

**MENG 3319 – Materials Science and Manufacturing**  
**Course Syllabus**

Semester / Year	Fall / 2020
Catalog Description	Introduction to materials science including the microstructure of metals, ceramics, and polymers, the materials properties by mechanical testing, the relationship between processing techniques on microstructure and material properties, and the materials manufacturing methods. Two hours of lecture and three hours of lab per week.
Prerequisites	C or better in CHEM 1311 and CHEM 1111 or equivalent, MENG 1301 or completion of a Computer Aided Drafting course
Section number	001, 001L, 002L
Instructor	Dr. Shih-Feng Chou
Contact info	3900 University Blvd., RBN 3005, Tyler TX. 75799 Phone: 903-566-6209 Email: <a href="mailto:schou@uttyler.edu">schou@uttyler.edu</a>
Class Type / Location	001: Hybrid (Face-to-face or Zoom synchronous) / RBN 3038 001L & 002L: Hybrid (Face-to-face or Zoom synchronous) / RBN 1024
Class Time	001: TuTh 8:00 AM – 8:55 AM 001L: Tu 2:00 PM – 4:45 PM; 002L: Th 2:00 PM – 4:45 PM
Office Hours	Zoom meeting only: TuTh 10 – 11 AM, Mo 1 – 2 PM, or by appointment. Meeting ID: 980-7269-0601; Passcode: 613193.
Credits	3
Required Textbook	Materials Science and Engineering: An Introduction, William D. Callister and David G. Rethwisch, 10th Edition, 2018, ISBN# 9781119405498
Optional References	Class Handout
Additional requirements	N/A
Evaluation Method	Quizzes: 5% Homework: 20% Exams: 30% Lab Reports: 20% Final Exam: 25%

Grading Policy / Scale	Letter grades, scale: A 90 – 100 B 80 – 89 C 70 – 79 D 60 – 69 F < 60
Important events / dates	09/04/2020 (Fr): Census date 09/24/2020 (Th): 1 <sup>st</sup> midterm date 10/29/2020 (Th): 2 <sup>nd</sup> midterm date 11/02/2020 (Mo): Last day to withdraw from one or more classes TBD: Final exam (tentative upon UT Tyler's final exam announcement)
Attendance / Makeup policy	<ol style="list-style-type: none"> <li>Attendance of lectures and labs will be regularly checked using Canvas quiz function.</li> <li>No make-up exam(s).</li> <li>No email submission of assignment(s). All assignments MUST be submitted to Canvas for grading.</li> <li>Student with SAR status should contact the UT Tyler Office of Student Accessibility and Resources for exam arrangements.</li> </ol> <p><b>Additional policies amid COVID-19</b></p> <p><u>Lectures:</u></p> <ol style="list-style-type: none"> <li>Attendance of Materials Science and Manufacturing lectures, either by face-to-face or synchronous live Zoom, will be checked randomly throughout the semester using Canvas quizzes.</li> <li>Face-to-face: Students are recommended to attend one lecture per week based on their corresponding Tu or Th lab section. Students should attend the lecture and lab section on the same day.</li> <li>Synchronous Zoom: Students who are NOT attending the face-to-face lectures are required to enter the live Zoom for synchronous class learning.</li> </ol> <p><u>Laboratories:</u></p> <ol style="list-style-type: none"> <li>Lab attendance is highly recommended either by face-to-face or live zoom, and each lab will have an attendance quiz on Canvas.</li> <li>Face-to-face: Students will be entering the laboratory (RBN 1024) in ONE group (five students) setting with instructor/TA during the assigned lab hours.</li> <li>Synchronous Zoom: Lab activities will be lived on zoom for student participation.</li> </ol>
Course Learning Objectives / ABET & PEOs relation	<ol style="list-style-type: none"> <li>Explain atomic structure, crystal structures, and types of defects in metals.</li> <li>Describe common processing techniques through strain hardening, diffusion, and solution hardening of metal alloys.</li> <li>Describe common structures, properties, processing methods, and applications of polymer and ceramics.</li> <li>Perform mechanical testing and metallographic procedures to report material properties and microstructures of various metal alloys in laboratory reports.</li> </ol>

