

Bachelor of Science with a major in Computer Science

Major Requirements

Oakland University Courses	Macomb Community College Courses
MTH 1554	MATH 1760
MTH 1555	MATH 1770
MTH 2775	MATH 2000
APM 2663	MATH 2200
Choose one science elective (with lab)	(BIOL 1000 <u>and</u> 1010- both courses required); CHEM 1170; PHYS 2220
Choose one additional science elective (must be different from course option above)	BIOL 1000; BIOL 1010; CHEM 1170; PHYS 2220 accepted; PHYS 2230 accepted
CSI 1420* and 2320^	ITOS 1710* <u>and</u> ITCS 2530 (both courses required)
CSI 2300	ITCS 2590
CSI 2310	ITCS 2700
CSI 2470	ITNT 1500 <u>and</u> 2130
CSI 3450	ITCS 1170

There are eight 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	Macomb Community College Courses
CSI 3150 (Mobile Applications Development Track or Web Development Track)	ITWP 1100
CSI 3660* (System Administration Track)	ITOS 1710* <u>and</u> 1720
CSI 4480 (Cybersecurity Track)	ITIA 1310 <u>and</u> 2800

*ITOS 1710, ITOS 1720, & ITCS 2530 at MCC combined be used for CSI 1420, CSI 2320 and CSI 3660.

^ITCS 2530 (when taken with ITOS 1710) at Macomb would count as a second Professional Elective course.

Students may transfer an unlimited amount of credit from MCC, 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 MCC 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 academic adviser at MCC or at the [MCC 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):

- ENGL 1180 or 1210 and ENGL 1190 or 1220 (Review your MTA plans with an OU academic adviser)
- One MTA Approved Natural Sciences course (only required if both science electives are BIOL or PHYS courses)
- Two MTA Approved Social Sciences courses
- 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 [MCC General Education Transfer Guide](#) for the MCC courses that satisfy these specific OU General Education categories:

- Writing Foundations (ENGL 1190 or 1220)
- Arts
- 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 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 computer science courses.

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

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.

MCC 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.