

Electrical Engineering (at MGCCC campus)

Approved: 5 MAY 2016

FIRST YEAR

FALL		SPRING		
	ENG 1113 - English Composition I	3	ENG 1123 - English Composition II Credit(s): 3	3
	MAT 1613 - Calculus I	3	SPT 1113 – Fundamental of Public Speaking	3
	CHE 1214 - General Chemistry I	4	MAT 1623 - Calculus II	3
Fr-1 H.Elective 1	Humanities elective*	3	CSC 2144 Programming II with C++	4
	CSC 2134 Programming I with C++	4	So-2 S.S.Elective 1 Social/Behavioral Sciences elective*	3
		17		
			16	

SECOND YEAR

FALL		SPRING		
	MAT 2613 Calc III-A	3	PHY 2524 General Physics II-A Lec/Lab	4
	MAT 2113 Intro Linear Algebra	3	MAT 2623 Calculus IV-A	3
	PH 2514 Gen. Physics I-A Lec/Lab	4	MAT 2913 Diff Equations	3
	CSC 2844 Data Structures	4	Sr-2 S.S.Elective 2 Social/Behavioral Sciences elective*	3
Sr-1 F.A.Elective	Fine Arts elective*	3	Jr-1 H.Elective 2 Humanities elective*	3
		17		
			16	

Students completing this program will have ~64h (roughly four semesters) credit of MSU engineering courses to complete.

However, the ECE 3413 → ECE3424 → ECE3434 → ECE4512 → ECE4522 prerequisite chain is five semesters long.

Student changes status from MGCCC full-time to MSU full-time

THIRD YEAR

FALL		SPRING		
	<i>ECE 3714 Digital Devices</i>	4	<i>ECE 1002 Intro to ECE</i>	2
Sr-2 Engr.Sci.Elective	<i>ME 3513 Thermodynamics I</i>	3	<i>ECE 3724 Microprocessors</i>	4
	<i>ECE 3413 Intro Electronic Circuits</i>	3	<i>ECE 3424 Intern Electronic Circuits</i>	4
	<i>ECE 3313 Electromagnetics I</i>	3	<i>ECE 3323 Electromagnetics II</i>	3
		13		
			13	

FOURTH YEAR

FALL		SPRING		
	<i>ECE 3434 Advanced Electronic Circuits</i>	4	<i>ECE 4512 Senior Design I</i>	2
	<i>ECE 3614 Fund. Energy Systems</i>	4	<i>GE 3513-06 Technical Communications</i>	3
	<i>ECE 3443 Signals & Systems</i>	3	<i>ECE 4xx3 Technical Elective</i>	3
	<i>IE 4613 Engineering Statistics I</i>	3	<i>ECE 4xx3 Technical Elective</i>	3
		14	<i>(Optional -- 1h) ME 4111 Professional Seminar</i>	
			11	

FIFTH YEAR

FALL		
	<i>ECE 4522 Senior Design II</i>	2
Sr-1 Engr.Sci.Elective	<i>E 3913 Engineering Economy</i>	3
	<i>ECE 3213 Solid-State Electronics</i>	3
	<i>ECE 4xx3 Technical Elective</i>	3
	<i>Professional Enrichment elective**</i>	3
		14

NOTES

Courses listed in *italics* are MSU-offered courses

Semester credit hours offered by MGCCC

Semester credit hours offered by MSU

66* Only 63h credit toward EE degree program

65 Three MGCCC courses (PH2514, PH2524, CSC2844) are 4h credit where MSU equivalent courses (PH2213, PH2223, CSE2383) award only 3h credit (courses contain non-credit lab component)

At least ½ total requirements at a senior college (per MSU Undergraduate Catalog → Admission of Transfer Students)

* Humanities, Fine Arts, and Behavioral/Social Science electives must be chosen from a list of approved courses.

Consult with your adviser for more information before scheduling these courses.

** Professional Enrichment elective is chosen to support student attainment of certificate, minor, or other outcomes.

Consult with your adviser for more information, and to declare your desired professional enrichment outcome.