

Transfer Planning Guide

College of Engineering and Computer Science BSE in Human Centered Engineering Design

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 _____

Total Degree Credits 128	Potential Applicable Credits	Completed Applicable Credits
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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 (6 credits)	Fulfilled with	MTA Requirement
Written & Oral Communication	Satisfied by degree requirements COMP 105	2 courses in English Composition/Communications
	Satisfied by degree requirements COMP 106/270	
Social & Behavioral Analysis	Satisfied by degree requirements ANTH 101	2 courses in Social Science
Humanities & the Arts	Satisfied by degree requirements ART 410	2 courses in Humanities & Fine Arts
	Satisfied by degree requirements Core ARTH option	
Quantitative Thinking/Problem Solving	Satisfied by degree requirements MATH 115	1 course in Mathematics
Natural Sciences	Satisfied by degree requirements CHEM 134	2 courses in Natural Science; one with a lab
	Satisfied by degree requirements BIOL 103	
Upper-Level Writing Intensive	Satisfied by degree requirements HCED 4951/4952	N/A
Critical and Creative Thinking	Satisfied by degree requirements Core ARTH option	N/A
Intersections	Satisfied by degree requirements ENGR 360	N/A
	Satisfied by degree requirements IMSE 421	
Capstone Experience	Satisfied by degree requirements HCED 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
Basic Preparation Requirements (54 credits)	
COMP 105, Writing & Rhetoric I	3
COMP 106, Writing & Rhetoric II or COMP 270, Tech Writing for Engrs	3
ANTH 101, Introduction to Anthropology	3
MATH 115, Calculus I	4
MATH 116, Calculus II	4
MATH 228, Differential Equations with Linear Algebra	4
IMSE 317, Engineering Probability and Statistics	3
CHEM 134, General Chemistry IA	4
BIOL 103, Anatomy and Physiology I	4
PHYS 150, General Physics I	4
PHYS 151, General Physics II	4
ENGR 100, Introduction to Engineering and Engineering Design	3
ECE 210, Circuits	4
ENGR 250, Principles of Engineering Materials	3
ME 260, Design Stress Analyses or ME 265, Applied Mechanics	4

Major Core (47-48 credits)		
HCED 220, Engineering Design Communication	2	
ENGR 360, Design Thinking: Process, Method, & Practice	4	
HCED 370, Needfinding and Research Methods in Design	3	
HCED 380, Product Prototyping: Tools and Methods	4	
IMSE 382, Manufacturing Processes	4	
IMSE 421, Engineering Economy and Decision Analysis	3	
IMSE 4425, Human Factors and Ergonomics	4	
HCED 450, Product Realization: Design and Making	4	
HCED 4951, Capstone Project: Needfinding and Conceptualization	2	
HCED 4952: Capstone Project: Design and Implementation	2	
ART 210, Beginning Digital Design	3	
ART 410, Advanced Digital Design	3	
Select one course from the list	3-4	
Select two courses from the list	6	

CHOOSE ONE OF THE FOLLOWING CONCENTRATIONS		
Mechanical Engineering Design Concentration (21 credits)		
ENGR 216, Computer Methods for Engineers	2	
Select four courses from the list	15-16	
General Electives	3-4	
Electrical Engineering Design Concentration (21 credits)		
ECE 270, Computer Methods in ECE I	4	
Select four courses from the list	14-16	
General Electives	1-3	
Software Engineering and HCI Design Concentration (21 credits)		
CIS 150, Computer Science I, CIS 1501, CS I for Data Scientists, or ECE 270, Computer Methods in ECE I	4	
CIS 200, Computer Science II or CIS 2001, CS II for Data Scientists	4	
CIS 350, Data Structure and Algorithm Analysis or CIS 3501, Data Structure & Algorithm Analysis for SE	4	
Select four courses from the list	3-4	
General Electives	5-6	
Systems Engineering Design Concentration (21 credits)		
Select one course from the list	3-4	
Select four courses from the list	13-16	
General Electives	1-5	
Individualized Concentration (21 credits)		
Choose one course from the list	2-4	
Choose three courses in CIS, ECE, IMSE, or ME from the other concentrations	9-12	
General Electives	5-10	

Your Transfer Plan				
Semester	Semester	Semester	Semester	Semester

Notes and Information to Explore
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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.

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.