

UNIVERSITY OF MIAMI
DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING
BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING
AUDIO ENGINEERING OPTION
134/135 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	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:					
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	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:					
EEN 306	Electronics II	3	EEN 312	Processors: Hardware, Software and Interfacing	4
EEN 311	Electronics Laboratory	1	EEN 316	Structured Digital Design	1
EEN 315	Digital Design Lab	1	EEN 436	Intro. Digital Signal Processing	3
EEN 336	Discrete-Time Signals and Systems	3		EE Core Elective ⁺	3
EEN/EEN 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 (HA Elective)**	3		Humanities and Arts Cognate (HA Elective)**	3
Total			Total		
17			18		

Senior Year:					
EEN 415	Senior Project I***	1	EEN 416	Senior Project II	2
EEN 437	Real-Time DSP Laboratory	1	EEN 540	Digital Speech & Audio Processing	3
EEN 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 (PS Elective)*	3
	People and Society Cognate (PS Elective)*	3		People and Society Cognate (Adv. PS Elective)*	3
	Humanities and Arts Cognate (Adv. HA Elective)**	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