Mechanical Engineering Curriculum
(Option A: last Name begins with A-K)

SEMESTER 1		
Course		*Credits*
FYS	First Year Seminar	1
ENGL 015	Rhetoric and Composition	3
EDSGN 100	Introduction to Engineering Design	3
AHS course	(GA, GH, or GS)	3
MATH 140	***Calculus with Analytic Geometry I***	4
CHEM 110	***Chemical Principles***	3
	Total Semester Credits	**17**

SEMESTER 2		
Course		*Credits*
CHEM 112	Chemical Principles II	3
ECON 102/104	Micro or Macro Economics (GS)	3
Math 141	***Calc with Analytic Geometry II***	4
AHS course	(GA, GH, or GS)	3
PHYS 211	***Mechanics***	4
MATH 141		
	Total Semester Credits	**17**

SEMESTER 3		
Course		*Credits*
CMPSC 200	MATLAB	3
CAS 100A/B	Effective Speech	3
E MCH 211	**Statics**	3
MATH 251	***Ordinary and Partial Differential Eq.***	*4*
PHYS 212	***Electricity and Magnetism***	4
	Total Semester Credits	**17**

SEMESTER 4		
Course		*Credits*
E MCH 212	**Dynamics**	3
E MCH 213	**Strength of Materials**	3
PHYS 214	Wave Motion and Quantum Physics	1.5
M E 300	**Engineering Thermodynamics I**	3
MATH 231	Calculus of Several Variables	2
MATH 220	Matrices	2
GHA	Health/Physical Activity	2
	Total Semester Credits	**16.5**

SEMESTER 5		
Course		*Credits*
E E 212	Intro to Electronic Measuring Systems	3
I E 312	Product Design & Mfg Processes	3
MATSE 259	Properties & Processing of Engr. Mat'l.	3
M E 370	**Vibrations of Mechanical Systems**	3
M E 345	**Inst. Measurements, and Statistics**	4
	Total Semester Credits	**16**

SEMESTER 6		
Course		*Credits*
ETE	Engineering Technical Elective	3
E MCH 315	Mechanical Response of Engr. Mat'l.	2
M E 340	**Mech. Engr. Design Methodology**	3
M E 360	**Mechanical Design**	3
M E 320	**Fluid Flow**	3
GHA	Health/Physical Activity	1.5
	Total Semester Credits	**15.5**

SEMESTER 7		
Course		*Credits*
ETE	Engineering Technical Elective	3
AHS course	(GA, GH, or GS)	3
M E 410	**Heat Transfer**	3
M E 450	**Modeling of Dynamic Systems**	3
METE	M E Technical Elective	3
M E Lab	Choose ME 315, 325, 355, 375	1
	Total Semester Credits	**16**

SEMESTER 8		
Course		*Credits*
ENGL 202C	Technical Writing	3
AHS course	(GA, GH, or GS)	3
AHS course	(GA, GH, or GS)	3
GTE	General Technical Elective	3
M E Lab	Choose ME 315, 325, 355 or 375	1
M E 440	Senior Capstone Project	3
	Total Semester Credits	**16**

- 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)