

## B.A. in Chemistry with a Concentration in PreProfessional Studies

First Semester			Second Semester		
CHM 115	Elements & Compounds	3	CHM 116	The Chemical Reaction	3
CHM 113	Elements & Compounds Lab	1	CHM 114	The Chemical Reaction Lab	1
MTH 111	Calculus I	4	MTH 112	Calculus II	4
ENG 101	English 101	4	<i>BIO 122</i>	<i>Intro Bio II</i>	4
FYF 101	First Year Foundations	3	PSY 101	Intro Psychology (Distrib)	3
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>15</b>
Third Semester			Fourth Semester		
CHM 231	Organic Chemistry I	3	CHM 232	Organic Chemistry II	3
CHM 233	Organic Chemistry I Lab	1	CHM 234	Organic Chemistry II Lab	1
PHY 201	Physics I	3	PHY 202	Physics II	3
PHY 204	Physics I Lab	1	PHY 205	Physics II Lab	1
CS 125	Computer Science I	4	CHM 248	Analytical Chemistry	3
<i>BIO 121</i>	<i>Intro Bio I</i>	4	CHM 246	Analytical Chemistry Lab	1
<b>Semester Total</b>		<b>16</b>	MTH 212	Multivariate Calculus	4
<b>Semester Total</b>		<b>16</b>	<b>Semester Total</b>		<b>16</b>
Fifth Semester			Sixth Semester		
CHM 341	Instrumental Analysis	3	CHM 322	Inorganic Chemistry	3
CHM 343	Instrumental Analysis Lab	1	CHM 323	Inorganic Chemistry Lab	1
<i>CHM 361</i>	<i>Biochemistry I</i>	3	CHM 362	Biochemistry II	3
<i>CHM 363</i>	<i>Biochemistry Lab</i>	1	CHM 390	Junior Seminar	1
CHM 355	Physical Chem./Life Sciences	3	<i>BIO 226</i>	<i>Cell and Molecular Biology</i>	4
CHM 357	Physical Chem./Life Sci. Lab	1		Distribution Requirement	3
	Distribution Requirement	3	<b>Semester Total</b>		<b>15</b>
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>15</b>
Seventh Semester			Eighth Semester		
CHM 391	Senior Research	2	CHM 392	Senior Research	2
<i>BIO 327</i>	<i>Medical Microbiology</i>	4	<i>CHM 398</i>	<i>Medicinal Chemistry</i>	3
<i>prg 301</i>	<i>Program Elective</i>	3	<i>prg 302</i>	<i>Program Elective</i>	3
	Distribution Requirement	3		Distribution Requirement	3
	Distribution Requirement	3		Free Elective	3
<b>Semester Total</b>		<b>15</b>	<b>Semester Total</b>		<b>14</b>
			<b>Grand Total</b>		<b>121</b>

⇒ Program Electives are italicized.

**2017-2018 Wilkes University**

**Pre-Professional Doctoral Programs Core Courses**

*(Allopathic Medicine, Dentistry, Optometry, Osteopathic Medicine, Podiatric Medicine, and Veterinary Medicine)*

Name: \_\_\_\_\_

WIN #: \_\_\_\_\_

Advisor: \_\_\_\_\_

Date: \_\_\_\_\_

***If non-science major, please contact Center for Health Sciences & Student Success for scheduling & planning.***

**Minimum Course Requirements:** *(Check professional schools of interest for any additional requirements)*

____ BIO 121 – Principles of Modern Bio I (4)	____ ENG Elective (3-6)
____ BIO 122 – Principles of Modern Bio II (4)	____ CS 115 – Computers & Applications (3)
	____ PSY 101 – General Psychology (3)
	____ SOC 101 – Intro to Sociology (3)
____ CHM 113/115 – Elements/Compounds & Lab (4)	____ PHY 171 – Principles: Classic/Modern Phys (4)
____ CHM 114/116 – Chemical Reaction & Lab (4)	<b>&amp;</b> ____ PHY 174 – Application: Classic/Modern Phys (4)
____ CHM 231/233 – Organic Chem I & Lab (4)	<b>OR</b>
____ CHM 232/234 – Organic Chem I & Lab (4)	____ PHY 201 – General Physics I (4)
____ CHM 361** – Biochem: Structure & Function (4)	<b>&amp;</b> ____ PHY 202 – General Physics II (4)
____ CHM362** – Biochem: Metabolism (4)	
____ MTH 111 – Calculus I (4)	<u>Pre-Optometry Students Only:</u>
<b>OR</b>	____ MTH 150 – Statistics (3)
____ MTH 114 – Biological Calculus (4)	____ BIO 327 – Medical Microbio (4)
____ Research Course or Special Project (3)	

***\*\*One course is required, however, both are recommended. If taking only one level 300 CHEM course, CHM 362 is recommended.***

**Recommended Courses:** *(Based on recommendations of a wide variety of health professional school programs)*

____ BIO 226 – Cellular & Molecular Bio (4)	<u>Pre-Dental Students Only:</u>
____ BIO (2) 300 Level (6-8)	____ BIO 323 – Histology (4)
____ MTH 150 – Statistics (3)	<u>Pre-Veterinary Students Only:</u>
	____ BIO 345 – Genetics (4)

**Minimum Extracurricular Requirements:**

<b>Volunteer Experiences: 20 hours per year</b>	<b>Shadowing &amp; Patient Care Hours: 20 hours per year</b>	<b>Pre-Professional Society Programs</b>
1. _____	1. _____	1. _____
2. _____	2. _____	2. _____
3. _____	3. _____	3. _____
4. _____	4. _____	4. _____

**Professional School Exam Scores:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Professional School ID #** \_\_\_\_\_

**In order to fulfill the requirements to earn a Bachelor’s degree from Wilkes University, students MUST:**

1. Complete all degree requirements for a given major and complete all courses identified above
2. Follow the timeline associated with the specific professional field of interest and complete the Pre-Professional Core by the end of the junior year (with the exception of the senior research course or special project)
3. Attend Pre-Professional Society programming sponsored by the Center for Health Sciences and Student Success, perform volunteer service, engage in patient care experiences, and take part in shadowing opportunities, during each year at Wilkes University

Course requirements vary from one professional school to another. Please be sure to check the requirements of the institution(s) to which you are applying and complete all prerequisite courses and activities. As a pre-medical student, it is imperative that you identify the schools to which you will apply as early as possible in your undergraduate career. It is your responsibility to meet the particular requirements of the professional schools.

Students enrolled in the Accelerated Seven Year Programs will be waived from the senior year research course or special project. Students in these programs must complete 98 credits in three years, which requires 15 credits in the first and second semesters and 17 credits in semesters three through six.