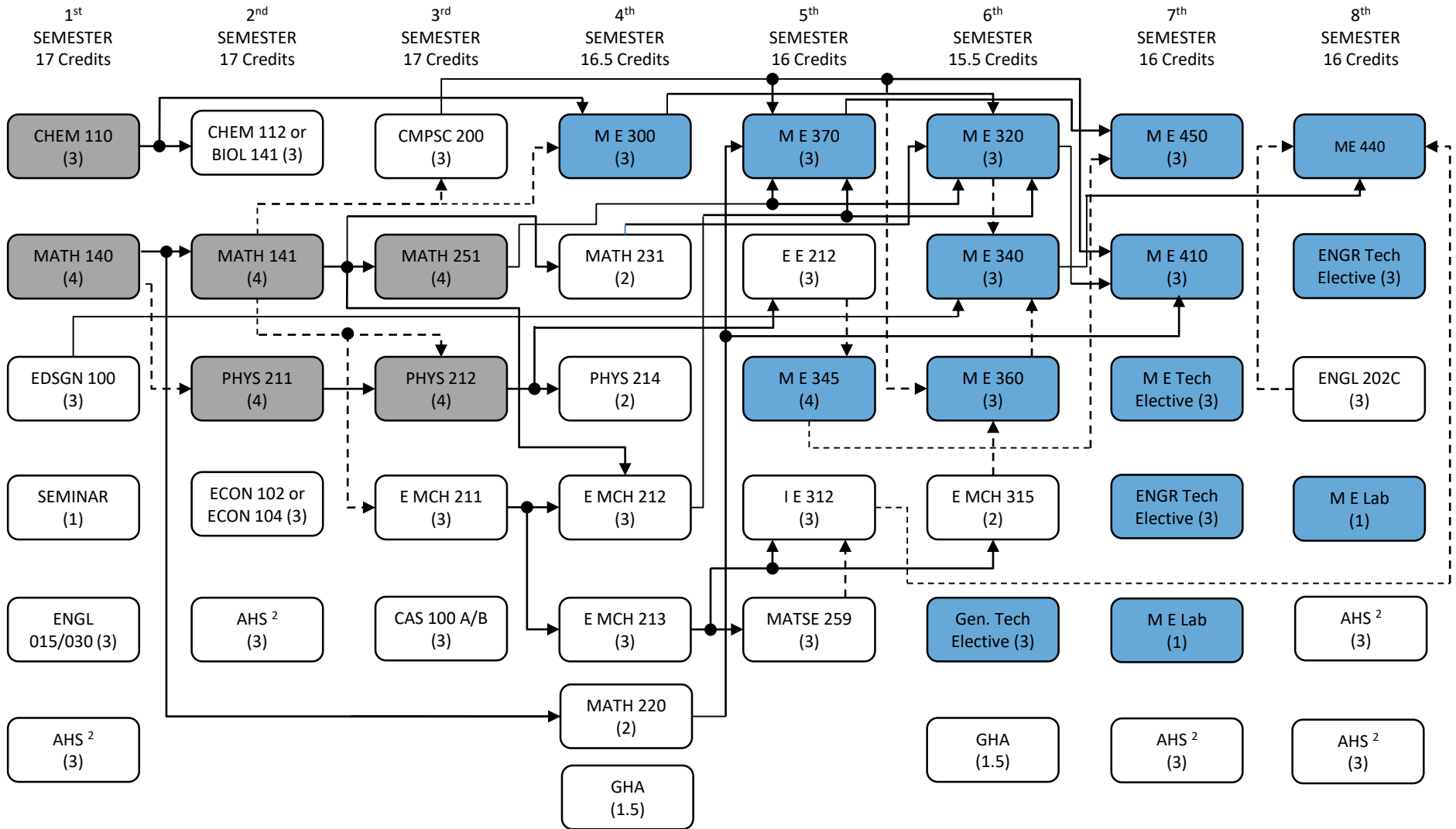


MECHANICAL ENGINEERING CURRICULUM (Option A: last Name begins with A-K)

