

PRE-PHARMACY PROGRAM

Requirements are subject to change. Students should check the VCU School of Pharmacy website periodically. VCU offers a pre-pharmacy concentration for students who are interested in attending pharmacy school. You may choose any major at the university and should work towards completing all required courses for both the major and pharmacy school. The following 90 hour prerequisite requirements apply to VCU School of Pharmacy. Students should check individual pharmacy school websites to learn about the prerequisites for other programs.

Courses earned through Advanced Placement Test of the College Board or an International Baccalaureate program will not be accepted to fulfill prerequisite science and math courses.

| COURSES | SEMESTER | GRADE |
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| ENGLISH: effective Fall 2007 | | |
| UNIV 111: Focused Inquiry I Grade of "C" or better required | | |
| UNIV 112: Focused Inquiry II Grade of "C" or better required | | |
| ENGL 200: Writing & Rhetoric Workshop II Prerequisite: UNIV 111- 112(or equivalent) & 24 credits; Grade of "C" or better required | | |
| MATH: VCU School of Pharmacy requires 2 Math courses. Students should check the Math requirements for their major & at various pharmacy schools before scheduling Math courses. | | |
| MATH 200: Calculus w/ Analytic Geometry Prerequisite: MATH 151 or by placement test | | |
| STAT 210: Basic Practice of Statistics Prerequisite: MATH 131,141,151 or by placement test | | |
| BIOLOGICAL SCIENCES: Most pharmacy schools require a minimum of 2 General Biology courses w/ a lab. General Biology courses depend on a student's major choice & should be made in consultation w/ the student's advisor | | |
| BIOL 151: Intro to Biological Science I Prerequisite: Placement into MATH 151 & "C" or better in CHEM 100 or through placement into CHEM 101 AND BIOZ 151: Intro to Biological Sciences I Lab | ----- | ----- |

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| BIOL 152: Intro to Biological Sciences II Can be taken before BIOL 151 Prerequisite: Placement into MATH 151 & "C" or better in CHEM 100 or through placement into CHEM 101 AND BIOZ 152: Intro to Biological Sciences Lab II | ----- | ----- |
| OR | | |
| BIOL 101: Biological Concepts AND BIOZ 101: Biological Concepts Lab | ----- | ----- |
| BIOL 201: Human Biology AND BIOZ 201: Human Biology Lab | ----- | ----- |
| BIOL 205: Human Anatomy Prerequisite: BIOL 101 and lab or equivalent w/ grade of C or better | | |
| BIOL 206: Human Physiology AND BIOZ 206: Human Physiology Lab Prerequisite: BIOL 101 and lab or equivalent w/ grade of C or better | ----- | ----- |
| BIOL 209: Medical Microbiology AND BIOZ 209: Medical Microbiology Lab Prerequisite: BIOL 101 and lab or equivalent w/ grade of C or better | ----- | ----- |
| CHEMISTRY | | |
| CHEM 101: General Chemistry I Prerequisite: CHEM 100 or by placement Prerequisite/Co-req MATH 151 | | |
| CHEZ 101: General Chemistry Lab I | | |
| CHEM 102: General Chemistry II Continuation of CHEM 101 | | |
| CHEZ 102: General Chemistry Lab II | | |
| ORGANIC CHEMISTRY | | |
| CHEM 301: Organic Chemistry I Prerequisites: CHEM 101-102 & CHEZ 101-102 | | |
| CHEZ 301: Organic Chemistry Lab I | | |
| CHEM 302: Organic Chemistry II Continuation of CHEM 301 | | |
| CHEZ 302: Organic Chemistry Lab II | | |
| CHEM 403: Biochemistry Prerequisite: CHEM 301 & 302 and labs | | |
| PHYSICS | | |

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| PHYS 201: General Physics Prerequisite: MATH 151 | | |
| OR | | |
| PHYS 207: University Physics I Co-requisite: MATH 200 | | |
| SPEECH | | |
| SPCH 121: Effective Speech | | |
| BIOMEDICAL SCIENCE FOUNDATION COURSES: Additional Science courses are recommended for students enrolling in Pharmacy School. The electives will be a balanced program in social sciences, art and humanities. Highly recommended electives are computer science, economics, psychology and sociology. | | |
| BIOL 218: Cell Biology Prerequisites: "C" or better BIOL/Z 151,152(or equivalent) CHEM 101 & 102 | | |
| BIOL 310: Genetics Prerequisites: "C" or better in BIOL 218 | | |
| BIOL 455: Immunology Prerequisite: BIOL 310 | | |
| ELECTIVE COURSES: | | |
| The electives will be a balanced program in social sciences, arts, and humanities. Highly recommended electives are computer science, psychology, and sociology. Others include political science, anthropology, history, foreign languages, philosophy, and religious studies. Electives should be general education components of the student's major program and chosen in consultation with a student's advisor. | | |

| HEALTH CARE, VOLUNTEERING, SHADOWING OPPORTUNITIES (Some of these may also be paid employment) | HOURS | RESPONSIBILITIES |
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| EXTRA-CURRICULAR, ORGANIZATIONS, PAID EMPLOYMENT (non-medical) | HOURS | RESPONSIBILITIES |
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