
<td></td>
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<tr>
<td>technology through examination of various</td>
<td></td>
</tr>
</tbody>
</table>
Grading Policy and Criteria to Determine Final Course Grade:

Videos will be supplemental to the course.

Assignments
- Discussion Board (30pts) (30%) = 60 points possible
- Assignments (20pts) (15%) = 60 points possible
- Case Studies (40pts) (55%) = 80 points possible

TOTAL = 200 POINTS*

*Points and percentage will be displayed in the grade book of Blackboard

Grade Scale Breakdown:
- A=90 - 100%
- B=80 - 89%
- C=70 - 79%
- D=60 - 69%
- F=BELOW 60% Note: 89.999999999999999 is still a B.

Course Format
The course involves discussions, case studies, current readings, and YouTube videos. Student responses on the discussion board should have quality content to demonstrate critical-thinking and creativity. For further explanation, see Blackboard Discussions.
Schedule for Semester:

<table>
<thead>
<tr>
<th>Date of Release of Assignment</th>
<th>No.</th>
<th>Topic/Activity</th>
<th>Reading (Pgs./Due Date)</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 3</td>
<td>-</td>
<td>INTRODUCTIONS ON DISCUSSION BOARD</td>
<td>-</td>
</tr>
<tr>
<td>June 4</td>
<td>1</td>
<td>CHAPTER 1 - GENERAL INTRODUCTION</td>
<td>1-32</td>
</tr>
<tr>
<td>June 4</td>
<td>1</td>
<td>Assignment</td>
<td>JUNE 7</td>
</tr>
<tr>
<td>June 9</td>
<td>2</td>
<td>CHAPTER 2-MECHANICAL BEHAVIOR, TESTING…</td>
<td>55-81</td>
</tr>
<tr>
<td>June 9</td>
<td>2</td>
<td>Discussion Board</td>
<td>JUNE 11</td>
</tr>
<tr>
<td>June 13</td>
<td>3</td>
<td>CHAPTER 5-FERROUS METALS AND ALLOYS…</td>
<td>128-144</td>
</tr>
<tr>
<td>June 13</td>
<td>3</td>
<td>Case Study</td>
<td>JUNE 16</td>
</tr>
<tr>
<td>June 16</td>
<td>4</td>
<td>CHAPTER 6-NONFERROUS METALS AND ALLOYS…</td>
<td>150-165</td>
</tr>
<tr>
<td>June 16</td>
<td>4</td>
<td>Assignment</td>
<td>JUNE 19</td>
</tr>
<tr>
<td>June 21</td>
<td>5</td>
<td>CHAPTER 8-CERAMICS, GLASS, GRAPHITE…</td>
<td>194-210</td>
</tr>
<tr>
<td>June 21</td>
<td>5</td>
<td>Discussion Board</td>
<td>JUNE 24</td>
</tr>
<tr>
<td>June 24</td>
<td>6</td>
<td>CHAPTER 9-COMPOSITE MATERIALS: STRUCTURE…</td>
<td>215-229</td>
</tr>
<tr>
<td>June 24</td>
<td>6</td>
<td>Case Study</td>
<td>JUNE 26</td>
</tr>
<tr>
<td>June 28</td>
<td>7</td>
<td>CHAPTER 36-QUALITY ASSURANCE, TESTING…</td>
<td>1030-1053</td>
</tr>
<tr>
<td>June 28</td>
<td>7</td>
<td>Assignment</td>
<td>JULY 2</td>
</tr>
</tbody>
</table>

Criteria for Case Studies (PLEASE READ CAREFULLY!!!!)

All assignments (not Discussion Board) are required to have:
- Name, Class, and date in the upper right-hand corner
- All sources will be in APA 6th Edition
- Title of assignment will be centered on the top of the page
- Grammar and spelling must be checked before uploading assignment

THESE FOUR REQUIREMENTS ARE NOT MET; THERE IS A 10 POINT DEDUCTION FOR NO REFERENCE AND 5 POINT DEDUCTION FOR WRONG FORMAT.

Using Blackboard for Turning in Assignments (PLEASE READ CAREFULLY!!!!)

