



**RECOMMENDED COURSE OF STUDY FOR PRE-HEALTH CARE PROFESSION  
BIOLOGICAL SCIENCES – CELLULAR/MOLECULAR BIOLOGY MAJOR WITH CHEMISTRY MINOR**



- A 2.00 Overall GPA and 128 hours total college credit with 48 hours at the 300 – 499 level is required for graduation.
- A minimum of 40 credit hours must be earned from within the Department of Biological Sciences. Independent study (BSC 485 – 488) cannot count toward this requirement.
- Marshall Plan requires 6 International credit hours, 3 Writing Intensive credit hours, and 3 Multicultural credit hours.
- Students must pursue a minor to meet graduation requirements. See individual departments for minor requirements.
- Students following this recommended curriculum should graduate within four academic years.

**Green highlighted courses are science block courses for pre-professional schools.**

YEAR ONE					
Fall Semester		Hours	Spring Semester		Hours
BSC 120, Principles of Biology I*		4	BSC 121, Principles of Biology II*		4
CHM 211, Principles of Chemistry I		3	CHM 212, Principles of Chemistry II		3
CHM 217, Principles of Chemistry I Lab		2	CHM 218, Principles of Chemistry II Lab		2
MTH 130 or MTH 127, Algebra**		3 or 4	MTH 122, Trig. or 140, Applied Calculus**		3
ENG 101, English Composition I		3	ENG 102, English Composition II		3
UNI 101/HON 101, New Student Seminar		1	Free Elective		1
<b>Total</b>		<b>16 or 17</b>	<b>Total</b>		<b>16</b>
YEAR TWO					
Fall Semester		Hours	Spring Semester		Hours
BSC 300 – 499 Required Core Course††		4	BSC 300 – 499 Required Core Course††		4
CHM 355, Organic I		3	CHM 356, Organic II		3
PHY 201, General Physics I		3	CHM 361, Organic Lab		3
PHY 202, General Physics I Lab		1	PHY 203, General Physics II		3
CMM 103/104H, Speech Communications		3	PHY 204, General Physics II Lab		1
<b>Total</b>		<b>14</b>	SOC 200, Intro Sociology (Multicultural)†		3
			<b>Professional Exam for Early Entrance‡</b>	<b>Total</b>	
					<b>17</b>
YEAR THREE					
Fall Semester		Hours	Spring Semester		Hours
BSC 300 – 499 Required Core Course††		4	BSC 300 – 499 Required Major Course ††		4
BSC 300 – 499 Required Major Course ††		3	BSC 300 – 499 Allowable Elective\$		3
PSY 201, General Psychology		3	International Social Science Elective†		3
300 – 499 Writing Intensive Literature Elect†††		3	Humanities Elective††		3
Foreign Language***		3	Foreign Language***		3
<b>Professional Exam‡</b>	<b>Total</b>		<b>Professional Exam‡</b>	<b>Total</b>	
		<b>16</b>			<b>16</b>
YEAR FOUR					
Fall Semester		Hours	Spring Semester		Hours
BSC 300 – 499 Required Major Course ††		3	BSC 491, Capstone		2
BSC 300 – 499 Allowable Elective\$		3	BSC 300 – 499 Allowable Elective\$		3
300 – 499 Literature Elective†††		3	Social Science Elective†		3
Foreign Language***		3	Foreign Language***		3
International Social Science Elective†		3	Free Electives		5 or 6
Free Elective		1	<b>Total</b>		<b>16 or 17</b>
<b>Professional Exam‡</b>	<b>Total</b>				
		<b>16</b>			
<b>TOTAL HOURS – 128 (48 300 – 499 level credit hours)</b>					

\*A grade of "C" or better is required.

\*\*If MTH 132, Pre-calculus with Science Applications (5 hours) or MTH 229, Calculus I (5 hours) is taken, no additional mathematics courses are required.

\*\*\*Choose one of the following: FRN 203 and 204, GER 203 and 204, JPN 203 and 204, SPN 203 and 204, or another modern language 203 and 204. Depending on high school background, this will require 3 – 12 hours at the college level.

†Students are required to complete 15 credit hours in Social Sciences from at least 3 different fields: Anthropology – any course; Criminal Justice – any course; Economics – any course; Geography – any course *except* 101, 425, 429, and 430; History – any course; Political Science – any course; Psychology – any course *except* 223 or 417; Sociology – any course *except* 344, 345, 445; or Women's Studies 101. PSY 201 and SOC 200 are recommended for Pre-Health majors.

††Students are required to complete 3 credit hours in Humanities: Classics – any course *except* 230, 231, 232, 233, 234, 235, or 236, Philosophy – any course; or Religious Studies – any course *except* 304, 310, 320, 325, or 351.

†††Students are required to complete 6 credit hours in Literature: Classics 230, 231, 232, 233, 234, 235, or 236; English – any 300 – 499 level course in literature only; French 317, 318, 401, 402, 403, or 404; German 301, 302, 417, or 418; Latin – any 300 – 499 level course; Religious Studies 304, 310, 320, 325, or 351; or Spanish 411, 412, 413, 414, 415, or 416.

‡‡Required Core Courses (choose three): BSC 302, 320, 322, **or** 324. Required Major courses: BSC 365, 450, 452 **or** 481 and 491.

\$BSC 104, 105, 227, 228 and 250 do not count as electives for Biology majors. Choose courses from BSC 300- 499 level or BSC 481 (with permission).

Based on students experience with the MCAT, BSC 322 and BSC 365 are recommended to prepare for the exam. Other recommended courses for professional school are BSC 300, BSC 310, BSC 417, BSC 424, BSC 448, and MTH 225.

‡‡It is best to take the professional exam in the spring of the junior year prior to the year of first enrollment in the professional school. If necessary, student may be able to **retake** the professional exam in the fall semester of the senior year. In a few cases, the student, after discussions with his/her advisor, may choose to take the professional exam during the spring semester of the sophomore year to apply for early entrance. An individual may take the MCAT only three times. Professional exams are AHPAT – Allied Health Professions Admission Test for Physical Therapy Schools; DAT – Dental Admissions Testing for Dentistry School; GRE – Graduate Record Exam for Physician Assistant School, Podiatry School, or Veterinary Medicine; MCAT – Medical College Admission Testing for Medical School or Podiatry School; OAT – Optometry Admission Testing for Optometry School; PCAT – Pharmacy College Admission Test for Pharmacy School; and VCAT – Veterinary College Admission Test for Veterinary Schools. Consult the professional school(s) of your choice to determine which professional exam is required.