



## EML 4502 | Mechanical Engineering Design 3

### Instructor Information

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Jack Famiglietti, Ph.D.

Matthew Traum, Ph.D.

### Course Details

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**Catalog Description:** Design and realization of a mechanical engineering system, component, or process subject to appropriate standards and constraints. Team project.

**Pre- and Co-Requisites:** Prereq: EML 4501 or EAS 4700 or EAS 4710; Coreq: EML 4321.

**Credit Hours:** 3

**Course Fees:** \$385.00

### Required Materials

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**DC ELECTRICAL CIRCUIT ANALYSIS, A PRACTICAL APPROACH (OER)**

[[HTTPS://WWW2.MVCC.EDU/USERS/FACULTY/JFIORE/BOOKS/DCELECTRICALCIRCUITANALYSIS.PDF](https://www2.mvcc.edu/users/faculty/jfiore/books/dcelectricalcircuitanalysis.pdf)]

**ISBN:** 9781654515478

**Authors:** J. M. FIORE

**Publisher:** MOHAWK VALLEY COMMUNITY COL.

**Edition:** VERSION 1.0.8

**All Access:** This course does not use UF All Access

**TOPSPICE CIRCUIT SIMULATOR - DEMO (VERSION 10.40A OR LATER) [FREE DOWNLOAD:**

[HTTPS://PENZAR.COM/TOPSPICE/TOPSPICE.HTM](https://penzar.com/topspice/topspice.htm) ]

**Authors:** PENZAR DEVELOPMENT

**Publisher:** PENZAR DEVELOPMENT

**Edition:** 1

**All Access:** This course does not use UF All Access

**TECHNOLOGY READINESS ASSESSMENT GUIDE [HTTPS://WWW.GAO.GOV/PRODUCTS/GAO-20-48G]**

**Authors:** M. MACKIN & T. M. PERSONS

**Publisher:** US GOVERNMENT

**Edition:** 1

**All Access:** This course does not use UF All Access

**'LESS BORING LECTURES' YOUTUBE CHANNEL, A. RUBIANO [FREE TO ACCESS:  
[HTTPS://WWW.YOUTUBE.COM/C/LESSBORINGLECTURES](https://www.youtube.com/c/lessboringlectures) ]**

**Authors:** ANDRES RUBIANO

**Publisher:** YOUTUBE

**Edition:** 1

**All Access:** This course does not use UF All Access

**ARDUINO IDE 2.3.8 (OR LATER) CODING SOFTWARE [FREE TO DOWNLOAD:  
[HTTPS://WWW.ARDUINO.CC/EN/SOFTWARE/](https://www.arduino.cc/en/software/) ]**

**Authors:** ARDUINO

**Publisher:** ARDUINO

**Edition:** 1

**All Access:** This course does not use UF All Access

**BAMBU STUDIO 3D PRINTING SLICER SOFTWARE [FREE TO DOWNLOAD:  
[HTTPS://BAMBULAB.COM/EN-US/DOWNLOAD/STUDIO](https://bambulab.com/en-us/download/studio) ], VERSION 02.05.00.66 OR LATER**

**Authors:** BAMBU STUDIO

**All Access:** This course does not use UF All Access

**[HTTPS://WOKWI.COM/](https://wokwi.com/) , BROWSER-BASED INTERNET OF THINGS (IOT) SIMULATION PLATFORM  
[FREE TO USE ONLINE]**

**Authors:** WOKWI

**All Access:** This course does not use UF All Access

**ENGINEERING CAPSTONE DESIGN (OER) [[HTTPS://MERGE.MAE.UFL.EDU/OUTREACH/TEXTBOOK/](https://merge.mae.ufl.edu/outreach/textbook/)]**

**Authors:** M. J. TRAUM, S. R. NIEMI, J. IKLAAS, ET AL.

**Publisher:** U. OF FLORIDA PRESS

**Edition:** 1ST

**All Access:** This course does not use UF All Access

**AUTODESK FUSION [EDUCATIONAL ACCOUNT FREELY AVAILABLE AT:  
[HTTPS://WWW.AUTODESK.COM/SUPPORT/TECHNICAL/PRODUCT/FUSION](https://www.autodesk.com/support/technical/product/fusion) ]**

