Instructor:
Hitomi Greenslet
Email: hitomiy@ufl.edu
Office Phone Number: 352-392-0812
Office Hours: MWF, 1:55 pm–2:45 pm, online

Teaching Assistant/Peer Mentor/Supervised Teaching Student:
Please contact through the Canvas website
• Julian Long, julian1996@ufl.edu, online, T: 12:30 pm–2:30 pm

Course Description

Course Pre-Requisites / Co-Requisites
Graduate standing

Course Objectives
The course introduces fundamental manufacturing technologies, explains how products are made, and describes how manufacturing problems are solved. Topics include engineering materials, manufacturing processes, machine tools, and automation.

Upon completion of this course, students will be able to demonstrate the following:
• an understanding of traditional and advanced manufacturing processes
• the ability to use engineering tools such as advanced mathematics and the theories of stress and strain and vibrations to analyze manufacturing processes and machines
• the ability to rapidly and accurately perform manufacturing engineering evaluations and analyses

Materials and Supply Fees
Please check One.UF.

Required Textbooks and Software
• Manufacturing Processes and Equipment
  George Tlusty
  Prentice-Hall, 2000
  ISBN 0-201-49865-0

Recommended Materials
  Serope Kalpakjian and Steven Schmid
  Pearson Education, Inc., 2017
  ISBN number 978-0-13-429055-3
  Mikell P. Groover
  John Wiley & Sons, Inc., 2015
Course Schedule

Week 1: Introduction, Engineering Materials and Their Properties
Week 2: Engineering Materials and Their Properties
Week 3: Engineering Materials and Their Properties, Primary Metalworking
Week 4: Primary Metalworking, Metal Forming
Week 5: Course review, Exam 1
Week 6: Metal-forming Mechanics
Week 7: Metal-forming Mechanics
Week 8: Metal-forming Mechanics
Week 9: Processing of Polymers, Cutting Technology
Week 10: Course review, Exam 2
Week 11: Cutting Technology
Week 12: Cutting Mechanics
Week 13: Cutting Mechanics
Week 14: Cutting Mechanics
Week 15: Cutting Mechanics, Design of Machine Tools
Week 16: Nontraditional Machining, Course review

Note: See the attached course schedule for more detail. (Dates are subject to change—this is to serve as a guideline only.)

Exam schedule

[On-campus students]
Exam 1: September 23, 2022 (12:50 pm – 1:40 pm)
Exam 2: October 28, 2022 (12:50 pm – 1:40 pm)
Final exam: December 15, 2022 (12:30 pm – 2:30 pm)

[Off-campus students]
Exam 1: September 23, 2022 (12:50 pm) – September 24, 2022 (11:59 pm)
Exam 2: October 28, 2022 (12:50 pm) – October 29, 2022 (11:59 pm)
Final exam: December 15, 2022 (12:30 pm) – December 16, 2022 (11:59 pm)

Attendance Policy, Class Expectations, and Make-Up Policy

Attendance policies

- Attendance is expected and encouraged for all students, but it will not be recorded.
- Excused absences must be consistent with university policies in the Graduate Catalog (https://catalog.ufl.edu/graduate/regulations) and require appropriate documentation. Additional information can be found here: https://gradcatalog.ufl.edu/graduate/regulations/

Class policies

- If you need to miss a class, please make appropriate arrangements with a classmate for class notes.
- Cheating or any other form of academic dishonesty will result in failure and prosecution according to University policies.
- Students are expected to conduct themselves in a manner that does not interfere with other students’ learning. Disruptive or distracting behavior is prohibited, and Prof. Greenslet reserves the right to temporarily or permanently dismiss distracting students from the classroom.
- Students are responsible for all announcements, assignments, etc., made during lectures, including changes in the scheduling of lecture topics, homework assignments, and exams. Class absence is not a valid excuse for being unprepared.
- Any changes in the schedule or assignments will be communicated to the class via e-mail using your Gatorlink (@ufl.edu) e-mail address and the course website. You are responsible for monitoring your mailbox and the website regularly for any class notices.
Homework policies

- Homework must be turned in through UF e-learning system by the start of class on the due date. Do NOT slip it under Prof. Greenslet’s door. In general, late homework will not be accepted.
- Homework must be neat and legible and show all major steps.
- Homework must be on 8.5” x 11” paper. Homework must have the assignment number, your name, and the date of submission in the upper right-hand corner of the first sheet.
- Homework must have the page number in the bottom right corner of every page.
- Multiple sheets must be placed in the proper order.
- Failure to adhere to the formatting requirements could result in loss of points.
- You may discuss the homework with your classmates; however, all students must provide the solutions themselves. Copying of homework will be treated as academic dishonesty. Use of a solution manual or any online answer source is also considered dishonest.

