

Medical University of South Carolina
Bachelor of Science in Healthcare Studies
Course Prerequisites for MUSC's Graduate Programs

Below are the course prerequisites for graduate programs in the College of Health Professions. If you are interested in applying to a graduate program after graduating from the Bachelor of Science in Healthcare Studies (BSHS) program, it is important to take these courses while completing your general education requirements at a technical college or community college because these courses are not offered at MUSC. Please check MUSC's website for updates to course prerequisites as they are subject to change:

http://academicdepartments.musc.edu/chp/academic_programs/

*Note: The specific courses below are not prerequisites for the BSHS program, but rather courses you can take to complete the general education requirements needed to apply to the program (60 credit hours of general education courses following the Associate in Science track, not the Applied Associate in Science track).

Master in Health Administration: The following courses are *avored* in admissions decisions for the Health Administration program:

Course	Credit Hours
MAT 120: Probability and Statistics	3
ECO 211: Microeconomics	3
TOTAL	6

Note: An undergraduate Accounting course is suggested.

Master of Science in Health Informatics: There are no course prerequisites for this program. One or more years of healthcare or IT work experience is preferred but not essential.

Master of Science in Physician Assistant Studies: The following courses are required for admissions decisions for the PA program for students entering the program in May 2018 (Note: All prerequisite coursework **MUST** be completed within the past 10 years):

Course	Credit Hours
Mathematics:	
MAT 120: Probability and Statistics or MAT 165: Statistics	3
Natural Sciences:	
BIO 101: Biological Science I (lab)	4
BIO 210: Anatomy & Physiology I (lab)	4
BIO 211: Anatomy & Physiology II (lab)	4
CHM 110: College Chemistry I (lab)	4
CHM 111: College Chemistry II (lab)	4
BIO 225: Microbiology	4
CHM 211: Organic Chemistry I or CHM 213: Principles of Biochemistry	3
Social/Behavioral Science:	
PSY 203: Human Growth and Development	3
Elective:	
AHS 102: Medical Terminology or AHS 104: Medical Vocabulary/Anatomy	1
TOTAL	30

Master of Science in Cardiovascular Perfusion:

Course	Credit Hours
Mathematics:	
College Algebra or above (<i>6 hours recommended</i>)	3
MAT 120: Probability and Statistics	3
Natural Sciences:	
BIO 210: Anatomy & Physiology I (lab)	4
BIO 211: Anatomy & Physiology II (lab)	4
CHM 110: College Chemistry I (lab)	4
CHM 111: College Chemistry II (lab)	4
PHY 201: Physics I (lab)	4
Elective:	
AHS 102: Medical Terminology or AHS 104: Medical Vocabulary/Anatomy	1
TOTAL	27

Master of Science in Occupational Therapy:

Course	Credit Hours
Mathematics:	
MAT 120: Probability and Statistics	3
Natural Sciences:	
BIO 210: Anatomy & Physiology I (lab)	4
BIO 211: Anatomy & Physiology II (lab)	4
Social/Behavioral Science:	
PSY 203: Human Growth and Development	3
PSY 212: Abnormal Psychology	3
ANT 101: General Anthropology or SOC 101: Introduction to Sociology	3
TOTAL	20

Doctor of Physical Therapy:

Course	Credit Hours
Mathematics:	
MAT 120: Probability and Statistics	3
Natural Sciences:	
BIO 101: Biological Science I (lab)	4
BIO 102: Biological Science II	3
BIO 210: Anatomy & Physiology I (lab)	4
BIO 211: Anatomy & Physiology II	3
CHM 110: College Chemistry I (lab)	4
CHM 111: College Chemistry II (lab)	4
PHY 201: Physics I (lab)	4
PHY 202: Physics II (lab)	4
Social/Behavioral Science:	
PSY 201: General Psychology	3
PSY 212: Abnormal Psychology	3
TOTAL	39

