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 be 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. HONORS 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 6th or 7th 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).

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

(Revised October 2023)