Allied Health Planner

The University of Mary Washington offers prerequisite courses required by allied health programs at other institutions. Students should visit the web site of the selected school to determine its specific entrance requirements. Though some of these programs do not require the completion of a baccalaureate degree, many students decide to first complete the degree requirements of UMW before applying.

Interested students are encouraged to meet with the Allied Health Advisor each semester to plan a course schedule for the upcoming semester that will allow them to most efficiently meet the prerequisites of the desired allied health program. Please contact the Allied Health Advisor (Michael Killian, Dept. of Biological Sciences, mkillian@umw.edu) if you are interested in learning more about meeting the requirements for any of the various allied health programs. More detailed information about the prerequisites for these programs and the UMW offerings that meet these prerequisites follows.

Nursing

Each nursing program has its own entrance requirements, so one must be familiar with the specific prerequisites for that school. Below is a list of UMW courses that commonly appear as nursing school prerequisites or are UMW prerequisites for these required courses. The typical UMW student pursuing a biology degree will generally have completed this list of courses only by the end of their third year at UMW.

**Freshman:** BIOL 121-122 (BIOLOGICAL CONCEPTS) or BIOL 125-126 (PHAGE HUNTERS), CHEM 111-112 (GENERAL CHEMISTRY), MATH 200 (STATISTICS), ENGL 101 (WRITING WORKSHOP), SOCG 105 (SOCIAL WORLD), PSYC 100 (GENERAL PSYCHOLOGY)

**Sophomore:** BIOL 340 (CELLULAR BIOLOGY; note that BIOL 340, along with BIOL 384, are prerequisites for BIOL 385), BIOL 204 (NUTRITION) or BIOL 471W (NUTRITION AND METABOLISM)

**Junior:** BIOL 371 (MICROBIOLOGY), BIOL 384 (HUMAN ANATOMY), BIOL 385 (HUMAN PHYSIOLOGY)

**Lifespan psychology requirement:** If completed at UMW this would require four courses—PSYC 100 (prerequisite for all other psychology courses at UMW), PSYC 331, PSYC 332, and PSYC 333. Alternatively, one could complete the life-span psychology requirement through the Virginia Community College System (VCCS) in one or two courses depending on course selection.

**Biomedical ethics requirement:** This course often appears as a nursing school requirement. UMW offers PHIL 226 (MEDICAL ETHICS) to fulfill this requirement.

**Elective course requirements:** In addition, elective courses in the areas of social sciences, history, humanities, and fine arts are required.
Pharmacy

Each pharmacy program has its own entrance requirements so one must be familiar with the specific prerequisites for that school. Some programs require two years of undergraduate work while others require three years, however the typical pharmacy school applicant has attained a baccalaureate degree. Below is a listing of courses that commonly appear as pharmacy school prerequisites and how they can be fulfilled at UMW. The typical UMW student pursuing a biology degree will generally have completed this list of courses only by the end of their third year at UMW.

Freshman: BIOL 121-122 (BIOLOGICAL CONCEPTS) or BIOL 125-126 (PHAGE HUNTERS), CHEM 111-112 (GENERAL CHEMISTRY), MATH 200 (STATISTICS), ENGL 101 (WRITING WORKSHOP), ENGL (English elective), SOCG 105 (SOCIAL WORLD), PSYC 100 (GENERAL PSYCHOLOGY)

Sophomore: CHEM 211-212 (ORGANIC CHEMISTRY I AND II), PHYS 101 OR 105 (GENERAL OR UNIVERSITY PHYSICS), BIOL 340 (CELLULAR BIOLOGY; note that BIOL 340, along with BIOL 384, are prerequisites for BIOL 385), MATH 121 (CALCULUS I)

Junior: CHEM 317 (BIOCHEMISTRY I), BIOL 371 (MICROBIOLOGY), BIOL 384 (HUMAN ANATOMY), BIOL 385 (HUMAN PHYSIOLOGY)

Some pharmacy schools recommend additional biology courses such as genetics (BIOL 341), molecular biology (BIOL 430), and immunology (BIOL 391). For those schools accepting students after the completion of three years of undergraduate work, additional courses in the humanities, social sciences, and behavioral sciences may be required.

Physician’s Assistant

Each physician’s assistant program has its own entrance requirements so one must be familiar with the specific prerequisites for that school. These schools require a baccalaureate degree for admission.

Required courses typically include the following: BIOL 121-122 (BIOLOGICAL CONCEPTS) or BIOL 125-126 (PHAGE HUNTERS), CHEM 111-112 (GENERAL CHEMISTRY), BIOL 384 (HUMAN ANATOMY), BIOL 385 (HUMAN PHYSIOLOGY), BIOL 371 (MICROBIOLOGY), MATH 200 (STATISTICS), PSYC 100 (GENERAL PSYCHOLOGY), BIOL 340 (CELLULAR BIOLOGY), CHEM 211-212 (ORGANIC CHEMISTRY I AND II), CHEM 317 (BIOCHEMISTRY I), lifespan/developmental psychology (PSYC 331, 332, or 333), college math (MATH 110, 111, 115 or others), and medical terminology (a Virginia Community College System offering).

Recommended coursework: developmental biology (BIOL 302), genetics (BIOL 341), physics (PHYS 101 or 105), public speaking (COMM 205), histology (BIOL 331), immunology (BIOL 391), and molecular biology (BIOL 430).

Medical Technology/Clinical Laboratory Sciences

Each medical technology or clinical laboratory science program has its own entrance requirements so one must be familiar with the specific prerequisites for that school. Students interested in these programs complete two years at UMW and two years at the institution offering the program, for example Clinical Laboratory Science at Virginia Commonwealth University and Medical Technology/Clinical Laboratory Science at Old Dominion University. Prerequisite courses include BIOL 121-122 (BIOLOGICAL CONCEPTS) or BIOL 125-126 (PHAGE HUNTERS), BIOL 384 (HUMAN ANATOMY), BIOL 385 (HUMAN PHYSIOLOGY), CHEM 111-112 (GENERAL CHEMISTRY), CHEM 211-212 (ORGANIC CHEMISTRY I AND II), MATH 200 (STATISTICS), ENGL 101 (WRITING WORKSHOP). Note that BIOL 340 (CELLULAR BIOLOGY), along with BIOL 384, are UMW prerequisites for BIOL 385. Additional prerequisites include courses in English literature or composition, the social sciences, humanities and arts, mathematics, and physics.