**Authors:** AUTODESK

**All Access:** This course does not use UF All Access

## Recommended Materials

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*image  
not  
available*

### **Shigley's Mechanical Engineering Design**

**ISBN:** 9789390219636

**Authors:** Richard G. Budynas, J. Keith Nisbett

**Publication Date:** 2021-01-01



### **Materials Selection in Mechanical Design**

**ISBN:** 9780081005996

**Authors:** Michael F. Ashby

**Publisher:** Butterworth-Heinemann

**Publication Date:** 2016-12-19

**Edition:** 5th

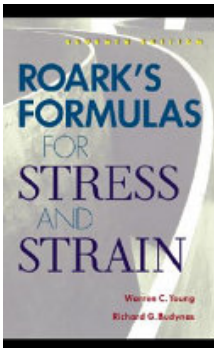


### **Machinery's Handbook**

**ISBN:** 9780831130916

**Authors:** Erik Oberg, Franklin D. Jones, Holbrook Lynedon Horton, Henry H. Ryffel

**Publication Date:** 2016-01-01



### **Roark's Formulas for Stress and Strain**

**Authors:** Raymond Jefferson Roark, Warren Clarence Young, Richard Gordon Budynas

**Publisher:** McGraw Hill Professional

**Publication Date:** 2002-01-01



**Programming Arduino: Getting Started with Sketches, Second Edition**

**ISBN:** 9781259641633

**Authors:** Simon Monk

**Publisher:** McGraw-Hill Education TAB

**Publication Date:** 2016-06-09



**Dimensioning for Interchangeable Manufacture**

**Authors:** Earlwood T. Fortini

**Publication Date:** 1967-01-01



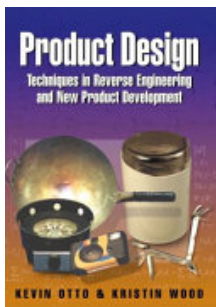
**Product design and development**

**ISBN:** 9781264928750

**Authors:** Karl T. Ulrich

**Publisher:** McGraw-Hill Higher Education

**Publication Date:** 2004-01-01



**Product Design**

**Authors:** Kevin N. Otto, Kristin L. Wood

**Publisher:** Pearson

**Publication Date:** 2001-01-01

**PRODUCT DESIGN AND DEVELOPMENT, 7TH ED.**

**ISBN:** 9781260566437

**Authors:** S. EPPINGER & K. ULRICH

**Publisher:** MCGRAW HILL

**Edition:** 7TH

**All Access:** This course does not use UF All Access

**PROGRAMMING ARDUINO: GETTING STARTED WITH SKETCHES, 2ND ED.**

**ISBN:** 1259641635

**Authors:** SIMON MONK

**Publisher:** MCGRAW HILL

**Edition:** 2ND

**All Access:** This course does not use UF All Access

**MATERIALS SELECTION IN MECHANICAL DESIGN, 5TH ED.**

**ISBN:** 0081005997

**Authors:** MICHAEL F. ASHBY

**Publisher:** BUTTERWORTH-HEINEMAN

**Edition:** 5TH

**All Access:** This course does not use UF All Access

**SHIGLEY'S MECHANICAL ENGINEERING DESIGN, 11TH ED.,**

**ISBN:** 9780073398204

**Authors:** K. J. NISBETT & R. G. BUDYNAS

**Publisher:** MCGRAW-HILL

**Edition:** 11TH

**All Access:** This course does not use UF All Access

**ROARK'S FORMULAS FOR STRESS AND STRAIN, 7TH EDITION**

**ISBN:** 007072542X

**Authors:** W. C. YOUNG, R. G. BUDYNAS

**Publisher:** MCGRAW-HILL

**Edition:** 7TH

**All Access:** This course does not use UF All Access

**DIMENSIONING FOR INTERCHANGEABLE MANUFACTURE**

**Authors:** EARLWOOD T. FORTINI

**Publisher:** INDUSTRIAL PRESS

**Edition:** 1ST

**All Access:** This course does not use UF All Access

**PRODUCT DESIGN: TECHNIQUES IN REVERSE ENGINEERING AND NEW  
PRODUCT DEVELOPMENT**

**ISBN:** 9780130212719

**Authors:** K. OTTO & K. WOOD

**Publisher:** PEARSON

**Edition:** 1ST

**All Access:** This course does not use UF All Access

**MACHINERY'S HANDBOOK**

**ISBN:** 9780831130916

**Authors:** ERIK OBERG

**Publisher:** INDUSTRIAL PRESS INC

**Edition:** 30TH+ EDITION

**All Access:** This course does not use UF All Access

## A Note on Materials

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Students do not need to buy anything for this class! All textbooks and software required for this course are available free online or downloadable from the UF MAE Student Software Repository once students are enrolled. All recommended texts are available from a special UF Libraries section MAE set up, and you can access & check out these books and resources as needed.

