

# MECHANICAL ENGINEERING - Class of 2015

Total Credits = **122**

## Freshman Year *Fall* Semester

Course Code	Description	Cr	
CHM 101	General Chemistry I Lec [GE-N]	3	
CHM 102	General Chem I Lab	1	
EGR 105	Foundations of Engineering I	1	
MTH 141	Intro Calculus w/Analytic Geom [GE-MQ]	4	
PHY 203	Elementary Physics I Lect [GE-N]	3	
PHY 273	Elementary Physics I Lab [GE-N]	1	

**13**

## 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 204	Elementary Physics II Lecture [GE-N]	3	
PHY 274	Elementary Physics II Lab [GE-N]	1	
	General Education Elective*	3	

**16**

## Sophomore Year *Fall* Semester

Course Code	Description	Cr	
ISE 240	Manufacturing Processes	3	
ISE 241	Manufacturing Processes	1	
MCE 201	Engineering Graphics	3	
MCE 262	Statics	3	
MTH 243	Calculus for Functions of Several Vars	3	
PHY 205	Elementary Physics III Lecture [GE-N]	3	
PHY 275	Elementary Physics III Lab [GE-N]	1	

**17**

## Sophomore Year *Spring* Semester

Course Code	Description	Cr	
CVE 220	Mechanics of Materials	3	
ELE 220	Passive and Active Circuits	3	
ISE 220	Indust and Systems Engrg Seminar	1	
MCE 263	Dynamics	3	
MTH 244	Differential Equations	3	
	General Education Elective*	3	

**16**

## 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	

**15**

## Junior Year *Spring* Semester

Course Code	Description	Cr	
MCE 302	Design of Machinery	3	
MCE 313	Intro to MCE Experimentation	3	
MCE 348	Heat and Mass Transfer	3	
MCE 366	System Dynamics	3	
	General Education Elective*	3	

**15**

## Senior Year *Fall* Semester

Course Code	Description	Cr	
MCE 401	Mechanical Engrg Capstone Design I	3	
MCE 414	Mechanical Engineering Experimentation	3	
	Professional Elective**	3	
	Professional Elective**	3	
	General Education Elective*	3	

**15**

## Senior Year *Spring* Semester

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**

\* Note the following *specific* requirements and restrictions for General Education [GE] electives:

-Refer to *specific* Mechanical Engineering General Education *course requirements* (see 2015 MCE Check Sheet).

Note the following *specific* requirements and restrictions for General Education [GE] electives:

-[GE-ECw] *Must* take at least *one (1)* General Education course in *writing* [GE-ECw].

-[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.

\*\* **Professional Electives** must include *three (3) three (3)*-credit courses in **MCE** (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 300-500 level course offered by the College of Engineering.

