

Mechanical Engineering Degree Requirements (2020-2021)

The minimum total semester credit hours (credits) required for a BS degree in Mechanical Engineering is **126**.

General Education Core Courses

42 credits

Communication (6 credits): ENGL 1301 and ENGL 1302

Mathematics (3 credits): MATH 2413*

Life and Physical Sciences (6 credits): CHEM 1311 and PHYS 2325

Language, Philosophy, and Culture (3 credits): choose one from ENGL 2322, 2323, 2327, 2328; UNIV 1301, 1302

Creative Arts (3 credits): choose one from ARTS 1301, DRAM 1310, MUSI 1306, or MUSI 2310

American History (6 credits): HIST 1301, 1302

Government/Political Science (6 credits): PLSC 2305, 2306

Social and Behavioral Sciences (3 credits): Choose one from ECON 2301, LEAD 1301, PSYC 1301, or SOCI 1301

Component Area Option (6 credits): CHEM 1111, COMM 1315, MATH 2413*, PHYS 2125

* Three credits of MATH 2413 fulfill the Mathematics requirement, one credit is assigned to the Component Area Option.

Computer Use: Mechanical Engineering students obtain skills in using computers in ENGR 1204 and MENG 3348.

Mechanical Engineering Program Description

The mechanical engineer may design a component, a machine, a system or a process. Mechanical engineers analyze their design using the principles of physics to insure the product functions safely, efficiently, reliably, and can be manufactured at a competitive cost. Mechanical engineers work in automotive, aerospace, chemical, computer, communication, paper, and power generation industries. Mechanical engineers are found in virtually any manufacturing industry.

Mechanical Engineering Lower Division Required Courses

23 Credits

MATH 2414 - Calculus II

MATH 2415 - Calculus III

PHYS 2326 - University Physics II

PHYS 2126 - University Physics II Laboratory

ENGR 1204 - Engineering Graphics

ENGR 2301 - Engineering Mechanics: Statics

ENGR 2302 - Engineering Mechanics: Dynamics

ENGR 2305 - Fundamentals of Circuit Analysis

Mechanical Engineering Upper Division Required Courses

55 Credits

MATH 3301 - Introduction to Probability I

MATH 3310 - Linear Algebra

MATH 3320 - Differential Equations

ENGR 3303 - Introduction to Material Science

ENGR 3326 - Engineering Economics

ENGR 3332 - Mechanics of Materials

ENGR 3354 - Introduction to Fluid Mechanics

ENGR 3375 - Introduction to Thermodynamics

ENGR 3390 - Engineering Programming

MENG 3206 - Mechanical Engineering Laboratory I

MENG 3324 - Manufacturing Processes

MENG 3348 - Computer-Aided Mechanical Engineering Design

MENG 3351 - Heat Transfer

MENG 3356 - Fluid Mechanics II

MENG 3364 - Mechanical Design I

MENG 3376 - Thermodynamics II

MENG 4205 - Thermo-fluid and Mechanical Systems Laboratory

MENG 4206 - Mechanical Engineering Laboratory II

MENG 4478 - Senior Design

Mechanical Engineering Upper Division Electives

6 Credits

Choose any two 3000 or 4000-level AERO, MENG or NENG courses not used above.

Mit Mechanical Engineering Requirements

David Baud



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