



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
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Bachelor 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	HFC Course
Calculus I (QE)	MAT 2010	MATH 180
Calculus II (QE)	MAT 2020	MATH 183
Calculus III	MAT 2030	MATH 280
Linear Algebra and Differential Equations	MAT 2150 (or 2250 + 2350)	MATH 283 + 288
General Physics I (NSI)	PHY 2175	PHYS 231
General Physics II	PHY 2185	PHYS 232
Principles of Chemistry I (NSI)	CHM 1125/1130	CHEM 141
Intro College Writing (BC)	ENG 1020	ENG 131
Tech. Comm II: Prsnt (IC)	ENG 3050	ENG 135

Specific Engineering Major Requirements

BS Biomedical Engineering

WSU Title	WSU Course	HFC Course
Basic Biology I + Lab	BIO 1510 + BIO 1511	BIO 152
Basic Engineering I	BE 1200	ENGR 130
Intro to Prog & Computation ENGR	BE 1500	ENGR 125
Materials Science for ENGR	BE 1300	ENGR 201
Statics	ME 2410	ENGR 232
Mechanics of Materials	ME 2420	ENGR 235

BS Chemical Engineering

WSU Title	WSU Course	HFC Course
General Chemistry II + Lab	CHM 1145 + 1150	CHEM 142
Organic Chemistry I	CHM 1240	CHEM 241
Organic Chemistry Lab I	CHM 1250	CHEM 243
Organic Chemistry II-NO LAB	CHM 2225	CHEM 242
Basic Engineering I	BE 1200	ENGR 130
Materials Science for ENGR	BE 1300	ENGR 201
Intro to Prog & Computation: PYTHON	BE 1600	CIS 125
(CI) Prof. Ethics	PHI 1120 (CI)	No Equivalent course must be taken at WSU

BS Civil Engineering

WSU Title	WSU Course	HFC 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 152 or BIO 131 or GEOL 131 or BIO 1050
Basic Engineering I	BE 1200	ENGR 130
Intro to Prog & Computation ENGR	BE 1500	ENGR 125
Statics	CE 2410	ENGR 232
Mechanics of Materials	CE 2420	ENGR 235

BS Electrical and Computing Engineering

WSU Title	WSU Course	HFC Course
Basic Engineering I	BE 1200	ENGR 130
Intro to Prog & Computation ENGR	BE 1500	ENGR 125
(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	BEC 152 or BEC 151 or BEC 133

BS Industrial Engineering

WSU Title	WSU Course	HFC Course
Basic Engineering I	BE 1200	ENGR 130
Materials Science for ENGR	BE 1300	ENGR 201
Intro to Prog & Computation: PYTHON	BE 1600	CIS 125
(CI) Prof. Ethics	PHI 1120 (CI)	No Equivalent course must be taken at WSU
Microeconomics (SI)	ECO 2010	BEC 152

BS Mechanical Engineering

WSU Title	WSU Course	HFC Course
Intro to Prog & Computation ENGR	BE 1500	ENGR 125
Materials Science for ENGR	BE 1300	ENGR 201
Statics	ME 2410	ENGR 232
Mechanics of Materials	ME 2420	ENGR 235
(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****