WHAT IS MECHANICAL ENGINEERING?
Mechanical Engineering is focused on a learning and research environment to instruct and encourage our students to reach their full potential in technical expertise, innovative expression and collaborative design.

WHY MECHANICAL ENGINEERING AT OSU?
Students in Mechanical Engineering at OSU endure intensive academic programs and gain hands-on experience with exciting projects, preparing them for careers after graduation. Whether students are battling robots, working on cars or other capstone projects, they are able to take theories learned in the classroom and apply them to real-world situations.

HIGHLIGHTS
• Undergraduate students in the Mechanical Engineering program at OSU participate in hands-on experiences with exciting projects, preparing them for careers after graduation. Students who participate in competition teams (Baja Car, Formula One Car, ChemE Car, Mercury Robotics, Speedfest), research projects or the required senior capstone project are able to use theories learned in a classroom setting and apply them to real world situations.
• Engineering design is integrated throughout the curriculum with a strong emphasis the junior and senior years.
• All mechanical engineering courses are taught by a faculty member, many with extensive research and industry experience.

CAREER INDUSTRIES & FOCUS AREAS

OPTIONS
Dual degree option for mechanical and aerospace engineering.

CAREER OPPORTUNITIES
• Drilling Engineer
• Applications Engineer
• Design Engineer
• Field Engineer
• Mechanical Design Engineer
• R&D Engineer
• Plant Engineer
• Completions Engineer
• Reliability Engineer
• Product Engineer
• Facilities Engineer
• Production Engineer

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# Typical Four-Year Curriculum

## FIRST YEAR

### Fall Semester
- **ENGR 1111** Intro to Engr
- **MATH 2144** Calculus I
- **CHEM 1414** Gen Chemistry I
- **ENGR 1332** Engr Design
- **ENGL 1113** Engl Comp I
- **XXXX XXXX** “S/D H/I” Elective

### Spring Semester
- **ENGR 1412** Engr Computer Prog
- **HIST 1103** American History
- **MATH 2153** Calculus II
- **PHYS 2014** Gen Physics I
- **ENGL 1213** Engl Comp II

## SECOND YEAR

### Fall Semester
- **ENSC 2113** Statics
- **ENSC 2213** Thermodynamics I
- **MATH 2163** Calculus III
- **PHYS 2114** Gen Physics II
- **MATH 2233** Diff Equations

### Spring Semester
- **ENSC 2123** Dynamics
- **ENSC 2143** Strength of Materials
- **ENSC 3233** Fluid Mechanics
- **ENSC 2613** Intro to Electrical Science
- **POLS 1113** American Gov’t
- **XXXX XXXX** “S/D H/I” Elective

## THIRD YEAR

### Fall Semester
- **MAE 3013** Engr Analysis
- **ENSC 3313** Materials Science
- **IEM 3503** Engr Econ Analysis
- **MAE 3233** Heat Transfer
- **MAE 3524** Therm Fluid Design

### Spring Semester
- **MAE 3113** Measurements & Instrumentations
- **MAE 3724** Systems Analysis
- **MAE 3403** Comp Methods
- **MAE 3323** Mech Design I

## FOURTH YEAR

### Fall Semester
- **MAE CAT I** Elective
- **MAE XXXX** Elective
- **XXXX XXXX** Tech Elective
- **XXXX XXXX** “S/D H/I” Elective

### Spring Semester
- **MAE CAT II** Elective
- **MAE XXXX** Elective
- **XXXX XXXX** “S/D H/I” Elective
- **XXXX XXXX** Basic Science

**TOTAL HOURS: 121**


This course plan is for general guidance only. An official course plan will be provided upon enrollment.

**Contact** | ceat.recruitment@okstate.edu | (405)-744-5279