

ECE - RF Communications 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	MTH 251*	4 MTH 252*	4 MTH 254*	4
	ECE 111	3 ECE 112*	3 CS 161	4
	CH 201*	3 MTH 231	4 ECE 271	3
	WR 121*	3 Perspective	3 ECE 272	1
		Lifetime Fitness	3 PH 211*	4
Total	13	Total 17	Total 16	Total 0
Sophomore	MTH 256*	4 MTH 306*	4 MTH 255	4
	PH 212*	4 PH 213*	4 WR 327	3
	ENGR 201*	3 ENGR 202*	3 ENGR 203	3
	COMM 111/114*	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
	ECE 390	4 ECE 391	4 CS 372	4
	Bio+Lab	4 Perspective	3 ENGR 390	3
	Total	15	Total 15	Total 14
Senior	ECE 441	2 ECE 442	2 ECE 443	2
	<i>ECE 422/473/482</i>	4 ECE 461	4 ECE 462	4
	<i>ECE 422/473/482</i>	4 ECE 464	4 DPD/ <i>ECE 474/483</i>	4
	<i>Restricted Elective</i>	2 DPD/ <i>ECE 423</i>	3 CS 391	3
	Perspective	3 Perspective	3 Contemporary Global Issue	3
	Total	15	Total 16	Total 16

Total Credits: 180

MECOP Plan

	Fall	Winter	Spring	Summer
Freshman	MTH 251*	4 MTH 252*	4 MTH 254*	4
	ECE 111	3 ECE 112*	3 CS 161	4
	CH 201*	3 MTH 231	4 ECE 271	3
	WR 121*	3 Perspective	3 ECE 272	1
		Lifetime Fitness	3 PH 211*	4
Total	13	Total 17	Total 16	Total 0
Sophomore	MTH 256*	4 MTH 306*	4 MTH 255	4
	PH 212*	4 PH 213*	4 WR 327	3
	ENGR 201*	3 ENGR 202*	3 ENGR 203	3
	COMM 111/114*	3 CS 162	4 CS 261	4
			<i>Apply to Pro & MECOP</i>	
Total	14	Total 15	Total 14	Total 0
Junior	ECE 375	4 ECE 322	4	
	ECE 351	3 ECE 352	4	
	ENGR 390	3 ECE 353	3 MECOP Internship	MECOP Internship
	ENGR 407	1 ECE 391	4	
	ECE 390	4		
Total	15	Total 15		
Senior 1	ECE 441	2 ECE 442	2 ECE 443	2
	ECE 323	4 ECE 461	4 ECE 462	4
	<i>ECE 422/473/482</i>	4 ECE 464	4 DPD/ <i>ECE 474/483</i>	4
	<i>ECE 422/473/482</i>	4 DPD/ <i>ECE 423</i>	3 <i>Restricted Elective</i>	2
	ENGR 407	1 Perspective	3 Perspective	3
Total	15	Total 16	Total 15	MECOP Internship
Senior 2		ECE/CS 372	4	
		Bi+Lab	4	
	MECOP Internship	Perspective	3	
		CS 391	3	
		Contemporary Global Issue	3	
Total		Total 17		

Total Credits: 182

Track Description

RF Communications deals with how radio signals are generated at one place, transmitted through the radio channel, received, and processed to recover the original information signal at another place. It also covers the associated devices/circuits and components to realize these transmission and reception functions. This is one of the most important aspects of modern wireless communication systems and networks such as mobile cellular phone networks, wireless internet access, audio broadcast, and television. The courses in this track train students on radio transmission principles, communications and signal processing theories, and radio system and network architecture. In this information era, information technology has become the most critical area and has the most significant impact on the daily life of human beings.

Employment

Employment opportunities encompass a variety of sections from telecommunication companies and research organizations, integrated radio system design, and wireless mobile and indoor services

Track Specific Courses

(#) = number of credits

Required (16)

ECE 390 F
ECE 461 W
ECE 462 Sp
ECE 464 W

Restricted Electives (14);

Select at least three

courses from:

ECE 422 F
ECE 423 W
ECE 464 W
ECE 473 F
ECE 474 Sp
ECE 482 F
ECE 483 Sp

* One of the following courses is required (ECE 463 or ECE 464)

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