# **MECHANICAL ENGINEERING - Class of 2018**

Total Credits = 122

### Freshman Year Fall Semester

Course Code	ourse Code Description		
CHM 101	General Chemistry I Lec [GE-N]	3	
CHM 102	General Chemistry I Lab	1	
EGR 105	Foundations of Engineering I	1	
MTH 141	Intro Calculus w/Analytic Geom [GE-MQ]	4	
	General Education Elective*	3	
	General Education Elective*	3	

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### Freshman Year Spring Semester

	Course Code	Description	Cr	
	ECN 201	Principles of Microeconomics [GE-S]	3	
	EGR 106	Foundations of Engineering II	2	
	MTH 142	Intermed Calc with Analytic Geom [GE-MQ]	4	
	PHY 203	Elementary Physics I Lect [GE-N]	3	
ı	PHY 273	Elementary Physics I Lab [GE-N]	1	
		General Education Elective*	3	

## Sophomore Year Fall Semester

Course Code	Description	Cr	
ISE 240	Mfg Processes and Systems	3	
ISE 241	Mfg Processes and Systems Laboratory	1	
MCE 201	Engineering Graphics	3	
MCE 262	Statics	3	
MTH 243	Calculus for Functions of Several Vars	3	
PHY 204	Elementary Physics II Lec [GE-N]	3	
PHY 274	Elementary Physics II Lab [GE-N]	1	

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## Sophomore Year Spring Semester

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Course Code	Description	Cr				
CVE 220	Mechanics of Materials	3				
ISE 220	Indust and Systems Engrg Seminar**	1				
MCE 263	Dynamics	3				
MTH 244	Differential Equations	3				
PHY 205	Elementary Physics III Lec [GE-N]	3				
PHY 275	Elementary Physics III Lab [GE-N]	1				

#### Junior Year Fall Semester

Course Code	Description	Cr	
CHE 333	Engineering Materials	3	
MCE 301	Application of Mechanics in Design	3	
MCE 341	Fundamentals of Thermodynamics	3	
MCE 354	Fluid Mechanics	3	
MCE 372	Engineering Analysis I	3	

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	Senior Year <i>Fall</i> Semester							
Course Code	Course Code Description							
MCE 401	Mechanical Engrg Capstone Design I	3						
MCE 414	3							
	Professional Elective**							
	Professional Elective**	3						
	General Education Elective*	3						
		15						

Junior Year Spring Semester

Course Code	Description	Cr	
ELE 220	Passive and Active Circuits		
MCE 302	Design of Machinery	3	
MCE 313	ntro to MCE Experimentation		
MCE 348	Heat and Mass Transfer	3	
MCE 366	System Dynamics	3	
		15	

## Senior Year Spring Semester

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Course Code	Description	Cr	
MCE 402 Mechanical Engrg Capstone Design II		3	
	Professional Elective**	3	
Professional Elective**		3	
	General Education Elective*	3	
	Free Elective	3	
		15	

<sup>\*</sup> Note: Refer to specific Mechanical Engineering General Education course requirements (see 2018 MCE Check Sheet).

<sup>\*\*</sup> Professional Electives: Must be satisfied by a minimum of three (3) three (3)-credit MCE courses (no more than two (2) courses from the MCE47\*/CHE47\* series), two (2) of which must be taken at URI; the fourth course may be a 300-, 400-, or 500-level course offered by the College of Engineering, CHM, CSC, or PHY; or a 400 or 500-level MTH course. Professional elective courses taken outside URI are subject to URI transfer credit rules and require prior written approval.

Name	ID#	

## **MECHANICAL ENGINEERING - Class of 2018**

**Total Credits = 122** 

	SPECI				ENCE, A	AND E	NGINEERING COURSES		iai Citt		
	INTRODUCTORY EN	IGINEE	ERING				ENGINEERING SCIEN	CE AND	DESIGN	1	
Sem	Course	Cr	Grade	QP	Note	Sem	Course	Cr	Grade	QP	Note
	EGR 105	1					CHE 333	3			
	EGR 106	2					CVE 220	3			
		3					ELE 220	3			
	MATHEMA	ΓICS					ISE 220	1			
	MTH 141 [GE-MQ]	4					ISE 240	3			
	MTH 142 [GE-MQ]	4					ISE 241	1			
	MTH 243	3					MCE 201	3			
	MTH 244	3					MCE 262	3			
		14					MCE 263	3			
	NATURAL SCI	ENCES	-				MCE 301	3			
	CHM 101 [GE-N]	3					MCE 302	3			
	CHM 102	1					MCE 313	3			
	PHY 203 [GE-N]	3					MCE 341	3			
	PHY 273 [GE-N]	1					MCE 348	3			
	PHY 204 [GE-N]	3					MCE 354	3			
	PHY 274 [GE-N]	1					MCE 366	3			
	PHY 205 [GE-N]	3					MCE 372	3			
	PHY 275 [GE-N]	1					MCE 401 [capstone]	3			
	The late of the la						MCE 402 [capstone]	3			
							MCE 414	3			
							I MCL 111	56			<u> </u>
							*PROFESSIONAL		VES		
								3			
								3			<b>—</b>
								3			
								3			
	I	16						12			
		G	ENER	AL EI	DUCAT	ION [C	GE] COURSES				
	BREADT	н					DEPTI				
	At least one course in each		en Ed A	reas		A	at least one additional course in				18
		,					Remainder are taken in an	y Gen Ed			1
Sem	Course		Grade		Note	Sem	Course	Cr	Grade	QP	Note
	**English Communicatio	n- <i>Writin</i>	g [GE-EC	[w]			Natural Science				
	WRT	3					Satisfied by Required Courses				
	Mathematical and Quantitati	ve Reas	oning [G	E-MQ]			Mathematical and Quantitat	tive Reaso	oning [GE	E-MQ]	
	Satisfied by MTH 141	4					Satisfied by MTH 142	4			
	Fine Arts & Litera	ture [GE	[-A]				**One additional course from	· FC/FC	w· A· FC	9.1.	
		3					one additional course from	LCIEC	, A, FC	, 1, 5	
	Foreign Language/C	ulture [G	E-FC]				[GE-EC/ECw; A; FC; L	; s <sub>]</sub> 3			
		3					Free Elec	tive			
	Letters [GF	-L]						3			
		3					Other Courses (not fo	or degree	credit)		
	Natural Science	s [GE-N]									
	Satisfied by CHM 101	3									
	Social Sciences	[GE-S]									
	ECN 201	3									

<sup>\*</sup> Professional Electives: Must be satisfied by a minimum of *three (3) three (3)-credit* elective MCE courses (no more than *two (2)* courses from the MCE47\*/CHE47\* series), *two (2)* of which must be taken at URI; the *fourth* course may be a 300-, 400-, or 500-level course offered by the College of Engineering, CHM, CSC, or PHY; or a 400-, or 500-level MTH course. Professional elective courses taken outside URI are subject to URI transfer credit rules and require prior written approval.

 $<sup>{}^{**}\ \</sup> Note\ the\ following\ \textit{specific}\ requirements\ and\ restrictions\ for\ General\ Education\ [GE]\ electives:$ 

<sup>-[</sup>GE-ECw] Must take at least one (1) General Education course in writing [GE-ECw].

<sup>-[</sup>GE-ECw] Can only take one (1) of the following 100-level writing courses for General Education credit [GE-ECw]: WRT 104, WRT 105, WRT 106.