

## 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

**Yan Bai**



## **Mit Mechanical Engineering Requirements:**

The Top Books of the Year Mit Mechanical Engineering Requirements The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Mit Mechanical Engineering Requirements : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Mit Mechanical Engineering Requirements : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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