

SUNY College at Oneonta  
 Liberal Arts  
**BIOLOGY MAJOR - BIOL**  
 Effective Fall 2006

**A. Major Field Core Courses**

BIOL 100 General Biology I (NL2)	First Year	3 s.h.
BIOL 200 General Biology II	First Year	4 s.h.
BIOL 201 General Biology III	Second Year	4 s.h.
BIOL 212 General Genetics	Second or Third Year	4 s.h.
BIOL 282 General Ecology	Second or Third Year	4 s.h.

**B. Major Field Elective Courses**

**15 - 20 s.h.**

1. Select **five** courses from the list below including at least one **Botany** and one **Zoology** course.
2. **One** elective course must be at the 300 - level.
3. The following courses are taken by advisement -- **(LA)** Courses: BIOL 294, 298, 394, 398;  
**(Non-LA)** Courses: BIOL 295, 299, 395, 397, 399.
4. To receive credit for BIOL 205 in the major field, the sequel course BIOL 206 must also be taken. (8 s.h. total).

**TOTAL: 34 - 39 s.h.**

**LIST OF ELECTIVE BIOLOGY COURSES**

BIOL 205 Human Anatomy & Physiology I • (4 s.h.)	BIOL 350 Immunology
BIOL 206 Human Anatomy & Physiology II • (4 s.h.)	BIOL 362 Microbiology (4 s.h.)
BIOL 207 Biology of Cancer	BIOL 367 Aquatic Pollution
BIOL 216 Evolution	BIOL 370 General Physiology
BIOL 259 Marine Biology	BIOL 380 Cell Biology
BIOL 265 Evolution of Biology	BIOL 384 Aquatic Biology (4 s.h.)
BIOL 294 Special Topics in Biology	BIOL 385 Limnology (4 s.h.)
BIOL 295 Teaching Assistantship in Biology	BIOL 388 Stream Ecology (4 s.h.)
BIOL 298 Undergraduate Seminar	BIOL 386 Seminar in Conservation Biology
BIOL 299 Independent Study in Biology	BIOL 394 Special Topics in Biology
BIOL 311 Human Genetics	BIOL 395 Teaching Assistantship in Biology
BIOL 333 Regional Biology of Rocky Mountains	BIOL 397 Internship in Biology
BIOL 338 Coastal Ecology of N.E. N. America	BIOL 398 Undergraduate Seminar
BIOL 340 Molecular Biology (4 s.h.)	BIOL 399 Independent Study in Biology

**BOTANY COURSES**

BIOL 220 Economic Botany
BIOL 236 Vascular Plants
BIOL 373 Plant Growth & Development
BIOL 381 Plant Ecology

**ZOOLOGY COURSES**

BIOL 242 Invertebrate Zoology (4 s.h.)
BIOL 244 A Natural History of Insects (4 s.h.)
BIOL 250 Natural History of Vertebrates (4 s.h.)
BIOL 252 Ornithology
BIOL 356 Animal Behavior (4 s.h.)

(OVER)

**Liberal Arts (continued)**  
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**C. Related Work**

CHEM 111 - 112	General Chemistry I & II, in sequence	First Year	8 s.h.
CHEM 221 - 322	Organic Chemistry I & II		
	<b>or</b>		
CHEM 226 - 330	Elem. Organic Chemistry & Intro. Biochemistry	Second Year	8 s.h.

Choose any four courses from the following: 12 - 16 s.h.

CSCI 100	Introduction to Computer Technology
CSCI 116	Fundamentals of Programming <b>or</b> other Programming Language
MATH 173	Calculus I
MATH 174	Calculus II
PHYS 103	General Physics I (Non-Calculus)
PHYS 104	General Physics II (Non-Calculus)
PHYS 203	General Physics I (Prereq - Math 173)
PHYS 204	General Physics II (Prereq - Math 174)
STAT 101	Introduction to Statistics
STAT 201	Statistical Methods I <b>or</b> any advanced statistics course

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**TOTAL: 28 - 32 s.h.**

**D. Remaining Degree Requirements**

Refer to the degree requirements stated in the current College Catalog and in the regularly updated sheets prepared by the Academic Advisement Office. Other important sources of information are changes posted on the walls of Science Building 1 and curriculum information sheets in packets on the *Biology Curriculum Bulletin Board*. Always consult your Biology Advisor for help and guidance.