



**WAYNE STATE
UNIVERSITY**

**Transfer Student Success Center
Transfer Planning Guide**

Engineering—B.S. Degree

College of Engineering

<https://engineering.wayne.edu/> (313) 577-3780



**OAKLAND
COMMUNITY
COLLEGE®**

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
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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	OCC Course
Calculus I (QE)	MAT 2010	MAT 1730
Calculus II (QE)	MAT 2020	MAT 1740
Calculus III	MAT 2030	MAT 2740
Linear Algebra and Differential Equations	MAT 2150 (or 2250+2350)	MAT 2880+2810
General Physics I (NSI)	PHY 2175	PHY 2400
General Physics II	PHY 2185	PHY 2500
Principles of Chemistry I (NSI)	CHM 1125/1130	CHE 1510
Intro College Writing (BC)	ENG 1020	ENG 1510
Tech. Comm II: Prsnt (IC)	ENG 3050	ENG 2200

Specific Engineering Major Requirements

BS Biomedical Engineering

WSU Title	WSU Course	OCC Course
Basic Biology I + Lab	BIO 1510 +BIO 1511	BIO 1530
Basic Engineering I	BE 1200	EGR 1100
Intro to Prog & Computation ENGR	BE 1500	EGR 2010
Materials Science for ENGR	BE 1300	MSE 1000
Statics	ME 2410	EGR 2100
Mechanics of Materials	ME 2420	EGR 2200

BS Chemical Engineering

WSU Title	WSU Course	OCC Course
General Chemistry II + Lab	CHM 1145 + 1150	CHE 1520
Organic Chemistry I	CHM 1240	CHE 2610
Organic Chemistry Lab I	CHM 1250	CHE 2650
Organic Chemistry II-NO LAB	CHM 2225	CHE 2620
Basic Engineering I	BE 1200	EGR 1100
Materials Science for ENGR	BE 1300	MSE 1000
(CI) Prof. Ethics	PHI 1120 (CI)	No Equivalent course must be taken at WSU

BS Civil Engineering

WSU Title	WSU Course	OCC 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	BIO 1530 or BIO 1511 or BIO 1560
Basic Engineering I	BE 1200	EGR 1100
Intro to Prog & Computation ENGR	BE 1500	EGR 2010
Statics	CE 2410	EGR 2100
Mechanics of Materials	CE 2420	EGR 2200

BS Electrical and Computing Engineering

WSU Title	WSU Course	OCC Course
Basic Engineering I	BE 1200	EGR 1100
Intro to Prog & Computation ENGR	BE 1500	EGR 2010
(CI) Prof. Ethics or Intro to Ethics	PHI 1120 (CI) or 2320	PHI 1610
(SI) Principles of Macroeconomics or Microeconomics or Survey of Economics	ECO 2010 or 2020 or 1000	ECO 2620 or ECO 2620 or ECON 110

BS Industrial Engineering

WSU Title	WSU Course	OCC Course
Basic Engineering I	BE 1200	EGR 1100
Materials Science for ENGR	BE 1300	MSE 1000
Microeconomics (SI)	ECO 2010	ECO 2620
(CI) Prof. Ethics	PHI 1120 (CI)	No Equivalent course must be taken at WSU

BS Mechanical Engineering

WSU Title	WSU Course	OCC Course
Intro to Prog & Computation ENGR	BE 1500	EGR 2010
Materials Science for ENGR	BE 1300	MSE 1000
Statics	ME 2410	EGR 2100
Mechanics of Materials	ME 2420	EGR 2200
Dynamics	ME 3400	EGR 2020
(CI) Prof. Ethics	PHI 1120 (CI)	No Equivalent course must be taken at WSU

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****