

West Chester University
B.S. in Mathematics
Concentration in Actuarial
Science
Through the
Honors College
Advisement Sheet

Effective for students entering Fall '17
and later.

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.* Students must have a minimum "C" in each major course.

I. MATHEMATICS REQUIREMENTS (21 s.h.)

MAT 161 ____ (Calculus)
MAT 162 ____ (Calculus II)
MAT 200 ____ (Nature of Math)
MAT 261 ____ (Calculus III)*
MAT 311 ____ (Linear Algebra)
MAT 343 ____ (Diff. Equations)

II. CONCENTRATION COURSES (21 s.h.)

MAT 319 ____ (Applied Stats)
MAT 371 ____ (Math Finance)
MAT 421 ____ (Statistics I)*
MAT 422 ____ (Statistics II)
MAT 423 ____ (App. Probability)
MAT 478 ____ (Fund. Act. Sci.)
STA 311 ____ (Stat Computing)

Note: MAT 421 should be taken immediately after MAT 261

III. COGNATE REQUIREMENTS (18 s.h.)

ACC 201 ____ (Accounting I)
ECO 111 ____ (Micro. Economics)
ECO 112 ____ (Macro. Economics)
ECO 340 ____ (Intermed. Macro.)
FIN 325 ____ (Corporate Finance)
FIN 330 ____ (Insurance)
SPK230 __x__ (Business COM)*
ENG 368 __x__ (Business WRT)*
or 371 or 375

*Covered via HON Core

IV. INTERNSHIP and ELECTIVES (15 s.h.)

MAT 491 ____ (Internship)*

<u>Course</u>	<u>Grade**</u>
_____	_____
_____	_____
_____	_____
_____	_____

*Can be taken for variable and repeated credit;

**Advisor Approval Required

V. HON COLLEGE 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 Syst.) or
HON 322 ____ (Leading with ELLs)
HON 313 ____ (Public Opinion)
HON 314 ____ (Environ. Systems)
HON 315 ____ (Community & Arts)
SCI ____ *
MAT ____ _ X__ ^

(NOTE: ^ fulfilled from major program requirements; *CSC 141 recommended)

VI. ADDITIONAL HONORS COLLEGE REQUIREMENTS (9 s.h..)

A) Two HON seminars at the 320 level or above

HON ____ ____
HON ____ ____

B) Capstone Project

HON 490 ____

VII. DIRECTED ELECTIVES

Take enough directed electives to complete 120 credits. The actual number of electives required will vary depending upon (among other things) the option to complete a minor(s). Students may also opt to participate in a 1-6 credit internship program

<u>Course</u>	<u>Grade</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

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

(Revised May 2017)

West Chester University

B.S. in Mathematics

Concentration in Industrial Mathematics

Through the Honors College

Advisement Sheet

Effective for students entering Fall '15 and later.

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.* Students must have a minimum "C" in each major course

I. MATHEMATICS REQUIREMENTS (31 s.h.)

MAT 161 ____ (Calculus)
 MAT 162 ____ (Calculus II)
 MAT 200 ____ (Nature of Math)
 MAT 261 ____ (Calculus III)
 MAT 311 ____ (Linear Algebra)
 MAT 319 ____ (Applied Stats)
 MAT 343 ____ (Diff. Equations)
 MAT 362 ____ (Calculus IV)
 MAT 425 ____ (Numerical Anal.)
 MAT 445 ____ (Complex Variab.)

II. REQUIRED COURSES FOR CONCENTRATION (29 s.h.)

A. Mathematics Courses--two of the following:

MAT 325 ____ (Computational Mathematics)
 MAT 413 ____ (Computer Algebra)
 MAT 427 ____ (Optimization)
 MAT 443 ____ (Analysis I)
 MAT 493 ____ (Math Modeling)

B. Related Cognate Courses

PHY 170 ____ (Physics I)
 PHY 180 ____ (Physics II)
 PHY 240 ____ (Modern Physics)
 PHY 300 ____ (Mechanics)
 PHY 350 ____ (Thermodynamics)
 CSC 141 ____ (Computer Science I)
 ENG 368 __x__ (Business WRT) or*
 ENG 371 __x__ (Technical WRT) or
 ENG 375 __x__ (Workplace WRT)

*Covered via HON Core

III. HON 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 Syst.)
 HON 313 ____ (Public Opinion)
 HON 314 ____ (Environ. Systems)
 HON 315 ____ (Community & Arts)
 SCI ____ _X_ ^
 MAT ____ _X_ ^

(NOTE: ^ fulfilled from major program requirements)

IV. ADDITIONAL HONORS COLLEGE REQUIREMENTS (9 s.h.)

C) Two HON seminars at the 350/400 level

HON 351/451 ____
 HON 352/452 ____

D) Senior Project

HON 490 ____

V. DIRECTED ELECTIVES

Take enough directed electives to complete 120 credits. The actual number of electives required will vary depending upon (among other things) the option to complete a minor(s). Students may also opt to participate in a 1-6 credit internship program

<u>Course</u>	<u>Grade</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

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(Revised March 2015)

West Chester University

B.S. in Mathematics

Concentration in Computational Mathematics Through the Honors College

Advisement Sheet

Effective for students entering Fall '15
and later.

