

HENRY FORD COLLEGE

College of Engineering and Computer Science

Bachelor of Science in Engineering

Transferring to the University of Michigan-Dearborn is easier than you think!

Utilize this transfer guide for a smooth transition into the College of Engineering and Computer Science (CECS).

MICHIGAN DIFFERENCE

At the University of Michigan-Dearborn, we emphasize hands-on learning, small class sizes, engaged faculty and a commitment to impact southeast Michigan. Students are developed to become Difference Makers in the workplace and in the community long before graduation.

We are addressing challenges to the region head-on through pioneering research, strategic partnerships and civic engagement. We are creative thinkers, innovators and leaders, and we're proud to call Dearborn home. Our beautiful campus, once the grounds of the Henry Ford Estate, continues to foster his bold spirit of entrepreneurship and collaboration.

After graduation from UM-Dearborn, you will become a member of the University of Michigan Alumni Association – one of the largest living alumni networks in the world.

FACULTY & THE CLASSROOM

All of our bachelor's, master's, doctoral and professional degree programs are designed and led by highly qualified and engaged faculty, not teaching assistants.

Classes are small—undergraduate lectures average 24 students and the student/faculty ratio is 15:1. Whatever your course of study, you'll get plenty of personal attention and support.

BACHELOR OF SCIENCE IN ENGINEERING MAJORS

- Bioengineering (BENG)
- Computer Engineering (COEN)
- Electrical Engineering (EE)
- Industrial and Systems Engineering (IMSE)
- Manufacturing Engineering (MFGE)
- Mechanical Engineering (ME)
- Robotics Engineering (RE)

For other College of Engineering and Computer Science majors, please see the Bachelor of Science Transfer Guide.

RESOURCES

For more transfer information, visit your hub: umdearborn.edu/hfc

To determine credit evaluation for courses not listed, view the Course Transfer System at umdearborn.edu/cts

ADMISSION GUIDELINES

- Students must have a minimum of 24 transferable credit hours with a transferable grade point average (GPA) of at least 2.75 to be admitted into these programs. A GPA of a 2.75 is also required in Math, Science and Engineering Courses respectively.
- A maximum of 72 credit hours transfer into CECS from Henry Ford College.
- Courses with a grade of C- or below do not transfer for credit; however will be used in the admission GPA recalculation.
- It is the responsibility of the student to stay abreast of any changes related to their transfer. For specific questions about program requirements, call the CECS Office of Advising and Academic Success at (313) 593-5510 or visit umdearborn.edu/cecs.

MICHIGAN TRANSFER AGREEMENT (MTA)

UM-Dearborn signed the MTA to participate as a receiving institution. Students should check with their community college to determine which courses can be used to fulfill MTA categories and learn the details for obtaining an MTA endorsement on their transcript. By utilizing the suggested courses, students can reduce the total number of courses they need to fulfill all transferable requirements.

Michigan Transfer Agreement (MTA) ➡ UM-Dearborn Discovery Core (DDC)

HFC students who complete the MTA transfer a core block of lower-level community college credits to satisfy a portion of UM-Dearborn's Discovery Core (general education). This document outlines what courses students complete as part of the MTA and how they apply to the DDC.

Subject	MTA* 30 credits must be earned from the disciplines below.	DDC Requirements**	Remaining DDC Requirements (after MTA)
English Composition	One course in English Composition And Second course in English Composition Or One Course in Communications (ENG 131 or 131H and ENG 135 required)	6 credits of Written and Oral Communication	Satisfied
Social Science	Two courses in Social Science from two disciplines (BEC 151 recommended)	9 credits Social and Behavioral Analysis	3 credits of Social and Behavioral Analysis
Humanities/ Fine Arts	Two courses in humanities/fine arts from two disciplines	6 credits Humanities and the Arts	Satisfied
Mathematics	One course in Mathematics (MATH 180 or above required)	3 credits in Quantitative Thinking and Problem Solving	Satisfied
Natural Science & Laboratory Experience	Two courses in Natural Science from two disciplines with at least one laboratory experience (PHYS 231 and CHEM 141 required)	7 credits in Natural Sciences	Satisfied
Upper-Level Writing	N/A	3 credits of Upper-Level Writing Intensive Course	3 credits of Upper-Level Writing Intensive Course***
Critical and Creative Thinking	N/A	3 credits of Critical and Creative Thinking	3 credits of Critical and Creative Thinking***
Intersections	N/A	6 Upper-Level Credits	6 Upper-Level Credits***
Capstone Experience	N/A	3 credits of Capstone	3 credits of capstone***
Total Credits	30 If total credit hour is less than 30, additional coursework from the above concentrations must be completed to satisfy the MTA.	45-46	15

Please note, additional math and sciences courses are required for a degree earned from the College of Engineering and Computer Science.

