

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

127 Credits

2014 - 2015

Freshman Year:					
EEN 111	Introduction to Engineering I	3	EEN 112	Introduction to Engineering II	2
ENG 105	English Composition I	3	EEN 118	Intro. To Programming	3
MTH 151	Calculus I for Engineers	5	ENG 107	Writing About Science	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:					
EEN 201	Electrical Circuit Theory	3	EEN 204	Electrical Circuits Laboratory	1
EEN 218	Data Structures	3	EEN 304	Logic Design	3
MTH 311	Ordinary Differential Equations	3	EEN 305	Electronics I	3
PHY 207	University Physics III	3	EEN 307	Circuits, Signals and Systems	3
PHY 209	University Physics Lab III	1	MTH 210	Introduction to Linear Algebra	3
	Humanities and Arts Cognate (HA Elective)*	3	CHM 151	Chemistry for Engineers I	3
			CHM 153	Chemistry Lab for Engineers	1
Total			Total		
16			17		

Junior Year:					
EEN 301	Electromagnetic Field Theory	3	EEN 312	Processors: Hardware, Software and Interfacing	4
EEN 306	Electronics II	3	EEN 316	Structured Digital Design	1
EEN 311	Electronics Lab	1		EE Core Elective ⁺	3
EEN 315	Digital Design Laboratory	1		EE Core Elective ⁺	3
EEN 336	Discrete-Time Signals and Systems	3		ECE Elective ⁺	3
IEN/EEN 310	Engineering Probability	3		People and Society Cognate (PS Elective)*	3
	People and Society Cognate (PS Elective)*	3			
Total			Total		
17			17		

Senior Year:					
EEN 415	Senior Project I**	1	EEN 416	Senior Project II	2
	ECE Elective ⁺	3		Technical Elective ⁺	3
	ECE Elective ⁺	3		Technical Elective ⁺	3
	ECE Design Elective ⁺	3		Humanities and Arts Cognate (HA Elective)*	3
	Technical Elective ⁺	3		People and Society Cognate (Adv. PS Elective)*	3
	Humanities and Arts Cognate (Adv. HA Elective)*	3			
Total			Total		
16			14		

* Students must complete a minimum of 1 PS cognate and 1 HA cognate, to be selected from the list of available cognates. Each cognate should be a minimum of 3 courses (minimum of 9 credits).

⁺ See description of electives under the Electrical and Computer Engineering Section in the UM Bulletin

** Offered only in the Fall semester