

# West Chester University

## B.S. in Biology – (Pre-Med)

### Cell and Molecular Concentration 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.*

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

#### I. BIOLOGY CORE COURSES (28 s.h.)

BIO110 \_\_\_\_ (General Biology)  
BIO214 \_\_\_\_ (General Micro.)  
BIO215 \_\_\_\_ (Botany) **or**  
BIO217 \_\_\_\_ (Zoology)  
BIO220 \_\_\_\_ (Cell Physiology)  
BIO230 \_\_\_\_ (Genetics)  
BIO421 \_\_\_\_ (Cell & Molecular)  
BIO431 \_\_\_\_ (Mol. Genetics)  
BIO409 \_\_\_\_ (Internship)\* **or**  
BIO490 \_\_\_\_ (Seminar) **or**  
BIO491 \_\_\_\_ (Spec. Problems) **or**  
CHE491 \_\_\_\_ (Seminar)\*\*  
BIL333 \_\_\_\_ (Recombinant DNA)

#### II. BIOLOGY or CHEMISTRY ELECTIVES (14 s.h.) (Selected under advisement, must be above 300 level.)

Course	Grade
_____	_____
_____	_____
_____	_____
_____	_____

#### III. CHEMISTRY COURSES (22-23 s.h.)

CHE103 \_\_\_\_ (Gen. Chem. I)  
CRL103 \_\_\_\_ (Gen. Chem. Lab)  
CHE104 \_\_\_\_ (Gen. Chem. II)  
CRL104 \_\_\_\_ (Gen. Chem. Lab)  
CHE231 \_\_\_\_ (Organic I)  
CRL231 \_\_\_\_ (Organic Lab I)  
CHE232 \_\_\_\_ (Organic II)  
CRL232 \_\_\_\_ (Organic II Lab)\*\*\*  
CHE476 \_\_\_\_ (Bio-chemistry I)

#### IV. ADDITIONAL MATH/SCI. (16 s.h.)

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

#### V. ELECTIVES related to 2015 MCAT reformat (6 s.h.)

In 2015 MCATs are adding a new section on behavioral and social science. To that end, students may wish consideration of:

PSY 100 \_\_\_\_ (Intro Psychology)  
SOC 200 \_\_\_\_ (Intro Sociology)

NOTE: These are NOT mandated, only recommended as consideration. Honors seminars should also be of help in this area of preparation.

#### VI. HONORS 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 Systems)  
**or**  
HON 322 \_\_\_\_ (Leading Change ELL)  
HON 313 \_\_\_\_ (Public Opinion)  
HON 314 \_\_\_\_ (Environ. Systems)  
HON 315 \_\_\_\_ (Community & Arts)  
SCI and MAT - 6 hours (NOTE:  
Fulfilled from major requirements).  
\_\_x\_\_ and \_\_x\_\_

#### VII. ADDITIONAL HON COLLEGE REQUIREMENTS (9 s.h.)

A) Two HON seminars at the 320 level  
or above:

HON \_\_\_\_  
HON \_\_\_\_

B) Capstone Project

HON 490 \_\_\_\_

#### NOTES:

\* BIO409/490/491 or CHE491 can be taken for 3-16 credits. Three may be used for the core and up to 5 may be used for BIO electives. No more than 8 total hours may count towards BIO major requirements.

\*\* If CHE491 is taken for 1 credit, the student must take 14 credits of upper level BIO or CHE electives, to reach a minimum of 40 credits in areas I and II combined.

\*\*\* CRL 232 is required for entry into most professional schools and is thus strongly recommended

#### VII. 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 May 2017)