

MECHANICAL ENGINEERING DEPARTMENT - BS Degree Program

SUGGESTED GRADUATION PLAN - 2022-2023

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 *Arts or Letters 3	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 <i>Math 110, 111</i> *QR & LL FWSS 4	Math 113 Calculus 2 <i>Math 112</i> FWSS 4	Math 302 Engr Math 1 <i>Math 113</i> FW 4	Math 303 Engr Math 2 <i>Math 302</i> FW 4	Stat 201 Statistics <i>Math 112</i> FWSp 3	Wrtg 316 Tech Writing <i>1st Yr Writing</i> *ADV WRI FWSS 3	MeEn 475 Integrated Product & Process Design 1 <i>Prqs below</i> F 3	MeEn 476 Product Development Capstone 2 <i>Prqs below</i> W 3
	Phscs 121 Newtonian Mech <i>Math 112 p,c</i> *Phy Sci FWSp 3	Chem 105 General Chemistry <i>Math 110</i> *Phy Sci FWSS 4	Phscs 123 Waves, Optics, Thermo <i>Phscs 121, Math 112</i> FWSp 3	EcEn 301 Elem Elec Eng <i>Math 113</i> FWSp 3	MeEn 321 Thermodynamics <i>Phscs 123, Chem 105</i> FWSp 3	MeEn 312 Fluid Mech <i>MeEn 321, ME 335</i> <i>Math 303/334</i> FWSu 3	MeEn 340 Heat Transfer <i>ME 321</i> FSp 3	Technical Elective 3
	MeEn 191 New Student Seminar 0.5 FW 0.5	MeEn 101 Intro to ME/Statics <i>Phscs 121, Math 112</i> FWSp 3	CCE 203 Mech of Materials <i>MeEn 101</i> FW 3	MeEn 273 Computing <i>Math 302 or 314 p,c</i> <i>Math 113</i> FWSp 3	MeEn 335 Dyn systems <i>MeEn 273, CE 204</i> <i>EcEn301</i> <i>Math 303/334 p,c</i> FW 3	MeEn 362 Measurements <i>MeEn 330, ME 335</i> <i>Stat 201</i> <i>Wrtg 316 p,c</i> FWSu 3	Technical Elective 3	Technical Elective 3
	Bio 100 or MMBio 221 or Cell 120 or MMBio 240 } *Bio-Science 3		CE 204 Dynamics <i>MeEn 101</i> *Phy Sci FWSp 3	MeEn 250 Materials Science <i>Chem 105</i> FWSp 3	MeEn 330 Mechatronics <i>EcEn 301, MeEn 273</i> <i>MeEn 335 p,c</i> FW 3	MeEn 372 Mech Sys Des <i>CCE 203, MeEn 250</i> FWSp 3	Technical Elective 3	
		MeEn 231 Global Ldrshp *Soc Sci & GCA FWSp 3	MeEn 272 CAD FWSp 3	MeEn 382 Mfg Process <i>MeEn 250, MeEn 272</i> 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/apply
- Following completion of courses, submit application at me.byu.edu/apply

Alternate Math Courses

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

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-electives>

Int Product & Process Design Prerequisites

- 475 Prereqs: MeEn 330, MeEn 3335, MeEn 372, MeEn 382
- 476 Prereqs: MeEn 312, MeEn 362, MeEn MeEn 340, MeEn 475