

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

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

CATALOG YEAR: 2019-2020

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)

	Grade	Credit	IP/Sem*
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 _____			

	Grade	Credit	IP/Sem*
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			

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

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

	Grade	Credit	IP/Sem*
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.			

	Grade	Credit	IP/Sem*
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	

	Grade	Credit	IP/Sem*
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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