

SWENSON COLLEGE OF SCIENCE & ENGINEERING

UNIVERSITY OF MINNESOTA DULUTH

Driven to Discover

Fond du Lac Community College to UMD Transfer Guide

Fall 2021

University of Minnesota Duluth: [Swenson College of Science and Engineering](#)Advising and Academic Services: 218 726 7585 scsesadv@d.umn.edu

BS & BA DEGREES

Biochemistry, BS and BA
Biology, BS and BA
Computer Science, BS and BA
Environmental Science, BS
Geological Sciences, BS and BA
Mathematics, BS
Statistics & Actuarial Science, BS
Physics, BS and BA

ENGINEERING DEGREES

Chemical Engineering, BSChE
Civil Engineering, BSCE
Electrical Engineering, BSEE
Engineering Physics, BSEE
Industrial Engineering, BSIE
Mechanical Engineering, BSME

Listed below are courses that transfer to UMD into the Bachelor of Science majors and are recommended for the first two years of study. Transfer students entering UMD in science and engineering majors should complete as many applicable math and science courses as possible before transferring to UMD.

Information on the Bachelor of Arts majors can be found at the UMD website and course equivalencies found in [Transferology](#). We welcome telephone calls, emails, and visits from transfer students (and their advisors!) as they plan their coursework and degree.

Biology BS

The following courses apply to the Biology BS major at UMD

FDLTCC Course	UMD Course
ENGL 1101 College Composition & ENGL 1102 Advanced College College Composition (take 2 courses)	Writ 1120 College Writing
Biol 1101 General Biology I & Lab & Biol 1102 General Biology II & Lab (take 2 courses)	Biol 1011 General Biology I (<i>Equivalent to Biol 1013 General Biology I for Science & Engineering Majors</i>) Biol 1012 General Biology II
Biol 1102 General Biology II & Lab	Biol 1012 General Biology II
Biol 2050 Principles of Ecology w/Lab	Biol 2801 General Ecology
Chem 1010 General Chemistry I	Chem 1153 & 1154 General Chemistry I & Lab
Chem 1011 General Chemistry II	Chem 1155 & 1156 General Chemistry II & Lab
Chem 2010 Organic Chemistry I & Lab	Chem 2541 & 2543 Organic Chemistry I & Lab
Chem 2011 Organic Chemistry II & Lab (<i>Required for the Genetics, Cell & Development Sub-plan. Not required for the Ecology, Evolution & Behavior Sub-plan, but can be applied toward the Chemistry Requirement for this Sub-plan</i>)	Chem 2542 & 2544 Organic Chemistry II & Lab
Math 2001 Calculus I	Math 1296 Calculus I
Math 2002 Calculus II (<i>not required but can be applied toward Quantitative Reasoning Requirement for the</i>	Math 1297 Calculus II

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Biochemistry BS*The following courses apply to the Biochemistry BS at UMD*

FDLTCC Course	UMD Course
ENGL 1101 College Composition & ENGL 1102 Advanced College College Composition (take 2 courses)	Writ 1120 College Writing
Biol 1101 General Biology I & Lab Biol 1102 General Biology II & Lab (take 2 course)	Biol 1011 General Biology I Biol 1012 General Biology II
Biol 1102 General Biology II & Lab	Biol 1012 General Biology II
Chem 1010 General Chemistry I	Chem 1153 & 1154 General Chemistry I Lec & Lab (<i>Equivalent to Chem 1173 & 1174 General Chemistry I & Lab for Majors</i>)
Chem 1011 General Chemistry II	Chem 1155 & 1156 General Chemistry I Lec & Lab (<i>Equivalent to Chem 1175 & 1176 General Chemistry II & Lab for Majors</i>)
Chem 2010 Organic Chemistry I & Lab	Chem 2541 & 2543 Organic Chemistry I & Lab
Chem 2011 Organic Chemistry II & Lab	Chem 2542 & 2544 Organic Chemistry II & Lab
Math 2001 Calculus I	Math 1296 Calculus I
Math 2002 Calculus II	Math 1297 Calculus II

Chemistry BS*The following courses apply to the Chemistry BS major at UMD*

FDLTCC Course	UMD Course
ENGL 1101 College Composition & ENGL 1102 Advanced College College Composition (take 2 courses)	Writ 1120 College Writing
Chem 1010 General Chemistry I	Chem 1153 & 1154 General Chemistry I Lec & Lab (<i>Equivalent to Chem 1173 & 1174 General Chemistry I & Lab for Majors</i>)
Chem 1011 General Chemistry II	Chem 1155 & 1156 General Chemistry I Lec & Lab (<i>Equivalent to Chem 1175 & 1176 General Chemistry II & Lab for Majors</i>)
Chem 2010 Organic Chemistry I & Lab	Chem 2541 & 2543 Organic Chemistry I & Lab
Chem 2011 Organic Chemistry II & Lab	Chem 2542 & 2544 Organic Chemistry II & Lab
Math 2001 Calculus I	Math 1296 Calculus I
Math 2002 Calculus II	Math 1297 Calculus II

