Transfer Student Success Center
Transfer Planning Guide

Engineering—B.S. Degree
College of Engineering
https://engineering.wayne.edu/ (313) 577-3780

This transfer plan will help guide you in making the transition from community college to Wayne State University. WSU **strongly** recommends that all transfer students meet with a WSU advisor in order to ensure you are taking the correct courses before transferring. Schedule an appointment with an Academic Advisor through stars.wayne.edu/

Biomedical Engineering:	Namrata Murthy	nmurthy@wayne.edu
Chemical Engineering:	Tracy Castle	tfcastle@wayne.edu
Civil Engineering:	Elizabeth Hill	ekondrat@wayne.edu
Electrical Engineering:	Kate Rendi	kate.rendi@wayne.edu
Industrial Engineering:	Cathleen Laporte	hx4960@wayne.edu
Mechanical Engineering:	Keith Wadley	keith.wadley@wayne.edu
Undecided:	Casey Rue	crue@wayne.edu

Bachelors of Science degree requirements for all of the following Engineering Majors

- Biomedical Engineering (BME)
- Chemical Engineering (CHE)
- Civil Engineering (CE)
- Electrical and Computer Engineering (ECE)
- Industrial and Manufacturing Engineering (IE)
- Mechanical Engineering (ME)

WSU Title	WSU Course	MCC Course
Calculus I (QE)	MAT 2010	MATH 1760
Calculus II (QE)	MAT 2020	MATH 1770
Calculus III	MAT 2030	MATH 2760
Linear Algebra and Differential Equations	MAT 2150 (or 2250+2350)	MATH 2000+2770
General Physics I (NSI)	PHY 2175	PHYS 2220
General Physics II	PHY 2185	PHYS 2230
Principles of Chemistry I (NSI)	CHM 1125/1130	CHEM 1170
Intro. College Writing (BC)	ENG 1020	ENGL 1180 or ENGL 1210
Tech Comm I: Reports (IC)	ENG 3050	BCOM 2050 or 2070

Specific Engineering Major Requirements

BS Biomedical Engineering

WSU Title	WSU Course	MCC Course
Basic Biology I + Lab	BIO 1510 +BIO 1511	BIOL 1000
Basic Engineering I	BE 1200	ENGR 1000

BS Chemical Engineering

WSU Title	WSU Course	MCC Course
General Chemistry II + Lab	CHM 1145 + 1150	CHEM 1180
Organic Chemistry I + Lab	CHM 1240 + 1250	CHEM 2260+ 2270
Organic Chemistry II-NO LAB	CHM 2225	CHEM 2280
Basic Engineering I	BE 1200	ENGR 1000
(CI) Professional Ethics	PHI 1120	PHIL 2120

BS Civil Engineering

WSU Title	WSU Course	MCC Course
Basic Biology or Introduction to Life or Basic Life Diversity or Geology: The Science of Earth	BIO 1510 or 1050 or 1500 or ESG 1010	NATS 1200 or ESCI 1210 or GEOL 1140 or BIO 1010 or ENVS 1050
Basic Engineering I	BE 1200	ENGR 1000

BS Electrical and Computing Engineering

WSU Title	WSU Course	MCC Course
Physics lab	PHY 2171 OR PHY 2181	PHYS 2220 or 2230
(CI) Prof. Ethics or Intro to Ethics	PHI 1120 (CI) or 2320	PHIL 2100
Basic Engineering I	BE 1200	ENGR 1000
(SI) Principles of Macroeconomics or Microeconomics or Survey of Economics	ECO 2010 or 2020 or 1000	ECO 1160 or 1170

BS Industrial Engineering

WSU Title	WSU Course	MCC Course
(CI) Professional Ethics	PHI 1120	PHIL 2120
Basic Engineering I	BE 1200	ENGR 1000
(SI) Principles of Microeconomics	ECO 2010	ECON 1170

BS Mechanical Engineering

WSU Title	WSU Course	MCC Course
(CI) Professional Ethics	PHI 1120	PHIL 2120

Once students apply to the College of Engineering, they may be admitted to the Professional Engineering program, the Pre-professional Program, or EOS bridge program, depending on their educational background and placement examination results. Please see here for more information: https://wayne.edu/students/majors/engineering/

Advising
For general questions about transferring credits, application processes, transfer pathways, scholarships, and the Michigan Transfer Agreement, schedule an appointment with a Transfer Advisor through stars.wayne.edu. You can also email transfer@wayne.edu or discover more at wayne.edu/transfer. For detailed, specific questions about the major, email or schedule an appointment with an Engineering advisor.

Transfer Credit Resources

- **Transfer Equivalency Self-Service**: This tool displays how your earned credits will transfer into specific Wayne State degree programs. This tool provides an unofficial degree audit that indicates how your transfer credit is applied, and which courses are still required to complete the degree.
- **Transfer Pathways**: The transfer pathways are agreements with Michigan community colleges that streamline the transfer credit process while providing a roadmap to earning your associate and bachelor's degrees.
- **Transfer Course Equivalency**: This tool allows you to research specific courses and how they transfer to Wayne State.
- **Michigan Transfer Agreement (MTA)**: The MTA can be earned at any Michigan community college to satisfy the Wayne State general education requirements. Each community college has an MTA-approved course list of its own, so please refer to the list of courses that your respective community college has approved for MTA.

Understanding Transfer Credit

- **What will transfer?** All college-level classes from regionally accredited colleges with a grade of 2.0 (C) or above will transfer. There are no specific limits to the number of transfer credits. However, each academic program has specific requirements that must be satisfied which helps determine the best number of credits to transfer.
- **How will it transfer?** Courses transfer as the number of credits earned at the college where you took the class. This is true regardless of the number of credits the Wayne State equivalent course is worth. Each transferred course will match one of the following types of credits:
  - **Equivalent credit** – matches a specific WSU course.
  - **Department credit** – transfer into the academic department without a specific WSU course match.
  - **Elective credits** – transfer as general or elective credit (GEN 1XXX or GEN 2XXX).

Transfer Admissions Requirements

To transfer to Wayne State, you must have at least 24 transferable credits of previous college work and a minimum 2.5 cumulative GPA from all higher education institutions you have attended. If you have completed an associate degree, you may be admitted with a cumulative GPA of 2.0 or better. Visit wayne.edu/apply to complete the university application.

*** This plan is for informational purposes only. The University reserves the right to update this plan at any time without notice***