MAJOR I
This plan consists of 9 credits of introductory biology (BIOL 100-102) and a 24.5-credit concentration in biology at the 200-level and higher. The biology concentration consists of an 13.5-credit core - BIOL 203, 300, 303 - and 11 credits of electives. Together, introductory biology and the concentration (33.5 cr) satisfy the major requirement for certification as a teacher of biology in grades 7-12. Additional science and math requirements for Major I: CHEM 102, 104, 106, 222, 223, 224; PHYS 110, 120 (or 111, 121); MATH 150; MATH 155 or STAT 213.

Concentrations Within Major I
Students also have the option of pursuing concentrations in Behavioral Neurosciences, Bioinformatics and Biophysics. These concentrations are slightly more rigorous than the basic Major 1. Interested students should speak with a biology adviser as soon as possible to plan their courses accordingly.
Curriculum Guide for Biology Major I

→ BIOL Prerequisite

→ Pre/Corequisite

Fall | Year 1 | Spring
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MATH 12500 | BIOL 10000 | CHEM 10400
CHEM 10200 | CHEM 10600 |

Fall | Year 2 | Spring
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CHEM 22200 | BIOL 10200 | CHEM 22400
CHEM 22300 | MATH 15000 | MATH 15500 or STAT 21300

Fall | Year 3 | Spring
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PHYS 11000 or PHYS 11100 | BIOL 30000 | BIOL 12000 or PHYS 12100
300-Level BIOL Elective | BIOL 30300 | 300/400-Level BIOL Electives

Fall | Year 4 | Spring
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300/400-Level BIOL Electives | 300/400-Level BIOL Electives
Major 1 - Biology
Last Updated Friday, 20 January 2017 17:12

Curriculum Guide for Major I

FALL

Year 1

- MATH 125
- CHEM 102
- BIOL 100

*CHEM 104, 106

Year 2

- BIOL 102
- CHEM 222, 223
- MATH 150 or STAT 213

- BIOL 203
- CHEM 224
- MATH 155

Year 3

- BIOL 300
- 300-Level BIOL Elective

*PHYS 110 or 111

- BIOL 303
- 300/400-Level BIOL Electives

*PHYS 120 or 121

Year 4

- 300/400-Level BIOL Electives
- 300/400-Level BIOL Electives

*We recommend that math, physics and chemistry courses be completed as early as the students schedule allows. Note that CHEM 222, 223 must be taken prior to BIOL 300; otherwise, instructor permission is required. Students who are behind in the chemistry sequence are urged to take advantage of the summer session, during which these chemistry courses are usually offered.

Electives (11 credits minimum)

Students select the remainder of their credits toward Major I from advanced courses in the biological sciences so as to create a core area of study. Eleven credits are required to complete the major. A minimum of two upper-level lecture courses must be taken, with at least one course at the 300 level, in addition to BIOL 300 and 303, for a minimum of six credits. For the remaining elective credits, at least one special-topics course must be taken (BIOL 470 or 471; various topics offered each semester) in addition to other lecture or research courses. Students with strong interdisciplinary interests may select advanced course offerings in other departments after approval by their advisor. Four credits of laboratory research are recommended and can count towards the total elective credits either from a laboratory elective course or from research within an approved research laboratory. Laboratory research credits are taken as a BIOL 480 research course for a maximum of two credits per semester and require a written report for each semester.