

**Advising Tip Sheet**  
for prospective Biology (BIOL) or  
Biochemistry and Molecular Biology (BMB) students

Incoming, new, first-year students<sup>1</sup> should follow this path, which is what is currently described online<sup>2</sup> and summarized here:

For students who are considering a major or minor in BIO or major in BMB, the following three (3) courses are required as an introductory sequence:

1) **BIOL199** (can be substituted with BIOL190 or BIOL192)

There are no pre-requisites for BIOL199.

BIOL190 & BIOL192 are year-long integrated science courses (IQS and SMART, respectively) that require an application and acceptance into the course<sup>3</sup>. The application deadlines for IQS and SMART are July 7.

2) **BIOL200** (Either BIOL199 or BIOL190 or BIOL192 must be taken before enrolling in BIOL200)

3) **BIOL202** (BIOL200 is a pre-requisite for this course). BIOL202 is also a prerequisite for the majority of BIOL courses beyond the 200-level.

Some pre-health students may choose NOT to major or minor in BIOL or BMB, but BIOL200 and 202 are highly recommended courses. BIOL199 (or BIOL190 or BIOL192) is a required pre-req for BIOL200, so pre-health students should start their Biology coursework with one of those courses. Please consult the pre-health advisor for more detailed information<sup>4</sup>.

---

<sup>1</sup>Transfer students entering UR with approved transfer credit for 0-1 Biology courses should take BIOL199. Transfer students entering UR with approved transfer credit for more than one Biology course should consult the Chair of the Biology Dept. for advice on the proper placement.

<sup>2</sup> <http://biology.richmond.edu/program/major.html>  
<http://bmb.richmond.edu/program/major.html>

<sup>3</sup>More info on that is here: <http://iqscience.richmond.edu/program/application-open.html> and <http://smart.richmond.edu/Why/>

<sup>4</sup> <http://prehealth.richmond.edu/advising/index.html>

**SUGGESTED FIRST YEAR PLAN FOR STUDENTS WHO INTEND TO MAJOR IN BIOLOGY OR BIOCHEMISTRY AND MOLECULAR BIOLOGY (BMB):**

FALL:

1. BIOL 199 (any section)
2. CHEM 141
3. FIRST YEAR SEMINAR (FYS)
4. Math 211 or 212/232

Other variations are possible, including taking Math and/or Biology 199 in the second semester. Students pursuing a B.S. degree are required to complete Math 212 or 232 for which Math 211 is a pre-requisite. It is recommended that the math requirement be completed in the first two years. Students pursuing a B.A. degree do not have a math requirement.

SPRING

1. BIOL 200 (or complete BIOL 199)
2. CHEM 205
3. MATH 212/232 (or complete Math 211)
4. FIRST YEAR SEMINAR

Other variations are possible.

Students may take equivalents of CHEM 205 (Organic Chemistry I) and may substitute BIOL 206 (Cell Structure and Function) for BIOL 200 at Univ. of St. Andrews (Scotland) and receive a letter grade on their Richmond transcripts for these courses. Acceptance into this study abroad program is during fall term of first year. Students selected for this program would then take a different sequence of courses during their second semester at Richmond (example: complete Math, FYS, and language requirements or take other electives or requirements for a non-science major).

**SUGGESTED SECOND YEAR PLAN FOR PROSPECTIVE BIOLOGY OR BMB MAJORS**

FALL

1. BIOL 202
2. CHEM 206
3. Complete Math if not yet completed
4. Elective, General Education
5. Elective

Other variations are possible.

It is recommended that students complete the language requirement if not yet completed although this may also be done in a future semester.