*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.* Students must have a
minimum "C" in each major course

I. MATHEMATICS REQUIREMENTS (31 s.h.)

MAT 151 ____ (Discrete Math)
MAT 161 ____ (Calculus)
MAT 162 ____ (Calculus II)
MAT 200 ____ (Nature of Math)
MAT 261 ____ (Calculus III)
MAT 311 ____ (Linear Algebra)
MAT 319 ____ (Applied Stats)
MAT 343 ____ (Diff. Equations)
MAT 362 ____ (Calculus IV)
MAT 425 ____ (Numerical Anal.)

II. REQUIRED COURSES FOR CONCENTRATION (27 s.h.)

A. Mathematics Courses:

MAT 325 ____ (Computational
Mathematics)
MAT 413 ____ (Computer Algebra)

One of the following:

MAT 427 ____ (Optimization)
MAT 443 ____ (Analysis I)
MAT 493 ____ (Math Modeling)

B. Related Cognate Courses

CSC 141 ____ (Computer Science I)
CSC 142 ____ (Computer Science II)
CSC 240 ____ (Computer Science III)
CSC 241 ____ (Data Structures)
CSC 242 ____ (Computer Organizat.)
ENG 368 _x_ (Business WRT) or*
ENG 371 _x_ (Technical WRT)

*Covered via HON Core

III. HON 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 Syst.)
HON 313 ____ (Public Opinion)
HON 314 ____ (Environ. Systems)
HON 315 ____ (Community & Arts)
SCI ____ _X_ ^
MAT ____ _X_ ^

(NOTE: ^ fulfilled from major program
requirements)

IV. ADDITIONAL HONORS COLLEGE REQUIREMENTS (9 s.h..)

E) Two HON seminars at the 350/400
level

HON 351/451 ____
HON 352/452 ____

F) Senior Project

HON 490 ____

V. DIRECTED ELECTIVES

Take enough directed electives to
complete 120 credits. The actual
number of electives required will vary
depending upon (among other things) the
option to complete a minor(s). Students
may also opt to participate in a 1-6 credit
internship program

<u>Course</u>	<u>Grade</u>
_____	_____
_____	_____
_____	_____
_____	_____
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_____	_____
_____	_____
_____	_____

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you meet with your advisor about
scheduling or course planning!**

(Revised March 2015)

West Chester University
B.S. in Mathematics
Concentration in Statistics
Through the
Honors College
Advisement Sheet

Effective for students entering Fall '15
and later.

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.* Students must have a minimum "C" in each major course

I. MATHEMATICS REQUIREMENTS (31 s.h.)

MAT 121 ____ (Statistics I)
MAT 161 ____ (Calculus)
MAT 162 ____ (Calculus II)
MAT 200 ____ (Nature of Math)
MAT 261 ____ (Calculus III)
MAT 311 ____ (Linear Algebra)
MAT 319 ____ (Applied Stats)
MAT 343 ____ (Diff. Equations)
MAT 362 ____ (Calculus IV)
STA 311 ____ (Data Management)

II. REQUIRED COURSES FOR CONCENTRATION (21 s.h.)

A. Mathematics Courses

MAT 345 ____ (App. Probability)
MAT 421 ____ (Math. Statistics I)
MTA 422 ____ (Math. Statistics II)

B. Related Cognate Courses

ENG 371 __x__ (Technical WRT) or
ENG 375 __x__ (Workplace WRT)*
*Covered in HON Core

Three courses (9 hours) selected from:
pharmaceutical development, finance,
economics, marketing or computer
science:

Course	Grade	Title
_____	_____	_____
_____	_____	_____
_____	_____	_____

III. HON 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 Syst.)
HON 313 ____ (Public Opinion)
HON 314 ____ (Environ. Systems)
HON 315 ____ (Community & Arts)
SCI ____ _X_ ^
MAT ____ _X_ ^

(NOTE: ^ fulfilled from major program requirements)

IV. ADDITIONAL HONORS COLLEGE REQUIREMENTS (9 s.h..)

G) Two HON seminars at the 350/400 level

HON 351/451 ____
HON 352/452 ____

H) Senior Project

HON 490 ____

V. DIRECTED ELECTIVES

Take enough directed electives to complete 120 credits. The actual number of electives required will vary depending upon (among other things) the option to complete a minor(s). Students may also opt to participate in a 1-6 credit internship program

Course	Grade
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

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(Revised March 2015)

West Chester University

B.S. in Mathematics

Concentration in Mathematics

Through the Honors College

Advisement Sheet

Effective for students entering Fall '15 and later.