Computer Science BS*The following courses apply to the Computer Science BS major at UMD*

FDLTCC Course	UMD Course
ENGL 1101 College Composition & ENGL 1102 Advanced College College Composition (take 2 courses)	Writ 1120 College Writing
Math 2001 Calculus I	Math 1296 Calculus I

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Biol 1101 General Biology I & Lab Biol 1102 General Biology II & Lab (take 2 courses)	Biol 1011 or 1013 General Biology I Biol 1012 General Biology II
<i>or</i>	<i>or</i>
Chem 1010 General Chemistry I Chem 1011 General Chemistry II	Chem 1153 & 1154 General Chemistry I & Lab Chem 1155 & 1156 General Chemistry II & Lab
<i>or</i>	<i>or</i>
Geol 1001 Introduction to Geology Geol 2010 Geomorphology	Geol 1110 Geology & Earth Systems Geol 3210 Geomorphology <i>Note: Students will need to take one more geology class at UMD. See UMD's catalog for approved classes.</i>

Environmental Sciences BS

The following courses apply to the Environmental Science BS major at UMD

FDLTCC Course	UMD Course
ENGL 1101 College Composition & ENGL 1102 Advanced College College Composition (take 2 courses)	Writ 1120 College Writing
Econ 2020 or 2010 Principles of Macro <i>or</i> Micro Economics	Econ 1022 <i>or</i> 1023 Principles of Economics: Macro <i>or</i> Micro
Biol 1101 General Biology I & Lab & Biol 1102 General Biology II & Lab (take 2 courses)	Biol 1011 General Biology I & Biol 1012 General Biology II
Biol 1102 General Biology II & Lab	Biol 1012 General Biology II
Biol 2050 Principles of Ecology w/Lab	Biol 2801 General Ecology
Chem 1010 General Chemistry I	Chem 1153 & 1154 General Chemistry I & Lab
Chem 1011 General Chemistry II	Chem 1155 & 1156 General Chemistry II & Lab
Econ 2020 or 2010 Principles of Macro <i>or</i> Micro Economics	Econ 1022 <i>or</i> 1023 Principles of Economics: Macro <i>or</i> Micro
Geol 1001 Introduction to Geology	Geol 1110 Geology & Earth Systems
Geol 2010 Geomorphology <i>(not required but can be applied toward Concentration Electives)</i>	Geol 3210 Geomorphology
Phys 1030 Meteorology	Geog 3401 Weather & Climate
Geog Geo Information Systems I <i>(not required but can be applied toward Concentration Electives)</i>	GIS 3563 Geographic Information Science I: Theory & Analysis
Math 2001 Calculus I	Math 1296 Calculus I
Math 2002 Calculus II	Math 1297 Calculus II

Geological Sciences BS

The following courses apply to the Geology BS major at UMD

FDLTCC Course	UMD Course
ENGL 1101 College Composition & ENGL 1102 Advanced College College Composition (take 2 courses)	Writ 1120 College Writing
Chem 1010 General Chemistry I	Chem 1153 & 1154 General Chemistry I & Lab
Chem 1011 General Chemistry II	Chem 1155 & 1156 General Chemistry II & Lab

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Geog Geo Information Systems I <i>(not required but can be applied toward Advanced Electives)</i>	GIS 3563 Geographic Information Science I: Theory & Analysis
Math 2001 Calculus I	Math 1296 Calculus I
MATH 2002 Calculus II	Math 1297 Calculus II
Phys 1001 Introduction to Physics I & Lab & Phys 1002 Introduction to Physics II & Lab	Phys 1001 Introduction to Physics I & Phys 1002 Introduction to Physics II

Mathematics BS
Statistics and Actuarial Science BS

The following courses apply to Math or Statistics major at UMD

FDLTCC Course	UMD Course
ENGL 1101 College Composition & ENGL 1102 Advanced College College Composition (take 2 courses)	Writ 1120 College Writing
Math 2001 Calculus I	Math 1296 Calculus I
Math 2002 Calculus II	Math 1297 Calculus II
Math 2020 Discrete Mathematics	Math 3355 Discrete Mathematics

Physics BS

The following courses apply to the Physics BS major at UMD

FDLTCC Course	UMD Course
ENGL 1101 College Composition & ENGL 1102 Advanced College College Composition (take 2 courses)	Writ 1120 College Writing
Math 2001 Calculus I	Math 1296 Calculus I
Math 2002 Calculus II	Math 1297 Calculus II