## Course Goals and Objectives

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1. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors [Final Design Deck & Final Design Report]
2. Communicate effectively with a range of audiences [Final Design Deck & Final Oral Presentation]
3. Function effectively on a creating, collaborative, and inclusive team that establishes goals, plans tasks, and meet objectives [Peer Evaluations]
4. Acquire and apply new knowledge as needed using appropriate learning strategies [Performance Evaluations]

## Expectations and Student Learning Outcomes

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Table of student learning outcomes and their level of coverage in the course.

Outcome	Coverage
An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics	Medium
An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors	High
An ability to communicate effectively with a range of audiences	High

Outcome	Coverage
An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts	Low
An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives	High
An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions	Medium
An ability to acquire and apply new knowledge as needed, using appropriate learning strategies	High

\*Coverage is given as high, medium, or low. An empty box indicates that this outcome is not covered or assessed in the course.

## Methods of Evaluation

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### Evaluation of Grades

This course is graded. Grades are earned based on the following individual and group deliverables\*, †. Further descriptions will be given when assignments and assessments are announced in class. Additional resources supporting these assignments will be posted on the course Learning Management System as needed.

Evaluation of grades by assignment

Assignment	Points	Percent
<b>Individual Assignments</b>		
Informed Consent Forms	2	0.3
Intellectual Property Agreements	2	0.3
Resume Assignments	6	0.8
Local Affinity Survey	1	0.1
Software Onboarding	5	0.7
Personal Goal Setting	10	1.3
Personal Reflection	10	1.3
<b>Labs &amp; Quizzes</b>		
3D-Printing Lab Report	5	1.3

<b>Assignment</b>	<b>Points</b>	<b>Percent</b>
3D-Printing Quiz	15	2.0
Electronics & Motors Lab Report	5	0.7
Electronics & Motors Quiz	15	2.0
DFM Quiz	15	2.0
<b>Group Reports</b>		
Team Compact	10	1.3
Design Review Memo (DRM)	25	3.3
Risk Assessment Report (RAR)	50	6.7
Final Documentation Report	75	10.0
<b>Final Group Deliverables</b>		
Artifact Performance Assessment 1	50	6.7
Artifact Performance Assessment 2	50	6.7
Artifact Performance Assessment 3	50	6.7
90-Second Elevator Pitch Video	25	3.3
Final Presentation	150	20.0
Final Presentation Slide Deck	1	0.1
Group Photos 1 & 2	2	0.3
Picture & Rendering of Final Project	2	0.3
Interactive 3D Model	2	0.3
Project Artifact Donation Form	5	0.7
Final CAD, Code, Artifact, & Cleanup	10	1.3
<b>Planning, Attendance, &amp; Peer Review</b>		
Team Goal Setting Sheets	36	4.8
Peer Evaluations	80	10.7
Time & Tool Logging Sheets	36	4.8
<b>Total</b>	<b>750</b>	<b>100</b>

See Policies on Clear Communication, “Ghosting”, Free Riders, etc.

\* Per Policy #2 Individuals who “ghost” as demonstrated by peer evaluation scores, etc. fail EML4502 regardless of points accumulated in the class.

