

# Electrical & Computer Engineering Department

## ADVISING INFORMATION

### APPROVED NON-MAJOR ELECTIVES

#### ELECTIVE (ARTS - 3 credits)

MUS Any course except Voice and Instrumental lessons. (recommended: 104, 105, 106, 108, 109, 308, 360, 362, 364)  
VIAR Any course (recommended 120, 121, 122)  
THEA Any course (recommended 161, 261)  
DANC Any course (recommended 101, 102)  
DSGN 121

#### HUMANITIES (LITERATURE - 3 credits)

ENGL Any course that focuses on literary texts (recommended: 201, 202, 205, 206, 210, 211, 212, 215, 216, 312, 319, 320, 321, 322, 333, 342, 371, 372, 380, 381)  
FORL 331, 332  
FREN 202, 311, 431(G), 441(G), 471, 472, 481(G), 491(G), 492(G)  
GERM 202, 311, 405(G), 441(G), 442(G), 471, 472  
LATN 301, 302  
SPAN 203, 311, 441(G), 442(G), 480(G)  
HUMANITIES (History - 3 credits)

#### HIST All history courses except HIST 390 (recommended: 101, 102, 103, 104, 221, 222, 223, 224, 321, 322)

#### HUMANITIES (OTHER - 3 credits)

HONR 216, 385  
HUMN All humanities courses (except 497-498)  
PHIL All philosophy courses

#### ELECTIVE (BEHAVIORAL SCIENCE - 6 credits)

ANTH All anthropology courses (recommended: 201, 202, 303, 304, 310, 375, 385, 386)  
ECON 300 or 201, 202  
GEOG All geography courses (recommended: 103, 104, 201, 210, 306, 311, 313, 315, 317, 319, 322, 346, 350, 400(G) )  
POLS All political science courses (recommended: 110, 111, 220, 221, 313, 314, 317, 318, 330, 340, 360, 374, 382, 386)  
PSYC All psychology courses (recommended: 110, 115, 210, 311, 312, 313, 370)  
SOC1 All sociology courses (recommended: 100, 241)

#### BIOLOGY ELECTIVE (3 Credits)

BIOL 110, 111, 121, 122, 300, 303, 304 (recommended: BIOL 121 300, 303, 304)  
RRES 150 (*Note: RRES 150 is approved for ITEC majors only*).

#### SCIENCE LABORATORY (1 Credit)

CHEM 112, 115; BIOL 112, 113, 123, 124; PHYS 215, 216

### EECE ELECTIVES

CMPS261	Adv Data Str/Sft dsgn
CMPS 341	Foundations of Computer Science
CMPS 453G	Introduction to Software Methodology
CMPS455	Operating Systems
EECE428G	Transmission Media
EECE430G	Digital Signal Processing
EECE434G	Data Communications
EECE435G	Wireless Communications
EECE437	Power Electronics
EECE442	Measurement and Control Lab
EECE466	Comm. Networks
EECE450	Power System Analysis & Design
EECE451	Digital Electronics
EECE453	Communication Engineering Lab
EECE459	Computer hardware design
EECE479	Computer Control
EECE458G	Comm. Engr II
MATH 362	Linear Algebra /or Math 381 Applied Discrete Math.

(Other courses by written approval of department head)

### Concentration Areas (13 hours of electives)

Communication Engineering		Computer Engineering		Electrical Engineering	
Course	Credit	Course	Credit		
**Must take all courses listed below: EECE428**      3 EECE435**      3 EECE458G**    3 EECE453**      1 See note below:		** Must take all courses listed below: CMPS261**    3 CMPS455**    3 EECE459**    3 EECE442**    1		Any <u>four</u> of the 3-hour credit courses plus one hour lab from the above listed electives.  *- To take courses that are not listed in the elective list the student needs the Department Head Permission.	
Must take one course from below courses: EECE430G EECE434G EECE451	3	Must take one course from below courses: EECE451 EECE434G EECE479 EECE430G	3	→ Total of 13 hours of electives.	

### COURSES REQUIRING "C" OR BETTER GRADE\*

COURSE	Minimum Grade	COURSE	Minimum Grade
<b>EECE 140</b>	<b>C</b>	<b>EECE 380</b>	<b>C</b>
<b>EECE 240</b>	<b>C</b>	<b>CMPS 150</b>	<b>C</b>
<b>EECE 260</b>	<b>C</b>	<b>CMPS 260</b>	<b>C</b>
<b>EECE 335</b>	<b>C</b>	<b>MATH 270</b>	<b>C</b>
<b>EECE 353</b>	<b>C</b>	<b>MATH 301</b>	<b>C</b>
<b>EECE 355</b>	<b>C</b>	<b>MATH 350</b>	<b>C</b>
<b>EECE 356</b>	<b>C</b>	<b>PHYS 202</b>	<b>C</b>

\*Those under the 2013-15 and later catalog years will need a minimum C grade in **ALL** courses in their curriculum, in order to graduate.

### FALL SEMESTER ONLY & SPRING SEMESTER ONLY COURSES

Fall Only:      EECE 430, EECE 442, 451, EECE 452  
 Spring Only:    EECE 344, EECE 428, EECE 453, EECE 458, EECE 459, EECE 479,

### EECE 443 Design I Prerequisite Requirements

Completion of all EECE, CMPS, and MATH and PHYS courses in the curriculum up to and including the 300 level, excluding MATH 302 and EECE 344.

