

**Bachelor of Science with a major in Engineering Physics**

**Major Requirements**

Oakland University Courses	Alpena Community College Courses
MTH 1554	MTH 131
MTH 1555	MTH 132
MTH 2554	MTH 231
APM 2555	(MTH 232 at Alpena <b>and</b> MTH 2775 at OU) accepted
PHY 1510 and 1100	PHY 221
PHY 1520 and 1100	PHY 222
CHM 1440 and 1470	CEM 121
EGR 1200	EGR 125

**\*Consider transfer credit limits (64 credits) when following this major guide**

**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 Alpena or at the [Alpena 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 or 121
- ENG 112 or 122 (required prerequisite for coursework at OU)
- Two MTA Approved Social Science courses
- Two MTA Approved Humanities 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 [Alpena General Education Transfer Guide](#) for the Alpena courses that satisfy these specific OU General Education categories:

- Writing Foundations (ENG 112 or 122)
- Arts
- Foreign Language and Culture
- Global Perspective
- Literature
- Social Science
- 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](mailto: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)

83% of SECS graduates from the 2017-2018 academic year completed an internship. The overall placement rate of SECS graduates from the 2017-2018 academic year was 95%. [See why some of our students and alumni chose SECS.](#)

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!

Participate in competitions such as Intelligent Ground Vehicle (hosted at OU in June 2020), Formula SAE (the [team](#) traveled to Germany in 2019), 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](#).

Oakland University was [selected to host an accessible autonomous shuttle on campus](#) as part of the EasyMile collaboration with partners Continental and the City of Auburn Hills. Faculty and students will be able to participate.

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.

Oakland University was [designated as a National Center of Academic Excellence in Cyber Defense Education \(CAE-CDE\)](#) in 2018.

The efforts of the Industrial Systems and Engineering Department to integrate Product Lifecycle Management (PLM) concepts, techniques, and tools into its curriculum were [highlighted in a textbook about PLM](#), reflecting the program’s high quality and innovative nature.