Blackboard will be the tool for communication and turning in assignments. ALL ASSIGNMENTS WILL OPEN UP AT 7AM AND TURNED IN PROMPTLY AT 11PM. Folders will be created for each assignment to upload your assignments. Each assignment will have a due date. IF YOU DO NOT MEET THE DUE DATE FOR THE ASSIGNMENT, THE FOLDER WILL DEACTIVATE/DISAPPEAR, THEREFORE, YOU WILL NOT BE ABLE TO TURN IN YOUR ASSIGNMENT TO RECEIVE CREDIT. The only exception to turn in an assignment after the due date is if you are ill (with a written excuse) or technical difficulties. IT IS YOUR RESPONSIBILITY TO COMMUNICATE WITH TECHNICAL SERVICES TO RESOLVE YOU BLACKBOARD MALFUNCTIONS.

Blackboard Discussions (Please read carefully!!!!!)

The online course format requires communication between students to stimulate conversation and feedback on the topics. In order to receive credit/points for every discussion posted, you MUST respond to at least two students.

Grade Dispute

If you have a disagreement with your final grade, you have 1 week to resolve it. You must bring all of your assignments when meeting with the instructor.
Final Exam Date: 
July 5, 2013

Date to Withdraw Without Penalty: 
June 20, 2013

Supplies
Flash drive (1G to 4G) to save assignments

Attendance and Make-Up Policy:
Attendance is expected in this course in order to achieve maximum learning for all participants. Unforeseen circumstances do sometimes arise, so periodic absences may occur. If you find that you must miss a class meeting, please contact the instructor prior to the start of class. Please be on time. If you must arrive late, let the instructor know prior to the start of class. Laptops are permitted but the wireless internet card must be disabled during the class. Also, cell phones must be turned off and put away during class.

If a student is sick or have a death in the immediate family, the instructor will discuss the arrangements for turning in make-up work. The student must have written proof too make up an assignment or exam.

Writing Assistance
Each student is entitled to free writing assistance in the Writing Center. Students who take advantage of this service will receive five extra points on essay grades if they take their drafts to the Writing Center. The student must provide documentation that he or she received assistance in the Center. An appointment is strongly advised.

Communication between Instructor and Student
Please allow 1 to 3 days to respond back to you because I have two other courses to teach. Thank you for your patience.

Department Website: www.uttyler.edu/hrdt

Students Rights and Responsibilities
To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link: http://www2.uttyler.edu/wellness/rightsresponsibilities.php

Grade Replacement/Forgiveness and Census Date Policies
Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. Grade Replacement Contracts are available in the Enrollment Services Center or at http://www.uttyler.edu/registrar. Each semester’s Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar.

Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.
The Census Date is the deadline for many forms and enrollment actions that students need to be aware of. These include:

- Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)
- Schedule adjustments (section changes, adding a new class, dropping without a “W” grade)
- Being reinstated or re-enrolled in classes after being dropped for non-payment
- Completing the process for tuition exemptions or waivers through Financial Aid

**State-Mandated Course Drop Policy**

Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date).

Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

**Disability Services**

In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University offers accommodations to students with learning, physical and/or psychiatric disabilities. If you have a disability, including non-visible disabilities such as chronic diseases, learning disabilities, head injury, PTSD or ADHD, or you have a history of modifications or accommodations in a previous educational environment you are encouraged to contact the Student Accessibility and Resources office and schedule an interview with the Accessibility Case Manager/ADA Coordinator, Cynthia Lowery Staples. If you are unsure if the above criteria applies to you, but have questions or concerns please contact the SAR office. For more information or to set up an appointment please visit the SAR office located in the University Center, Room 3150 or call 903.566.7079. You may also send an email to cstaples@uttyler.edu

**Student Absence due to Religious Observance**

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

**Student Absence for University-Sponsored Events and Activities**

If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.
Social Security and FERPA Statement:

It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

Emergency Exits and Evacuation:

Everyone is required to exit the building when a fire alarm goes off. Follow your instructor’s directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.
STATEMENT OF AGREEMENT

I (print name) understand the contents of the syllabus and is responsible for all assignments, tests, and any other activities stated and understand all due dates for assignments, tests, and any other activities in the syllabus for the course TECH 5309 Industrial Processes & Materials for the Summer semester 2013.

Sign___________________________________________

Date____________________________________________