## Grade Point Average Computation

GRADE	A	B	C	D	F	NR
Course Credit Hours	Cr	Cr	Cr	Cr	Cr	Cr
Course Quality Pts	4 x Cr	3 x Cr	2 x Cr	1 x Cr	0	0

GPA Hours = Sum of Course Credit Hours (for grades of A, B, C, D, F, NR)

GPA Quality Pts = Sum of Course Quality Points (for grades of A, B, C, D, F, NR)

$$\text{GPA} = (\text{GPA Quality Pts}) / (\text{GPA Hours})$$

Cumulative GPA: All courses, including repeated courses counted in GPA

Adjusted GPA: Only most recent of repeated courses counted in GPA

Major GPA: Only EECE and ENGR courses counted

$$\text{Hours Earned} = \text{GPA Hours} + \text{S hours} + \text{CR hours} + \text{P hours} - \text{F hours} - \text{NR hours}$$

### Good Standing Requirement

Overall (All courses) Cumulative GPA  $\geq$  2.000

### Graduation Requirements

Overall (All courses) Adjusted GPA  $\geq$  2.000

AND

Major (EECE & Engineering) Cumulative GPA  $\geq$  2.000

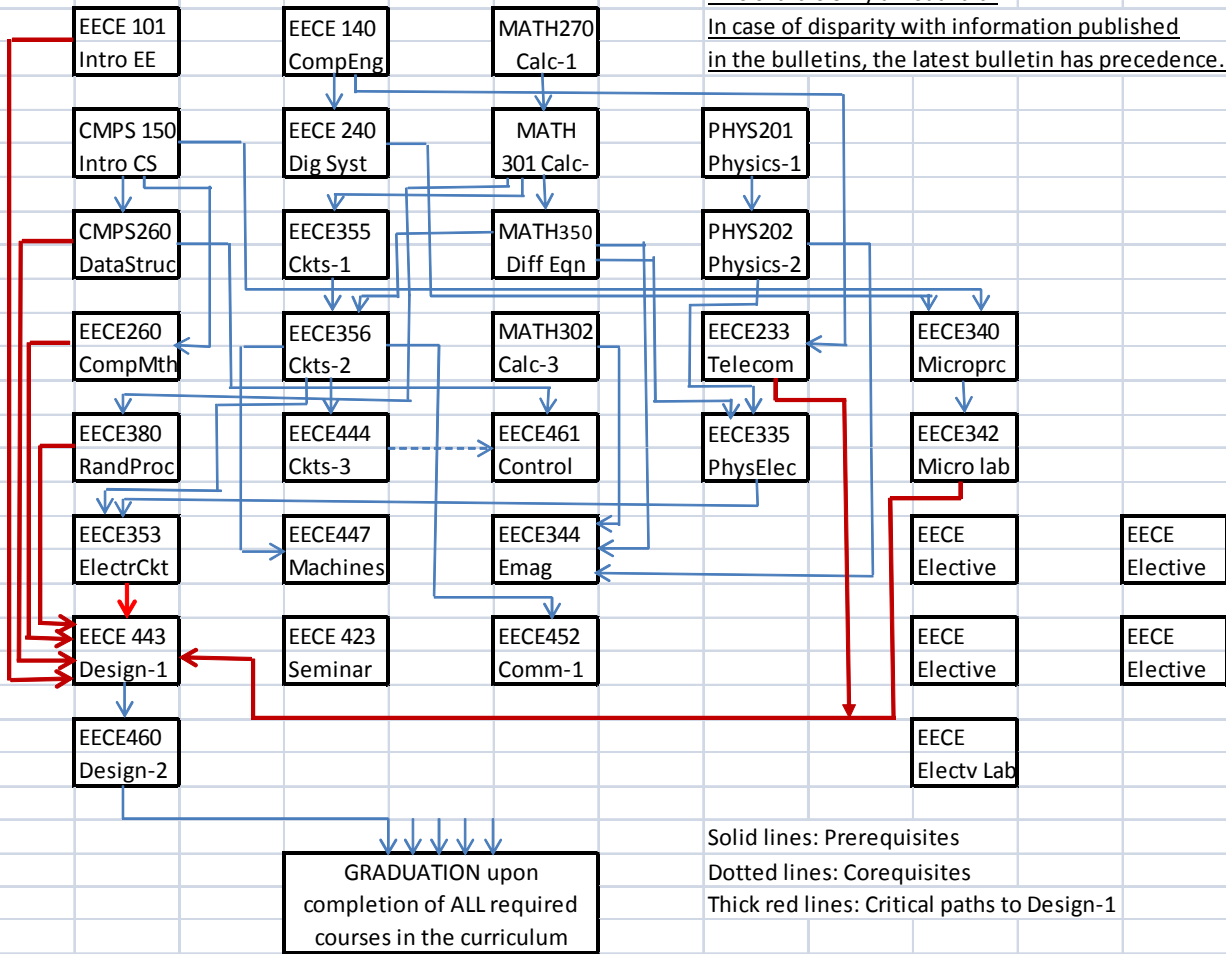
## Requirements for Upper Division Status

To be admitted to Upper Division, the student must:

- complete MATH 140 (or equivalent) with a grade of "C" or better
- complete 30 non-developmental hours (does not include MATH 90 or MATH 92)
- have an overall adjusted GPA of 2.0 or better

### EECE COURSES FLOW CHART REV.F12

This chart is only a visual aid.  
 In case of disparity with information published  
 in the bulletins, the latest bulletin has precedence.



Solid lines: Prerequisites  
 Dotted lines: Corequisites  
 Thick red lines: Critical paths to Design-1

Note: There are other non-major courses required for graduation. See Curriculum pages