

**Check List**  
**Cellular and Molecular Biology Major**  
**(S23)**

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**Overall:**

8.5 cr. in Biology + CHEM120 + 3 courses (1 cr.) in Mathematics/Computer Science



**Core Courses:**

- BIO101 Molecules, Genes & Cells
- BIO102 Evolution, Organisms & Ecology
- BIO241 or BIO250
- BIO315 Molecular Biology
- BIO450 or 0.5 cr. BIO490A
- CHEM120 Structure & Properties of Organic Molecules

**Elective courses (4 x 1 cr. courses):**

- 2 courses** from Group 1: BIO241, BIO250, BIO314, BIO320, BIO 325, BIO361, BIO381, BIO385, BIO415, BIO490 (1cr. In CMB area)  
Comments: \_\_\_\_\_
- 1 course** from Group 2: BIO230, BIO285, BIO334, BIO335, BIO382  
Comments: \_\_\_\_\_
- 1 additional BIO elective**  
\_\_\_\_\_

**300 - 400 level requirement:**

- Three 300-400 level BIO courses (1cr. each) completed

**3 courses chosen from the following**

**Computer Science and Math courses:**

CSC121, CSC122, CSC232, CSC233, MATH123, MATH141, MATH151, MATH251, MATH341

**Semester Research for Credit:**

- BIO490 (can be taken for **0.25, 0.5 or 1 cr. each semester**; up to 1 cr. counts towards the elective course credits; an additional 0.5 cr. during senior year counts towards the core course credits; any additional credits count towards DePauw course credits)

**DePauw Graduation Requirements**

(AH, SM, & SS from different departments each)

- Arts & Humanities 1 (1 cr.)
- Arts & Humanities 2 (1 cr.)
- Science & Math 1 (1 cr.)
- Science & Math 2 (1 cr.)
- Social Science 1 (1 cr.)
- Social Science 2 (1 cr.)
- Language 1 (1 cr.)
- Language 2 (1 cr.)
- Global Learning (1 cr.)
- Power, Privilege, and Diversity (1 cr.)

**Competency:**

- W (end of sophomore year)
- Q (end of Junior year)
- S (end of senior year)

**Extended Studies (WT/MT):**

- Course 1 or Internship 1
- Course 2 or Internship 2

**Other:**

- \_\_\_\_\_
- \_\_\_\_\_

**Credits Total:** \_\_\_\_\_



## **Course numbers and titles**

BIO101 Molecules, Genes and Cells w/lab  
BIO102 Evolution, Organisms and Ecology w/lab  
BIO190 Topics

BIO230 Plant Biology w/lab  
BIO234 Evolutionary Developmental Biology  
BIO241 Intermediate Cellular Biology w/lab  
BIO250 Microbiology w/lab  
BIO235 Organismal Biology  
BIO285 Biodiversity  
BIO290 Topics  
BIO314 Biochemistry and Cellular Biology w/lab  
BIO315 Molecular Biology w/lab  
BIO320 Genetics w/lab  
BIO325 Bioinformatics w/lab  
BIO334 Developmental Biology w/lab  
BIO335 Animal Physiology w/lab  
BIO342 Ecology w/lab  
BIO344 Ecological and Evolutionary Genetics w/lab  
BIO345 Conservation Biology w/lab  
BIO346 Plant Animal Interactions w/lab  
BIO348 Behavioral Ecology w/lab  
BIO361 Immunology  
BIO381 Cell Signaling  
BIO382 Neurobiology  
BIO385 Molecular Neurobiology  
BIO390 Topics  
BIO415 Molecular Genetics & Genomics  
BIO450 Senior Seminar  
BIO490 Independent Study

CHEM120 Structure and Properties of Organic Molecules w/lab  
CHEM240 Structure and Function of Biomolecules w/lab  
CHEM 260 Thermodynamics, Equilibrium and Kinetics,  
CSC121 Computer Science I  
GEOS110 Earth and the Environment  
PHYS120 Principles of Physics I w/lab

CSC121 Computer Science I  
CSC122 Data Structures  
CSC232 Object oriented Software Development  
CSC233 Foundations of Computation  
MATH123 Discrete Math  
MATH141 Statistics for Professionals  
MATH151 Calculus I  
MATH251 Calculus II  
MATH341 Statistical Model Analysis