**FLORIDA ATLANTIC UNIVERSITY**

**Undergraduate Programs—NEW COURSE PROPOSAL**

**DEPARTMENT:** CEECS  
**COLLEGE:** ENGINEERING AND COMPUTER SCIENCE

**RECOMMENDED COURSE IDENTIFICATION:**

**PREFIX** | **EEL** | **Course Number** | **4421** | **Lab Code** (L or C) | **C**
---|---|---|---|---|---

*(TO OBTAIN A COURSE NUMBER, CONTACT RSHIMAN@FAU.EDU)*

**COMPLETE COURSE TITLE:** RF Devices and Circuits

**CREDITS:** 3


**EFFECTIVE DATE**

(first term course will be offered)

**FALL 2013**

**GRADING (SELECT ONLY ONE GRADING OPTION):**

<table>
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<tr>
<th>REGULAR</th>
<th>PASS/FAIL</th>
<th>SATISFACTORY/UNSATISFACTORY</th>
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**COURSE DESCRIPTION:**

No more than three lines: RF filter design, active RF components and component modeling, matching and biasing networks, RF oscillators, mixers and frequency synthesizers, use of RF CAD software for system simulation.

**PREREQUISITES WITH MINIMUM GRADE:**

**EEL 4420** High Frequency Amplifier Design or Permission of Instructor

*DEFAULT MINIMUM PASSING GRADE IS D*. PREREQUISITES, COREQUISITES AND REGISTRATION CONTROLS WILL BE ENFORCED FOR ALL COURSE SECTIONS.

**MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE:**

Ph.D. in the technical field

**WAC/GORDON RULE COURSE:**

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WAC/Gordon Rule criteria must be indicated in syllabus. Guidelines: [www.fau.edu/WAC](http://www.fau.edu/WAC)

**GENERAL EDUCATION REQUIREMENT (MARK X IN FRONT OF SELECTION):**

- [ ] Written Communication
- [ ] Society/Human Behavior
- [ ] Mathematics/Quant. Reas.
- [ ] Global Citizenship
- [ ] Science/Natural World
- [ ] Creative Expression

Must attach the appropriate General Education Course Approval Request: [www.fau.edu/deanofstudies/GeneralEdCourseApprovalRequests.php](http://www.fau.edu/deanofstudies/GeneralEdCourseApprovalRequests.php)

**Faculty contact, email and complete phone number:**

Jonathan Bagby, bagby@fau.edu, 561.297.3462

Please consult and list departments that might be affected by the new course and attach comments. NA

**APPROVED BY:**

Department Chair:  
College Curriculum Chair:  
College Dean:  
UUPC Chair:  
Undergraduate Studies Dean:  
UFS President:  
Provost:  
Date: 4/18/13

Email this form and syllabus to mjenning@fau.edu seven business days before the University Undergraduate Programs Committee meeting so that materials may be viewed on the UUPC website prior to the meeting.

*FAUnewcourseUG—Revised September 2012*