

# Queens College

Major in Biology AND Meet Requirements for Physician Assistant School<sup>†</sup>

**Biology credits needed for Physician Assistant School: 27**

**Biology credits needed for B.A. in Biology: 36**

Courses Required for B.A. in Biology	Courses that Meet Physician Assistant Requirements
<ol style="list-style-type: none"> <li>1. CHEM 113 &amp; 114 (General Chemistry)</li> <li>2. CHEM 251 (Organic Chemistry I)</li> <li>3. MATH 142 or 151 (Calculus I)</li> <li>4. BIO 105 &amp; BIO 106 (General Biology) (8 Cr.)</li> <li>5. Any two of BIO 285, 286, or 287 (Principles of Genetics, Cell Biology, or Evolution) (7-8 Cr.)</li> <li>6. For the remaining 21 Biology credits:               <ol style="list-style-type: none"> <li>a. At least three courses must be 300 level</li> <li>b. At least four must be 200 or 300-level laboratory courses</li> <li>c. Recommended courses:                   <ol style="list-style-type: none"> <li>i. BIO 201* (Gen. Microbiology)</li> <li>ii. BIO 226* (Comp. Vert. Anatomy)</li> <li>iii. BIO 245 (Evolution and Culture)</li> <li>iv. BIO 325* (Anatomy &amp; Physiology I)</li> <li>v. BIO 326* (Anatomy &amp; Physiology II)</li> <li>vi. BIO 350 (Molecular Genetics)</li> <li>vii. BIO 360* (Vertebrate Histology)</li> <li>viii. BIO 362* (Lab Tech in Mol Bio)</li> <li>ix. BIO 363* (Lab Tech in Cell Bio)</li> <li>x. BIO 365* (Developmental Biology)</li> <li>xi. BIO 366 (Immunology)</li> <li>xii. BIO 367 (Molecular Biology)</li> <li>xiii. BIO 372* (Vertebrate Physiology)</li> <li>xiv. BIO 373 (Neurophysiology)</li> <li>xv. Virology</li> <li>xvi. Cancer Biology</li> </ol> </li> </ol> </li> </ol>	<ol style="list-style-type: none"> <li>1. CHEM 113 &amp; 114</li> <li>2. CHEM 251 &amp; 252</li> <li>3. MATH 142 or 151</li> <li>4. BIO 105 &amp; BIO 106 (8 Cr.)</li> <li>5. BIO 201* (4 Cr.)</li> <li>6. BIO 285 &amp; BIO 286 (7 Cr.)</li> <li>7. BIO 325* &amp; Bio 326* (8 Cr.)</li> </ol> <p>Additional courses needed for B.A. in Biology:</p> <ul style="list-style-type: none"> <li>• Three Biology elective courses           <ul style="list-style-type: none"> <li>○ One laboratory course.</li> <li>○ One must be 300 – level</li> </ul> </li> </ul> <p>Additional requirements for the PA program:</p> <ol style="list-style-type: none"> <li>1. Medical Terminology (AH101)</li> <li>2. CHEM 371 – Biochemistry I</li> <li>3. One year of English</li> <li>4. Social Statistics</li> <li>5. Four courses of Psychology, Sociology, or Urban Studies.</li> </ol> <p>Other requirements:</p> <ol style="list-style-type: none"> <li>1. Bachelor's Degree</li> <li>2. Overall and Science GPA of 3.2 or better</li> <li>3. GRE (varies between schools)</li> <li>4. Minimum of 500-2500 hours of patient care experience (varies between the schools)</li> <li>5. Minimum of 250 hours of Community Service</li> <li>6. Shadowing of a Physician Assistant</li> </ol>

<sup>†</sup> - Albany Medical College, CUNY School of Medicine, Hofstra University, Long Island University, New York Institute of Technology, Pace University, Quinnipiac University, St. John's University, SUNY Downstate Medical Center, Touro College, Weill Cornell Medicine, Yale University and York College of CUNY.

