

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 <u>stars.wayne.edu/</u>

Biomedical Engineering: Chemical Engineering: Civil Engineering: Electrical Engineering: Industrial Engineering: Mechanical Engineering: Undecided:

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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 Systems Engineering (IE)
- Mechanical Engineering (ME)

WSU Title	WSU Course	Schoolcraft
Calculus I (QE)	MAT 2010	MATH 150
Calculus II (QE)	MAT 2020	MATH 151
Calculus III	MAT 2030	MATH 240
Linear Algebra and Differential	MAT 2150	
Equations	(or 2250+2350)	MATH 230+252
General Physics I (NSI)	PHY 2175	PHYS 211
General Physics II	PHY 2185	PHYS 212
Principles of Chemistry I (NSI)	CHM 1125/1130	CHEM 111
Intro. College Writing (BC)	ENG 1020	ENG 101
Tech Comm I: Reports (IC)	ENG 3050	ENG 116

Specific Engineering Major Requirements

BS Biomedical Engineering

WSU Title	WSU Course	Schoolcraft	
Basic Biology I + Lab	BIO 1510 +BIO 1511	BIOL 120	
Basic Engineering I	BE 1200	ENGR 100	
Statics	CE/ME 2410	ENGR 201	
Mechanics of Materials	CE/ME 2420	ENGR 202	

BS Chemical Engineering

WSU Title	WSU Course	Schoolcraft	
General Chemistry II + Lab	CHM 1145 + 1150	CHEM 117	
Organic Chemistry I + Lab	CHM 1240 + 1250	CHEM 213	
Organic Chemistry II-NO LAB	CHM 2225	CHEM 214	
Basic Engineering I	BE 1200	ENGR 100	
Basic Engineering II	BE 1300	MET 114	

BS Civil Engineering

WSU Title	WSU Course	Schoolcraft
Basic Biology or Introduction to Life	BIO 1510 or 1050 or 1500 or ESG	BIOL 120 or BIOL 101 or BIOL 102
or Basic Life Diversity or Geology:	1010 or 1500	or EARTH 140 or EARTH 120
The Science of Earth		
Basic Engineering I	BE 1200	ENGR 100
Statics	CE/ME 2410	ENGR 201
Mechanics of Materials	CE/ME 2420	ENGR 202

BS Electrical and Computing Engineering

WSU Title	WSU Course	Schoolcraft
Physics lab	PHY 2171 OR PHY 2181	PHYS 211 or 212
Basic Engineering I	BE 1200	ENGR 100
(SI) Principles of Macroeconomics	ECO 2010 or 2020 or 1000	ECON 202 or ECON 201 or ECON
or Microeconomics or Survey of		101
Economics		

BS Industrial Engineering

WSU Title	WSU Course	Schoolcraft
Basic Engineering I	BE 1200	ENGR 100
(SI) Principles of Microeconomics	ECO 2010	ECON 202

BS Mechanical Engineering

WSU Title	WSU Course	Schoolcraft
Basic Engineering II	BE 1300	MET 114
Statics	CE/ME 2410	ENGR 201
Mechanics of Materials	CE/ME 2420	ENGR 202
Dynamics	ME 3400	ENGR 203

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

Advising

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

Transfer Credit Resources

- <u>Transfer Equivalency Self-Service</u>: 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.
- <u>Transfer Pathways</u>: 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.
- <u>Transfer Course Equivalency</u>: This tool allows you to research specific courses and how they transfer to Wayne State.
- <u>Michigan Transfer Agreement (MTA)</u>: 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 <u>wayne.edu/apply</u> 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 **