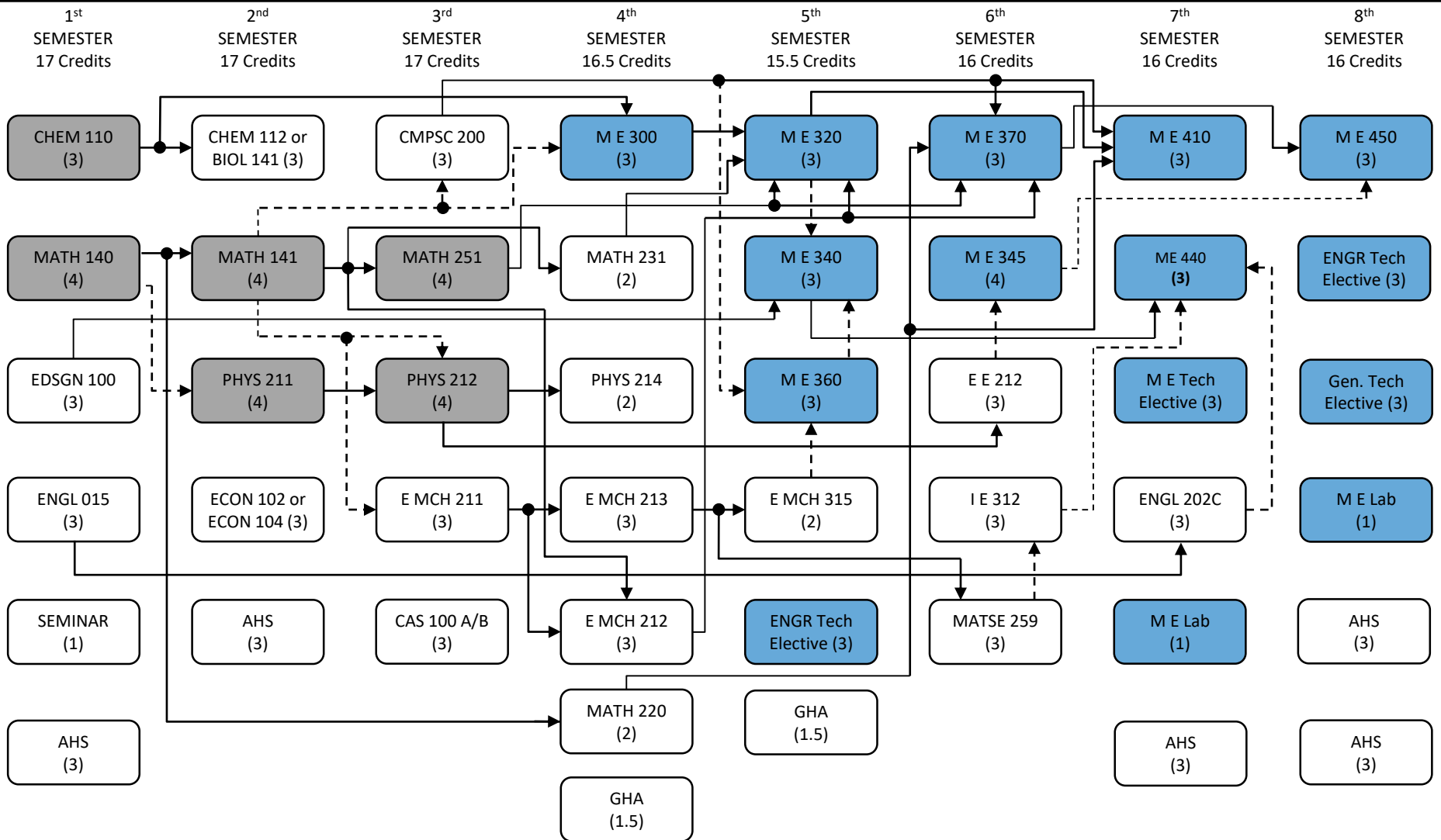


BIOL 141 may be substituted for CHEM 112

US Cultures and IL Cultures requirements are satisfied in conjunction with AHS courses.

*Courses shaded in BLUE used for the In-major GPA calculation.

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



BIOL 141 may be substituted for CHEM 112

US Cultures and IL Cultures requirements are satisfied in conjunction with AHS courses.

*Courses shaded in BLUE are used for the In-major GPA calculation.

Mechanical Engineering Curriculum

Students entering major SU19 and earlier

(Option A: last Name begins with A-K)

SEMESTER 1			SEMESTER 2		
Course		Credits	Course		Credits
FYS	First Year Seminar	1	CHEM 112	Chemical Principles II	3
ENGL 015	Rhetoric and Composition	3	ECON 102/104	Micro or Macro Economics (GS)	3
EDSGN 100	Introduction to Engineering Design	3	Math 141	Calc with Analytic Geometry II	4
AHS course	(GA, GH, or GS)	3	AHS course	(GA, GH, or GS)	3
MATH 140	Calculus with Analytic Geometry I	4	PHYS 211	Mechanics	4
CHEM 110	Chemical Principles	3			
		Total Semester Credits			17
SEMESTER 3			SEMESTER 4		
Course		Credits	Course		Credits
CMPS 200	MATLAB	3	E MCH 212	Dynamics	3
CAS 100A/B	Effective Speech	3	E MCH 213	Strength of Materials	3
E MCH 211	Statics	3	PHYS 214	Wave Motion and Quantum Physics	2
MATH 251	Ordinary and Partial Differential Eq.	4	M E 300	Engineering Thermodynamics I	3
PHYS 212	Electricity and Magnetism	4	MATH 231	Calculus of Several Variables	2
		Total Semester Credits			17
SEMESTER 5			SEMESTER 6		
Course		Credits	Course		Credits
E E 212	Intro to Electronic Measuring Systems	3	ETE	Engineering Technical Elective	3
I E 312	Product Design & Mfg Processes	3	E MCH 315	Mechanical Response of Engr. Mat'l.	2
MATSE 259	Properties & Processing of Engr. Mat'l.	3	M E 340	Mech. Engr. Design Methodology	3
M E 370	Vibrations of Mechanical Systems	3	M E 360	Mechanical Design	3
M E 345	Inst. Measurements, and Statistics	4	M E 320	Fluid Flow	3
		Total Semester Credits			16
SEMESTER 7			SEMESTER 8		
Course		Credits	Course		Credits
ETE	Engineering Technical Elective	3	ENGL 202C	Technical Writing	3
AHS course	(GA, GH, or GS)	3	AHS course	(GA, GH, or GS)	3
M E 410	Heat Transfer	3	AHS course	(GA, GH, or GS)	3
M E 450	Modeling of Dynamic Systems	3	GTE	General Technical Elective	3
METE	M E Technical Elective	3	M E Lab	Choose ME 315, 325, 355 or 375	1
M E Lab	Choose ME 315, 325, 355, 375	1	M E 440	Senior Capstone Project	3
		Total Semester Credits			16
SEMESTER 2			SEMESTER 4		
Course		Credits	Course		Credits
			E MCH 212	Dynamics	3
			E MCH 213	Strength of Materials	3
			PHYS 214	Wave Motion and Quantum Physics	2
			M E 300	Engineering Thermodynamics I	3
			MATH 231	Calculus of Several Variables	2
			MATH 220	Matrices	2
			GHA	Health/Physical Activity	1.5
		Total Semester Credits			16.5

