4 Year Plan: B.S.M.E in Mechanical Engineering

Updated September 2016

Freshman Year

Fall Semester (17 hrs)	Spring Semester (18 hrs)
MATH 1441 Calculus (4 hrs)	MATH 1441 Calculus II (4 hrs)
ENGL 1101 English Composition I (3 hrs)	ENGL 1102 English Composition II (3 hrs)
ENGR 1133 Engineering Graphics (3hrs)	PHYS 2211 Principles of Physics (4hrs)
CHEM 1147 Comprehensive Chemistry (4hrs)	ENGR 1731 Computing for Engineers (3hrs)
MFG Processes Lab (1hr)	ENGR 2112 Solid Modeling and Analysis (1hr)
FYE 1220 First Year Seminar (2 hrs)	HLTH 1520 Healthful Living (2hrs)
	FYE 1410 Global Citizens (1 hr)
Milestones: ● Complete MATH 1441 ● Complete CHEM 1147 ● Meet Your Advisor ● DO NOT DROP FYE 1220! ● Talk to your advisor about summer! ● Start search for Student Organizations	**Milestones:** ● Complete MATH 2242 with a C or better ● Register and complete PHYS 2211 with a C or better. Email your advisor if you do not get into the class. ● Complete ENGR class requirements for spring semester.

Sophomore Year

Fall Semester (18 hrs)	Spring Semester (16 hrs)
MATH 2243 Calculus III (4 hrs)	ENGR 2232 Dynamics of Rigid Bodies (3 hrs)
PHYS 2212 Principles of PHYS II (4 hrs)	ENGR 3233 Mechanics of Materials (3 hrs)
ENGR 2231 Engineering Mechanics (3 hrs)	MENG 2110 Case Studies in Design and Analysis (1hr)
MATH 3230 Ordinary Differential Equations (3hrs)	MENG 2139 Numerical Methods (3 hrs)
Environmental Science *(PHYS 1149, GEOL 1340, BIOL 1230&1210, CHEM 1040)* (4hrs)	ENGR 2131 Electronics and Circuit Analysis (3 hrs)
	Social Science (*PSYC 1101, SOCI 1101, GEOG 1130, ANTH 1102*)
Milestones: ● Complete all MATH courses ● Complete ENGR 2231 in order to meet next semester Prereqs. ● Complete PHYS 2212 ● Create Resume and start exploring internship/ COOP options ● Talk to your advisor about summer! ● Research faculty research opportunities	**Milestones:** ● Complete all ENGR and MENG courses in this semester in order to avoid time conflicts and Prereqs. ● Look into and interview for COOPs and Internships ● Have resume reviewed by Bridges Adams and Career services. ● Attend STEM and Career Fairs.

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Junior Year

Fall Semester (16hrs)	Spring Semester (17 hrs)
MENG 3331 Materials Science Studio (3 hrs)	MENG 3233 Heat Transfer (3 hrs)
MENG 3135 Machine Design (3 hrs)	MENG 3333 Materials Processing Studio (3 hrs)
ENGR 3431 Thermodynamics (3 hrs)	MENG 3130 Mechanism Design (3 hrs)
ENGR 3235 Fluid Mechanics (3 hrs)	MENG 3521 Mechatronics Studio Lab (2 hrs)
HIST 2110 The United States: A Comprehensive Survey (3hrs)	ECON 2105 Economics (3 hrs)
KINS 1xxx Physical Activity (1 hr)	HIST 1112: World History (3hrs)
Milestones: ● Complete all ENGR and MENG courses with a C or better in order to avoid prereq issues. ● Talk to your advisor about possible COOP and internship positions. ● Talk to your advisor about summer!	**Milestones:** ● Complete final prerequisite courses ● Complete Graduation Clearance paperwork

Senior Year

Fall Semester (16 hrs)	Spring Semester (15 hrs)
MENG 4210 Energy Science Lab (1hr)	MENG 5137 Mechanical System Design (3 hrs)
MENG 4430 ENGR Quality Control & Project MGNT (3hrs)	ME Tech Elective (3 hrs)
MENG 5136 Intro to Finite Element Analysis (3hrs)	MENG 4612 ME Senior Seminar (3 hrs)
ME Tech Elective (3 hrs)	ENGL 2111/2112 Literature/Humanities
KINS 1XXX Physical Activity (1hr)	POLS 1101 Intro to American Government (3hrs)
SACS FREE ELECTIVE (3 hrs)	Fine Arts Elective (3hrs)
Milestones: ● Discuss tech electives with your advisor ● Complete all MENG courses. ● Discuss SACS FREE Elective with Advisor ● Register for all courses necessary for graduation.	**Milestones:** ● Complete Major & Minor Requirements ● Review all graduation requirements with advisor ● GRADUATE!