† Per Policy #3, students accumulating two peer evaluations with an aggregate score of 3/5 or lower on any two of more peer evaluation metrics fail EML4502 regardless of points accumulated in the class.

Any changes in evaluation of grades will be posted on the CANVAS page & MS Teams site and announced in class.

## Grading Scale

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Letter grade and percentage

Letter	Percentage Value
A	93.4 - 100%
A -	90 - 93.3%
B +	86.7 - 89.9%
B	83.4 - 86.6%
B -	80 - 83.3%
C +	76.7 - 79.9%
C	73.4 - 76.6%
C -	70 - 73.3%
D +	66.7 - 69.9%
D	63.4 - 66.6%
D -	60 - 63.3%
E	59.9% and below

### Grade Definitions

A : Student demonstrated course mastery in all regards and with distinction.

A- : Student performed outstandingly in all regards and is exceptional.

B+ : Student performed with excellence in the course.

B : Student showed high command of course content.

B- : Student has done a commendable job with course content.

C+ : Student demonstrated ample grasp of course content.

C : Student demonstrated adequate grasp of course content.

C- : Student demonstrated fair grasp of course content.

D+ : Student met fair course expectations.

D : Student attained below average expectations.

D- : Student met minimal expectations to pass.

E : Student failed to meet minimal expectations to pass.

## Course Schedule

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Course schedule is approximate and subject to change. Changes to course schedule will be announced.

Approximate Course Schedule

Week #	In-Class Content	Assignments Due
<b>1</b>	<p>Course Introduction</p> <p>Intellectual Property Brief - Lenny Terry (UF Tech Transfer)</p> <p>Technology Readiness Level Brief</p> <p>Entrepreneur / Startup Journey Lecture</p> <p>Explain Team Goal Setting &amp; Sign in Sheet Assignments</p>	<ul style="list-style-type: none"> <li>• Team Goal Setting &amp; Time 1</li> <li>• IP &amp; NDA Agreements</li> <li>• Entry Resume + AI Score</li> <li>• Informed Consent Forms</li> <li>• Local Affinity Survey</li> <li>• Personal Goal Setting</li> <li>• Software Onboarding</li> </ul>
<b>2</b>	<p>Value Proposition</p> <p>3D-Printing Lecture/Lab</p> <p>Part Ordering Protocol</p> <p>Review of Design for Manufacturing (DFM)</p> <p>Electronics, PCBs, &amp; Motors Lecture/Lab</p> <p>Design Review 1</p>	<ul style="list-style-type: none"> <li>• Team Compact</li> <li>• Team Goal Setting &amp; Time 2</li> <li>• Peer Evaluation A</li> <li>• DFM Quiz</li> <li>• 3D-Printing Quiz</li> <li>• 3D-Printing Lab Report</li> </ul>
<b>3</b>	<p>Work on Project</p>	<ul style="list-style-type: none"> <li>• Team Goal Setting &amp; Time 3</li> <li>• Electronics, PCBs, &amp; Motors Quiz</li> <li>• Electronics, PCBs, &amp; Motors Lab Report</li> <li>• Peer Evaluation 1</li> </ul>
<b>4</b>	<p>Work on Project</p> <p>Design Review 2</p>	<ul style="list-style-type: none"> <li>• Team Goal Setting &amp; Time 4</li> <li>• Peer Evaluation B</li> </ul>
<b>5</b>	<p>Work on Project</p> <p>Design Review 3</p> <p>Deadline to submit parts to MFG Queue</p>	<ul style="list-style-type: none"> <li>• Team Goal Setting &amp; Time 5</li> </ul>