Tentative Topics	Atomic Structure and Bonding; Structure of Crystalline Solids; Imperfection in Solids; Mechanical Properties of Materials; Diffusion; Dislocation and Strengthening; Phase Diagrams; Processing of Metal Alloys; Polymers and Ceramics; Processing of Polymers and Ceramics																																																																																																																																										
Other	<p>Tentative Course Schedule:</p> <p><b>Course Plan:</b> Two one-hour lectures on both Monday and Wednesday.</p> <table> <tr> <th>Week (Date)</th><th>Topic</th><th></th><th>HW</th></tr> <tr> <td>1 (8/25, 8/27)</td><td>(Tu) Syllabus</td><td>(Th) Ch1: Introduction</td><td></td></tr> <tr> <td>2 (9/1, 9/3)</td><td>(Tu) Ch2: Atomic Structure</td><td>(Th) Ch2: Interatomic Bonding</td><td>HW#1</td></tr> <tr> <td>3 (9/8, 9/10)</td><td>(Tu) Ch3: Unit Cells</td><td>(Th) Ch3: Crystal Systems</td><td>HW#2</td></tr> <tr> <td>4 (9/15, 9/17)</td><td>(Tu) Ch3: X-ray Diffraction</td><td>(Th) Ch4: Imperfections</td><td>HW#3</td></tr> <tr> <td>5 (9/22, 9/24)</td><td>(Tu) Problem &amp; Review</td><td colspan="2"><b>(Th) 1<sup>st</sup> Midterm (Wk.1 – Wk.4)</b></td></tr> <tr> <td>6 (9/29, 10/1)</td><td>(Tu) Ch6: Mechanical Properties</td><td>(Th) Ch8: Failure</td><td>HW#4</td></tr> <tr> <td>7 (10/6, 10/8)</td><td>(Tu) Ch5: Diffusion</td><td>(Th) Problem &amp; Review</td><td>HW#5</td></tr> <tr> <td>8 (10/13, 10/15)</td><td>(Tu) Ch7: Dislocation</td><td>(Th) Ch7: Strengthening</td><td></td></tr> <tr> <td>9 (10/20, 10/22)</td><td>(Tu) Ch9: Phase Diagram</td><td>(Th) Ch9: Phase Transformation</td><td>HW#6</td></tr> <tr> <td>10 (10/27, 10/29)</td><td>(Tu) Problem &amp; Review</td><td colspan="2"><b>(Th) 2<sup>nd</sup> Midterm (Wk.6 – Wk.11)</b></td></tr> <tr> <td>11 (11/3, 11/5)</td><td>(Tu) Ch11: Forming/Casting</td><td>(Th) Ch11: Heat Treatment</td><td></td></tr> <tr> <td>12 (11/10, 11/12)</td><td>(Tu) Ch12: Ceramics</td><td>(Th) Ch13: Ceramic Processing</td><td></td></tr> <tr> <td>13 (11/17, 11/19)</td><td>(Tu) Ch14: Polymers</td><td>(Th) Ch15: Polymer Processing</td><td>HW#7</td></tr> <tr> <td>14 (11/24, 11/26)</td><td colspan="3"><b>Thanksgiving Break – No Class</b></td></tr> <tr> <td>15 (12/1, 12/3)</td><td>(Tu) Problem &amp; Review</td><td>(Th) Mock Final Exam</td><td></td></tr> <tr> <td>16 (12/8, 12/10)</td><td colspan="3"><b>(TBD) Final Exam (8AM – 10 AM, covers wk.1 to wk.15)</b></td></tr> </table> <p>(Dr. Chou reserves the right to change schedule in course plan.)