

**Mesabi Range Community and Technical College
University of Minnesota, Duluth**

2 + 2 Program in Biology

Listed below are the courses offered at Mesabi Community College that apply to the Bachelor of Science degree in Biology at the University of Minnesota, Duluth. After successful completion of the listed Mesabi courses, students may complete the B.S. in Biology with an additional two years of full-time study at UMD.

Mesabi Community College Courses to Complete	cr	UMD requirements satisfied by Mesabi courses	cr
Biol 1551 College Biology I	5	Biol 1011 General Biology I	5
Biol 1552 College Biology II	5	Biol 1012 General Biology II	5
Chem 1522 General Chemistry I	5	Chem 1151 General Chemistry I	5
Chem 1523 General Chemistry II	5	Chem 1152 General Chemistry II	5
Chem 2512 Organic Chemistry I	5	Chem 2521 Organic Chemistry I	4
Chem 2513 Organic Chemistry II	5	Chem 2522 Organic Chemistry II	4
Engl 1511 College Writing I	4	Comp 1120 College Writing	3
Math 1561 Calculus I	5	Math 1296 Calculus I	5
Math 1562 Calculus II	5	Math 1297 Calculus II	5
Phys 1561 College Physics I	4	Phys 1001 Intro to Physics I	4
Phys 1562 College Physics II	4	Phys 1002 Intro to Physics II	4
OR		OR	
Phys 1571, 1581 Engineering Physics I & Lab	5	Phys 1201 Mechanics	4
Phys 1572, 1582 Engineering Physics II & Lab	5	Phys 1204 Electricity, Magnetism. Optics	5
Liberal Education courses	6-8	Liberal Education Program	

Courses to be Completed at UMD:

Biol 2101 Cell Biology, 3 cr
 Biol 2201 Genetics, 3 cr
 Biol 2801-2802 General Ecology and Lab, 5 cr
 Biol 3997-3998 Seminar I-II, 1 cr
 Biol 4801 Evolution, 2 cr

Biol Upper Division Electives (18 credits)
 Comp 3150 Advanced Writing, 3 cr
 Minor field courses
 Liberal Education courses

B.S. Biology:

Biology is the science of living things. Its study is basic to an understanding of such important areas as the environment, agriculture, and the health sciences. The B.S is adequate preparation for many jobs in the biological sciences, though many students will continue on for advanced degrees or professional studies. UMD's Biology major consists of core courses in general biology, chemistry, physics, genetics, ecology, evolution, and the cell. To provide flexibility in pursuing personal interests or career preparation, the student then chooses 18 credits of upper division Biology electives.

Further Information:

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