

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 1700; CHEM 1170; PHYS 2220
[CSI 1420 and 2320*] or CSI 1320	[ITOS 1710 and ITCS 2530^ (both courses required)] or ITCS 1140
CSI 2300	ITCS 2590
CSI 2470	ITNT 1500 and 2130
CSI 3450	ITCS 1170
Choose 5 credits of Approved Flexible Electives* (contact an OU adviser to discuss all available options)	AUTO 2600; ITCS 2250; ITCS 1170

There are six areas for professional electives to choose from. The courses below apply to the specific area listed. It is recommended to meet with an academic adviser at OU to discuss the different area options.

Oakland University Courses	Macomb Community College Courses
CSI 3150 (Web and Mobile Systems Area)	ITWP 1100
CSI 3660* (Computer Systems and Networking Area)	ITOS 1710* and 1720
CSI 4480 (Cybersecurity Area)	ITIA 1310 and 2800

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

^ITCS 2530 (when taken with ITOS 1710) at Macomb would count as a Flexible 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 1181 or 1210 **and** ENGL 1190 or 1220 (Review your MTA plans with an OU academic adviser)

One MTA Approved Natural Sciences course

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 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 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 the Career and Life Design Center](#). 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.