

## Transfer Planning Guide

College of Arts, Sciences, and Letters, Bachelor of Arts or Science:

Biochemistry, Biological Sciences, Chemistry, Environmental Science, Microbiology, Physics

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 (21-30 credits)	Fulfilled with	MTA Requirement
Written & Oral Communication		English Composition /Communications
Written & Oral Communication		English Composition /Communications
Social & Behavioral Analysis		Social Science
Social & Behavioral Analysis		Social Science
Social & Behavioral Analysis		N/A
Humanities & the Arts	Satisfied by degree requirements: all majors	Humanities & Fine Arts
Humanities & the Arts		Humanities & Fine Arts
Quantitative Thinking/Problem Solving	Satisfied by degree requirements: all majors	Mathematics
Natural Sciences	Satisfied by degree requirements: all majors	Natural Science lecture with a lab
Natural Sciences	Satisfied by degree requirements: all majors	Natural Science lecture
Upper-Level Writing Intensive	Satisfied by degree requirements: BCHM, BIOL, ESCI:ESS	N/A
Critical and Creative Thinking		N/A
Intersections	Satisfied by degree requirements: BIOL, ESCI:ESS	N/A
Intersections	Satisfied by degree requirements: BIOL, ESCI:ESS	N/A
Capstone Experience	Satisfied by degree requirements: all majors	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.**

Foreign Language Requirement (8 credits)	
UM-Dearborn Course Name and Credits	Transfer Equivalent
Choose one language sequence. 8	
ARBC 101 & 102	
FREN 101 & 102	
GER 101 & 102	
SPAN 101 & 102	
Foreign Language	

Waivers to the foreign language requirement can be found [in the catalog](#).

Foundations Requirement (4 credits)	
UM-Dearborn Course Name and Credits	Transfer Equivalent
<a href="#">Foundations Course Options</a> , select one class	4

# CHOOSE ONE OF THE FOLLOWING MAJORS

BIOCHEMISTRY	
UM-Dearborn Course Name and Credits	Transfer Equivalent
<b>Prerequisites to the Major</b> (44 credits)	
BCHM 210, Biochemistry Laboratory Techniques	2
BIOL 130, Intro Organismal and Environmental Biology	4
BIOL 140, Intro Molecular and Cellular Biology	4
CHEM 225, Organic Chemistry I	4
CHEM 226, Organic Chemistry II	4
CHEM 227, Organic Chemistry Lab	2
MATH 115, Calculus I	4
MATH 116, Calculus II	4
Select One	8
CHEM 134 & 136, General Chemistry IA & IIA	
CHEM 144 & 146, General Chemistry IB & IIB	
Select One	8
PHYS 125 & 126, Intro Physics I & II	
PHYS 150 & 151, General Physics I & II	
<b>Major</b> (33-34 credits)	
BCHM 470, Biochemistry I	4
BCHM 471, Biochemistry II	4
BCHM 472, Biochemistry Laboratory I	2
BCHM 473, Biochemistry Laboratory II	2
BCHM 474, Molecular Biology	4
BCHM 475, Molecular Biology Laboratory	2
CHEM 368, Physical Chemistry 1	4
BCHM upper-level courses	8
Select One	3-4
STAT 301, Biostatistics I	
STAT 325, Applied Statistics I	
STAT 455, Environmental Statistics	

BIOLOGICAL SCIENCES	
UM-Dearborn Course Name and Credits	Transfer Equivalent
<b>Prerequisites to the Major</b> (41-42 credits)	
BIOL 130, Intro Organismal and Environmental Biology	4
BIOL 140, Intro Molecular and Cellular Biology	4
CHEM 134, General Chemistry 1A	4
CHEM 136, General Chemistry IIA	4
CHEM 225, Organic Chemistry I	4
CHEM 226, Organic Chemistry II	4
CHEM 227, Organic Chemistry Lab	2
MATH 113 or 115, Calculus I	4
Select one of the following PHYS sequences	8
PHYS 125 & 126, Intro Physics I & II	
PHYS 150 & 151, General Physics I & II	
Select one of the following	3-4
MATH 114 or MATH 116, Calculus II	
STAT 301, Biostatistics I	