- Courses listed in **boldface italic type** require a C or better for entrance to major.
- Students may substitute BIOL 141 for CHEM 112.
- Courses listed in **boldface type** require a C or better for graduation in this major.
- An Engineering Technical Elective is any three credit, 400-level engineering course NOT required for the major.
- To graduate, two of the following lab courses must be taken: ME 315, 325, 355 or 375 and EMCH 316.
- A Mechanical Engineering Technical Elective (METE) is any three-credit, 400-level ME or NUC E course that is not required for the major. ME 494 or ME 496 may not be used.
- Three credits of co-op may also be used for the GTE after completion of three co-op rotations, internships, or a combination of both
- Students must take 3 credits of United State Cultures (US) and 3 credits of International Cultures (IL)

Mechanical Engineering Curriculum

Students entering major SU19 and earlier
(Option B: last Name begins with L-Z)

SEMESTER 1			SEMESTER 2		
Course		Credits	Course		Credits
FYS	First Year Seminar	1	CHEM 112	Chemical Principles II	3
ENGL 015	Rhetoric and Composition -or-	3	ECON 102/104	Micro or Macro Economics (GS)	3
EDSGN 100	Introduction to Engineering Design	3	Math 141	Calc with Analytic Geometry II	4
AHS course	(GA, GH, or GS)	3	AHS course	(GA, GH, or GS)	3
MATH 140	Calculus with Analytic Geometry I	4	PHYS 211	Mechanics	4
CHEM 110	Chemical Principles	3			
		Total Semester Credits			17
SEMESTER 3			SEMESTER 4		
Course		Credits	Course		Credits
CMPS 200	MATLAB	3	E MCH 212	Dynamics	3
CAS 100A/B	Effective Speech	3	E MCH 213	Strength of Materials -or-	3
E MCH 211	Statics	3	PHYS 214	Wave Motion and Quantum Physics	2
MATH 251	Ordinary and Partial Differential Eq.	4	M E 300	Engineering Thermodynamics I	3
PHYS 212	Electricity and Magnetism	4	MATH 231	Calculus of Several Variables	2
		Total Semester Credits	MATH 220	Matrices	2
		17	GHA	Health/Physical Activity	1.5
					Total Semester Credits
					16.5
SEMESTER 5			SEMESTER 6		
Course		Credits	Course		Credits
ETE	Engineering Technical Elective	3	E E 212	Intro to Electronic Measuring Systems	3
E MCH 315	Mechanical Response of Engr. Mat'l.	2	I E 312	Product Design & Mfg Processes	3
M E 340	Mech. Engr. Design Methodology	3	MATSE 259	Properties & Processing of Engr. Mat'l.	3
M E 360	Mechanical Design	3	M E 370	Vibrations of Mechanical Systems	3
M E 320	Fluid Flow	3	M E 345	Inst. Measurements, and Statistics	4
GHA	Health/Physical Activity	1.5			
		Total Semester Credits			16
		15.5			
SEMESTER 7			SEMESTER 8		
Course		Credits	Course		Credits
ENGL 202C	Technical Writing	3	M E 450	Modeling of Dynamic Systems	3
M E 410	Heat Transfer	3	ETE	Engineering Technical Elective	3
AHS course	(GA, GH, or GS)	3	AHS course	(GA, GH, or GS)	3
METE	M E Technical Elective	3	AHS course	(GA, GH, or GS)	3
M E Lab	Choose ME 315, 325, 355 or 375	1	GTE	General Technical Elective	3
M E 440	Senior Capstone Project	3	M E Lab	Choose ME 315, 325, 355 or 375	1
		Total Semester Credits			16
		16			

- Courses listed in **boldface italic type** require a C or better for entrance to major.
- Students may substitute BIOL 141 for CHEM 112.
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- Three credits of co-op may also be used for the GTE after completion of three co-op rotations, internships, or a combination of both
- Students must take 3 credits of United State Cultures (US) and 3 credits of International Cultures (IL)