



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: | Gail Evans | gevans@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 | 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 Equations | MAT 2150 (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 |

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|-----------------------------|-----------------|---|
| 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 |
| (CI) Professional Ethics | PHI 1120 | No equivalent at Schoolcraft – must be taken at WSU |

BS Civil Engineering

| WSU Title | WSU Course | Schoolcraft |
|--|--------------------------------------|----------------------------------|
| 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 | BIOL 120 or BIOL 101 or BIOL 102 |
| 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 |
| (CI) Prof. Ethics or Intro to Ethics | PHI 1120 (CI) or 2320 | No equivalent at Schoolcraft – must be taken at WSU |
| Basic Engineering I | BE 1200 | ENGR 100 |
| (SI) Principles of Macroeconomics or Microeconomics or Survey of Economics | ECO 2010 or 2020 or 1000 | ECON 202 or ECON 201 or ECON 101 |

BS Industrial Engineering

| WSU Title | WSU Course | Schoolcraft |
|-----------------------------------|------------|---|
| (CI) Professional Ethics | PHI 1120 | No equivalent at Schoolcraft – must be taken at WSU |
| Basic Engineering I | BE 1200 | ENGR 100 |
| (SI) Principles of Microeconomics | ECO 2010 | ECON 202 |

BS Mechanical Engineering

| WSU Title | WSU Course | Schoolcraft |
|--------------------------|------------|---|
| (CI) Professional Ethics | PHI 1120 | No equivalent at Schoolcraft – must be taken at WSU |
| 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 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/>

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

Michigan Transfer Agreement (MTA)

A student whose community college transcript is endorsed as "MTA satisfied" has completed WSU's General Education Requirements. **The College of Engineering requires specific courses that also qualify as general education requirements. Meet with an advisor to ensure courses that satisfy MTA will also meet engineering specific requirements.** See here for specific MTA information and courses that qualify for MTA:

<https://wayne.edu/transfer/community-college/mta>