Students who do not complete the entire MTA, or complete courses in addition to the MTA, will receive a course by course evaluation that makes clear how many credits transfer and which DDC requirements still remain. To figure out which HFC courses fulfill DDC requirements, students should consult the DDC approved course list (umdearborn.edu/dearborn_discovery_core) and use the Course Transfer System (umdearborn.edu/cts) to identify the HFC equivalencies.

*For information on HFC MTA: hfcc.edu/registration-and-records/mta

**For information on the DDC: umdearborn.edu/Dearborn_discovery_core

***These courses typically are completed through major degree requirements and may overlap with one another

Recommended Courses to follow the Dearborn Discovery Core (DDC)

Utilize the following guide to determine what HFC courses are defined as equivalencies at UM-Dearborn. This guide is not a complete listing of all courses required to obtain a degree.

Humanities & the Arts (6 credits)	
HFC	UM-Dearborn
ART 121	ARTH 101
ART 122	ARTH 102
ART 126	ARTH 106
ART 123, 221, 225, 226, or 227	ARTH Lower Distribution
ENG 231	ENGL 231
ENG 248	ENGL 239
ENG 246	LIBR 465
HON 251	HUM Lower Distribution
WR 130, 132, 232, 233, 240	HUM Lower Distribution
MUS 130	MHIS 100
MUS 132, 133, 232, 233	MHIS Lower Distribution
PHIL 130	PHIL 100
PHIL 133, 135, 137, 138, 201	PHIL Lower Distribution
PHIL 139	PHIL 240
TCM 132	JASS 240
WR 131	HUM 201

Social & Behavioral Analysis (9 credits)	
HFC	UM-Dearborn
ANTH 131	ANTH 101
ANTH 151, 152, 153	ANTH Lower Distribution
BEC 151 (required)	ECON 201 (required)*
BEC 152	ECON 202
CRJ 131	CRJ 200
EDU 201	EDA 205
HIST 111	HIST 101
HIST 113	HIST 103
HIST 151	HIST 111
HIST 152	HIST 112
HIST 222, 226, 239, 243, 250, 252, 254, 256, 258, 261, 268, 270, 273, 281, 283, 285, 286	HIST Lower Distribution
POL 131	POL 101
POL 153	POL 201
POL 152, 155, 200, 201	POL Lower Distribution
PSY 131	PSYC 101
PSY 153, 161, 251, 253, 254, 255, 257, 260, 261	PSYC Lower Distribution
PSY 256	EDC 300
SOC 131	SOC 200
SOC 151	SOC 201
SOC 132, 152, 251, 253, 254	SOC Lower Distribution

*BEC 151 is required for B.S.E. degrees and counts as 3 of the 9 required credits

Written & Oral Communication

(6 credits)

HFC	UM-Dearborn
ENG 131 (or 131H)	COMP 105
ENG 132 or 135 or (132H)	COMP 106 or 270

All UM-Dearborn students, both freshmen and transfers, are required to take the English Composition placement test. Students who have taken ENG 131 and 135 (or 131 and 132), but place below Comp 105 will need to take Comp 227 at UM-Dearborn.

REQUIRED COURSES FOR DEGREE

Mathematics*

HFC	UM-Dearborn (16 credits)
MATH 180	MATH 115
MATH 183	MATH 116
MATH 280	MATH 215
MATH 288	MATH 228

* Meets DDC Quantitative Thinking and Problem Solving requirement.

Chemistry*

HFC	UM-Dearborn (8 credits)
CHEM 141	CHEM 134
CHEM 142**	CHEM 136

*Meets DDC Natural Sciences requirement

**Not for EE, COEN, or RE

Engineering

HFC	UM-Dearborn (2 credits)
ENGR 130	ENGR 100

Physics*

HFC	UM-Dearborn (8 credits)
PHYS 231	PHYS 150
PHYS 232	PHYS 151

*Meets DDC Natural Sciences requirement

REQUIRED COURSES BY MAJOR

Choose carefully from the courses below; they only count for the specified major

HFC	UM-Dearborn
BENG only	
BIO 152	BIOL 140
BIO 233+234*	BIOL 103 and 105
COEN only	
MATH 275	ECE/MATH 276
IMSE only	
BAC 131	ACC 298
BAC 132	ACC 299
ME only	
ENGR 233**	ME 345
EE, COEN, RE only	
ENGR 240	ECE 210
BENG, IMSE, MFGE, ME only	
DRAF 120 (or127)	ENGR 126
ENGR 201	ENGR 250
IMSE, MFGE, ME only	
ENGR 232**	ME 260

*Only 4 credits of paired courses will count toward degree.

**ENGR 233 and ENGR 232 each transfer as 3 credits. The one missing credit made up by one additional UM-D ENGR major elective credit.