## West Chester University

**B.S. in Mathematics - Pure Mathematics**

**Concentration through the Honors College Advisement Sheet**

Effective for students entering Fall ‘23 and later.

### 98 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 (36 s.h.)

- MAT161 ___ (Calculus I)
- MAT162 ___ (Calculus II)
- MAT200 ___ (Nature of Math)
- MAT261 ___ (Calculus III)
- MAT311 ___ (Linear Algebra)
- MAT343 ___ (Diff. Equations)
- MAT411 ___ (Algebra I)
- MAT421 ___ (Statistics I)
- MAT441 ___ (Real Analysis I)
- MAT445 ___ (Complex Var.)
- MAT480 ___ (Capstone)

### II. COGNATE COURSES (11 s.h.)

- CSC141 ___ (Computer Science)
- ENG371 _x__ (Technical Wrt)*
- PHY170 ___ (Physics I)
- PHY180 ___ (Physics II)
- SPK230 _x__ (Prof. Speaking)**

### III. MATHEMATICS ELECTIVES (18 s.h.)

Select 6 upper-division (300-level or higher) mathematics courses; at least one from each of the areas: algebra, analysis, applied mathematics.

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### 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)
- 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).

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

(Revised October 2023)