

Electrical Engineering (at MSU Gulf Coast campus)

REVISED: JANUARY 2018

1st YEAR		FALL		SPRING	
		ENG 1113 - English Composition I	3	ENG 1123 - English Composition II	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 SS elective #1 Social/Behavioral Sciences elective*	3
			17		16
2nd 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
		PHY 2514 General Physics I-A Lec/Lab	4	MAT 2913 Diff Equations	3
		CSC 2844 Data Structures	4	Sr-2 SS elective #2 Social/Behavioral Sciences elective	3
Sr-1	FA 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 ECE3413 → ECE3424 → ECE3434 → ECE4512 → ECE4522 course sequence is five semesters long.

3rd YEAR		FALL		SPRING	
		<i>ECE 3714 Digital Devices</i>	4	<i>ECE 1002 Intro to ECE</i>	2
Jr-2	EngrSci	<i>ME 3513 Thermodynamics I</i>	3	<i>ECE 3724 Microprocessors</i>	4
		<i>ECE 3413 Introduction Electronic Circuits</i>	3	<i>ECE 3424 Intermediate Electronic Circuits</i>	4
		<i>ECE 3313 Electromagnetics I</i>	3	<i>ECE 3323 Electromagnetics II</i>	3
			13		13
4th YEAR		FALL		SPRING	
		<i>ECE 3434 Advanced Electronic Circuits</i>	4	<i>ECE 4512 Senior Design I</i>	2
		<i>ECE 3443 Signals & Systems</i>	3	<i>GE 3513-06 Technical Communications</i>	3
		<i>ECE 3614 Fund. Energy Systems</i>	4	<i>ECE 4xx3 Technical Elective</i>	3
		<i>IE 4613 Engineering Statistics I</i>	3	Sr-1 EngrSci <i>IE 3913 Engineering Economy</i>	3
			14	<i>(Optional – 1h) ME 4111 Professional Seminar</i>	11
5th YEAR		FALL			
		<i>ECE 4522 Senior Design II</i>	2		
		<i>ECE 3213 Solid-State Electronics</i>	3		
		<i>ECE 4xx3 Technical Elective</i>	3		
		<i>ECE 4xx3 Technical Elective</i>	3		
Sr-2	PE Elective	<i>Professional Enrichment Elective**</i>	3		
			14		

NOTES

Courses listed in *italics* are MSU-offered courses

Semester credit hours offered by MGCCC

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67 * Only 63h credit toward EE degree program

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