

FIRST YEAR STUDENT ADVISING SHEET

MAJOR: **Biology- Pre-Medicine Concentration**

COURSES REQUIRED BY THE MAJOR

First Semester

- BIO111 - Molecules, Cells and Animal Systems
- CH105 – Fundamentals of Chemistry
- Mathematics (see point 5 below)

Second Semester

- BIO112 – Principles of Evolution, Ecology, and Diversity of Life
- CH113 – Organic Chemistry I
- Social Science Core (see point 4 below)

NOTES:

1. The Natural and Physical Sciences and Social Science Core Requirements are met by courses in the major.
2. The major requires 28 credits of biology beyond the first year. This requirement is satisfied by enrolling in BIO111 (Molecules, Cells and Animal Systems) in the fall of the first year and in BIO112 (Principles of Evolution, Ecology) in the spring of the first year. For Biology courses beyond the first year, the recommended course sequence is the following:
 - BIO 211 (Genetics) – Fall of sophomore year
 - BIO 324 (General Physiology) – Spring of junior year
 - BIO 324L (General Physiology Laboratory) – Spring of junior year
 - BIO 341 (Comparative Mammalian Anatomy) – Fall of senior year

Material in BIO 211 and BIO 324 may be tested on the MCAT examination.

3. Five semesters of chemistry (CH105, CH113, CH114, either CH 214 or CH 242, and CH323).

This requirement is satisfied by enrolling in CH105 (Fundamentals of Chemistry) in the fall of the first year, CH113 (Organic Chemistry I) in the spring of the first year, CH114 (Organic Chemistry II) in the fall of the sophomore year, CH 214 (note that the two credit CH 201 must be taken in the fall of the sophomore year if students are going to take CH 214) or 242 in the spring of the sophomore year, and CH323 (Biochemistry I) in the spring of the junior year.

The timing of this chemistry sequence is crucial given that material discussed in these will be on the MCAT examination which is typically taken during the summer after junior year.

4. Students are required to take PSY105 and SO101. One of these courses will count towards completing the student's Social Science Core requirement. It is strongly recommended that students take at least one of these courses in their first year and that they are both completed prior to taking the MCAT since the material in these courses will be tested on this examination.

5. One semester of math is required. This can be satisfied by taking MA117, MA121 or MA251 is required. It is strongly recommended that students take one of these courses in the first year (either semester; however, MA 251 is not to be taken by first semester, first year students). Note that MA251 is the only course in this list that satisfies the Mathematics Core requirement.
6. Two semesters of physics is required. This can be satisfied by taking either physics 103/104 or 200/201. This requirement is typically satisfied in the junior year and should be completed prior to taking the MCAT exam since the material in these courses will be tested on this examination.
7. Students should declare themselves a Health Professions Advisory Committee (HPAC) premed advisee. Forms are available in the Office of Registration and Records or by contacting Dr. Aaron Cecala (cecalaa@etown.edu).

Students interested in Pre-Medicine, Pre-Veterinary, Pre-Dental, or Pre-Optometry studies should contact Aaron Cecala, Assistant Professor of Biology and Chair of Health Professions Advisory Committee, Lyet 241, extension 1341, cecalaa@etown.edu