

2+2 Program in Biology

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

Vermilion Community College Courses to Complete	cr.	UMD Requirements Satisfied by Vermilion Courses	cr.
Biol 1541 College Biology I	4	Biol 1011 General Biology I	5
Biol 1542 College Biology II	4	Biol 1012 General Biology II	5
Engl 1511 College Composition	4	Comp 1120 College Writing	3
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
Math 1561 Calculus & Analyt. Geom. I	5	Math 1296 Calculus I	5
Math 1562 Calculus & Analyt. Geom. II	5	Math 1297 Calculus II	5
Phys 2561 Engineering Physics I *	5	Phys 1201 Mechanics	4
2562 Engineering Physics II*	5	Phys 1204 Electr., Magn. & Optics	5
Liberal Edition Courses	5		

*or Phys 1561-62 College Physics I-II

Courses to Complete at UMD:

Biol 2201 Genetics	3	Biol 3997 Seminar I	0
Biol 2101 Cellular Biology	3	Biol 3998 Seminar II	1
Biol 2801 General Ecology	3	Biol 4801 Evolution	2
Biol 2802 Ecology Lab	2	Minor Field Courses & Remaining Liberal Education	
Comp 3150 Advanced Writing- Science	3		

Biology Electives numbered 2xxx or above (18 cr.), may include MicB 5545 (2) and Phsl 5601 (3)

Bachelor of Science in Biology

Biology has long been recognized as basic to such important areas as the environment, agriculture, and the health sciences. The BS is adequate preparation for many jobs in the biological sciences, though many students will continue on for advanced 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 IS credits of upper division Biology electives.

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Further Information:

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