<b>Week #</b>	<b>In-Class Content</b>	<b>Assignments Due</b>
<b>6</b>	Work on Project Risk Assessment & Protocol Design	<ul style="list-style-type: none"> <li>• Team Goal Setting &amp; Time 6</li> <li>• Peer Evaluation 2</li> <li>• DRM</li> </ul>
<b>7</b>	Summer Break - No Class	
<b>8</b>	Work on Project	<ul style="list-style-type: none"> <li>• Team Goal Setting &amp; Time 7</li> <li>• RAR</li> </ul>
<b>9</b>	Work on Project - Begin Building and Testing	<ul style="list-style-type: none"> <li>• Team Goal Setting &amp; Time 8</li> <li>• Peer Evaluation C</li> <li>• Artifact Performance Assessment 1</li> </ul>
<b>10</b>	Work on Project - Begin Building and Testing	<ul style="list-style-type: none"> <li>• Team Goal Setting &amp; Time 9</li> <li>• Artifact Performance Assessment 2</li> </ul>
<b>11</b>	Work on Project - Begin Building and Testing	<ul style="list-style-type: none"> <li>• Team Goal Setting &amp; Time 10</li> <li>• Peer Evaluation 3</li> <li>• Artifact Performance Assessment 3</li> </ul>
<b>12</b>	Run TRL Validation Tests & Compile Results	<ul style="list-style-type: none"> <li>• Team Goal Setting &amp; Time 11</li> <li>• Peer Evaluation D</li> <li>• Exit Resume + AI Score</li> <li>• 90-Second Elevator Pitch Video</li> <li>• Group Photo 1</li> </ul>

Week #	In-Class Content	Assignments Due
<b>13</b>	Run TRL Validation Tests & Compile Results Final Presentations Lab Cleanup	<ul style="list-style-type: none"> <li>• Team Goal Setting &amp; Time 12</li> <li>• Peer Evaluation 4</li> <li>• Personal Reflection</li> <li>• Final Product Picture</li> <li>• Final Product Rendering</li> <li>• Product Interactive 3D Model</li> <li>• Final Presentation</li> <li>• Final Slide Deck</li> <li>• Group Photo 2</li> <li>• Final Documentation Report</li> <li>• Artifact Donation Form</li> <li>• Code, CAD, Artifact, Lab Cleanup</li> </ul>

## University Policies and Resources

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Information about grading policies, support for students with disabilities, course evaluations, the Honor Code, and other course policies and campus resources can be found on the [Syllabus Policies page](#).

## Attendance Policy

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### Excused and Unexcused Absences

Students may only participate in classes if they are registered officially or approved to audit with evidence of having paid audit fees. The Office of the University Registrar provides official class rolls to instructors.

Students are responsible for satisfying all academic objectives as defined by the instructor. Absences count from the first-class meeting.

Acceptable reasons for absence from or failure to engage in class include illness; Title IX-related situations; serious accidents or emergencies affecting the student, their roommates, or their family; special curricular requirements (e.g., judging trips, field trips, professional conferences); military obligation; severe weather conditions that prevent class participation; religious holidays; participation in official university activities (e.g., music performances, athletic competition, debate); and court-imposed legal obligations (e.g., jury duty or subpoena). Other reasons (e.g., a job interview or club activity) may be deemed acceptable if approved by the instructor.

For all planned absences, a student in a situation that allows an excused absence from a class, or any required class activity must inform the instructor as early as possible prior to the class. For all unplanned absences because of accidents or emergency situations, students should contact their instructor as soon as conditions permit.

Students shall be permitted a reasonable amount of time to make up the material or activities covered during absence from class or inability to engage in class activities because of the reasons outlined above.

If a student does not participate in at least one of the first two class meetings of a course or laboratory in which they are registered, and they have not contacted the department to indicate their intent, the student can be dropped from the course. Students must not assume that they will be dropped, however. The department will notify students if they have been dropped from a course or laboratory.

The university recognizes the right of the instructor to make attendance mandatory and require documentation for absences (except for religious holidays), missed work, or inability to fully engage in class. After due warning, an instructor can prohibit further attendance and subsequently assign a failing grade for excessive absences.

## **Religious Holidays Guidelines**

At the University of Florida, students and faculty work together to allow students the opportunity to observe the holy days of their faith. A student should inform the faculty member of the religious observances of their faith that will conflict with class attendance, with tests or examinations, or with other class activities prior to the class or occurrence of that test or activity. The faculty member is then obligated to accommodate that particular student's religious observances. Because students represent a myriad of cultures and many faiths, the University of Florida is not able to assure that scheduled academic activities do not conflict with the holy days of all religious groups. Accordingly, individual students should make their need for an excused absence known in advance of the scheduled activities.

