

# Q.U. UNDERGRADUATE DEGREE REQUIREMENTS - BONAVENTURE PROGRAM AND MAJOR

## B.S. - BIOCHEMISTRY & MOLECULAR BIOLOGY (120 HRS)

CATALOG YEAR: 2024-2025

DATE AA / AS AWARDED \_\_\_\_\_

NAME \_\_\_\_\_ ID# \_\_\_\_\_

### BONAVENTURE PROGRAM

	Grade	Credit	IP/Sem*
<b>A. UNIVERSITY COURSES</b>		<b>(0-6 hours)</b>	
Diversity course (D:)** _____ ®	_____	0/3	_____
Global course (G:)** _____ ®	_____	0/3	_____
BPP 410 - Bonaventure Program Portfolio	_____	0	_____

<b>B. WRITTEN / ORAL COMMUNICATION</b>		<b>(9 hours)</b>	
ENG 111 - Composition	_____	3	_____
ENG 112 - Composition & Texts	_____	3	_____
COM 101 - Fundamentals of Public Speaking	_____	3	_____
<b>WRITING-ENRICHED COURSES (≥ 2)</b>			
BMB 497 _____	_____		_____

<b>C. PHILOSOPHY / THEOLOGY / ETHICS</b>		<b>(9-12 hours)</b>	
TRS 116 - Western Religious Tradition ®	_____	3	_____
TRS _____ - _____ ®	_____	3	_____
PHI _____ - _____	_____	3	_____
Ethics/Franciscan Values (E:) _____ ®	_____	3	_____
<i>E: course must be at 300 level or above</i>			
PHI 323 highly recommended			

<b>D. HUMANITIES / FINE ARTS</b>		<b>(6 hours)</b>	
English Literature ≥ 200 level _____	_____	3	_____
Art, Music, Theatre, or Film _____	_____	3	_____

<b>E. SOCIAL SCIENCES</b>		<b>(9 hours)</b>	
(CRJ, ECO, HMS, POL, PSY, SOC - select from 2 areas)			
_____ - _____	_____	3	_____
_____ - _____	_____	3	_____
HIS _____ - History _____	_____	3	_____

<b>F. NATURAL SCIENCES / MATHEMATICS</b>		<b>(4 hours)</b>	
BIO - Met by major requirements			
CHE - Met by major requirements			
MAT 242 - Calculus and Analytic Geometry I ®	_____	4	_____

® Required: not waived with A.A./A.S. Degree

	Grade	Credit	IP/Sem*
<b>G. BIOCHEMISTRY AND MOLECULAR BIOLOGY</b>		<b>(65 hours)</b>	
<b>BIOLOGY CORE</b>		<b>(16 hours)</b>	
BIO 150 - Principles of Biology I (FA)	_____	4	_____
BIO 305 - Genetics (SP)	_____	3	_____
BIO 405 - Advanced Genetics	_____	3	_____
BIO 350 - Molecular Biology (FA)	_____	3	_____
BIO 450 - Advanced Molecular Biology	_____	3	_____
<b>CHEMISTRY CORE</b>		<b>(24 hours)</b>	
CHE 150 - General Chemistry I (FA)	_____	5	_____
CHE 151 - General Chemistry II (SP)	_____	5	_____
CHE 205 - Forensic Chemistry	_____	4	_____
CHE 302 - Organic Chemistry I (FA)	_____	5	_____
CHE 303 - Organic Chemistry II (SP)	_____	5	_____
<b>BIOCHEMISTRY CORE</b>		<b>(11 hours)</b>	
CHE 131 - Introduction to Biochemistry	_____	3	_____
CHE 321 - Biochemistry	_____	4	_____
CHE 421 - Advanced Biochemistry	_____	4	_____
<b>RESEARCH CORE</b>		<b>(14 hours)</b>	
BMB 280 - Introduction to Biochemistry Research	_____	3	_____
BMB 281 - Sophomore Research	_____	2	_____
BMB 380/381 - Junior Research	_____	2+2	_____
BMB 480/481 - Senior Research	_____	2+2	_____
BMB 497 - W: Senior Seminar	_____	1	_____

**Students need a Cumulative Major G.P.A. of 2.0 and no more than two major courses (section G) below a 'C' for degree completion**

<b>H. REQUIRED SUPPORT COURSES</b>		<b>(11 hours)</b>	
MAT 150 - Statistics	_____	3	_____
PHY 211 - Fundamentals of Physics I (FA)	_____	4	_____
PHY 212 - Fundamentals of Physics II (SP)	_____	4	_____

<b>I. ADDITIONAL ELECTIVES (Any discipline)</b>		<b>(7 hours)</b>	
BIO 232 - Microbiology (Highly Recommended)	_____	3	_____
BIO 330 - Developmental Biology (Highly Recommended)	_____	3	_____
CHE 401 - Physical Chemistry I (Recommended)	_____	4	_____
MAT 243 - Calculus II (Recommended)	_____	4	_____
_____ - _____	_____	_____	_____

**Certain courses are usually offered in one semester (FA/SP).  
Check with the Registrar or your advisor for scheduling changes.**

<p><b>UNDERGRADUATE DEGREE REQUIREMENTS</b></p> <p><b>QUANTITATIVE AND RESIDENCY</b></p> <p>____ Complete ≥ 120 hrs</p> <p>____ Complete ≥ 39 hrs at the 300-400 course level</p> <p>____ Meet major requirements as set in Academic Catalog</p> <p>____ Complete ≥ 27 hrs at 200-400 level with <b>≥ 21 hrs at QU</b></p> <p>____ Complete ≥ 30 hrs in residency with <b>≥ 21 hrs in major</b></p> <p>____ Complete ≥ 56 hrs at a 4-year institution</p> <p><b>QUALITATIVE</b></p> <p>____ A minimum cumulative GPA of 2.0 overall</p> <p>____ A minimum GPA of 2.0 in major and relevant minor coursework</p> <p>Quincy University coursework is measured by Semester Hour. Quarter Hour transfer work will be transferred in as the equivalent Semester Hour.</p>	<p><b>TRANSFER STUDENTS WITH A.A. OR A.S. DEGREE</b></p> <p>Most Bonaventure Program requirements are fulfilled except:</p> <p>____ 2 Theology courses (one course may transfer in)</p> <p>____ 1 300 level Ethics (E:) course</p> <p>____ 1 Philosophy course if the (E:) Ethics requirement is met outside of the PHI prefix (unless a Philosophy course is transferred in)</p> <p>____ 1 Diversity (D:) or Global (G:) course</p> <p>____ 2 Writing-Enriched (W:) courses</p>
<p><b>SERVICE LEARNING HOUR REQUIREMENTS</b></p> <p>Students must complete 30 hours. Transfer students who have transferred 24-47.9 hours must complete 20 hours. Those who have transferred 48 hours or more must complete 10 hours. See the QUEST Center for details.</p>	