

## Bachelor of Science, Major in Biology, Minor in Mathematics Program Grid

**Note**: This program grid is provided for guidance only. Degree completion is based on courses completed successfully and is subject to all applicable requirements and procedures in effect. Students should consult the B.Sc. Degree Advisor to confirm program requirements for their chosen degree.

English 1	Course Number	Course Name	Credits	Upper- Level Credits	Notes
MATH 121	English 1	100-level English	3		1
MATH 122	English 2	100-level English	3		1
Non-Science 100-499   Non-Science Elective   3   2   2   Non-Science 100-499   Non-Science Elective   3   2   2   Non-Science 100-499   Non-Science Elective   3   3   2   2   2   Non-Science 100-499   Non-Science Elective   3   3   2   2   2   Non-Science 100-499   Non-Science Elective   3   3   2   2   2   2   2   2   2   2	MATH 121	Calculus I	4		
Non-Science 100-499	MATH 122	Calculus II	4		
BIOL 121A and 121L	Non-Science 100-499	Non-Science Elective I	3		2
BIOL 123A and 123L	Non-Science 100-499	Non-Science Elective II	3		2
BIOL 123A and 123L	BIOL 121A and 121L	Introductory Zoology	4		
CHEM 140A and 140L      Chemistry Fundamentals I      4        CHEM 141A or 142A, and 142L      Chemistry Fundamentals II      4        PHYS 111      Physics for the Life Sciences I      4        BIOL 200      Introduction to Cell Biology      3        BIOL 201      Principles of Biochemistry      3        BIOL 202      Ecology      3        BIOL 210      Microbiology I      4        BIOL 212      Genetics      3        BIOL 223      Botany      3        CHEM 231      Organic Chemistry I      4        CHEM 232      Organic Chemistry II      4        MATH 211 or 254      Statistics I      3        BIOL 305      Animal Physiology      3        BIOL 402      Evolution      3        BIOL 300-499      Upper-Level Biology Elective I      3        BIOL 300-499      Upper-Level Biology Elective II      3        BIOL 300-499      Upper-Level Biology Elective III      3        BIOL 300-499      Upper-Level Biology Elective III      3        BIOL 300-499      Upper-Level Biology Elective III      3        BIOL 3	BIOL 123A and 123L		4		
CHEM 141A or 142A, and 142L      Chemistry Fundamentals II      4        PHYS 111      Physics for the Life Sciences I      4        PHYS 112      Physics for the Life Sciences II      4        BIOL 200      Introduction to Cell Biology      3        BIOL 201      Principles of Biochemistry      3        BIOL 202      Ecology      3        BIOL 210      Microbiology I      4        BIOL 212      Genetics      3        BIOL 223      Botany      3        CHEM 231      Organic Chemistry I      4        CHEM 232      Organic Chemistry II      4        CHEM 232      Organic Chemistry II      4        MATH 211 or 254      Statistics I      3        BIOL 305      Animal Physiology      3      3        BIOL 402      Evolution      3      3        BIOL 403      Current Topics in Biology      3      3        BIOL 300-499      Upper-Level Biology Elective I      3      3        BIOL 300-499      Upper-Level Biology Elective II      3      3      3        BIOL 300-499      Upper-Lev			4		
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See notes on the next page /...

## NOTES:

- 1. The Degree English Requirement can be met as follows:
  - Two of ENGL 115 (or 117), 125 (or 127), 135, 204, or an INTR course that includes a ENGL course exemption; or,
  - LBST 111 and 112.
- Non-Science Electives can be any courses outside of the Science discipline numbered 100-499.
  The following courses may not be counted to meet this requirement, although they may be counted as general electives:
  - Any course beginning with the following discipline identifiers: AQUA, ASTR, BIOL, CHEM, CSCI, ENGC, ENGE, ENGM, ENGR, FISH, FRST, GEOL, MATH, PHYS, RMOT, QUME, and SCIE.
  - Anthropology: ANTH 111, 213, 214, 341B, 342, 343, 344, 350, 351, 352, 353 361, 401, 430, 449, 460.
  - Geography: GEOG 211, 212, 221, 226, 228, 326, 328, 372, 373, 374, 376, 426, 428.
  - Psychology: PSYC 204, 205, 300A, 300B, 301, 302, 305, 315, 316, 318, 319, 323, 324, 345, 365, 400, 415, 419, 445, 490, 491, 498A.
  - Kinesiology: KIN 201, 220, 301, 302, 400, 401.
- 3. Upper-Level Biology Electives can be any BIOL course numbered 300-499.
  - Up to 12 credits from following courses may be counted towards this requirement: FISH 322, FISH 324, FRST 328, FRST 351, FRST 352, GEOG 328, GEOG 373, RMOT 306, RMOT 357, RMOT 400, and RMOT 401.
  - Students have the option to complete a research project in their final year:
    BIOL 490 (3 credits) or 491 (6 credits). Consult the Chair of the Biology Department.
- 4. Upper-Level Mathematics Electives can be any MATH course numbered 300-499.