Mechanical Engineering Curriculum

Students entering major FA19 and later

(Option B: last Name begins with L-Z)

eminar				
eminar		SEMESTER 2		•
eminar	Credits	Course		Credits
· · · ·	1	Sci elective	Science Elective (See below)	3
d Composition	3	ECON 102/104	Micro or Macro Economics (GS)	3
n to Engineering Design	3	MATH 141*	Calc with Analytic Geometry II	4
GS)	3	AHS course	(GA, GH, or GS)	3
th Analytic Geometry I	4	PHYS 211*	Mechanics	4
rinciples	3			
ster Credits	17		Total Semester Credits	17
		SEMESTER 4		
	Credits	Course		Credits
	3	E MCH 212*	Dynamics	3
eech	3	E MCH 213*	Strength of Materials	3
	3	M E 300*	Engineering Thermodynamics I	3
d Partial Differential Eq.	4	MATH 231	Calculus of Several Variables	2
nd Magnetism	4	MATH 220	Matrices	2
		AHS course	(GA/GH/GS)	3
ster Credits	17		Total Semester Credits	16
		SEMESTER 6		
	Credits	Course		Credits
/riting	3	I E 312	Product Design & Mfg Processes	3
GS)	3	MATSE 259	Properties & Processing of Engr. Mat'l.	3
. Design Methodology	3	M E 330*	Computational Tools	3
Design	3	M E 370*	Vibrations of Mechanical Systems	3
	3	M E 348*	Circuit Analysis, Inst. and Stat.	4/3^
	1.5	ME 490	Professional Dev for ME	0.5
alth and Wellness	0.5			
alth and Wellness Career Dev for ME			Total Semester Credits	16.5/15.5
	17		Total Semester Credits	,
Career Dev for ME	17	SEMESTER 8	Total Semester Credits	
Career Dev for ME	17 Credits	SEMESTER 8 Course	Total Semester Credits	Credits
Career Dev for ME			Engineering Technical Elective	
Career Dev for ME ster Credits	Credits	Course		Credits
c Career Dev for ME ster Credits roject	Credits	Course ETE	Engineering Technical Elective	Credits 3
c Career Dev for ME ster Credits roject GS)	Credits 3 3	Course ETE M E 410*	Engineering Technical Elective Heat Transfer	Credits 3 3
cCareer Dev for ME ster Credits roject GS) ics	Credits 3 3 3	Course ETE M E 410* M E 450*	Engineering Technical Elective Heat Transfer Modeling of Dynamic Systems	Credits 3 3 3
cCareer Dev for ME ster Credits roject GS) cs chnical Elective	Credits	Course ETE M E 410* M E 450* METE	Engineering Technical Elective Heat Transfer Modeling of Dynamic Systems M E Technical Elective	Credits 3 3 3 3
c Care ster C roject GS)		Credits 3 3 3 3	SEMESTER 8 Credits 3 ETE 3 M E 410* 3 M E 450*	SEMESTER 8 Credits Course 3 ETE Engineering Technical Elective 3 M E 410* Heat Transfer 3 M E 450* Modeling of Dynamic Systems

^{*}C or higher required

- Science elective choices: CHEM 112, BIOL 141, or CHEM 111 and PHYS 214 (3 credits total)
- Completion of E MCH and MATH courses before the 5th semester is important for future course sequencing.
- E MCH 210 or E MCH 210H is not a direct substitute for E MCH 211 and 213 requirements and should not be taken for ME_BS
- Details on the METE, ETE and GTE (including use of 3 completed internship credits) can be found at https://www.me.psu.edu/students/undergraduate/curriculum-electives.aspx
- Students must take 3 credits of United State Cultures (US) and 3 credits of International Cultures (IL) and 6 credits integrative studies (Interdomain or Linked) in conjunction with AHS courses.

[^] ME 348 3-credit will be offered starting fall 2022