The Florida Board of Education and state law govern university policy regarding observance of religious holidays.

### **Guidelines**

- Students, upon prior notification to their instructors, shall be excused from class or other scheduled academic activity to observe a religious holy day of their faith.
- Students shall be permitted a reasonable amount of time to make up the material or activities covered in their absence.
- Students shall not be penalized due to absence from class or other scheduled academic activity because of religious observances.

If a faculty member is informed of or is aware that a significant number of students are likely to be absent from class because of a religious observance, the faculty member should not schedule a major exam or other academic event at that time.

A student who is to be excused from class for a religious observance is not required to provide a second party certification of the reason for the absence. Furthermore, a student who believes that they have been

unreasonably denied an education benefit due to religious beliefs or practices may seek redress through the student grievance procedure.

### **Absence due to Illness**

A student who is absent from class or any required class-related activity because of illness should contact their instructor, if feasible, as early as possible prior to the missed class or activity.

Students shall be permitted a reasonable amount of time to make up the material or activities covered during an excused absence.

Students should contact their college by the deadline to drop a course for medical reasons. Students can petition the Dean of Students Office to drop a course for medical reasons. The university's policy regarding medical excuse from classes is maintained by the Student Health Care Center.

### **Twelve-Day Rule**

Students who participate in university-sponsored athletic or scholarly activities are permitted to be absent 12 scholastic days per semester without penalty. A scholastic day is any day on which regular class work is scheduled as defined in the approved university calendar. [More Info](#)

The student or student's advisor must notify the instructor as early as possible prior to the anticipated absence to allow ample time for accommodations. Instructors must be flexible and not penalize students when re-scheduling during-term and final exams, class assignments, and other required activities and must follow the UF Attendance Policy herein and UF Examination Policies. As noted in the UF Examination Policies, during-term exams should be re-scheduled no later than before the end of the semester, while final exams no later than 90 days after the originally scheduled exam time. However, instructors are encouraged to re-schedule final and during-term exams, assignments, and other activities as soon as possible after the last day of the absence and must not penalize the student in any way. [More Info](#)

A group's schedule that requires absence of more than 12 scholastic days should be adjusted so that no student is absent from campus more than 12 scholastic days. Students who previously have been warned in writing by their instructor about the impact of absences on their individual class performance should not incur additional absences, even if they have not been absent 12 scholastic days. The student is responsible to maintain satisfactory academic performance and attendance.

## **Course Policies and Resources**

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### **Policies on Clear Communication, "Ghosting", Free Riders, Sources of Truth, Essay Writing AI's, TurnItIn, Lab Use Priority, & Assignment Grade Disputes:**

1. Once students are assigned into groups, all Emails and communications to the EML4502 Teaching Team related to group business must clearly identify the group's number/name. Each time any member of a group fails to identify the group by number/name in a communication to the Teaching Team, the group loses 1 point.
2. Individuals who fail to support their group or "ghost" the course as demonstrated by peer evaluation scores, group feedback/emails, and/or low participation tracked in Canvas/Teams/F360, will earn a

failing grade in EML4502 regardless of points accumulated in the class.

