

**SUNY College at Oneonta**  
**Liberal Arts - Biology Major**  
**CELL & MOLECULAR BIOLOGY TRACK**  
**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 340 Molecular Biology	Third or Fourth Year	4 s.h.
BIOL 380 Cell Biology	Third or Fourth Year	3 s.h.

**B. Major Field Elective Courses**

**12 - 16 s.h.**

1. Select **four** courses from the list below including at least one laboratory 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 299, 397, 399.
4. Students are encouraged to enroll in BIOL 299 or 399. In order to count as an elective, at least 3s.h. must be taken in BIOL 299 or BIOL 399.

**TOTAL: 34 - 38 s.h.**

**LIST OF ELECTIVE BIOLOGY COURSES**

BIOL 207 Biology of Cancer	BIOL 370 General Physiology
BIOL 216 Evolution	BIOL 373 Plant Growth & Development
BIOL 265 Evolution of Biology	BIOL 394 Special Topics in Biology
BIOL 282 General Ecology (4 s.h.)	BIOL 397 Internship in Biology
BIOL 294 Special Topics in Biology	BIOL 398 Undergraduate Seminar
BIOL 298 Undergraduate Seminar	BIOL 399 Independent Study in Biology
BIOL 299 Independent Study in Biology	
BIOL 311 Human Genetics	
BIOL 350 Immunology	
BIOL 362 Microbiology (4 s.h.)	

(OVER)

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**C. Related Work**

CHEM 111 - 112	General Chemistry I & II	First Year	8 s.h.
CHEM 221 - 322	Organic Chemistry I & II	Second Year	8 s.h.
CHEM 331 - 332	Biochemistry I & II	Third Year	8 s.h.

Note: Satisfactory completion of above courses satisfies the requirements for a Chemistry Minor.

Choose any two courses from the following: 6 - 8 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
PHYS 204	General Physics II
STAT 101	Introduction to Statistics
STAT 201	Statistical Methods I <b>or</b> any advanced statistics course

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**TOTAL: 30 - 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.