

Cover Sheet: Request 14370

EEL3000- Introduction to Electrical and Computer Engineering

Info

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|------------------------|---|
| Process | Course Modify Ugrad/Pro |
| Status | Pending at PV - University Curriculum Committee (UCC) |
| Submitter | Shannon Chillingworth schill@ece.ufl.edu |
| Created | 10/22/2019 2:57:17 PM |
| Updated | 10/31/2019 3:35:01 PM |
| Description of request | Title, course description and prerequisite change. |

Actions

| Step | Status | Group | User | Comment | Updated |
|-----------------------------------|----------|--|--------------|--|------------|
| Department | Approved | ENG - Electrical and Computer Engineering 011905000 | Robert Fox | Changes to name and prerequisites. | 10/22/2019 |
| No document changes | | | | | |
| College | Approved | ENG - College of Engineering | Heidi Dublin | Approved by the HWCOE Curriculum Committee | 10/31/2019 |
| EEL_3000_Syll_UCC2.docx | | | | | 10/28/2019 |
| University Curriculum Committee | Pending | PV - University Curriculum Committee (UCC) | | | 10/31/2019 |
| No document changes | | | | | |
| Statewide Course Numbering System | | | | | |
| No document changes | | | | | |
| Office of the Registrar | | | | | |
| No document changes | | | | | |
| Student Academic Support System | | | | | |
| No document changes | | | | | |
| Catalog | | | | | |
| No document changes | | | | | |
| College Notified | | | | | |
| No document changes | | | | | |

Course|Modify for request 14370

Info

Request: EEL3000- Introduction to Electrical and Computer Engineering
Description of request: Title, course description and prerequisite change.
Submitter: Shannon Chillingworth schill@ece.ufl.edu
Created: 10/22/2019 2:50:14 PM
Form version: 1

Responses

Current Prefix EEL
Course Level 3
Number 000
Lab Code None
Course Title Introduction to Electrical and Computer Engineering
Effective Term Earliest Available
Effective Year Earliest Available
Requested Action Other (selecting this option opens additional form fields below)
Change Course Prefix? No

Change Course Level? No

Change Course Number? No

Change Lab Code? No

Change Course Title? Yes
Current Course Title Introduction to Electrical and Computer Engineering
Proposed Course Title Introduction to Electrical Engineering
Change Transcript Title? Yes
Current Transcript Title Intro Elec & Comp Eng
Proposed Transcript Title (21 char. max) Intro Electrical Eng
Change Credit Hours? No

Change Variable Credit? No

Change S/U Only? No

Change Contact Type? No

Change Rotating Topic Designation? No

Change Repeatable Credit? No

Maximum Repeatable Credits 0
Change Course Description? Yes
Current Course Description Introduces electrical and computer engineering tools, both hardware and software. Professional ethics, career development. Assemble and test hardware project to provide hands-on experience.
Proposed Course Description (50 words max) Introduces the profession of electrical engineering. Presents career development and enhancement, professional codes of conduct, ethics,

entrepreneurship, intellectual property, professional societies. Projects provide hands-on experience with soldering, MATLAB programming, and microcontrollers.

Change Prerequisites? Yes

Current Prerequisites MAC2311

Proposed Prerequisites MAC2311 and Electrical Engineering (ELE_BSEE) majors only.

Change Co-requisites? No

Rationale Change in title, course description and prerequisites more clearly defines intended target audience.

Introduction to Electrical Engineering

EEL 3000 Section XXXX

Class Periods: Monday, Periods 8 & 9, 3:00 – 4:55 pm

Location: TBD

Academic Term: TBD

Instructor:

Henry Zmuda

zmuda@ece.ufl.edu

(352) 392-0990 (office) (850) 225-9200 (mobile – emergencies only please, text me anytime)

Office Hours: Monday and Thursday, 5th period (11:45 – 12:35)

Teaching Assistant:

Please contact through the Canvas website

Bhavana Subramanian, bsubramanian@ufl.edu, Office: NEB 213 (IEEE Office), Office Hours: Tuesday 1:55, Thursday 3:00

Course Description

(2 credits) Introduces the profession of electrical engineering. Presents career development and enhancement, professional codes of conduct, ethics, entrepreneurship, intellectual property, professional societies. Projects provide hands-on experience with soldering, MATLAB programming, and microcontrollers.

Course Pre-Requisites / Co-Requisites

MAC2311. For electrical engineering (ELE_BSEE) majors only.

