

**West Chester University**  
**B.S. in Biology – Marine**  
**Science Concentration**  
**through the Honors**  
**College Advisement Sheet**

Effective for students entering Fall '23 and later.

**110-111 CREDITS**

*Indicate all the courses you have taken at WCU or transferred for credit. For completed courses, also list the grades. Mark an asterisk (\*) beside courses you are currently taking.*

The grade of C- or better is necessary in all required science and math courses.

**I. BIOLOGY CORE COURSES (31 s.h.)**

- BIO110 \_\_\_ (General Bio. I)
- BIO111 \_\_\_ (General Bio. II)
- BIO210 \_\_\_ (Genetics)
- BIO210L \_\_\_ (Genetics Lab)
- BIO211 \_\_\_ (Cell Biology)
- BIO270 \_\_\_ (Ecology)
- BIO310 \_\_\_ (Biostatistical App.)
- BIO312 \_\_\_ (Marine Botany)
- BIO313 \_\_\_ (Marine Biology)
- ESS330 \_\_\_ (Oceanography)

**II. MARINE SCIENCE ELECTIVES (9 s.h.)**

Selected under advisement.

- BIO387 \_\_\_ (Invertebrate Zoology)
- BIO453 \_\_\_ (Marine Mammals)
- GEO324 \_\_\_ (Geo. Inf. Systems)
- ESS332 \_\_\_ (Adv. Oceanography)

NOTE: Students are encouraged to attend field courses at Wallops Island/Marine Field Station Courses (all 3 credit courses): Courses are to chosen from two or more topics including but not limited to marine or wetlands ecology, ichthyology, invertebrate zoology, marine mammals, ornithology, marine molecular biology, and biotechnology; Courses to be completed at the Wallops Island Marine Science Consortium and other marine field stations (summer and winter semesters) will be approved on an individual basis and will require advisor departmental approval.

**III. BIOLOGY CAPSTONE (3 s.h.)**

Select one of the following:

- BIO490 \_\_\_ (Seminar)
- BIO491 \_\_\_ (Indep. Research)
- BIO492 \_\_\_ (Prof. Development)

**IV. CHEMISTRY COURSES (17 s.h.)**

- CHE103 \_\_\_ (Gen. Chem. I)
- CRL103 \_\_\_ (Gen. Chem. I Lab)
- CHE104 \_\_\_ (Gen. Chem. II)
- CRL104 \_\_\_ ( Gen. Chem. II Lab)
- CHE231 \_\_\_ (Organic Chem. I)
- CRL231 \_\_\_ (Organic I Lab)
- CHE232 \_\_\_ (Organic Chem. II)

**V. ADDITIONAL MATH/SCI. COURSES (14-15 s.h.)**

- PHY130 \_\_\_ (Gen. Physics I) **or**
- PHY170 \_\_\_ (Physics I)
- PHY140 \_\_\_ (Gen. Physics II) **or**
- PHY180 \_\_\_ (Physics II)
- MAT121 \_\_\_ (Statistics I) **or**
- MAT125 \_\_\_ (Statistics & Prob.)
- MAT161 \_\_\_ (Calculus I) **or**
- MAT143 \_\_\_ (Brief Calculus) **or**
- MAT145 \_\_\_ (Calc for Life Sci)

**VI. HONORNS SEQUENCE for GENERAL EDUCATION (27 s.h.)**

- HON 100 \_\_\_ (Self Awareness)
- HON 211 \_\_\_ (Public Discourse)
- HON 212 \_\_\_ (Ethics & Technology)
- HON 310 \_\_\_ (Community Change)
- HON 311 \_\_\_ (Stewardship/Civic Responsibility)
- HON 312 \_\_\_ (Educational Systems) **or**
- HON 322 \_\_\_ (Leader. With ELLs)
- HON 313 \_\_\_ (Public Opinion)
- HON 314 \_\_\_ (Environ. Systems)
- HON 315 \_\_\_ (Community & Arts)
- SCI \_\_\_ \_x\_ \*
- MAT \_\_\_ \_x\_ \*

\*NOTE: Fulfilled from major requirements

**VII. ADDITIONAL HONORS COLLEGE REQUIREMENTS (9 s.h.)**

- A) Two HON seminars at the 320 level or above (except 322)  
 HON \_\_\_ \_\_\_  
 HON \_\_\_ \_\_\_
- B) Capstone Project^  
 HON 490 \_\_\_

^NOTE: Enrollment upon core completion: ideally 6<sup>th</sup> or 7<sup>th</sup> semester

**VIII. DIRECTED ELECTIVES**

Take enough directed electives to complete 120 credits. The actual number of electives required will vary depending upon (among other issues) the number of 3 vs. 4 hour courses taken to fulfill the major requirements and the choice of electing minor(s).

Course	Grade
_____	_____
_____	_____
_____	_____
_____	_____

**Bring this sheet with you whenever you meet with your advisor about scheduling or course planning!**

(Revised October 2023)