

## Transfer Planning Guide

### College of Engineering and Computer Science BSE in Industrial and Systems Engineering

This guide is a tool for students to determine how their transferable credits may apply toward degree requirements. The information on this document is unofficial. An official credit evaluation will be provided upon admission.

Name \_\_\_\_\_ Transfer School \_\_\_\_\_

<b>Total Degree Credits 128</b>	<b>Potential Applicable Credits</b>	<b>Completed Applicable Credits</b>
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#### DEARBORN DISCOVERY CORE

The Dearborn Discovery Core (DDC) is the university's general education program. The Michigan Transfer Agreement (MTA) is a state-wide program designed to facilitate the transfer of general education requirements from a community college to a university degree. Students can choose to apply transfer credits on an individual basis or use the MTA to fulfill DDC requirements.

DDC Requirements (12 credits)	Fulfilled with	MTA Requirement
Written & Oral Communication	Satisfied by degree requirements COMP 270	2 courses in English Composition/Communications
Social & Behavioral Analysis	Satisfied by degree requirements ECON	2 courses in Social Science
Humanities & the Arts		2 courses in Humanities & Fine Arts
Quantitative Thinking/Problem Solving	Satisfied by degree requirements MATH 115	1 course in Mathematics
Natural Sciences	Satisfied by degree requirements CHEM 134 Satisfied by degree requirements PHYS 150	2 courses in Natural Science; one with a lab
Upper-Level Writing Intensive	Satisfied by degree requirements IMSE 4951/4952	N/A
Critical and Creative Thinking	Satisfied by degree requirements ENGR 400	N/A
Intersections	Satisfied by degree requirements IMSE 421 Satisfied by degree requirements ENT 400	N/A
Capstone Experience	Satisfied by degree requirements IMSE 4951/4952	N/A

Students should check with their community college to determine which courses can be used to fulfill the MTA categories and learn the details for obtaining an MTA endorsement on their transcript. **Students transferring to UM-Dearborn must have the *Michigan Transfer Agreement Satisfied* designation posted on their transcript to take advantage of the MTA.**

UM-Dearborn Course Name and Credits	Transfer Equivalent
<b>Prerequisite Courses (57 credits)</b>	
COMP 270, Tech Writing for Engineers	3
ECON 201 or 202, Macro or Microeconomics	3
MATH 115, Calculus I	4
MATH 116, Calculus II	4
MATH 215, Calculus III	4
MATH 228, Differential Equations with Linear Algebra	4
CHEM 134, General Chemistry IA	4
CHEM 136, General Chemistry IIA or BIOL 140, Intro Molecular & Cellular Biology	4
PHYS 150, General Physics I	4
PHYS 151, General Physics II	4
ENGR 100, Introduction to Engineering and Engineering Design	3
ENGR 126, Engineering Computer Graphics	2
ENGR 250, Principles of Engineering Materials	3
IMSE 255, Computer Programming for Engineers	3
ME 260, Design Stress Analyses or ME 265, Applied Mechanics	4
ECE 305, Introduction to Electrical Engineering	4

**Major Core (45 credits)**

IMSE 3005, Introduction to Operations Research	4	
IMSE 317, Engineering Probability and Statistics	3	
IMSE 382, Manufacturing Processes	4	
IMSE 421, Engineering Economy and Decision Analysis	3	
IMSE 440, Applied Statistical Models in Engineering	3	
IMSE 4425, Human Factors and Ergonomics	4	
IMSE 4555, Systems Engineering: Processes, Methods, and Practice	4	
IMSE 4585, Simulation in Systems Design	4	
IMSE 4675, Six Sigma & Stat Proc Improvement	4	
IMSE 4745, Facilities Design	4	
IMSE 4795, Production, Inventory Control, & Lean Manufacturing	4	
IMSE 4951, Design Project I	2	
IMSE 4952, Design Project II	2	

**Electives (14 credits)**

**Focus Area Electives:** Select a minimum of 8 credits from the list.

**General Electives:** As many 100 to 400 level courses as needed to reach a minimum of 128 credits for graduation. (6 credits)

**Your Transfer Plan**

Semester	Semester	Semester	Semester	Semester

**Notes and Information to Explore****College of Engineering and Computer Science Admission**

- Submission of an application and transcripts from every college/university attended.
- A minimum grade point average (GPA) of 2.75

**Transfer Credit Policies**

- A maximum of 62 community college credits may be applied.
- A maximum of 75 credits from a university or university & community college combination be applied.
- Courses must be completed with a minimum grade of C to transfer.

**Application Deadlines**

All materials must be received by application deadline to be considered for admission.

- Fall: August 15
- Winter: December 15
- Summer I: April 15
- Summer II: June 15

For specific questions about program requirements, contact the Office of Undergraduate Admissions Transfer Team at [transferteam@umich.edu](mailto:transferteam@umich.edu).

Find additional information at <https://umdearborn.edu/admissions/undergraduate/ready-apply/transfer-students>.

It is the responsibility of the student to be aware of changes that affect transferring. Students are encouraged to review the transfer guide requirements on an annual basis. Degree requirements are not guaranteed until a student is admitted. These guides are solely intended for planning transferable courses.