

**Degree Progress Guide / Mechanical Engineering- Fall 2018 and after Cohort**

Suggested Semester	Course Code & Title	Prerequisites	Credits	Semester Completed
1 <sup>st</sup>	SCI 101 (Life Science)	No Prerequisites	2	
	SCIL 101 (Life Science Lab)	No Prerequisites	1	
	CIV 101 (The Ancient World-History)	No Prerequisites	3	
	MTH 133 (Pre-calculus)	MTH 101 or Placement in MTH 133	4	
	CSC 101 (Computer Science and IT Applications)	No Prerequisites	3	
	ENG 101 (Argument)	No Prerequisites	3	
2 <sup>nd</sup>	ENG 102 (Critical Reading)	ENG 101	3	
	CIV 102 (The Modern World-History)	CIV 101	3	
	MTH 232 (Calculus I)	MTH 133	4	
	SCI 102 (Physical Science)	MTH 101 or Placement in MTH 133	3	
3 <sup>rd</sup>	PHYS 232 (Calculus Based Physics I)	SCI 102, MTH 232	4	
	CIV 203 (Civilization III: The Ancient World (Humanities))	CIV 102	3	
4 <sup>th</sup>	CIV 204 (Civilization IV: The Modern World (Humanities))	CIV 203	3	
5 <sup>th</sup>	Core Option: Humanities, Social Science	See Course Descriptions	3	
6 <sup>th</sup>	ENG 213 (Technical Writing)	ENG 102	3	
	<b>TOTAL /</b>		<b>45 Credits</b>	

**How to complete:**

This document is a guide to degree requirements; filling it out is recommended but is not required.

Mark completed courses by writing in the semester of completion.

**Varied degree paths:**

Refer to "semester" column above for order of study plan; exact degree path may vary, but pre-requisites must be met unless a special exception is granted. Student degree paths may vary slightly from this form. If academic record differs from the courses listed in this form, please contact Registrar's Office during advising week for clarification.

**Mechanical Engineering Courses:**

1. ENGR 432 ( Component Design)
2. ENGR 433 ( Machine Design)
3. ENGR 413 ( Manufacturing Systems)

**TOTAL CREDITS**
**CORE ..... / 45**
**MAJOR ...../ 95**
**TOTAL ..... / 140**

Suggested Semester	Course Code & Title	Prerequisites	Credits	Semester Completed
2 <sup>nd</sup>	ENGR 230 (Engineering Drawing)	CSC 101	3	
3 <sup>rd</sup>	CHEM 232 (Chemistry I)	MTH 133, SCI 102	4	
	MTH 233 (Calculus II)	MTH 232	4	
	ENGR 244 (Engineering Computing)	CSC 101, MTH 133	3	
4 <sup>th</sup>	ENGR 344 (Mechanics I)	PHYS 232	3	
	PHYS 233 (Calculus Based Physics II)	PHYS 232, MTH 232	4	
	MTH 331 (Calculus III)	MTH 233	4	
	ENGR 352 (Thermodynamics)	PHYS 232, CHEM 232, CSC 101	3	
5 <sup>th</sup>	MTH 332 (Differential Equations and Linear Algebra)	MTH 233	4	
	ENGR 354 (Materials Science)	CHEM 232 Co-requisite: PHYS 233	3	
	ENGR 231 (Fabrication Shop)	No Prerequisite	2	
	ENGR 358 (Mechanics of Materials)	ENGR 344	3	
	ENGR 348 (Mechanics II)	ENGR 344, Co-requisite: MTH 332	4	
6 <sup>th</sup>	ENGR 356 (Fluids)	ENGR 344, MTH 331, MTH 332	4	
	ENGR 390 (Circuits)	PHYS 233, MTH 233	4	
	ENGR 313 (Measurements Laboratory)	PHYS 233, CHEM 232	2	
	ENGR 432 (Component Design)	ENGR 230, ENGR 354, ENGR 358	3	
	ENGR 444 (Engineering Economics)	MTH 232	3	
	ENGR 442 (Engineering Statistics)	MTH 332	3	
	ENGR 433 (Machine Design)	ENGR 358	3	
7 <sup>th</sup>	ENGR 452 (Transport Phenomena)	ENGR 356	3	
	ENGR 491 (Design I)	7 <sup>th</sup> Semester or higher	3	
	ENGR 453 (Application of Thermodynamics)	ENGR 352	3	
	ENGR 413 (Manufacturing Systems)	ENGR 230, ENGR 354	3	
	ENGR 484 (Engineering Laboratory)	ENGR 442, ENG 213	3	
8 <sup>th</sup>	ENGR 492 (Design II)	ENGR 491	2	
	ENGR 461 (Control Systems and Automation)	ENGR 313, ENGR 390	3	
	ENGR 490 (Engineering Internship)	Senior Standing	3	
	ENGR Elective	Senior Standing	3	
	Engineering Elective	Senior Standing	3	
	<b>TOTAL /</b>		<b>95 Credits</b>	

- Engineering electives are 300+ engineering courses.
- Students can interchange/swap PHYS 232 and CHEM 232.