Course Objectives

Learn about the detailed nature of the Electrical Engineering profession, the content of sub-specialties, career opportunities and how to prepare for them, become aware of the tools and resources used in industry. Understand the importance of effective communication, knowledge of professional issues, ethics, contemporary issues, and lifelong learning.

Materials and Supply Fees

None

Professional Component (ABET):

None.

Relation to Program Outcomes (ABET):

| Outcome | Coverage* |
|---|-----------|
| 1. An ability to identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics. | |
| 2. An ability to apply both analysis and synthesis in the engineering design process, resulting in designs that meet desired needs. | |
| 3. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions. | |
| 4. An ability to communicate effectively with a range of audiences | High |
| 5. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must | High |

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| consider the impact of engineering solutions in global, economic, environmental, and societal contexts. | |
| 6. An ability to recognize the ongoing need for additional knowledge and locate, evaluate, integrate, and apply this knowledge appropriately. | High |
| 7. An ability to function effectively on teams that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty | Medium |

Required Textbooks and Software

- None

Recommended Materials

- Access to MATLAB (available free through ECE Department VPN)

Course Schedule

Week 1: Overview of Course, Learning Styles
 Week 2: Representatives from ECE and College of Engineering Student Services
 Week 3: Introduction to MATLAB Programming
 Week 4: Introduction to the Arduino Processor
 Week 5: Engineering Career Development
 Week 6: Engineering Professionalism
 Week 7: Engineering Ethics
 Week 8: Engineering Innovation and Entrepreneurship
 Week 9: Intellectual Property and Patent Law
 Week 10: Computer Engineering Area Overview
 Week 11: Signals and Systems Area overview
 Week 12: Electronics Area Overview
 Week 13: Devices Area Overview
 Week 14: Electromagnetics Area Overview
 Week 15: Final Matlab/Arduino Quiz

Attendance Policy, Class Expectations, and Make-Up Policy

Attendance is required and is monitored electronically via i-clicker. The attendance app will remain open for you to sign in from 2:50 to 3:10 pm. You will not be able to sign in after 3:10 pm and will be marked absent. You must arrive for class on time. The i-Clicker app is location sensitive. You must be physically present in the room to be marked present for the class. **You must remember to sign in. Forgetting to sign in is not an acceptable excuse. The app will not let you sign in after 3:10.** The attendance app will be manually run a second time during class if students are seen leaving early. Students arriving after 3:10 pm will be marked as absent. **Students may not leave early from class unless approved in advance.** Leaving early is interpreted as “cheating” on the attendance.

As a matter of courtesy and respect for presenters, **electronic devices** (e.g., laptops, tablets, phones, etc.) **are to be put away and NOT used during class unless instructed to so as part of the class.** Any student violating this policy may be marked absent for that class at the instructor’s discretion. Students who take notes using an electronic device (e.g. tablet, laptop) must sit in the first two rows of the classroom.

Make-up Work

Makeup work is contingent on appropriate justifications and legal documents (UF Dean of Students, certified physician, military active duty, jury duty, etc.)

Since the class consists mainly of guest speakers, some make-up classes are not possible.

If a MATLAB assignment is missed (including the final quiz) for legitimate reasons (UF Dean of Students, certified physician, military active duty, jury duty, etc.) the make-up will consist of a project, possibly of greater difficulty than the original assignment.

Policy on Late Submissions

Assignment submissions are due by 11:59 pm of the assigned due date. Late assignments will receive a 50% deduction in grade for first day late (submitted within 24 hours of due date), a 75% deduction in grade for second day late (submitted within 48 hours of due date). No assignments will be accepted (no credit given) after 48 hours. Assignments are submitted electronically by uploading them onto Canvas. Late projects (i.e., Siren Kit) are treated the same as late written assignments. Excused late submissions MUST be approved by the instructor in advance.

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

| Assignment | Total Points | Percentage of Final Grade |
|------------------------------|---------------------|----------------------------------|
| Attendance | 1 each | 25% |
| Essays (4) | 10 each | 20% |
| Electronic Kits/Projects (2) | 10 | 15% |
| MATLAB Assignments (3) | 10 | 20% |
| Final Exam | 100 | 20% |
| | | 100% |

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 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.a.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.a.ufl.edu/public-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://sccr.dso.ufl.edu/policies/student-honor-code-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
- Robin Bielling, Director of Human Resources, 352-392-0903, rbielling@eng.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>

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 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 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://care.dso.ufl.edu>

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