

UNIVERSITY OF MIAMI
DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING
BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
ELECTRICAL ENGINEERING OPTION

126 Credits
2016 - 2017

Freshman Year:					
ECE 111	Introduction to Engineering I	3	ECE 112	Introduction to Engineering II	2
ENG 105	English Composition I	3	ECE 118	Intro. To Programming	3
MTH 151	Calculus I for Engineers	5	ENG 107	English Composition II: Science and Technology	3
PHY 205	University Physics I	3	MTH 162	Calculus II	4
			PHY 206	University Physics II	3
			PHY 208	University Physics II Lab	1
Total			Total		
14			16		

Sophomore Year:					
ECE 201	Electrical Circuit Theory	3	ECE 202	Electronics I	3
ECE 218	Data Structures	3	ECE 203	Electrical Circuits Lab	1
MTH 311	Ordinary Differential Equations	3	ECE 206	Circuits, Signals and Systems	3
PHY 207	University Physics III	3	ECE 211	Logic Design	3
PHY 209	University Physics Lab III	1	MTH 210	Introduction to Linear Algebra	3
	Humanities and Arts Cognate ¹	3	CHM 151	Chemistry for Engineers I	3
			CHM 153	Chemistry Lab for Engineers	1
Total			Total		
16			17		

Junior Year:					
ECE 301	Electromagnetic Field Theory	3	ECE 212	Processors: Hardware, Software and Interfacing	3
ECE 302	Electronics II	3	ECE 316	Structured Digital Design	1
ECE 303	Electronics Lab	1		EE Core Elective ¹	3
ECE 315	Digital Design Laboratory	1		EE Core Elective ¹	3
ECE 336	Discrete-Time Signals and Systems	3		ECE Elective ¹	3
ECE 310 or IEN 310	Engineering Probability	3		People and Society Cognate ¹	3
	People and Society Cognate ¹	3			
Total			Total		
17			16		

Senior Year:					
ECE 481	Senior Project I ²	1	ECE 482	Senior Project II	2
	ECE Elective ¹	3		Technical Elective ¹	3
	ECE Elective ¹	3		Technical Elective ¹	3
	ECE Design Elective ¹	3		Humanities and Arts Cognate ¹	3
	Technical Elective ¹	3		People and Society Cognate ¹	3
	Humanities and Arts Cognate ¹	3			
Total			Total		
16			14		

- 1 See description of electives under the Departmental Electives Section
2 Offered only in Fall Semester

All ECE courses which are prerequisites for subsequent ECE courses require a grade of C- or better.
All ECE courses at the 300 level or above must be taken at UM.