

# Biology Major - Professional Biology Option with Chemistry Minor

## Major Core Requirements

BI 111 (4) Principles of Biology	_____
BI 112 (4) Principles of Biology	_____
BI 200W (1) Biological Literature	_____
BI 305 (4) Cell Biology	_____
BI 306 (4) Genetics	_____
BI 307 (4) Microbiology	_____
BI 498 (1) Senior Assessment Seminar	_____

## Organismal Biology (Protistans, Fungi, Plants):

**One** course selected from the following:

BI 362 (4) Non-Vascular Plants	_____
BI 363 (4) Vascular Plants	_____
BI 429 (4) Marine Botany (at DISL)	_____
BI 460 (3) Plant Physiology	_____
BI 463 (3) Plant Taxonomy	_____

## Organismal Biology (Protistans, Animals):

**Two** courses selected from the following:

BI 310 (4) Comparative Vertebrate Morphology	_____
BI 311 (4) Animal Physiology	_____
BI 340 (4) Invertebrate Zoology	_____
BI 341 (4) Natural History of the Vertebrates	_____
BI 403 (4) Marine Invertebrate Zoology (at DISL)	_____
BI 408 (4) Marine Vertebrate Zoology (at DISL)	_____
BI 433 (4) Embryology	_____
BI 451 (3) Ornithology	_____
BI 452 (3) Entomology	_____
BI 453 (4) Ichthyology	_____
BI 471 (4) Parasitology	_____
BI 472 (4) Histology	_____

## Population Biology

BI 312 (3) Evolution	_____
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**One** course selected from the following:

BI 411 (4) Marsh Ecology (at DISL)	_____
BI 412 (4) Marine Ecology (at DISL)	_____
BI 413 (4) Marine Behavioral Ecology (at DISL)	_____
BI 421 (4) Ecology	_____
BI 423 (4) Aquatic Ecology	_____

## Chemistry Minor (required)

CH 111 (3), 111L (1) General Chemistry	_____
CH 112 (3), 112L (1) General Chemistry	_____

**Chemistry Electives (minimum of 12 hrs)** selected from the following:

CH 311 (4), 311L (1) Organic Chemistry I	_____
CH 312 (4), 312L (1) Organic Chemistry II	_____
CH 321 (3), 321LW (2) Quantitative Analysis	_____
CH 322 (3), 322LW (2) Instrumental Analysis	_____
CH 341 (3), 341L (1) Applied Physical Chemistry	_____
CH 441 (3) Biochemistry	_____

## Required Supporting Courses

CIS 125 (3) Business Software Applications <b>or</b> CS 135 (3) Computer Skills for Problem Solving	_____
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MA 112 (3) Pre-calculus Algebra <b>or</b> MA 113 (3) Pre-calculus Trigonometry <b>or</b> MA 115 (4) Pre-calculus Algebra & Trigonometry	_____
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MA 121 (3) Calculus for Business and Life Sciences I <b>and</b> MA 122 (3) Calculus for Business and Life Sciences II	_____
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<b>or</b> MA 125 (4) Calculus I	_____
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MA 345 (3) Applied Statistics I <b>or</b> BI 333 (3) Biostatistics	_____
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PH 241(4) General Physics I and PH 242 (4) General Physics II	_____
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<b>or</b> PH 251(5) Technical Physics I and PH 252 (5) Technical Physics II	_____
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## Additional Graduation Requirements

General Education components completed ?	_____
Overall UNA GPA minimum of 2.0 ?	_____
Major and minor course GPA minimum of 2.0 ?	_____
Minimum 120 hours for graduation ?	_____
Minimum of 30 hours from UNA ?	_____
Minimum of 36 hours at 300-400 level ?	_____
Minimum of 60 hours at four-year institution ?	_____
Applied for Graduation ?	_____