

Bachelor of Science in Engineering with a major in Mechanical Engineering

Major Requirements

| Oakland University Courses | Oakland Community College Courses |
|---|---|
| MTH 1554 | MAT 1730 |
| MTH 1555 | MAT 1740 |
| MTH 2554 | MAT 2740 |
| APM 2555 | (MAT 2810 and 2880) accepted |
| PHY 1510 | PHY 2400 |
| PHY 1520 | PHY 2500 |
| CHM 1440 | CHE 1510 |
| EGR 1200 | CAD 1201 or (CAD 2102 or 2131) accepted |
| EGR 1400 | CIS 2656 or EGR 2010 |
| EGR 2400 | EGR 1100 and EGR 2700 |
| EGR 2800 | EGR 2080 and EGR 2100 |
| ME 3200^ | EGR 2500^ |
| ME 3250^ | EGR 2200^ |
| Economics Requirement | ECO 2610 or 2620 |
| Choose one* Approved Math/Science Elective (students encouraged to select with an OU adviser) | BIO 1530; CHE 1520 |

^Students who take this equivalent at OCC are required to take a 1 credit lab at Oakland University

*Students must complete at least 30 credits of required math/science courses, additional options available at OU

Students may transfer an unlimited amount of credit from OCC, and must complete a minimum of 45 credit hours from OU to meet degree requirements. As programs may limit how much transfer credit can be used toward requirements, **it is highly recommended that students work with both an OU academic adviser and their OCC counselor to maximize the applicability of coursework to specific requirements.**

TRANSFERRING WITH THE MICHIGAN TRANSFER AGREEMENT (MTA):

When choosing to complete MTA to satisfy General Education, please confirm the best courses to take to fulfill the agreement with your counselor at OCC or at the [OCC MTA Approved Courses](#) website. Completing MTA when following this major guide will satisfy OU's transferable General Education requirements.

Additional course requirements for MTA when following this major guide

(min 30 credit hours required for MTA):

ENG 1510

ENG 1520 (Review your MTA plans with an OU academic adviser)

One MTA Approved Social Sciences course

Two MTA Approved Humanities or Fine Arts courses

TRANSFERRING WITHOUT MTA:

If you intend to transfer without MTA, you can choose to complete additional coursework to fulfill OU's individual General Education categories instead. When following this major guide, please reference the [OCC General Education Transfer Guide](#) for the OCC courses that satisfy these specific OU General Education categories:

- Writing Foundations (ENG 1520)
- Arts
- Language and Culture
- Global Perspective
- Literature
- U.S. Diversity

All prospective students should call the School of Engineering and Computer Science (SECS) Academic Advising Office at (248) 370-2201 to schedule an appointment. Their office can also be contacted by email at secsadvising@oakland.edu, or visit their [website](#) for more information.

NOTES:

The Mechanical Engineering Department offers optional specializations in Automotive Engineering, Manufacturing, and Energy to students interested in broadening their knowledge in a specific area of mechanical engineering and wishing to have an area of specialization in their degree.

Transfer students are admitted directly to the major if they have a cumulative GPA of 2.8 or higher, if students have a GPA between 2.5 and 2.79, they are admitted as a "Candidate" to the SECS, and will need to meet established criteria to change their major.

Students apply for major standing once they have completed math, science, and core engineering courses.

Oakland University will always honor the **MACRAO transfer agreement** and apply it to the General Education requirement the same as MTA.

SCHOOL OF ENGINEERING AND COMPUTER SCIENCE (SECS) TALKING POINTS:

Learn more about OU's [ABET accredited programs](#): (Bioengineering, Mechanical Engineering, Computer Engineering, Electrical Engineering, Industrial & Systems Engineering, Information Technology and Computer Science).

Learn about ways to [get involved](#) in over 20 student organizations affiliated with SECS, as well as different professional organizations related to careers in engineering and computer science!

OU students also participate in competitions such as Intelligent Ground Vehicle, [Formula SAE](#), North American International Auto Show in Detroit, GrizzHacks, and Maker Faire Detroit.

OU offers a number of [scholarship opportunities](#) to students in the School of Engineering and Computer Science to help pay for your education.

The School of Engineering and Computer Science offers a wide variety of [opportunities for undergraduate research](#).

SECS students can work with a career consultant about your resume, job search or to practice your interviewing skills. There are also a number of networking events each month and [resources available through Career Services](#). Employers from hundreds of companies participate in our annual Engineering and IT Career Fair in search of Oakland students to fill internship and full-time opportunities. 85% of SECS graduates from July 2019 to June 2020 completed an internship or internship-like experience.

OCC students considering transferring to SECS are encouraged to consider our [HTech Jobs of the Future](#) partnership program, to provide students the support, direction and guidance needed to achieve your academic goals.