

Bachelor of Science with a major in Bioengineering

Major Requirements

Oakland University Courses	North Central Michigan College Courses
MTH 1554	MATH 150
MTH 1555	MATH 210
MTH 2554	MATH 215
APM 2555	(MATH 225 and 235) accepted
PHY 1610	PHY 230 accepted
PHY 1620	PHY 231 accepted
CHM 1440 and 1470	CEM 121
CHM 1450 and 1480	CEM 122
CHM 2340	CEM 231
BIO 1200	BIO 151
BIO 1201	Satisfied by completing (BIO 151 and 152)
BIO 2600	Satisfied by completing BIO 235 and 236)
EGR 1200	TDT 150
Economics Requirement	ECO 111 or 112

There are four professional track options to choose from. The courses below apply to the specific track listed. It is recommended to meet with an academic adviser at OU to discuss the different track options.

Oakland University Courses	North Central Michigan College Courses
CSI 3450 (Bioinformatics and Genome Engineering Track)	CIS 215

Students may transfer an unlimited amount of credit from North Central, 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 North Central academic adviser 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 academic adviser at North Central or at the [North Central 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 (minimum 30 credit hours required for MTA):

- ENG 111
- ENG 112 (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 [North Central General Education Transfer Guide](#) for the North Central courses that satisfy these specific OU General Education categories:

- Writing Foundations (ENG 112)
- 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:

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](#): (Mechanical Engineering, Computer Engineering, Electrical Engineering, Industrial & Systems Engineering, Information Technology and Computer Science). **The first class of the Oakland University Bioengineering program under the new curriculum has already graduated in the winter of 2020. ABET evaluation site visit took place in November 2021. According to ABET policies, retroactive accreditation may be granted to cover students who graduated during the academic year prior to the evaluation visit. Based on the positive review, the OU Bioengineering program is to be officially granted accreditation by June, 2022. Therefore, any student graduating from the new curriculum at the end of or after fall 2020 will graduate from an ABET accredited program if the accreditation is granted in fall 2021.**

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.