

**UNDERGRADUATE CURRICULUM PROPOSAL COVER SHEET**

NOV 14 2008

**REGISTRATION**

**Title of Proposal – Must begin with Department Abbreviation:**  
ENEE 377 Advanced Electronics

**Check One:**  Full Proposal or  Information Item

**Effective Date for Curricular Offering:** fall 2009 catalog

**FROM:** Dr. Michel E. Holder, Electrical Engineering, EMCS 315-D, x4358, michel-holder@utc.edu  
 (proposal originator: include spok esperson's name, department, office number, telephone, e-mail)

**Does this require new resources from the originating department or other department?** no  
 Please attach explanation if yes.

**Faculty of the originating department approved this proposal on** 11/13/08 (date),  
 by a vote of 3 aye votes; 0 nay votes; 0 abstentions: 0 eligible voting members absent

**The following have examined this proposal:**

**Dept Head/Director:** Dr. Gary McDonald *Gary McDonald*  approve  neutral  disapprove\*  
 (printed name) signature

**College Curriculum Committee** Date: 11/13/08 Vote: 3-0 Signature of Chair: *Ahmed H. Eltem*

**Spokespersons for Affected Departments:**

Ahmed H. Eltem Electrical, 11/13/08 *Ahmed Eltem*  approve  neutral  disapprove\*  
 (name, department, date) signature

\_\_\_\_\_  
 (name, department, date) signature approve neutral disapprove\*

\_\_\_\_\_  
 (name, department, date) signature approve neutral disapprove\*

\_\_\_\_\_  
 (name, department, date) signature approve neutral disapprove\*

**Dean/Director:** *Will Sutton* *Will Sutton*  approve  neutral  disapprove\*  
 Dr. Will Sutton signature

**University Registrar:** Linda Orth *Linda Orth* Comments: \_\_\_\_\_  
 (printed name) signature

**Provost:** Phil Oldham *Phil Oldham*  approve  neutral  disapprove\*  
 (printed name) signature

\*Those who disapprove may attach an explanation

ACTIONS on this proposal:	Curriculum Committee	Faculty Senate
Date the proposal was considered	_____	_____
Vote of the body:	_____	_____
Accepted as information item ( <i>indicate date</i> )	_____	_____
Approved as submitted ( <i>indicate date</i> )	_____	_____
Approved with amendments (amendments indicated and transmitted to all signatories above, date):	_____	_____
Signature of Chair:	_____	_____

## ELECTRICAL ENGINEERING (ENEE) CATALOG CHANGES

### Old

#### 377 Advanced Electronics (3)

Study of advanced concepts in electronics. Design of practical and ideal operational amplifier circuits for given transfer functions. Design of active filters. Design of non-linear and pulse shaping circuits. Basic concepts of programmable controllers. Spring semester. Lecture 3 hours. *Prerequisites ENEE 371, 372 with grades of C or better. Corequisite: ENEE 378.*

### New

#### 377 Advanced Electronics (3)

Study of advanced concepts in electronics. Design of practical and ideal operational amplifier circuits for given transfer functions. Design of active filters. Design of non-linear and pulse shaping circuits. Basic concepts of programmable controllers. Spring semester. Lecture 3 hours. *Prerequisites ENEE 272,273 with grades of C or better. Corequisite: ENEE 378.*

### Rationale

ENEE 372 covers analog electronics, mainly transistor circuit analysis. These are no longer emphasized in ENEE 377, which is primarily concerned with Operational Amplifiers and Bode plots with little or no need for knowledge of transistor circuit analysis.