STAT 455, Environmental Statistics		
<b>Major (30-32 credits)</b>		
BIOL 306, General Genetics	4	
Ecology, <a href="#">select one course from list</a>	4	
Ecology Lab, <a href="#">select one course from list</a>	1-4	
BIOL 360, Population Genetics & Evolution	4	
Organismal Biology, <a href="#">select one course from list</a>	4	
Organismal Lab, <a href="#">select one course from list</a>	2	
Cell & Molecular, <a href="#">select one course from list</a>	4	
Cell & Molecular Lab, <a href="#">select one course from list</a>	2	
Capstone Experience, <a href="#">select one course from list</a>	3-4	

CHEMISTRY		
UM-Dearborn Course Name and Credits		Transfer Equivalent
<b>Prerequisites to the Major (42 credits)</b>		
CHEM 134, General Chemistry 1A	4	
CHEM 136, General Chemistry IIA	4	
CHEM 225, Organic Chemistry I	4	
CHEM 226, Organic Chemistry II	4	
CHEM 227, Organic Chemistry Lab	2	
BIOL 140, Intro Molecular and Cellular Biology	4	
PHYS 150, General Physics I	4	
PHYS 151, General Physics II	4	
MATH 115, Calculus I	4	
MATH 116, Calculus II	4	
MATH 215, Calculus III	4	
<b>Major (38 credits)</b>		
CHEM 303, Inorganic Chemistry	4	
CHEM 344, Quantitative Analysis	4	
CHEM 368, Physical Chemistry I	4	
CHEM 370, Principles of Biochemistry	4	
CHEM 403, Inorganic Chemistry	4	
CHEM 447, Instrumental Methods of Analysis	4	
CHEM 453, Advanced Synthesis & Characterization Lab	4	
CHEM 469, Physical Chemistry II	4	
CHEM 481, Physicochemical Measurements	2	
Electives, <a href="#">select from list</a>	4	

ENVIRONMENTAL SCIENCES		
UM-Dearborn Course Name and Credits		Transfer Equivalent
<b>Major (24-27 credits)</b>		
ESCI 101, Environmental Science	4	
ESCI 201, Environmentalism	4	
ESCI 118, Geology I	4	
ESCI 304, Ecology	4	
ESCI 305, Intro to GIS	4	
Internship/Research experience, <a href="#">choose one course from list</a>	3	
Field Experience, <a href="#">choose one course from list</a>	1-4	
<b>Concentrations (44-50 credits), choose one</b>		
<b>B.S. in Ecosystem Sciences</b>		
BIOL 130, Intro Org and Environ Biology	4	
CHEM 134, General Chemistry IA	4	
CHEM 136, General Chemistry IIA	4	
Statistics, <a href="#">choose one option from list</a>	3-8	
ESCI 340, Remote Sensing	4	
ESCI 348, Environmental Chemistry	4	
ESCI 350, Geomorphology	4	

ESCI 440, Advanced GIS	4	
Concentration Electives, <a href="#">choose courses from the list</a>	17	
<b>B.S. in Geosciences</b>		
BIOL 130, Intro Org and Environ Biology	4	
CHEM 134, General Chemistry IA	4	
CHEM 136, General Chemistry IIA	4	
Statistics, <a href="#">choose one option from list</a>	3-8	
ESCI 313, Earth Materials	4	
ESCI 340, Remote Sensing	4	
ESCI 348, Environmental Chemistry	4	
ESCI 350, Geomorphology	4	
ESCI 370, Environmental Hazards	4	
ESCI 372, Energy and the Environment	4	
ESCI 375, Groundwater Hydrology	4	
ESCI 440, Advanced GIS	4	
ESCI 485, Spatial Analysis	3	
<b>B.A. in Environmental and Sustainability Studies</b>		
BIOL 130, Intro Org and Environ Biology	4	
CHEM 134, General Chemistry IA	4	
STAT 263, Introduction to Statistics	3	
ESCI 370, Environmental Hazards	4	
ESCI 372, Energy and the Environment	4	
ESCI 401, Sustainable Cities	4	
ENST 474, Environmental Education	2-3	
ESCI 486, Environmental Interpretation	2-3	
Concentration Electives, <a href="#">choose courses from the list</a>	17-20	