</p> <p><b>Lab Plan:</b> One three-hour lab on either Wednesday or Friday.</p> <table> <tr> <th>Week (Date)</th><th>Topic</th><th>Room</th><th>Reports</th></tr> <tr> <td>1 (8/25, 8/27)</td><td>Lab1: Introduction and Lab Safety</td><td>RBN 3038</td><td></td></tr> <tr> <td>2 (9/1, 9/3)</td><td>Lab2: Report Writing</td><td>RBN 3038</td><td>Short Report</td></tr> <tr> <td>3 (9/8, 9/10)</td><td>Lab3: Atomic Structures</td><td>RBN 3038</td><td>Short Report</td></tr> <tr> <td>4 (9/15, 9/17)</td><td>Lab4: Metrology, Microscopy, and Grain Size</td><td>RBN 1024</td><td>Short Report</td></tr> <tr> <td>5 (9/22, 9/24)</td><td colspan="3"><b>Midterm, No Lab</b></td></tr> <tr> <td>6 (9/29, 10/1)</td><td>Lab5-1: Tensile Test</td><td>RBN 1024</td><td></td></tr> <tr> <td>7 (10/6, 10/8)</td><td>Lab5-2: Metallography</td><td>RBN 1024</td><td>Full Report</td></tr> <tr> <td>8 (10/13, 10/15)</td><td>Lab6-1: Strain Hardening (Rolling) Hardness Test</td><td>RBN 1024</td><td></td></tr> <tr> <td>9 (10/20, 10/22)</td><td>Lab6-2: Metallography</td><td></td><td></td></tr> <tr> <td>10 (10/27, 10/29)</td><td><b>Midterm, No Lab</b></td><td>RBN 1024</td><td>Full Report</td></tr> <tr> <td>11 (11/3, 11/5)</td><td>Lab7-1: Heat Treatment of Aluminum Alloys</td><td></td><td></td></tr> <tr> <td>12 (11/10, 11/12)</td><td>Lab7-2: Metallography</td><td>RBN 1024</td><td>Full Report</td></tr> <tr> <td>13 (11/17, 11/19)</td><td>Lab8: Charpy Impact Test</td><td>RBN 1024</td><td>Full Report</td></tr> <tr> <td>14 (11/24, 11/26)</td><td><b>Thanksgiving Break, No Lab</b></td><td>RBN 1024</td><td></td></tr> <tr> <td>15 (12/1, 12/3)</td><td>Lab9: Manufacturing</td><td>RBN 1024</td><td></td></tr> <tr> <td>16 (12/8, 12/10)</td><td><b>Final Exam, No Lab</b></td><td></td><td></td></tr> </table> <p>(Labs in RBN 1024 will be ONE group setting during the assigned hours.)          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**Important Covid-19 Information for Classrooms and Laboratories**