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.* Students must have a minimum "C" in each major course

I. MATHEMATICS REQUIREMENTS (18 s.h.)

MAT 161 ____ (Calculus)
 MAT 162 ____ (Calculus II)
 MAT 200 ____ (Nature of Math)
 MAT 261 ____ (Calculus III)
 MAT 311 ____ (Linear Algebra)
 MAT 343 ____ (Diff. Equations)

II. REQUIRED COURSES FOR CONCENTRATION (12 s.h.)

A. Mathematics Courses

MAT 411 ____ (App. Probability)
 MAT 421 ____ (Math. Statistics I)
 MTA 441 ____ (Real Analysis I)
 MAT 445 ____ (Complex Variables)

B. Mathematic Electives (18 s.h.)

Six courses selected from 300 level or higher mathematics courses with at least one in each are: analysis, applied mathematics and algebra:

Course	Grade	Title
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

C. Related Cognate Courses (14 s.h.)

ENG 371 _x_ (Technical WRT) or^
 ENG 375 _x_ (Workplace WRT)
 CSC 141 ____ (Computer Science)
 PHY 170 ____ (Physics I)
 PHY 180 ____ (Physics II)
 SPK 230 _x_ (Public Speaking)*

NOTE: * SPK 230 fulfilled with HON 211; ^covered in HON Core

III. HON 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 Syst.)
 HON 313 ____ (Public Opinion)
 HON 314 ____ (Environ. Systems)
 HON 315 ____ (Community & Arts)
 SCI ____ _X_ ^
 MAT ____ _X_ ^

(NOTE: ^ fulfilled from major program requirements)

IV. ADDITIONAL HONORS COLLEGE REQUIREMENTS (9 s.h.)

I) Two HON seminars at the 320 or bave

HON 351/451 ____
 HON 352/452 ____

J) Senior Project

HON 490 ____

V. DIRECTED ELECTIVES

Take enough directed electives to complete 120 credits. The actual number of electives required will vary depending upon (among other things) the option to complete a minor(s). Students may also opt to participate in a 1-6 credit internship program

Course	Grade
_____	_____
_____	_____

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_____	_____
_____	_____

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

(Revised March 2015)

West Chester University
B.S. in Mathematics
Concentration in Mathematical
Finance
Through the
Honors College
Advisement Sheet

Effective for students entering Fall '15
and later.

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.* Students must have a minimum "C" in each major course.

I. MATHEMATICS REQUIREMENTS (31 s.h.)

MAT 161 ____ (Calculus)
MAT 162 ____ (Calculus II)
MAT 200 ____ (Nature of Math)
MAT 261 ____ (Calculus III)
MAT 311 ____ (Linear Algebra)
MAT 319 ____ (Applied Stats)
MAT 343 ____ (Diff. Equations)
MAT 362 ____ (Calculus IV)
MAT 421 ____ (Statistics I)
MAT 345 ____ (App. Probability)
or MAT 422 ____ (Statistics II)

II. REQUIRED COURSES FOR CONCENTRATION (31 s.h.)

A. Mathematics Courses

MAT 406 ____ (Math of Finance)
MAT 409 ____ (Financial Calculus)

B. Related Cognate Courses

PHY 170 ____ (Physics I)
CSC 141 ____ (Computer Science I)
ECO 111 ____ (Micro. Economics)
ECO 112 ____ (Macro. Economics)
ACC 201 ____ (Accounting I)
FIN 325 ____ (Corporate Finance)
FIN 337 ____ (Markets & Inst.) or
FIN 344 ____ (Investments)
ENG 368 _x_ (Business WRT) or*
ENG 371 _x_ (Technical WRT) or
ENG 375 _x_ (Workplace WRT)

*Covered via HON Core

III. HON 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 Syst.)
HON 313 ____ (Public Opinion)
HON 314 ____ (Environ. Systems)
HON 315 ____ (Community & Arts)
SCI ____ _X_ ^
MAT ____ _X_ ^

(NOTE: ^ fulfilled from major program requirements)

IV. ADDITIONAL HONORS COLLEGE REQUIREMENTS (9 s.h.)

K) Two HON seminars at the 351+ level

HON 351+ ____
HON 351+ ____

L) Senior/Capstone Project

HON 490 ____

V. DIRECTED ELECTIVES

Take enough directed electives to complete 120 credits. The actual number of electives required will vary depending upon (among other things) the option to complete a minor(s). Students may also opt to participate in a 1-6 credit internship program

<u>Course</u>	<u>Grade</u>
_____	_____
_____	_____
_____	_____
_____	_____
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_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

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

(Revised March 2015)