

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

134 Credits
2017 - 2018

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	English Composition II: Science and Technology	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 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	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 302	Electronics II	3	ECE 212	Processors: Hardware, Software and Interfacing	3
ECE 303	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 ¹	3
ECE/EN 310	Engineering Probability	3	MMI 172	Audio Design Workshop III	1
MMI 502	Digital Audio I	3	MMI 503	Digital Audio II	3
	HA Cognate ²	3		PS Cognate ¹	3
Total			Total		
17			17		

Senior Year:					
ECE 437	Real-Time DSP Laboratory	1	ECE 482	Senior Project II	2
ECE 481	Senior Project I ³	1	ECE 540	Digital Speech & Audio Processing	3
ECE 502	Engineering Acoustics	3	MMI 436	Audio Postproduction ⁴	3
	ECE Design Elective ¹	3	MMI 501	Transducer Theory	3
	Audio Engineering or Tech. Elective ¹	3		PS Cognate ¹	3
	PS Cognate ¹	3		HA Cognate ²	3
	HA Cognate ²	3			
Total			Total		
17			17		

¹ See Description of Electives under the Electrical and Computer Engineering Section of the Academic Bulletin.

² Recommended Arts & Humanities(HA) Cognate that includes a Musicology Elective

³ Offered only in the Fall semester

⁴ Note that MMI 504 could be substituted for MMI 436

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.