<b>MICROBIOLOGY</b>		
UM-Dearborn Course Name and Credits		Transfer Equivalent
<b>Prerequisites to the Major (41-42 credits)</b>		
BIOL 140, Intro Molecular and Cellular Biology	4	
MICR 285, Microbiology	4	
CHEM 134, General Chemistry 1A	4	
CHEM 136, General Chemistry IIA	4	
CHEM 225, Organic Chemistry I	4	
CHEM 226, Organic Chemistry II	4	
CHEM 227, Organic Chemistry Lab	2	
MATH 115, Calculus I	4	
Select one of the following	3-4	
MATH 114 or MATH 116, Calculus II		
STAT 301, Biostatistics I		
STAT 327, Statistical Computing		
Select one of the following PHYS sequences	8	
PHYS 125 & 126, Intro Physics I & II		
PHYS 150 & 151, General Physics I & II		
<b>Major (31 credits)</b>		
BIOL 306, General Genetics	4	
MICR 405, Environmental & Public Health Microbiology	4	
MICR 407, Environmental & Public Health Microbiology Lab	2	
MICR 440, Microbial Genetics & Physiology Laboratory	2	
MICR 459, Pathogenic Microbiology	4	
MICR 485, Physics & Biochemistry of Microorganisms	4	
<a href="#">Select one research/seminar course from the list</a>	1	
Microbiology, <a href="#">select 4 credits from the list</a>	4	
Electives, <a href="#">select 6 credits from the list</a>	6	

PHYSICS		
UM-Dearborn Course Name and Credits		Transfer Equivalent
Prerequisites to the Major (36 credits)		
CHEM 134, General Chemistry 1A	4	
PHYS 150, General Physics I	4	
PHYS 151, General Physics II	4	
MATH 115, Calculus I	4	
MATH 116, Calculus II	4	
MATH 215, Calculus III	4	
Select two additional courses from:	8	
BIOL 130, Intro Org and Environ Bio or 140, Intro Molec & Cellular Bio		
CHEM 136, General Chemistry IIA		
GEOL 118, Physical Geology		
Major (37 credits)		
PHYS 305, Contemporary Physics	3	
PHYS 360, Instrumentation for Scientists	4	
PHYS 401, Mechanics	3	
PHYS 403, Electricity and Magnetism	3	
PHYS 406, Thermal and Statistical Physic	3	
PHYS 453, Quantum Mechanics	3	
PHYS 460, Advanced Physics Laboratory	3	
Select six additional credits from <a href="#">the list</a>	6	
Select one class from	3	
PHYS 460, Advanced Physics Laboratory		
PHYS 495, Off-Campus Research		
PHYS 499, Laboratory Studies in Physics		
Cognates, select six credits <a href="#">from list</a>	6	

Upper-Level Coursework (48* credits)		

300/400 level courses required by the major apply toward the 48-credit requirement

Electives		

Any transferable course can be applied as an elective. All transferable courses can be found in the Course Transfer system <http://umdearborn.edu/cts/>.

Your Transfer Plan				
Semester	Semester	Semester	Semester	Semester

Notes and Information to Explore

**College of Arts, Sciences, and Letters Admission**

- Submission of an application and transcripts from every college/university attended.
- A minimum cumulative grade point average of 2.50.

**Transfer Credit Policies**

- A minimum of 30 credits must be completed at UM-Dearborn to earn a degree.
- 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](mailto: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.