

# FLORIDA ATLANTIC UNIVERSITY™

## Undergraduate Programs—NEW COURSE PROPOSAL<sup>1</sup>

UUPC APPROVAL \_\_\_\_\_  
 UFS APPROVAL \_\_\_\_\_  
 SCNS SUBMITTAL \_\_\_\_\_  
 CONFIRMED \_\_\_\_\_  
 BANNER POSTED \_\_\_\_\_  
 CATALOG \_\_\_\_\_

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](mailto:RSHIMAN@FAU.EDU))

COMPLETE COURSE TITLE: RF DEVICES AND CIRCUITS

**EFFECTIVE DATE**

(first term course will be offered)

FALL 2013

CREDITS: 3<sup>2</sup>

TEXTBOOK INFORMATION: *RF Circuit Design: Theory and Applications*, 2<sup>nd</sup> ed., R. Ludwig and G. Bogdanov, Prentice Hall, 2009

GRADING (SELECT ONLY ONE GRADING OPTION): REGULAR  PASS/FAIL \_\_\_\_\_ SATISFACTORY/UNSATISFACTORY \_\_\_\_\_

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 W/MINIMUM GRADE\*:**

EEL 4381C HIGH FREQUENCY AMPLIFIER DESIGN OR PERMISSION OF INSTRUCTOR

**COREQUISITES\*:**

**REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL)\*:**

\*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<sup>3</sup>**

YES \_\_\_\_\_ NO

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):<sup>4</sup>**

\_\_\_ 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/deanugstudies/GeneralEdCourseApprovalRequests.php](http://www.fau.edu/deanugstudies/GeneralEdCourseApprovalRequests.php)

Faculty contact, email and complete phone number:  
 Jonathan Bagby, [bagby@fau.edu](mailto:bagby@fau.edu), 561.297.3462

Please consult and list departments that might be affected by the new course and attach comments. NA<sup>5</sup>

**Approved by:**

Department Chair: \_\_\_\_\_  
 College Curriculum Chair: \_\_\_\_\_  
 College Dean: \_\_\_\_\_  
 UUPC Chair: \_\_\_\_\_  
 Undergraduate Studies Dean: \_\_\_\_\_  
 UFS President: \_\_\_\_\_  
 Provost: \_\_\_\_\_

Date: 4/18/13  
4/18/13  
4/19/13  
4/19/13  
4/19/13

1. Syllabus must be attached; syllabus checklist recommended; see guidelines and checklist: [www.fau.edu/academic/registrar/UUPCinfo](http://www.fau.edu/academic/registrar/UUPCinfo)
2. Review Provost Memorandum: **Definition of a Credit Hour** [www.fau.edu/provost/files/Definition\\_Credit\\_Hour\\_Memo\\_2012.pdf](http://www.fau.edu/provost/files/Definition_Credit_Hour_Memo_2012.pdf)
3. WAC approval (attach if necessary)
4. Gen. Ed. approval (attach if necessary)
5. Consent of affected departments (attach if necessary)

Email this form and syllabus to [mjenning@fau.edu](mailto: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.