3. On each peer evaluation (both online and in-person), all twelve metrics will be scored on a 1-5 Likert scale. Any student who accumulates two peer evaluations with an aggregate score of 3/5 or lower on any two peer evaluation metrics will be considered a Free Rider and will receive a failing grade in EML4502 regardless of points accumulated in the class.
4. Online platforms, notably GroupMe, provide venues for course discussion that exclude the instructor and EML4502 Teaching Team. Discussion platforms beyond UF-sanctioned Learning Management Systems will not be monitored or curated by the instructor. Thus, information propagated through these platforms can be incorrect. It is each student's responsibility to verify information obtained from these external discussion services with reputable reference sources or UF-affiliated subject matter experts. Erroneous information obtained from external discussion platforms used in EML4502 will be marked incorrect on graded assignments and assessments.
5. All team communication must occur through a UF-sanctioned MS Teams channel established for the group in the course. These channels will be monitored. If the Teaching Team deems that team communication is not occurring through MS Teams, a single written warning will be given. After the warning, teams still not communicating through MS Teams will fail the course.
6. The EML4502 MS Teams General Channel is shared by the whole class and the teaching Team for information propagation. Individuals or teams who post comments or files not relevant to EML4502 in the General Channel will be penalized one letter grade for each infraction.
7. Students taking this course consent to allowing all assignments to be submitted by the instructor on their behalf for textual similarity review to Turnitin.com via the Canvas learning management system for the detection of plagiarism and unattributed AI use. All submitted materials will be added as source documents in the Turnitin.com reference database solely for the purpose of detecting plagiarism of such papers. Use of the Turnitin.com service is subject to the Usage Policy posted on the Turnitin.com site.
8. Use of Generative AI (e.g., ChatGPT or similar) is accepted and encouraged in EML4502 provided it is clearly identified. AI generated content that is not clearly identified is defined as cheating by the UF Honor Code, section (a)2, [https://regulations.ufl.edu/wp-content/uploads/2021/12/4-040\\_2021-12-06.pdf](https://regulations.ufl.edu/wp-content/uploads/2021/12/4-040_2021-12-06.pdf) :
  1. "(a) Cheating. A Student shall not use or attempt to use unauthorized materials or resources in any academic activity for academic advantage or benefit. Cheating includes but is not limited to:
    1. Using any materials or resources, through any medium, which the Faculty has not given express permission to use and that may confer an academic benefit to the Student."
    2. Material suspected of being AI-generated will be vetted through a detection algorithm. If this tool deems the material to be AI-generated, a 0 will be given on the suspected assignment.
9. EML4502 students receive priority access to and use of the MAE-C-010 design lab space from 9:30am to 6:00 pm Mondays through Fridays unless another class is running in the space. Outside these hours, other users including UF MAE Design Teams have priority use of the space.
10. If an individual or group has an assignment grading dispute, the issue must first be addressed with the Teaching Team member who did the grading. If individuals/groups can show where grading errors

occurred, Teaching Team members will correct grades accordingly. Only after communication with a Teaching Team member fails to resolve a grading dispute may the individual/group bring the dispute to an instructor.

## **Late and Make Up Work Policy**

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### **Attendance Policy, Class Expectations, and Make-Up Policy**

It is important to attend class regularly. If you miss a class, you are responsible for acquiring notes or other resources covered. The teaching team will endeavor to make all course materials available through the Learning Management System. However, some experiences cannot be replicated asynchronously. Students are held responsible for knowledge of all scheduling and policy announcements made in class. Excused absences must be consistent with university policies in the undergraduate catalog (<https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>) and require appropriate documentation and advance communication with the instructor.

## **Classroom Behavior**

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### **Laboratory Safety:**

EML4502 is a laboratory course. To ensure safety of all participants appropriate attire, personal protective equipment (PPE), and behavior are always required in the lab. Failure to follow lab safety rules will result in students' immediate removal from the lab and forfeiture of course points at the instructor's discretion.

- Lab Attire
  - No open-toed shoes are permitted in the lab.
  - No shorts are permitted in the lab.
- PPE
  - Sanitizing supplies are available in the lab to wipe down desks prior to sitting and at the end of class if needed.
  - Eye protection is required in the laboratory for proximity to hands-on activities.
  - Respiratory protection is required in the laboratory for proximity to activities producing harmful fumes.
  - Ear protection is required in the laboratory for proximity to activities 85 decibels or louder.
- Behavior
  - Disruptive or destructive behavior will not be tolerated.
  - No food or drink is allowed in the machine shop, 3D print farm, or metrology areas of the lab.
  - Food & drink are allowed at work desks, in conference rooms, at the coffee bar / kitchen area
- Emergencies

- Inform Teaching Team members immediately of injury or exposure.

## **Technology in the Classroom**

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### **Required Computer**

Students must have their own computer whose specifications meet or exceed the capabilities required by the College (<https://www.eng.ufl.edu/students/resources/computer-requirements/>) and MAE Department (<https://mae.ufl.edu/academics/prospective/undergraduate/computer-requirements/>).