



Mechanical Engineering Department, Bulletin Year 2009-2010

Acoustical Engineering and Music B.S.E.

Course Name	<i>Fall</i>	Credit Hours	Course Name	<i>Spring</i>	Credit Hours	
SEMESTER 1			SEMESTER 2			
M 144 Calculus I		4	M 145 Calculus II		4	
RPW 110 Rhetoric & Writing I		3	PHY 112 Calculus Based Physics I		4	
ES 101 Engineering Freshman Dialogue		1	ES 115 Eng. Computer Applications		3	
ES 143 Engineering & Design		3	TH 112 Chromatic Harmony		2	
TH 111 Diatonic Harmony		2	TH 121 Elementary Ear Training II		2	
TH 120 Elementary Ear Training I		2	Private Music Instruction		2	
Private Music Instruction		2	Performing Organization		1	
Performing Organization		1				
SEMESTER TOTALS		18	SEMESTER TOTALS		18	
SEMESTER 3			SEMESTER 4			
ES 262 Intro Musical/Architectural Acoustics		3	M 242 Differential Equations		3	
M 240 Calculus of Several Variables		4	ES 211 Dynamics		3	
PHY 113 Calculus Based Physics II		4	ES 212 Mechanics of Materials		3	
ES 110 Statics		3	ES 242 Engineering by Design		3	
TH 220 Intermediate Ear Training I or AFR 342		2	AUCS 340 Ethics in the Profession		3	
Private Music Instruction		2	TH 210 Tonal Form		2	
Performing Organization		1	Private Music Instruction		2	
SEMESTER TOTALS		19	SEMESTER TOTALS		19	
SEMESTER 5			SEMESTER 6			
CH 110 College Chemistry I		4	ME 350 Vibrations I with Applications		3	
ECE 210 Intro to Electrical Engineering		3	PHY 260 Optics		4	
ES 220 Graphic Communication		2	ECE 360 Circuits and Electronics		4	
ME 213 Mech. Eng. Matls. And Lab		3	[ES 221 Advanced CAD		3]	
MPT 450 Sound Technology I		3	MPT 451 Sound Technology II		3	
Private Music Instruction		2	Private Music Instruction		2	
Performing Organization		1				
SEMESTER TOTALS		18	SEMESTER TOTALS		16	
SEMESTER 7			SEMESTER 8			
ME 460 Engineering and Envir. Acoustics		3	ME 502 Noise Control Design		3	
ES 320 Thermal - Fluids Engineering		4	ES 493 Engineering Research or ME 503 Vibs II		3	
AUCW 180 Western Heritage		3	PE Professional Elective		3	
M 344 AEM		3	HLM 200 World Music Survey		3	
AFR 131 Afro-American Music		3	Private Music Instruction		2	
Private Music Instruction		2	Performing Organization		1	
Performing Organization		1				
SEMESTER TOTALS		19	SEMESTER TOTALS		15	
					PROGRAM TOTALS	142

Acoustics is the study of sound, and by extension, Acoustical Engineering is a branch of engineering concerned with controlling unwanted sounds and generating useful sounds. Since the process involves the sense of hearing, therein lies the synergy of the course work taken at The Hartt School. Courses in ear training, private music lessons, orchestra, etc., enable our students to become better listeners, and thus enhance their abilities as acousticians. Whether designing a lecture hall for high speech intelligibility, or designing a quieter machine, a well trained ear can play a role in confirming, scrutinizing and critiquing the success of the design.

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