

SYLLABUS

CIS/CEN 4914 - Senior Project / CISE Design 2

CIS/CEN4914 Credits: 3

Class Periods: Meetings are Irregular, to be announced via Canvas

Location: CSE/E404 (meetings and presentations) and CSE/E440 (presentations)

Academic Term: Fall 2019

Instructor – Dr. Mark Schmalz

- a. Office location: CSE/E446
- b. Telephone: 352-294-6668
- c. E-mail address: mssz@cise.ufl.edu
- d. Office hours: Posted on Instructor Website: <http://www.cise.ufl.edu/~mssz/>

Peer Mentors – TBA

Course Description – (3 credits) Involves completing a significant CEN-related project. Coordinate with the instructor and a project advisor, prepare a detailed technical report and deliver an oral presentation.

Course Pre-Requisites / Co-Requisites – CISE senior standing and approved project proposal. (For CIS4914, proposal is instantiated as a registration form. For CEN4914 the prerequisite is CEN 3913, which includes preparation and submission of the project proposal and registration form).

Course Objectives – In Senior Project and CISE Design 2, you will synthesize what you have learned in your other CISE courses by creating and finishing a semester-long project. This is an opportunity for you to put into practice the skills and techniques that you have learned during your undergraduate studies. CEN4914 students will have designed their project and begun development in CEN3913.

Students will conduct design and development of a significant software system or module. Students will have the responsibility of meeting deadlines and, sometimes, dealing with incomplete problem specifications. This kind of experience is one familiar to Computer Science and Computer Engineering majors who have worked in industry and government after having received their baccalaureate degrees. Thus, the class will bear directly upon practical experience and job skills.

Students will prepare deliverables for the course including:

- A significant software product, with possible hardware components
- A written technical report on your work
- Three oral presentations
- Meetings and e-mail documentation with your advisor to ensure that you are ``on track."

You must read your e-mail frequently to stay in touch with your *advisor* and *supervisor* when appropriate. The supervisor will periodically send out Canvas announcements to all seniors taking CIS 4914, concerning meeting announcements, presentation dates, etc. You are completely

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responsible for knowing these dates, and appearing at meetings and presentations *on time, fully prepared, and with the appropriate materials.*

Materials and Supply Fees – Students are responsible for defraying costs of their project, beyond availability of such software as may be provided by the CISE Department or University of Florida.

Required Textbooks and Software – No textbook required. Instructor will provide all course materials at no additional charge via Canvas or the Internet. For other materials, see *Materials and Supply Fees*, above.

Relation to Program Outcomes (ABET) –

Outcome	Coverage
a. An ability to apply knowledge of mathematics, science, and engineering	High
b. An ability to design and conduct experiments, as well as to analyze and interpret data	High
c. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability	High
d. An ability to function on multidisciplinary teams	High
e. An ability to identify, formulate, and solve engineering problems	High
f. An understanding of professional and ethical responsibility	High
g. An ability to communicate effectively	High
h. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context	High
i. A recognition of the need for, and an ability to engage in life-long learning	High
j. A knowledge of contemporary issues	High
k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	High

Course Schedule (work on your project, presentations, and report throughout the semester)

Week	Topic
1	Begin Working on Your Project Immediately
2	Meeting #1: Details of Course Organization, Objectives, Expectations, Evaluation of Grade (Meeting time and location to be announced via Canvas)
3-4	Meeting #2: Details of Time Management and Presentation Skills (Meeting time and location to be announced via Canvas)

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5-6	Presentation #1: Concept Review (5 minutes + setup and setdown time) (Presentation time, location, and format to be announced via Canvas)
9-11	Presentation #2: Design Review (5-8 minutes + setup and setdown time) (Presentation time, location, and format to be announced via Canvas)
14	Deliver Final Report to Project Advisor: Do this at least one week before Final Presentation (Report format to be announced via Canvas)
15	Advisor-Graded Final Report: Provide this (with ABET forms) at your Final Presentation (Forms and directions for filling them out to be provided via Canvas)
15	Presentation #3 (Final Presentation): Project Results (8-12 minutes + setup&setdown time) (Presentation time, location, and format to be announced via Canvas)

Attendance Policy, Class Expectations, and Make-Up Policy – Attendance for class meetings is expected. Failure in regular attendance may result in deductions to grade. Contact your instructor if you have an excused absence to work out a plan to make up the work. Excused absences must be consistent with university policies in the undergraduate catalog (<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>) and require appropriate documentation.

Evaluation of Grades

Grades are determined by the quality of work with the following items. In order to **pass** the class, students **must finish** their project, provide a Final Report to their advisor, provide the Advisor-Graded Final Report at the time of their Final Presentation, and present their project work in three presentations. Therefore the last two items on the below list will be emphasized.

- Presentation #1 (Concept Review) (ungraded, mandatory presentation)
- Presentation #2 (Design Review) (5% of Final Grade)
- Presentation #3 (Final Presentation of Results) (18% of Final Grade)
- Final Advisor Score – Complexity, Completeness, Quality of Results (30% of Final Grade)
- Final Report (20% of Final Grade from Project Advisor, 27% of Final Grade from Course Coordinator [Instructor or TA])

Grading Policy

Percent	Grade	Grade Points
93.4 - 100	A	4.00
90.0 - 93.3	A-	3.67
86.7 - 89.9	B+	3.33
83.4 - 86.6	B	3.00
80.0 - 83.3	B-	2.67

76.7 - 79.9	C+	2.33
73.4 - 76.6	C	2.00
70.0 - 73.3	C-	1.67
66.7 - 69.9	D+	1.33
63.4 - 66.6	D	1.00
60.0 - 63.3	D-	0.67
0 - 59.9	E	0.00

More information on UF grading policy may be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

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Students Requiring Accommodations

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://www.dso.ufl.edu/drc>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Course Evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu/evals>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

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://www.dso.ufl.edu/sccr/process/student-conduct-honor-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.

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: <http://registrar.ufl.edu/catalog0910/policies/regulationferpa.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: <http://www.counseling.ufl.edu/cwc>, and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

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/>.

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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 Resource Center, Reitz Union, 392-1601. Career assistance and counseling. <https://www.crc.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://www.dso.ufl.edu/documents/UF Complaints policy.pdf](https://www.dso.ufl.edu/documents/UF%20Complaints%20policy.pdf).

On-Line Students Complaints: <http://www.distance.ufl.edu/student-complaint-process>.