

Transfer Planning Guide

College of Engineering and Computer Science Bachelor of Science: 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. 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
120	46	

1) Dearborn Discovery Core (18 credits)

The Dearborn Discovery Core (DDC) is the university's general education program. Some requirements can be fulfilled by courses specific to this degree, some must be completed at UM-Dearborn, and some can be fulfilled by transfer courses. Students can apply transfer credits toward individual requirements or utilize the Michigan Transfer Agreement. Check with your 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		<input type="checkbox"/>
Social & Behavioral Analysis	Social Science		<input type="checkbox"/>
Social & Behavioral Analysis	N/A		<input type="checkbox"/>
Humanities & the Arts	Humanities & Fine Arts		<input type="checkbox"/>
Humanities & the Arts	Humanities & Fine Arts		<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	UMD Approved Course	N/A
Capstone Experience	N/A	Degree Requirements	N/A

2) Prerequisites to the Major (40-41 credits)

UM-Dearborn Course or Requirement	Credits	Transfer Equivalent	Transfer Complete
COMP 105, Writing & Rhetoric I	3	ENG 101	<input type="checkbox"/>
COMP 270, Tech Writing for Engineers	3	ENG 116 or 102	<input type="checkbox"/>
MATH 115, Calculus I	4	MATH 150	<input type="checkbox"/>
MATH 116, Calculus II	4	MATH 151	<input type="checkbox"/>
MATH 215, Calculus III	4	MATH 240	<input type="checkbox"/>
MATH 227, Introduction to Linear Algebra	3	MATH 230	<input type="checkbox"/>
CIS 1501, CS I for Data Scientists	4	N/A	N/A
CIS 2001, CS II for Data Scientists	4	N/A	N/A
CIS 275, Discrete Struct, MATH 276, Discrete Math, or MATH 315, Applied Combinatorics	3-4	N/A	N/A
Choose a two-course lab science sequence: BIOL 130 & 320, CHEM 134 & 136, GEOL 118 & 218, PHYS 125/125L & 126/126L, PHYS 150/150L & 151/151L**	8	BIOL 130&120*, CHEM 111&117 EARTH 140&240, PHYS 181&182, PHYS 211&212	<input type="checkbox"/> <input type="checkbox"/>

*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.

3) Major Core (39-40 credits) Courses are not transferable from a community college.

UM-Dearborn Course or Requirement	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, Applied Business Tech for Engr or ENT 400, Entrepreneurial Thinking & Behavior	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	3-4
STAT 430, Applied Regression Analysis	3
CIS 4971, Capstone Seminar for Data Science I	2
CIS 4972, Capstone Project for Data Science II	2

4) Data Science Applications (18 credits) Must choose one. Application area courses must be approved in advance by Department Chair.

Application Options and Requirements
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.

5) Electives (5-6 credits)

UM-Dearborn Course or Requirement	Credits	Transfer Equivalent	Transfer Complete
Data Science Electives: <u>Choose from the list of course options.</u>	3-4	N/A	N/A
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		<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.

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