

Learning and Teaching in Engineering

EGS 6056 Section 16011

Class Periods: 100% online

Location: Virtual

Academic Term: Summer A 2025

Instructor:

Dr. Amie Baisley, Instructional Assistant Professor

Office: NSC 321

Email: amie.baisley@eng.ufl.edu

Office Hours: Through email or by appointment

If you would like to meet then send me an email and I will gladly schedule a time to meet with you that works with your schedule

Course Description

Learn and apply evidence-based teaching and assessment techniques. Understand how to create content based on the student-centered learning approach to teaching. Be introduced to methods to foster an inclusive classroom environment to support diverse learners in your classroom. Develop a teaching philosophy based on the principles provided through this course.

Course Pre-Requisites / Co-Requisites

Enrolled in a graduate-level engineering program

Course Objectives

By the end of this course, students are expected to be able to:

- Understand current practices in pedagogy
- Create a teaching philosophy statement that describes the environment they will aspire to provide to support students
- Create measurable student learning objectives using Bloom's Taxonomy to address lower-order and higher-order thinking skills
- Apply best practices to create a functional class session plan.
- Plan and conduct class sessions to promote student engagement and learning

Materials and Supply Fees

None.

Required Textbooks and Software

- Title: Teaching and Learning STEM: A Practical Guide 1st Edition
- Author: Richard M. Felder and Rebecca Brent
- ISBN number: 1118925815

Course Schedule

Week 1:	Introduction to College Teaching, Creating an Inclusive Environment
Week 2:	Writing Learning Objectives, Planning Class Sessions, Teaching Effectively
Week 3:	Writing a Teaching Philosophy, Adopting Active Learning
Week 4:	Teaching with Technology, Evaluating Knowledge, Skills, and Values
Week 5:	Teaching Teamwork Skills, Enhancing Problem Solving Skills, Teaching Professional Skills
Week 6:	Revisiting Learner-Centered Teaching, Final Teaching Philosophy due

Attendance Policy, Class Expectations, and Make-Up Policy

Although this is an online course, students are expected to review all material posted on the course Canvas site (i.e., lectures, articles, videos, etc.), as scheduled, and to read their textbook in the order posted. Students are also expected to complete all quizzes, individual assignments, and discussion posts on time. Assignments are due by

11:59pm on the day assigned unless otherwise specified. Students unable to complete assignments due to documented, excused absences or extenuating circumstances must contact the course instructor no less than 48 hours before a planned absence (e.g., university event, religious holiday) and no more than 48 hours after an unplanned absence (e.g., illness). Make-up opportunities will be offered for absences for which documentation is provided. Requirements for make-up quizzes, assignments, and other work in this course are consistent with university policies that can be found in the online catalog. 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/>

There will be no make-up exams or excused late-work except in the case of incapacitating illness or other university-approved absence (please see the University's policy on absences). In such cases, you must provide documentation from an appropriate authority to the instructor as soon as possible.

Late work will be accepted up to two calendar days beyond the due date but will automatically lose two letter-grades per day. In the case of excused absences, students will be permitted a reasonable amount of time to make up the material or activity, provided appropriate documentation has been supplied to the instructor as soon as possible.

Evaluation of Grades

Your final grade has five components: module activities, discussions, quizzes, lecture and script assignments, and teaching philosophy and revision assignments. These components are weighted so that module work is worth 30%; discussions 20%; quizzes 10%; lecture and script assignments 20%; and the teaching philosophy and revision assignments worth 20% of your grade.

Assignment	Percentage of Final Grade
Module Assignments	30%
Discussions	20%
Quizzes	10%
Lecture and Script Assignments	20%
Teaching Philosophy and Revision Assignments	20%
Total	100%

Grading Policy

Percent	Grade	Grade Points
94.0 - 100	A	4.00
90.0 - 93.9	A-	3.67
87.0 - 89.9	B+	3.33
84.0 - 86.9	B	3.00
80.0 - 83.9	B-	2.67
77.0 - 79.9	C+	2.33
74.0 - 76.9	C	2.00
70.0 - 73.9	C-	1.67
67.0 - 69.9	D+	1.33
64.0 - 66.9	D	1.00
60.0 - 63.9	D-	0.67
0 - 59.9	E	0.00

More information on UF grading policy may be found at:

[UF Graduate Catalog](#)
[Grades and Grading Policies](#)

Syllabus Change Policy

This syllabus is a guide for the course and is subject to change at the instructor's discretion. Students should refer to Canvas for the latest updates to course assignments and readings.

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.bluer.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, jpennacc@ufl.edu
- Pam Dickrell, Associate Dean of Student Affairs, 352-392-2177, pld@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>

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>, 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/>.

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>.

Career Connections Center, Reitz Union, 392-1601. Career assistance and counseling; <https://career.ufl.edu>.

Library Support, <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/>.

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers.
<https://writing.ufl.edu/writing-studio/>.

Student Complaints Campus: <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>; <https://care.dso.ufl.edu>.

On-Line Students Complaints: <https://distance.ufl.edu/state-authorization-status/#student-complaint>.