

## Dual Degree, 3:4 Pharmacy Program: Biology Major

Student's Name \_\_\_\_\_ Advisor's Name \_\_\_\_\_

**Sample 3:4 Pharmacy Plan of Study for the University of Maryland with a Biology Major (the only real option to complete the program in 3 years without taking additional summer courses).**

First Year		Second Year		Third Year	
Fall	Spring	Fall	Spring	Fall	Spring
General Biology (BIO 111) †	General Biology (BIO 112) †	Microbiology (BIO 203) †	Upper Level Biology Elective	Integrative Human Anatomy (BIO 301)*	Integrative Human Physiology (BIO 424)*
Chemical Principles of Organic Molecules (CHE 120) †	Reactions of Organic Molecules (CHE 140) †	Quantitative Chemical Analysis (CHE 220) †	Chemistry of the Elements (CHE 240) †	College or General Physics (PHY 101 or 111) †	Elective
FYS	Microeconomics (ECN 112) †	Public Speaking† (CMS 150) or Acting (THE 211 Can count as Fine Arts req.)	Differential Calculus (MAT 111) †	Social Science Requirement	Social Science Requirement
Language Requirement	Language Requirement	Humanities (ENG 101/any 200)	Statistics (MAT 109) †	Biochemistry (BIO 409) <i>Highly Recommended</i>	Humanities/Fine Arts Requirement

† Specific course requirements for UMD School of Pharmacy

Pharmacy internship or work experience is recommended.

### Course Check List for the 3:4 Pharmacy Articulation with a Biology Major

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|--|---|
| <input type="checkbox"/> General Biology: BIO 111                          | <input type="checkbox"/> Differential Calculus: MAT 111           |
| <input type="checkbox"/> General Biology: BIO 112                          | <input type="checkbox"/> Statistics: MAT 109                      |
| <input type="checkbox"/> Chemical Principles of Organic Molecules: CHE 120 | <input type="checkbox"/> Microbiology: BIO 203                    |
| <input type="checkbox"/> Reactions of Organic Molecules: CHE 140           | <input type="checkbox"/> Comparative Vertebrate Anatomy: BIO 301  |
| <input type="checkbox"/> Quantitative Chemical Analysis: CHE 220           | <input type="checkbox"/> Comparative Animal Physiology: BIO 424   |
| <input type="checkbox"/> Chemistry of Elements: CHE 240                    | <input type="checkbox"/> Microeconomics ECN 112                   |
| <input type="checkbox"/> Physics: PHY 101 or 111                           | <input type="checkbox"/> Public Speaking: CMS 150/Acting: THE 211 |
|  | <input type="checkbox"/> ENG 101 or any 200                       |

### Additional Courses for the Biology Major at Washington College

- BIO 203, 301 and 424, required for the PharmD program, also count as three of the four upper-level Biology courses required for the Biology major. Any additional 200, 300 or 400 level course will complete the requirements for the major, including Biochemistry (BIO 409).
- For students not in the 3:4 program (staying at Washington College for four year) an additional three upper level courses are required to complete the major.

*Note: Pre-Pharmacy 3:4 students are not required to complete the Senior Capstone Experience (SCE).*