

Transfer Planning Guide

College of Engineering and Computer Science, Bachelor of Science in Engineering, 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. UM-Dearborn strongly recommends that prospective students work with our Transfer Specialists to ensure they are taking the correct courses.

Student Name:	Transfer School: Schoolcraft College
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Curriculum Requirements

Total Degree Credits Required	Maximum Number of Applicable Transfer Credits	Completed Applicable Credits
128	62	

1) Dearborn Discovery Core (6 credits)

The Dearborn Discovery Core (DDC) is the university’s general education program. Some requirements can be fulfilled by courses specific to the degree. Students can apply transfer credits on an individual basis or apply the Michigan Transfer Agreement as a whole. Students should check with their community college for details about the MTA. **Students must have the *Michigan Transfer Agreement Satisfied* designation posted on their transcript to take advantage of the MTA.**

UM-Dearborn Requirement	Corresponding MTA Requirement	Fulfilled With	Transfer Complete
Written & Oral Communication	English Composition/Comm	Degree Requirements	N/A
Written & Oral Communication	English Composition/Comm	Degree Requirements	N/A
Social & Behavioral Analysis	Social Science	Degree Requirements	N/A
Social & Behavioral Analysis	Social Science		<input type="checkbox"/>
Social & Behavioral Analysis	N/A		<input type="checkbox"/>
Humanities & the Arts	Humanities & Fine Arts	Degree Requirements	<input type="checkbox"/>
Humanities & the Arts	Humanities & Fine Arts	Degree Requirements	<input type="checkbox"/>

Quantitative Thinking	Mathematics	Degree Requirements	N/A
Natural Sciences	Natural Science lecture with a lab	Degree Requirements	N/A
Natural Sciences	Natural Science lecture	Degree Requirements	N/A
Upper-Level Writing Intensive	N/A	Degree Requirements	N/A
Critical and Creative Thinking	N/A	Degree Requirements	N/A
Intersections	N/A	Degree Requirements	N/A
Intersections	N/A	Degree Requirements	N/A
Capstone Experience	N/A	Degree Requirements	N/A

2) Prerequisites to the Major (56-58 credits)

UM-Dearborn Course or Requirement	Credits	Transfer Equivalent	Transfer Complete
COMP 105, Writing & Rhetoric I	3	ENG 101	<input type="checkbox"/>
COMP 270, Technical Writing for Engineers	3	ENG 116	<input type="checkbox"/>
ANTH 101, Introduction to Anthropology	3	ANTH 112	<input type="checkbox"/>
MATH 115, Calculus I	4	MATH 150	<input type="checkbox"/>
MATH 116, Calculus II	4	MATH 151	<input type="checkbox"/>
MATH 228, Diff Equations with Linear Algebra	4	MATH 252	<input type="checkbox"/>
IMSE 317, Eng Probability and Statistics	3	N/A	N/A
CHEM 134, General Chemistry IA	4	CHEM 111	<input type="checkbox"/>
BIOL 203, Anatomy and Physiology I	4	BIOL 237+238	<input type="checkbox"/>
PHYS 150 & 150L, General Physics I & Lab	4	PHYS 211	<input type="checkbox"/>
PHYS 151 & 151L, General Physics II & Lab	4	PHYS 212	<input type="checkbox"/>
ENGR 100, Intro to Engr and Engr Design	3	ENGR 100	<input type="checkbox"/>
Select one course from the list	2-4	CIS 211+221	<input type="checkbox"/>
ECE 210, Circuits	4	N/A	N/A
ENGR 250, Principles of Engineering Materials	3	N/A	N/A
ME 260, Design Stress Analyses or ME 265, Applied Mechanics	4	ENGR 201+202 or ENGR 201+202+203	<input type="checkbox"/>

3) Major Core (48 credits)

UM-Dearborn Course or Requirement	Credits	Transfer Equivalent	Transfer Complete
HCED 220, Engineering Design Communication	3	N/A	N/A
ENGR 360, Design Thinking: Process, Method, & Practice	4	N/A	N/A
HCED 370, Needfinding and Research Methods in Design	3	N/A	N/A
HCED 380 & 380L, Product Prototyping: Tools and Methods	4	N/A	N/A
IMSE 382, Manufacturing Processes	4	N/A	N/A
IMSE 421, Engineering Economy and Decision Analysis	3	N/A	N/A
IMSE 4425, Human Factors and Ergonomics	4	N/A	N/A
HCED 450 & 450L, Product Realization: Design and Making	4	N/A	N/A
HCED 4951, Capstone Project in HCED: Needfinding and Conceptualization	2	N/A	N/A
HCED 4952: Capstone Project in HCED: Design and Implementation	2	N/A	N/A
ART 210, Beginning Digital Design	3	N/A	N/A
ART 410, Advanced Digital Design	3	N/A	N/A
Select one course from the list	4	ART 115 or ART 116	<input type="checkbox"/>
Select two courses from the list	6	N/A	N/A

4) Concentrations: Choose one of the following (17-19 credits)

Mechanical Engineering Design Concentration

UM-Dearborn Course or Requirement	Credits	Transfer Equivalent	Transfer Complete
Select a minimum of four courses from the list	17-19	N/A	N/A
Other Technical Electives	0-4	BIOL 104	

Electrical Engineering Design Concentration

UM-Dearborn Course or Requirement	Credits	Transfer Equivalent	Transfer Complete
Select a minimum of four courses from the list	17-19	N/A	N/A
Other Technical Electives	0-4	BIOL 104	

Software Engineering and HCI Design Concentration

UM-Dearborn Course or Requirement	Credits	Transfer Equivalent	Transfer Complete
Select a minimum of four courses from the list	17-19	N/A	N/A
Other Technical Electives	0-4	BIOL 104	

Systems Engineering Design Concentration (17-19 credits)

UM-Dearborn Course or Requirement	Credits	Transfer Equivalent	Transfer Complete
Select a minimum of four courses from the list	17-19	N/A	N/A
Other Technical Electives	0-4	BIOL 104	

Individualized Concentration (17-19 credits)

UM-Dearborn Course or Requirement	Credits	Transfer Equivalent	Transfer Complete
Choose 3 courses in CIS, ECE, IMSE, or ME from the other concentrations	9-12	N/A	N/A
Recommended/General Electives	5-10	BIOL 104	<input type="checkbox"/>

Notes and Information to Explore

Admission Information

1) Admission Requirements

- Detailed information can be found on the [Apply as a Transfer Student website](#).
- Submission of an application and transcripts from every college/university attended.
- Transfer students with less than 24 completed college credits must also provide their high school transcripts.

- A minimum cumulative grade point average of 2.50 for all majors with one exception.
 - Minimum 2.75 for the College of Engineering and Computer Science if Calculus II is not complete.

2) Application Deadlines

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

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

3) Transfer Policies

- Courses must be completed with a minimum grade of C to be accepted for transfer.
- Courses accepted for transfer are not guaranteed to apply towards the chosen degree program.
- There is no limit to the number of credits that can be transferred, however, a minimum of 30 credits must be completed at UM-Dearborn to earn a degree.
- For specific questions about program requirements, contact the Office of Undergraduate Admissions Transfer Team at transferteam@umich.edu.
- 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.