**Florida Atlantic University**

Undergraduate Programs—NEW COURSE PROPOSAL

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

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**RECOMMENDED COURSE IDENTIFICATION:**

**PREFIX** EEL  
**COURSE NUMBER** 4384  
**LAB CODE (L or C)** _____

*(TO OBTAIN A COURSE NUMBER, CONTACT pshimin@fau.edu)*

**COMPLETE COURSE TITLE:** High Frequency Amplifier Design

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**EFFECTIVE DATE:**

(First term course will be offered)

**FALL 2013**

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**CREDITS:** 3

**TEXTBOOK INFORMATION:** Microwave Transistor Amplifiers, 2nd ed., G. Gonzalez, Prentice Hall, 1997

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

- Regular X
- Pass/Fail
- Satisfactory/Unsatisfactory

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**COURSE DESCRIPTION, NO MORE THAN THREE LINES:** Scattering parameters, matching networks and the Smith chart, amplifier stability considerations, amplifier design to meet various criteria, low noise, broadband, high power amplifier design, RF oscillator design, CAD design techniques.

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**PREREQUISITES W/MINIMUM GRADE*:**

EEL 3470, EEE 3300

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

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

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**MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE:** Ph.D. in the Technical Field

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**WAC/GORDON RULE COURSE** 3

**YES _____ NO X_____**

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

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**GENERAL EDUCATION REQUIREMENT (MARK X IN FRONT OF SELECTION):** 4

- 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/deanugsstudies-GeneralEdCourseApprovalRequests.php](http://www.fau.edu/deanugsstudies-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

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**Approved by:**

Department Chair: 

[Signature]

College Curriculum Chair: 

[Signature]

College Dean: 

[Signature]

UUPC Chair: 

[Signature]

Undergraduate Studies Dean: 

[Signature]

UFS President: 

[Signature]

Provost: 

[Signature]

Date: 4/18/13

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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


3. WAC approval (attach if necessary)

4. Gen. Ed. approval (attach if necessary)

5. Consent of affected departments (attach if necessary)

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Email this form and syllabus to mjennings@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.

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