\* - Laboratory Course

# Queens College

**Proposed Plan to Both Complete Coursework for the Queens College B.A. in Biology and Meet Requirements for Entry into Physician Assistant Schools<sup>‡</sup>**

## Freshman Year

	Courses	Credits	Physician Assistant School	Biology Major	College General Education
<b>Fall Semester</b>	<b>BIO 105 – General Biology I</b> Required Core (LPS)	4	X	X	X
	<b>ENG 110 – College Writing I</b> Required Core (EC1)	3	X	X	X
	Flexible Core – a course in Urban Studies (USED or WCGI)	3	X		X
	Flexible Core – A course in Psychology (SW)	3	X		X
	Flexible core – A course in Sociology (IS)	3	X		X
	<b>Total Credits / semester</b>	<b>16</b>			
<b>Spring Semester</b>	<b>Bio 106 – General Biology II</b> College Core (LPS)	4	X	X	X
	<b>Math 151 – Calculus I</b> Required Core (MQR)	4	X	X	X
	Required Core – College Writing 2 (EC2)	3			X
	Flexible Core –A course in Sociology (USED)	3	X		X
	<b>Total Credits / semester</b>	<b>14</b>			

**Total Biology Credits:** 4 + 4 = 8

**Cumulative Credits:** 16 + 14 = 30

**General Education Requirements:** 4 Required Core, 4 Flexible Core, & 1 College Core course

## Sophomore Year

<b>Fall Semester</b>	<b>BIO 286 – Principles of Cell Biology</b>	3	X	X	
	<b>CHEM 113.4. Gen Chemistry I</b> Flexible Core (SW)	4	X	X	X
	<b>CHEM 113.1. Intro. Chem. Tech</b> – Flexible Core	1	X	X	X
	<b>Biology Elective</b> – Laboratory course	4		X	
	Major or non – major elective	3			
	<b>Total Credits / semester</b>	<b>15</b>			
<b>Spring Semester</b>	<b>BIO 285 – Principles of Genetics</b>	4	X	X	
	<b>CHEM 114.4 – General Chemistry II</b>	4	X	X	
	<b>CHEM 114.1 - Quant. and Qual. Analysis Lab</b>	1	X	X	
	<b>BIO 201 – General Microbiology</b>	4	X	X	
	Non – major elective	3			
	<b>Total Credits / semester</b>	<b>16</b>			

**Total Biology Credits:** 8 prior + 7 + 8 = 23 Credits

**Cumulative Credits:** 30 prior + 15 + 16 = 61 Credits

**General Education Requirements:** 1 Flexible Core course

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### Junior Year

Courses		Credits	Physician Assistant Program	Biology Major	College General Education
Fall Semester	<b>BIO 325 – Anatomy &amp; Physiology I</b>	4	X	X	
	<b>CHEM 251.4 Organic Chem. I – College Core (SCI)</b>	4	X	X	X
	<b>CHEM 251.1 Organic Chem. Lab – College Core</b>	1	X	X	X
	Non – Major elective	3		X	
	College Core course – Literature (LIT)	3			X
	<b>Total Credits</b>	<b>15</b>			
Spring Semester	<b>BIO 326 – Anatomy &amp; Physiology II</b>	4	X	X	
	<b>CHEM 252. 4 - Organic Chemistry II</b>	4	X		
	<b>CHEM 252.1 – Organic Chemistry II Laboratory</b>	1	X		
	Flexible Core – A course in CE, IS, WCGI, or USED	3			X
	Non – major elective	3			
<b>Total Credits</b>	<b>15</b>				

**Total Biology Credits:** 23 prior + 4 + 4 = 31 Credits  
**Cumulative Credits:** 61 prior + 15 + 15 = 91 Credits  
**General Education Requirements:** 2 College Core & 1 Flexible Core course

### Senior Year

Fall Semester	<b>CHEM 371 – Biochemistry I</b>	4	X		
	<b>Biology Major Elective</b>	3		X	
	<b>Medical Terminology</b>	3	X		
	College Core course – Language (LANG)	3			X
	<b>Total Credits / semester</b>	<b>13</b>			
Spring Semester	<b>Biology Major Elective</b>	3		X	
	<b>SOC 205 or PSYCH 107 – Statistics</b>	4	X		
	Major or non – major elective	3			
	Major or non – major elective	3			
<b>Total</b>	<b>16</b>				

**Total Biology Credits:** 31 prior + 6 = 37 Credits  
**Cumulative Credits:** 91 prior + 13 + 16 = 120 Credits  
**General Education Requirements:** 1 College Core course

‡ - This plan should be reviewed with an undergraduate advisor to guarantee completion of all of the Biology Major, CUNY Pathways, and/or College General Education requirements.