

West Chester University
B.S. in Mathematics-
Applied and
Computational
Concentration through the
Honors College
Advisement Sheet

Effective for students entering Fall '23
and later.

118-122 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 math major courses.

I. MATHEMATICS REQUIRED COURSES (48 s.h.)

- MAT125 ___ (Statistics & Prob.)
- MAT161 ___ (Calculus I)
- MAT162 ___ (Calculus II)
- MAT200 ___ (Nature of Math)
- MAT261 ___ (Calculus III)
- MAT311 ___ (Linear Algebra)
- STA200 ___ (Statistics II)
- STA319 ___ (Applied Statistics)
- MAT325 ___ (Numer. Analysis I)
- MAT343 ___ (Diff. Equations)
- MAT413 ___ (Computer Algebra)
- MAT425 ___ (Numer. Analysis II)
- MAT427 ___ (Optimization) **or**
- MAT433 ___ (Modeling)
- MAT443 ___ (Applied Analysis I)
- MAT445 ___ (Complex Var.) **or**
- MAT441 ___ (Real Analysis I)
- MAT455 ___ (Industrial Math.)

II. COGNATE COURSES (21-23 s.h.)

- ENG368 _x_ (Business Wrt.)* **or**
- ENG375 _x_ (Workplace Wrt.)* **or**
- ENG371 _x_ (Technical Wrt.)*
- CSC141 ___ (Computer Science)
- PHY170 ___ (Physics I) **or**
- BIO110 ___ (General Biology) **or**
- CHE103 ___ (General Chemistry) **or**
- ESS101 ___ (Geology)

Select 12-13 credits of science cognates (PHY, BIO, CHE, CSC, or ESS) under

the guidance of an advisor. At least two cognates must be at the 200-level or above.

Course	Grade
_____	___
_____	___
_____	___
_____	___

*NOTE: Fulfilled from Honors Core

III. INTERNSHIP OR ELECTIVES (13-15 s.h.)

MAT491 ___ (Internship)*

Course	Grade
_____	___
_____	___
_____	___
_____	___

NOTES:

*MAT491 is an elective and not a requirement. It may be taken for variable credit and repeated for credit.

IV. HONORS COLLEGE CORE SEQUENCE for GEN ED (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 _____ *
- MAT ___ _x_ ^

NOTES:

*HON122 (Computer Science for Social Justice) recommended
^Fulfilled from major requirements

V. 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

VI. 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 addition of minor(s).

Course	Grade
_____	___
_____	___
_____	___

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

(Revised October 2023)