



## 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/](https://stars.wayne.edu/)

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### Bachelor of Science degree requirements for all 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	Washtenaw Course
Calculus I (QE)	MAT 2010	MTH 191
Calculus II (QE)	MAT 2020	MTH 192
Calculus III	MAT 2030	MTH 293
Linear Algebra and Differential Equations	MAT 2150 (or 2250+2350)	MTH197 + 295
General Physics I (NSI)	PHY 2175	PHY 211
General Physics II	PHY 2185	PHY 222
Principles of Chemistry I (NSI)	CHM 1125/1130	CEM 111
Intro. College Writing (BC)	ENG 1020	ENG 111
Tech. Comm I: Rpts (IC)	ENG 3050	ENG 208

### Specific Engineering Major Requirements

#### BS Biomedical Engineering

WSU Title	WSU Course	Washtenaw Course
Basic Biology I + Lab	BIO 1510 + BIO 1511	BIO 162

## BS Chemical Engineering

WSU Title	WSU Course	Washtenaw Course
General Chemistry II + Lab	CHM 1145 + 1150	CEM 122
Organic Chemistry I + Lab	CHM 1240 + 1250	CEM 211
Organic Chemistry II-NO LAB	CHM 2225	CEM 222
Intro to Prog & Computation: PYTHON	BE 1600	CPS 141

## BS Civil Engineering

WSU Title	WSU Course	Washtenaw Course
CE Physical Science Elective	BIO 1510 or 1050 or 1500 or ESG 1010 or 1500	BIO 101 or BIO 103 or BIO 162 or GLG 100 or GLG 114 or ENV 101

## BS Electrical and Computing Engineering

WSU Title	WSU Course	Washtenaw Course
Physics lab	PHY 2171 OR PHY 2181	PHY 211 OR PHY 222
(CI) Intro to Ethics	PHI 2320	PHL 205
(SI) Principles of Macroeconomics or Microeconomics or Survey of Economics	ECO 2010 or 2020 or 1000	ECO 111 or ECO 211 or ECO 222

## BS Industrial Engineering

WSU Title	WSU Course	Washtenaw Course
Intro to Prog & Computation: PYTHON	BE 1600	CPS 141
(SI) Principles of Microeconomics	ECO 2010	ECO 211

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](https://stars.wayne.edu). You can also email [transfer@wayne.edu](mailto:transfer@wayne.edu) or discover more at [wayne.edu/transfer](https://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](https://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\*\***