

Transfer Planning Guide

College of Engineering and Computer Science BS in Data Science

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 120	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 (18 credits)	Fulfilled with	MTA Requirement
Written & Oral Communication	Satisfied by degree requirements COMP 105 Satisfied by degree requirements COMP 270	2 courses in English Composition/Communications
Social & Behavioral Analysis		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 SCI SEQ Satisfied by degree requirements SCI SEQ	2 courses in Natural Science; one with a lab
Upper-Level Writing Intensive	Satisfied by degree requirements CIS 375	N/A
Critical and Creative Thinking	Satisfied by degree requirements CIS 4971	N/A
Intersections	Satisfied by degree req ENGR 400/ENT 400	N/A
Capstone Experience	Satisfied by degree requirements CIS 4972	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
Prerequisite Courses (40-41 credits)	
COMP 105, Writing & Rhetoric	Completed
COMP 270, Tech Writing for Engineers	
MATH 115, Calculus I	
MATH 116, Calculus II	
MATH 215, Calculus III	
MATH 227, Introduction to Linear Algebra	
CIS 1501, CS I for Data Scientists	
CIS 2001, CS II for Data Scientists	
CIS 275, Discrete Structures, MATH 276, Discrete Structures, or MATH 315, Applied Combinatorics	
Choose one lab science sequence: BIOL 130 & 320	
CHEM 134 & 136	
GEOL 118 & 218	
PHYS 125 & 126	
PHYS 150 & 151	

*This course is not equivalent to BIOL 320, but can be used to waive it.

**If both physics sequences are taken, credit will be applied for one sequence only.

Major Core (39 credits)		
CIS 350, Data Structure and Algorithm Analysis	4	
CIS 375, Software Engineering I	4	
ECE 3100, Data Science I	4	
CIS 3200, Data Science II	4	
CIS 422, Massive Data Management	4	
ENGR 400, Appl Business Tech for Engr or ENT 400, Entr Think & Behav	3	
HHS 470, Information Science and Ethics	3	
STAT 305, Introduction to Data Science for All	3	
STAT 325, Applied Statistics I or IMSE 317, Engr Probability and Stats	3	
STAT 430, Applied Regression Analysis	3	
CIS 4971, Capstone Seminar for Data Science I	2	
CIS 4972, Capstone Project for Data Science II	2	

Data Science Applications (18 credits)
Must complete 18 credit hours in one of the following areas. Application area courses must be approved by the department chair.
Applied Social and Behavioral Science Analytics: Choose 18 credits from one of the following areas: ANTH, CRJ, ECON, HIST, POLS, PSYC, or SOC.
Business Analytics: DS 310, Data Mining for Business Intelligence and choose 15 credits from one of the following areas: ACC, FIN, ISM, MKT, or OM
Computational Analytics: Choose 18 credits from courses focusing on Applied Statistics, Mathematics or CECS.
Health and Medicine Analytics: Take 18 credits from courses focusing on health and medicine.

Electives (4-5 credits)
Data Science Electives: Choose from the list of course options. (3-4 credits)
General Electives: As many 100 to 400 level courses, not on the No Credit list, as needed to reach a minimum of 120 credits for graduation. (0-2 credits)

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.