

UNIVERSITY OF MIAMI
DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING
BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
AUDIO ENGINEERING OPTION
134/135 Credits
2015 - 2016

Freshman Year:					
ECE 111	Introduction to Engineering I	3	ECE 112	Introduction to Engineering II	2
ENG 105	English Composition I	3	ECE 118	Introduction 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
MTC 109	Music Theory Skills I	3	PHY 206	University Physics II	3
			PHY 208	University Physics II Lab	1
Total			Total		
17			16		

Sophomore Year:					
ECE 201	Electrical Circuit Theory	3	ECE 204	Electrical Circuits Laboratory	1
ECE 218	Data Structures	3	ECE 304	Logic Design	3
MTH 311	Ordinary Differential Equations	3	ECE 305	Electronics I	3
PHY 207	University Physics III	3	ECE 307	Circuits, Signals and Systems	3
PHY 209	University Physics Lab III	1	CHM 151	Chemistry for Engineers	3
MMI 201	Introduction to Music Recording	3	CHM 153	Chemistry Lab for Engineers	1
			MTH 210	Introduction to Linear Algebra	3
Total			Total		
16			17		

Junior Year:					
ECE 306	Electronics II	3	ECE 312	Processors: Hardware, Software and Interfacing	4
ECE 311	Electronics Laboratory	1	ECE 316	Structured Digital Design	1
ECE 315	Digital Design Lab	1	ECE 436	Digital Signal Processing	3
ECE 336	Discrete-Time Signals and Systems	3		EE Core Elective ⁺	3
IEN/ECE 310	Engineering Probability	3	MMI 172	Audio Design Workshop III	1
MMI 502	Digital Audio I	3	MMI 503	Digital Audio II	3
	Humanities and Arts Cognate**	3		Humanities and Arts Cognate**	3
Total			Total		
17			18		

Senior Year:					
ECE 415	Senior Project I ^{***}	1	ECE 416	Senior Project II	2
ECE 437	Real-Time DSP Laboratory	1	ECE 540	Digital Speech & Audio Processing	3
ECE 502	Engineering Acoustics	3	MMI 436	Audio Postproduction ⁺⁺	3
	ECE Design Elective ⁺	3	MMI 501	Transducer Theory	3
	Audio Engineering or Tech. Elective	2/3		People and Society Cognate*	3
	People and Society Cognate*	3		People and Society Cognate*	3
	Humanities and Arts Cognate**	3			
Total			Total		
17			17		

* 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).

** Recommended to take a HA Cognate that includes a Musicology Elective

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

++ Note that MMI 504 could be substituted for MMI 436

*** Offered only in the Fall semester