
























MECHANICAL ENGINEERING, B.S.M.E.





 - General Education Course

 - Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at <https://www.marshall.edu/gened/>.

Code	Title	Credit Hours
Core Curriculum		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
or FYS 100H	First Year Seminar-Honors	
MTH 229 	Calculus/Analytic Geom I (CT)	5
	Critical Thinking Course	3
<i>Core 2</i>		
ENG 101 	Beginning Composition	3
ENG 201  	Advanced Composition	3
CMM 103 	Fund Speech-Communication	3
MTH 229  	Calculus/Analytic Geom I (CT)	5
PHY 211 	University Physics I	5
& PHY 202 	and General Physics I Laboratory	
	Core II Humanities	3
	Core II Social Science	3
	Core II Fine Arts	3
<i>Additional University Requirements</i>		
	Writing Intensive	3
	Writing Intensive	3
	Multicultural or International	3
ME 452	Capstone Design I	1
ME 453 	Capstone Design II	3
Major-Specific		
MTH 229  	Calculus/Analytic Geom I (CT)	5
MTH 230  	Calculus/Analytic Geom II	4
MTH 231 	Calculus/Analytic Geom III	4
MTH 335 	Ordinary Diff Equations	3
CHM 211  	Principles of Chemistry I	3
PHY 211 	University Physics I	4
PHY 202  	General Physics I Laboratory	1
PHY 213 	University Physics II	4
ENGR 102	Introduction to CAD	2
ENGR 103	Freshman Engineering Seminar	1
ENGR 104	The Engineering Profession	1

ENGR 213 	Statics	3
ENGR 214 	Dynamics	3
ENGR 215	Engineering Materials	3
ENGR 216	Mech of Deformable Bodies	3
ENGR 217	Engineering Co-Op Preparation	1
ENGR 219	Engineering Thermodynamics	3
ENGR 222	Engr Cost Analysis & Economy	3
ENGR 335 	Adv Engineering Analysis	3
ME 111	Mech Engineering Computations	3
ME 240	Manufacturing Processes	3
ME 245	Circuits and Instrumentation	3
ME 310	Thermodynamics II	3
ME 325	Experimental Design and Thermo	2
ME 340	Machine Element Design	3
ME 350	Heat Transfer	3
ME 360	Fluid Dynamics	4
ME 410	Kinematics & Design of Machine	3
ME 420	Control Systems	3
ME 425	Mechanical Engineering Lab-II	1
ME 455	Metallurgy	3
ME 452	Capstone Design I	1
ME 453 	Capstone Design II	3
	Design Elective	3

At least one design elective must be taken from the following courses:

ME 430 Design of Thermal Systems

ME 435 Design of Mechanical System

Technical Electives 9

At least three technical electives must be taken from the following approved list of courses:

Any 300-level or higher ME course not taken to satisfy other B.S.M.E. degree requirements

Any 300-level or higher CE, EE, or BME course not taken to satisfy other B.S.M.E. requirements

Any 300-level or higher ENGR course not taken to satisfy other B.S.M.E. degree requirements

Other courses with the approval of the student's advisor and the department chair

¹ To be eligible to take ME 452 Capstone Design I, students must have senior standing in mechanical engineering. Senior standing is defined for the B.S.M.E. as having completed or concurrently taking these three courses: ME 325 Experimental Design and Thermo, ME 350 Heat Transfer, and ME 410 Kinematics & Design of Machine.

² To be eligible to take ME 453 Capstone Design II, students must have completed ME 452 Capstone Design I and at least one of the design electives (ME 430 Design of Thermal Systems or ME 435 Design of Mechanical System).

Major Information

- Course offerings and course attributes are subject to change each semester. Please consult each semester's schedule of courses for availability and attributes.

2 Mechanical Engineering, B.S.M.E.

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.