

# MECHANICAL ENGINEERING DEPARTMENT - BS Degree Program

SUGGESTED GRADUATION PLAN - 2021-2022

*Note: The Progress Report for each student lists their official requirements*

Course Key	
Course #	hrs
Course Title	
Prerequisites p: prerequisites	
c: concurrent	
* GE's fulfilled	
When Offered: FWSS	

	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8
University Core	First-Year Writing Requirement 3	American Heritage Requirement 3				Civilization 1 Elective 3	Civilization 2 Elective 3 *Arts or Letters	Remaining Arts or Letters Elective 3
	Religion Cornerstone Requirement 2	Religion Cornerstone Requirement 2	Religion Cornerstone Requirement 2		Religion Cornerstone Requirement 2	Religion Elective 2	Religion Elective 2	Religion Elective 2
Major Requirements	Math 112 Calculus 1 Math 110, 111 *QR & LL FWSS 4	Math 113 Calculus 2 Math 112 FWSS 4	Math 302 Engr Math 1 Math 113 FW 4	Math 303 Engr Math 2 Math 302 FW 4	Stat 201 Statistics Math 112 FWSp 3	Wrtg 316 Tech Writing 1st Yr Writing *ADV WRI FWSS 3	MeEn 475 Integrated Product & Process Design 1 Preqs below F 3	MeEn 476 Integrated Product & Process Design 2 Preqs below W 3
	Phscs 121 Newtonian Mech Math 112 p,c *Phy Sci FWSp 3	Chem 105 General Chemistry Math 110 *Phy Sci FWSS 4	Phscs 123 Waves, Optics, Thermo Phscs 121, Math 112 FWSp 3	EcEn 301 Elem Elec Eng Math 113 FWSp 3	MeEn 321 Thermodynamics Phscs 123, Chem 105 FWSp 3	MeEn 312 Fluid Mech MeEn 321, ME 335 Math 303/334 FWSu 3	MeEn 340 Heat Transfer ME 321 FSp 3	Technical Elective 3
	MeEn 191 New Student Seminar 0.5 FW	MeEn 101 Intro to ME/Statics Phscs 121, Math 112 FWSp 3	CCE 203 Mech of Materials MeEn 101 FW 3	MeEn 273 Computing Math 302 or 314 p,c Math 113 FWSp 3	Me En 335 Dyn systems MeEn 273, CeEn 204 EcEn301 Math 303/334 p,c FW 3	MeEn 362 Measurements MeEn 330, ME 335 Stat 201 Wrtg 316 p,c FWSu 3	Technical Elective 3	Technical Elective 3
	Bio 100 or MMBio 221 PDBio 120 MMBio 240 3 *Bio-Science		CE 204 Dynamics MeEn 101 *Phy Sci FWSp 3	MeEn 250 Materials Science Chem 105 FWSp 3	MeEn 330 Mechatronics EcEn 301, MeEn 273 MeEn 335 p,c FW 3	MeEn 372 Mech Sys Des CEEn 203, MeEn 250 FWSp 3	Technical Elective 3	
		MeEn 231 Global Ldrshp *Soc Sci & GCA FWSp 3	MeEn 272 CAD FWSp 3	MeEn 382 Mfg Process MeEn 250, MeEn 272 FWSu 3				
Credits	15.5	16.0	18.0	16.0	17.0	17.0	17.0	14.0 Total:130.5

### Applying to the Program

- Complete designated courses above or alternate courses listed on me.byu.edu
- Following completion of courses, submit application at me.byu.edu

### Alternate Math Courses

- |  |   |
|--|---|
| Math 213 - Elem Linear Algebra - FWSS    | 2 |
| Math 314 - Calc of Sev Variables - FWSS  | 3 |
| Math 334 - Differential Equations - FWSS | 3 |

### Credits

### Technical Elective Courses

- 4 courses (12 hrs) required
- At least 2 ME courses
- No duplicates of required courses
- 3 Credit-hr max in project classes

### TE list:

<https://www.me.byu.edu/technical-elective-options>

### Int Product & Process Design Prerequisites

- Must be taken consecutive Fall/Winter semesters
- No more than apx. 30 hours left in the Major
- 475 pre-reqs: MeEn 382, MeEn 330, MeEn 335, MeEn 372
- 476 pre-reqs: MeEn 312, MeEn 362, MeEn 475, MeEn 340