College of Medicine (MD): Medical College Admission Test (MCAT) scores are required (taken within 3 years from the date of matriculation). The MCAT should be taken no later than spring or fall of the year preceding admission. To do well on the MCAT, students are advised to take two semesters each of General Biology, General Chemistry, Organic Chemistry, General Physics, and Biochemistry. Also recommended is one semester each of Introductory Psychology and Introductory Sociology. Other courses that have been shown to be of value are: anatomy, biochemistry, cell biology, embryology, genetics and physiology. For more information about admissions, visit: <http://academicdepartments.musc.edu/com/education/admissions/>

Course	Credit Hours
Natural Sciences:	
BIO 101: Biological Science I (lab)	4
BIO 102: Biological Science II (lab)	4
BIO 210: Anatomy & Physiology I (lab)	4
BIO 211: Anatomy & Physiology II (lab)	4
CHM 110: College Chemistry I (lab)	4
CHM 111: College Chemistry II (lab)	4
CHM 211: Organic Chemistry I (lab)	4
CHM 212: Organic Chemistry I (lab)	4
<i>Principles of Biochemistry</i>	3
PHY 201: Physics I (lab)	4
PHY 202: Physics II (lab)	4
Social/Behavioral Science:	
PSY 201: General Psychology	3
SOC 101: Introduction to Sociology	3

College of Dental Medicine (DMD): Although a minimum of three years of college work (90 semester hours) are required for admission, applicants generally should have completed four years of college work and earned a baccalaureate degree before entrance. In addition, an applicant can only have completed a maximum of 60 semester hours at a junior/community college if all hours are earned before the student enters the third year of study toward a baccalaureate degree. Below are required course prerequisite courses. For more information about admissions, visit: http://academicdepartments.musc.edu/dentistry/students/prospective-students/admission_requirements.htm

Course	Credit Hours
Natural Sciences:	
BIO 101: Biological Science I (lab)	4
BIO 102: Biological Science II (lab)	4
CHM 110: College Chemistry I (lab)	4
CHM 111: College Chemistry II (lab)	4
CHM 211: Organic Chemistry I (lab)	4
CHM 212: Organic Chemistry I (lab)	4
PHY 201: Physics I (lab)	4
PHY 202: Physics II (lab)	4
Science Electives (total: 8 credit hours): <i>Examples: Microbiology, Biochemistry, Anatomy, Genetics, etc.)</i>	8
BIO 210: Anatomy & Physiology I (lab)	4
BIO 211: Anatomy & Physiology II (lab)	4
<i>Principles of Biochemistry</i>	
Mathematics (total: 6 credit hours)	6
English (total: 6 credit hours):	6
ENG 101: English Composition I	3
ENG 102: English Composition II	3

College of Pharmacy (PharmD): The MUSC Doctor of Pharmacy (PharmD) program requires at least 66 hours of prerequisite coursework (see below) followed by four academic years of professional study. For more information about admissions, visit: <http://academicdepartments.musc.edu/cop/admissions-students/criteria.html>

Course	Credit Hours
Natural Sciences:	
BIO 101: Biological Science I (lab)	4
BIO 102: Biological Science II (lab)	4
BIO 210: Anatomy & Physiology I	3
BIO 211: Anatomy & Physiology II	3
BIO 225: Microbiology	4
CHM 110: College Chemistry I (lab)	4
CHM 111: College Chemistry II (lab)	4
CHM 211: Organic Chemistry I (lab)	4
CHM 212: Organic Chemistry I (lab)	4
PHY 201: Physics I	3
Mathematics:	
MAT 120: Probability and Statistics	3
MAT 130: Elementary Calculus or MAT 140: Analytic Geometry and Calculus I	3 or 4
English:	
ENG 101: English Composition I	3
ENG 102: English Composition II	3
Verbal Skills:	
SPC 205: Public Speaking	3
Social Sciences:	
ECO 210: Macroeconomics or ECO 211: Microeconomics	3
PSY 201: General Psychology	3
Liberal Arts Electives (total: 9 credit hours)	9