Chemical Engineering BSChE

The following courses apply to Chemical Engineering at UMD

FDLTCC Course	UMD Course
ENGL 1101 College Composition & ENGL 1102 Advanced College College Composition (take 2 courses)	Writ 1120 College Writing
Chem 1010 General Chemistry I	Chem 1153 & 1154 General Chemistry I & Lab
Chem 1011 General Chemistry II	Chem 1155 & 1156 General Chemistry II & Lab
Chem 2010 Organic Chemistry I & Lab	Chem 2541 & 2543 Organic Chemistry I & Lab
Chem 2011 Organic Chemistry II & Lab	Chem 2542 & 2544 Organic Chemistry II & Lab
Math 2001 Calculus I	Math 1296 Calculus I
Math 2002 Calculus II	Math 1297 Calculus II
Math 2020 Discrete Mathematics <i>(not required but can be applied toward the Advanced Mathematics or Statistics Electives)</i>	Math 3355 Discrete Mathematics

Civil Engineering BSCE

The following courses apply to the Civil Engineering major at UMD

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Econ 2020 or 2010 Principles of Macro or Micro Economics	Econ 1022 or 1023 Principles of Economics: Macro or Micro
Math 2001 Calculus I	Math 1296 Calculus I
Math 2002 Calculus II	Math 1297 Calculus II
Math 2020 Discrete Mathematics (not required but can be applied toward Technical Electives)	Math 3355 Discrete Mathematics
SPCH 1010 Public Speaking	Comm 1112 Public Speaking
Courses below are not required, but can be used for Technical Electives (6 crs required):	
Chem 1011 General Chemistry II	Chem 1155 & 1156 General Chemistry II & Lab
Chem 2010 Organic Chemistry I & Lab	Chem 2541 & 2543 Organic Chemistry I & Lab
Chem 2011 Organic Chemistry II & Lab	Chem 2542 & 2544 Organic Chemistry II & Lab
Geog Geo Information Systems I	Gis 3563 Geographic Information Science I: Theory & Analysis
Geol 2010 Geomorphology	Geol 3210 Geomorphology
Phys 1030 Meteorology	Geog 3401 Weather & Climate

Electrical Engineering BSEE*The following courses apply to Electrical Engineering major at UMD*

FDLTCC Course	UMD Course
ENGL 1101 College Composition & ENGL 1102 Advanced College College Composition (take 2 courses)	Writ 1120 College Writing
Econ 2020 or 2010 Principles of Macro or Micro Economics	Econ 1022 or 1023 Principles of Economics: Macro or Micro
Math 2001 Calculus I	Math 1296 Calculus I
Math 2002 Calculus II	Math 1297 Calculus II
PHIL 2070 Environmental Ethics	PHIL 3325 Environmental Ethics

Engineering Physics BSEP*The following courses apply to Mechanical Engineering at UMD*

FDLTCC Course	UMD Course
ENGL 1101 College Composition & ENGL 1102 Advanced College College Composition (take 2 courses)	Writ 1120 College Writing
Chem 1010 General Chemistry I	Chem 1153 & 1154 General Chemistry I & Lab
Econ 2020 or 2010 Principles of Macro or Micro Economics	Econ 1022 or 1023 Principles of Economics: Macro or Micro
Math 2001 Calculus I	Math 1296 Calculus I
Math 2002 Calculus II	Math 1297 Calculus II
Phys 1010 General Physics I	Phys 2013 & 2014 General Physics 1 & Lab
Phys 1011 General Physics I	Phys 2015 & 2016 General Physics 1 & Lab

Industrial Engineering BSIE*The following courses apply to Industrial Engineering major at UMD*

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ACCT 2001 Financial Accounting I & ACCT 2002 Financial Accounting II <i>or</i> BUS 2040 Legal Environment of Business	Accounting <i>or</i> BLAW 2001 The Legal Environment
Chem 1010 General Chemistry I	Chem 1153 & 1154 General Chemistry I & Lab
Econ 2020 or 2010 Principles of Macro <i>or</i> Micro Economics	Econ 1022 <i>or</i> 1023 Principles of Economics: Macro <i>or</i> Micro
Math 2001 Calculus I	Math 1296 Calculus I
Math 2002 Calculus II	Math 1297 Calculus II
Math 2020 Discrete Mathematics <i>(not required but can be applied toward Additional Electives)</i>	Math 3355 Discrete Mathematics
Spch 1010 Public Speaking	Comm 1112 Public Speaking

Mechanical Engineering BSME

The following courses apply to Mechanical Engineering at UMD

FDLTCC Course	UMD Course
ENGL 1101 College Composition & ENGL 1102 Advanced College College Composition (take 2 courses)	Writ 1120 College Writing
Chem 1010 General Chemistry I	Chem 1153 & 1154 General Chemistry I & Lab
Econ 2020 or 2010 Principles of Macro <i>or</i> Micro Economics	Econ 1022 <i>or</i> 1023 Principles of Economics: Macro <i>or</i> Micro
Math 2001 Calculus I	Math 1296 Calculus I
Math 2002 Calculus II	Math 1297 Calculus II

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