

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

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

CATALOG YEAR: 2020-2021

DATE AA / AS AWARDED _____

NAME _____ ID# _____

BONAVENTURE PROGRAM

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

**D:/G: courses - Global course will be waived if student has spent one semester abroad.
 **D:/G: courses can meet requirements both here and in other areas of the checklist (hours count once)

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

C. PHILOSOPHY / THEOLOGY / ETHICS		(9-12 hours)	
TRS 116 - Western Religious Tradition _____ ®	_____	3	_____
<i>Transfer students with 24 SH may take any theology course for TRS 116</i>			
TRS _____ - _____ _____ ®	_____	3	_____
PHI _____ - _____ _____	_____	3	_____
Ethics/Franciscan Values (E:) _____ ®	_____	3	_____
<i>E: course must be at 300 level or above</i>			
PHI 323 highly recommended			

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

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

F. NATURAL SCIENCES / MATHEMATICS		(4 hours)	
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*
G. BIOCHEMISTRY AND MOLECULAR BIOLOGY		(65 hours)	
BIOLOGY CORE		(16 hours)	
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	_____
CHEMISTRY CORE		(24 hours)	
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	_____
BIOCHEMISTRY CORE		(11 hours)	
CHE 131 - Introduction to Biochemistry _____	_____	3	_____
CHE 321 - Biochemistry _____	_____	4	_____
CHE 421 - Advanced Biochemistry _____	_____	4	_____
RESEARCH CORE		(14 hours)	
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	_____
Minimum GPA of 2.0 required in all BIO/CHE/BMB courses.			

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

I. ADDITIONAL ELECTIVES (Any discipline)		(7 hours)	
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.**

SUMMARY:

UPPER- LEVEL HOURS (300-400)	(>39 hours)
(39 in the total degree program)	
BIO 305 BIO 450 CHE 321 (4) E:PHI 3 _____	
BIO 350 CHE 302 (5) CHE 421 (4) BMB Research (8)	
BIO 405 CHE 303 (5) BMB 497 (1)	

<p>UNDERGRADUATE DEGREE REQUIREMENTS QUANTITATIVE AND RESIDENCY Complete ≥ 120 SH Complete ≥ 39 SH at the 300-400 course level Meet major requirements as set in Academic Catalog Complete ≥ 27 SH at 200-400 level with ≥ 21 SH at QU Complete ≥ 30 SH in residency with ≥ 21 SH in major Transfer students must have ≥ 56 SH at a 4-year institution</p> <p>QUALITATIVE A minimum cumulative GPA of 2.0 in all classes A minimum GPA of 2.0 in major and/or minor courses</p>	<p>TRANSFER STUDENTS WITH A.A. OR A.S. DEGREE All Bonaventure Program courses are fulfilled with the exception of any two 3 SH TRS, a 300 level Ethics (E:) course, a Diversity (D:) course, a Global (G:) course, two writing-enriched (W:) courses, and any other major requirements.</p> <p>SERVICE LEARNING REQUIREMENTS Students must complete 30 hours of service learning, except students who have transferred 24 to 47.9 SH must complete 20 hours, or 48 or more SH must complete 10 hours.</p>
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