

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

## B.S. MATHEMATICS

(120 HRS)

CATALOG YEAR: 2019-2020

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

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

### BONAVENTURE PROGRAM

A. UNIVERSITY COURSES	Grade	Credit	IP/Sem*
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	Grade	Credit	IP/Sem*
ENG 111 - Composition _____		3	
ENG 112 - Composition & Texts _____		3	
COM 101 - Fundamentals of Public Speaking _____		3	
<b>WRITING-ENRICHED COURSES (≥ 2)</b>			
MAT 260, MAT 497			

C. PHILOSOPHY / THEOLOGY / ETHICS	Grade	Credit	IP/Sem*
TRS 116 - G: Western Religious Tradi® _____		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>			

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

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

F. NATURAL SCIENCES / MATHEMATICS	Grade	Credit	IP/Sem*
Life Sciences (BIO 111 recommended) *		3/4	
PHY 223 or PHY 211 _____		4	
MAT Met by major requirements			

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

G. MAJOR REQUIREMENTS	Grade	Credit	IP/Sem*
<b>(36 hours)</b>			
<b>1 Required Courses (30 hours)</b>			
MAT 242 - Calculus & Analytic Geometry I _____		4	
MAT 243 - Calculus & Analytic Geometry II _____		4	
MAT 244 - Calculus & Analytic Geometry III _____		4	
MAT 260 - W:Mathematical Logic _____		3	
MAT 329 - Introduction to Linear Algebra & Matrix Theory _____		4	
MAT 346 - Differential Equations _____		3	
MAT 450 - Probability Theory _____		3	
MAT 485 - Introduction to Real Analysis _____		3	
MAT 497 - W:Comprehensive Seminar _____		2	

2 Math Electives (200-400 level)	Grade	Credit	IP/Sem*
<b>(6 hours)</b>			
<i>(MAT 440 strongly recommended for students pursuing graduate work)</i>			
_____			
_____			

**Minimum GPA of 2.0 required in major courses.  
 No more than 1 course with a grade below a "C".**

H. REQUIRED SUPPORT & ELECTIVES - OUTSIDE MAJOR	Grade	Credit	IP/Sem*
<b>(100-400 level) (27 hours)</b>			
CSC 150 - Computer Programming I * (FA) _____		3	
CSC 160 - Computer Programming II * (SP) _____		3	
_____			
_____			
_____			
_____			
_____			
_____			

**\*Recommend completing within the first two years.**

I. ADDITIONAL ELECTIVES (Any Discipline)	Grade	Credit	IP/Sem*
<b>(13-14 hours) (Up to 6 hours may be in MAT)</b>			
_____			
_____			
_____			
_____			

### SUMMARY:

<b>UPPER-LEVEL HOURS (300-400)</b>	<b>(39 hours)</b>
<b>(18 in the total baccalaureate program)</b>	
MAT 329 (4) MAT 485	
MAT 346 MAT 497 (2)	
MAT 450 E:3XX + 21 hours	

### 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

#### QUALITATIVE

- A minimum cumulative GPA of 2.0 in all classes
- A minimum GPA of 2.0 in major and/or minor courses

### 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.

### 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.