

# ECE - Computer & Network Track

Revised: 03/10/2009

## Non-MECOP Plan

This guide is for planning purposes only. Course offerings subject to change.

	Fall	Winter	Spring	Summer	
Freshman	<b>MTH 251*</b>	4 <b>MTH 252*</b>	4 <b>MTH 254*</b>	4	
	ECE 111	3 <b>ECE 112*</b>	3 CS 161	4	
	<b>CH 201*</b>	3 MTH 231	4 ECE 271	3	
	<b>WR 121*</b>	3 Perspective	3 ECE 272	1	
		3 Lifetime Fitness	3 <b>PH 211*</b>	4	
	Total 13	Total 17	Total 16	Total 0	
Sophomore	<b>MTH 256*</b>	4 <b>MTH 306*</b>	4 MTH 255	4	
	<b>PH 212*</b>	4 <b>PH 213*</b>	4 WR 327	3	
	<b>ENGR 201*</b>	3 <b>ENGR 202*</b>	3 ENGR 203	3	
	<b>COMM 111/114*</b>	3 CS 162	4 CS 261	4	
			<i>Apply to Pro</i>		
	Total 14	Total 15	Total 14	Total 0	
Junior	ECE 375	4 ECE 322	4 ECE 323	4	
	ECE 351	3 ECE 352	4 ECE 353	3	
	<b>CS 311</b>	4 ECE 391	4 ECE 372	4	
	Bio+Lab	4 Perspective	3 ENGR 390	3	
		Total 15	Total 15	Total 14	Total 0
Senior	ECE 441	2 ECE 442	2 ECE 443	2	
	<b>ECE 472</b>	4 <b>ECE 476</b>	4 <i>ECE 474/477/CS 411</i>	4	
	<b>ECE 473</b>	4 <i>ECE 464/471</i>	4 <i>ECE 474/477/CS 411</i>	4	
	Perspective	3 <i>Restricted Electives</i>	2 CS 391	3	
	DPD	3 Perspective	3 Contemporary Global Issues	3	
		Total 16	Total 15	Total 16	Total 0

Total Credits: 180

**Track Description**  
The computer and network track addresses the issues related to architecture, programming, and communication of computing devices, which include computers, handheld devices, and sensors. Study of computer systems involves digital design, microcomputer architecture, and high-level and assembly language programming. Computer networking deals with the design of protocols that enable multiple computers/devices to communicate effectively over a wired or wireless medium.

## MECOP Plan

	Fall	Winter	Spring	Summer
Freshman	<b>MTH 251*</b>	4 <b>MTH 252*</b>	4 <b>MTH 254*</b>	4
	ECE 111	3 <b>ECE 112*</b>	3 CS 161	4
	<b>CH 201*</b>	3 MTH 231	4 ECE 271	3
	<b>WR 121*</b>	3 Perspective	3 ECE 272	1
		3 Lifetime Fitness	3 <b>PH 211*</b>	4
	Total 13	Total 17	Total 16	Total 0
Sophomore	<b>MTH 256*</b>	4 <b>MTH 306*</b>	4 MTH 255	4
	<b>PH 212*</b>	4 <b>PH 213*</b>	4 <b>WR 327</b>	3
	<b>ENGR 201*</b>	3 <b>ENGR 202*</b>	3 ENGR 203	3
	<b>COMM 111/114*</b>	3 CS 162	4 CS 261	4
			<i>Apply to Pro &amp; MECOP</i>	
	Total 14	Total 15	Total 14	Total 0
Junior	<b>CS 311</b>	4		
	<b>ECE 351</b>	3 <b>ECE 352</b>		
	<b>ECE 375</b>	4 <b>ECE 353</b>	3 MECOP Internship	MECOP Internship
	ENGR 390	3 <b>ECE 372</b>	4	
	<b>ENGR 407</b>	1		
	Total 15	Total 15		
Senior	ECE 441	2 ECE 442	2 ECE 443	2
	ECE 323	4 ECE 391	4 <i>ECE 474/477/CS 411</i>	4
	<b>ECE 473</b>	4 <b>ECE 476</b>	4 <b>ECE 472</b>	4 MECOP Internship
	DPD	3 <i>ECE 464/471</i>	4 <i>Restricted Elective</i>	2
	ENGR 407	1 Perspective	3 Perspective	3
		Total 14	Total 17	Total 15
Senior		<i>ECE 464/471</i>	4	
		Bi+Lab	4	
		Perspective	3	
		CS 391	3	
		Contemporary Global Issues	3	
	Total 17			

Total Credits: 182

**Employment**  
Employment opportunities include all electronics and software companies with computing and communication products.

**Track Specific Courses**  
(#) = number of credits  
**Required (16)**  
**CS 311** F/W  
**ECE 476** W  
**ECE 472** F/Sp  
**ECE 473** F  
**Restricted Electives (14);**  
**Select at least three courses from:**  
*CS 411* F/Sp  
*ECE 464* W  
*ECE 471* W  
*ECE 474* Sp  
*ECE 477* Sp

**Bolded** courses in Freshman and Sophomore years should be completed prior to beginning the professional program  
**Bolded and Italicized** courses should be completed prior to first MECOP internship