

**Electrical Engineering
Engineering on the Coast**
bagley.msstate.edu/coast

Community College					
Freshman (Fall Semester)			Freshman (Spring Semester)		
ENG 1113	English Composition I	3	ENG 1123	English Composition II	3
MAT 1613	Calculus I	3	MAT 1623	Calculus II	3
CSC 2134	Programming I with C++	4	CSC 2144	Programming II with C++	4
CHE 1214	General Chemistry I	4		Humanities Elective*	3
	Humanities Elective*	3		Social Science Elective*	3
		17			16
Sophomore (Fall Semester)			Sophomore (Spring Semester)		
MAT 2613	Calculus III	3	EGR 2413	Engineering Mechanics I	3
MAT 2113	Linear Algebra	3	MAT 2623	Calculus IV	3
CSC 2844	Data Structures	4	MAT 2913	Differential Equations I	3
PHY 2514	General Physics I with Calculus	4	PHY 2524	General Physics II with Calculus	4
	Fine Art Elective*	3		Social Science Elective*	3
		17			16
Total Hours - 66					

*General Education courses. Must be from an approved listing.

Mississippi State University					
Junior (Fall Semester)			Junior (Spring Semester)		
ECE 1013	Intro to ECE Design I	3	ECE 1022	Intro to ECE Design II	2
ECE 3714	Digital Devices	4	ECE 3724	Microprocessors	4
ECE 3313	Electromagnetics I	3	ECE 3323	Electromagnetics II	3
ECE 3423	Circuits I	3	ECE 3433	Circuits II	3
ECE 3421	Circuits I Lab	1	ECE 3244	Electronics I	4
IE 4613	Engineering Statistics I	3			
	Hours	17		Hours	16
Senior (Fall Semester)			Senior (Spring Semester)		
ECE 4512	EE Capstone Design I	2	ECE 4522	EE Capstone Design II	2
GE 3513	Technical Writing	3	IE 3913	Engineering Economy**	3
ECE 3614	Fund. of Energy Systems	4	ECE 4xx3	EE Technical Elective	3
ECE 3443	Signals & Systems	3	ECE 4xx3	EE Technical Elective	3
ECE 4xx3	EE Technical Elective	3	ECE 4xx3	EE Technical Elective	3
				Professional Enrichment Elective*	3
	Hours	15		Hours	17
Total Hours- 65					

Notes

- At least ½ of the total requirements at a senior college (per MSU Undergraduate Catalog → Admission of Transfer Students)
- **Engineering Science elective: ME 3513 Thermodynamics I or IE 3913 Engineering Economy
- Professional Enrichment elective: chosen to support student attainment of certificate, minor, or additional EE technical knowledge.
- EE Technical elective selections must satisfy the Depth & Breadth policy. You can find this policy online at ece.msstate.edu → Academics → Undergraduate Education → B.S. in Electrical Engineering → EE Technical Electives