Students are required to wear face masks covering their nose and mouth, and follow social distancing guidelines, at all times in public settings (including classrooms and laboratories), as specified by [Procedures for Fall 2020 Return to Normal Operations](#). The UT Tyler community of Patriots views adoption of these practices consistent with its [Honor Code](#) and a sign of good citizenship and respectful care of fellow classmates, faculty, and staff.

Students who are feeling ill or experiencing symptoms such as sneezing, coughing, or a higher than normal temperature will be excused from class and should stay at home and may join the class remotely. Students who have difficulty adhering to the Covid-19 safety policies for health reasons are also encouraged to join the class remotely. Students needing additional accommodations may contact the Office of Student Accessibility and Resources at University Center 3150, or call (903) 566-7079 or email [saroffice@uttyler.edu](mailto:saroffice@uttyler.edu).

**Recording of Class Sessions**

Class sessions may be recorded by the instructor for use by students enrolled in this course. Recordings that contain personally identifiable information or other information subject to FERPA shall not be shared with individuals not enrolled in this course unless appropriate consent is obtained from all relevant students. Class recordings are reserved only for the use of students enrolled in the course and only for educational purposes. Course recordings should not be shared outside of the course in any form without express permission.

## **University Policies:**

### **UT Tyler Honor Code**

Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.

### **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://www.uttyler.edu/wellness/rightsresponsibilities.php>

### **Campus Carry**

We respect the right and privacy of students 21 and over who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at <http://www.uttyler.edu/about/campus-carry/index.php>

### **UT Tyler a Tobacco-Free University**

All forms of tobacco will not be permitted on the UT Tyler main campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors.

Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products.

There are several cessation programs available to students looking to quit smoking, including counseling, quitlines, and group support.

For more information on cessation programs please visit [www.uttyler.edu/tobacco-free](http://www.uttyler.edu/tobacco-free).

### **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 of which students need to be aware. 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/Accessibility Services**

In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University of Texas at Tyler offers accommodations to students with learning, physical and/or psychological disabilities. If you have a disability, including a non-visible diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or you have a history of modifications or accommodations in a previous educational environment, you are encouraged to visit <https://hood.accessiblelearning.com/UTTyler> and fill out the New Student application. The Student Accessibility and Resources (SAR) office will contact you when your application has been submitted and an appointment with Cynthia Lowery, Assistant Director of Student Services/ADA Coordinator. For more information, including filling out an application for services, please visit the SAR webpage at <http://www.uttyler.edu/disabilityservices>, the SAR office located in the University Center, # 3150 or call 903.566.7079.

### **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.

### **Student Standards of Academic Conduct**

Disciplinary proceedings may be initiated against any student who engages in scholastic dishonesty, including, but not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.

i. "Cheating" includes, but is not limited to:

- copying from another student's test paper;
- using, during a test, materials not authorized by the person giving the test;
- failure to comply with instructions given by the person administering the test;
- possession during a test of materials which are not authorized by the person giving the test, such as class notes or specifically designed "crib notes". The presence of textbooks constitutes a violation if they have been specifically prohibited by the person administering the test;
- using, buying, stealing, transporting, or soliciting in whole or part the contents of an unadministered test, test key, homework solution, or computer program;
- collaborating with or seeking aid from another student during a test or other assignment without authority;
- discussing the contents of an examination with another student who will take the examination;
- divulging the contents of an examination, for the purpose of preserving questions for use by another, when the instructors has designated that the examination is not to be removed from the examination room or not to be returned or to be kept by the student;
- substituting for another person, or permitting another person to substitute for oneself to take a course, a test, or any course-related assignment;
- paying or offering money or other valuable thing to, or coercing another person to obtain an unadministered test, test key, homework solution, or computer program or information about an unadministered test, test key, home solution or computer program;
- falsifying research data, laboratory reports, and/or other academic work offered for credit;



- taking, keeping, misplacing, or damaging the property of The University of Texas at Tyler, or of another, if the student knows or reasonably should know that an unfair academic advantage would be gained by such conduct; and
  - misrepresenting facts, including providing false grades or resumes, for the purpose of obtaining an academic or financial benefit or injuring another student academically or financially.
- ii. “Plagiarism” includes, but is not limited to, the appropriation, buying, receiving as a gift, or obtaining by any means another’s work and the submission of it as one’s own academic work offered for credit.
- iii. “Collusion” includes, but is not limited to, the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any section of the rules on scholastic dishonesty.
- iv. All written work that is submitted will be subject to review by plagiarism software.

#### **UT Tyler Resources for Students**

- UT Tyler Writing Center (903.565.5995), [writingcenter@uttyler.edu](mailto:writingcenter@uttyler.edu)
- UT Tyler Tutoring Center (903.565.5964), [tutoring@uttyler.edu](mailto:tutoring@uttyler.edu)
- The Mathematics Learning Center, RBN 4021, this is the open access computer lab for math students, with tutors on duty to assist students who are enrolled in early-career courses.
- UT Tyler Counseling Center (903.566.7254)