Exam policies

- It is the students’ responsibility to demonstrate their knowledge on exams. In order to be able to grade your work, it must be neat, be legible, and follow logical steps with all work shown. Partial credit may be given for work that can be followed and where the nature and magnitude of the mistake can be identified. No credit will be given for correct answers with insufficient indication of how they were obtained.
- Students should be aware that their work is submitted under the honor code pledge taken by UF students. The pledge is On my honor, I have neither given nor received unauthorized aid in doing this assignment. Students can learn more about the UF honor code at the UF Student Government website. (https://sccr.dso.ufl.edu/)

[On-campus students]
Exams 1 and 2 will be held during the regular class period on date that will be announced later. The final exam will be held at the time assigned by the Registrar.

[Off-campus students]
All exams will be held online. The details will be announced prior to the exam dates.

Evaluation of Grades

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Total Points</th>
<th>Percentage of Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework Sets (6)</td>
<td>5 each</td>
<td>15%</td>
</tr>
<tr>
<td>Exam 1</td>
<td>100</td>
<td>25%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>100</td>
<td>25%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>100</td>
<td>35%</td>
</tr>
</tbody>
</table>

Grading Policy

The following is given as an example only.

<table>
<thead>
<tr>
<th>Percent</th>
<th>Grade</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>90.0 - 100</td>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>87.0 - 89.9</td>
<td>A-</td>
<td>3.67</td>
</tr>
<tr>
<td>84.0 - 86.9</td>
<td>B+</td>
<td>3.33</td>
</tr>
<tr>
<td>81.0 - 83.9</td>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>78.0 - 80.9</td>
<td>B-</td>
<td>2.67</td>
</tr>
<tr>
<td>75.0 - 77.9</td>
<td>C+</td>
<td>2.33</td>
</tr>
<tr>
<td>72.0 - 74.9</td>
<td>C</td>
<td>2.00</td>
</tr>
<tr>
<td>69.0 - 71.9</td>
<td>C-</td>
<td>1.67</td>
</tr>
<tr>
<td>66.0 - 68.9</td>
<td>D+</td>
<td>1.33</td>
</tr>
<tr>
<td>63.0 - 65.9</td>
<td>D</td>
<td>1.00</td>
</tr>
</tbody>
</table>
More information on UF grading policy may be found at:

UF Graduate Catalog
Grades and Grading Policies

Students Requiring Accommodations
Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center by visiting https://disability.ufl.edu/students/get-started/. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

Course Evaluation
Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via https://ufl.bluera.com/ufl/. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/.

In-Class Recording
Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A “class lecture” is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session.

Publication without permission of the instructor is prohibited. To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

University Honesty Policy
UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code (https://sccr.dso.ufl.edu/process/student-conduct-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates
academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

**Commitment to a Safe and Inclusive Learning Environment**

The Herbert Wertheim College of Engineering values broad diversity within our community and is committed to individual and group empowerment, inclusion, and the elimination of discrimination. It is expected that every person in this class will treat one another with dignity and respect regardless of gender, sexuality, disability, age, socioeconomic status, ethnicity, race, and culture.

If you feel like your performance in class is being impacted by discrimination or harassment of any kind, please contact your instructor or any of the following:

- Your academic advisor or Graduate Program Coordinator
- Jennifer Nappo, Director of Human Resources, 352-392-0904, jennnacc@ufl.edu
- Curtis Taylor, Associate Dean of Student Affairs, 352-392-2177, taylor@eng.ufl.edu
- Toshikazu Nishida, Associate Dean of Academic Affairs, 352-392-0943, nishida@eng.ufl.edu

**Software Use**

All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

**Student Privacy**

There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see: [https://registrar.ufl.edu/ferpa.html](https://registrar.ufl.edu/ferpa.html)

**Campus Resources:**

- **Health and Wellness**

  **U Matter, We Care:**
  Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

  **Counseling and Wellness Center:** [https://counseling.ufl.edu](https://counseling.ufl.edu), and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

- **Sexual Discrimination, Harassment, Assault, or Violence**

  If you or a friend has been subjected to sexual discrimination, sexual harassment, sexual assault, or violence contact the Office of Title IX Compliance, located at Yon Hall Room 427, 1908 Stadium Road, (352) 273-1094, title-ix@ufl.edu

- **Sexual Assault Recovery Services (SARS)**

  Student Health Care Center, 392-1161.

- **University Police Department** at 392-1111 (or 9-1-1 for emergencies), or [http://www.police.ufl.edu/](http://www.police.ufl.edu/).
### Academic Resources

**E-learning technical support**, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu. [https://lss.at.ufl.edu/help.shtml](https://lss.at.ufl.edu/help.shtml).

**Career Connections Center**, Reitz Union, 392-1601. Career assistance and counseling: [https://career.ufl.edu](https://career.ufl.edu).

**Library Support**, [http://cms.uflib.ufl.edu/ask](http://cms.uflib.ufl.edu/ask). Various ways to receive assistance with respect to using the libraries or finding resources.

**Teaching Center**, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. [https://teachingcenter.ufl.edu/](https://teachingcenter.ufl.edu/).


**On-Line Students Complaints**: [https://distance.ufl.edu/state-authorization-status/#student-complaint](https://distance.ufl.edu/state-authorization-status/#student-complaint).