

# BLUE MOUNTAIN CHRISTIAN UNIVERSITY

## MATHEMATICS, BACHELOR OF SCIENCE

### 120 total hours required

- ☐ 25% of degree hours must be earned at BMCU.
- ☐ Students may transfer a maximum of 70 semester hours of credit from a community or junior college.
- ☐ A minimum of 40 semester hours of credit in 300- and 400- level courses are required for a degree at the University. Twenty-four of these semester hours must be earned at the University.
- ☐ A minimum of 12 semester hours of 300- and 400-level *major* course work is required for a degree of which six must be earned at the University.
- ☐ A minimum of six semester hours of 300- and 400-level *minor* course work is required for a degree of which three must be earned at the University.
- ☐ Proficiencies must be met in Mathematics, English, and the Core Curriculum.

### COLLEGE CORE REQUIREMENTS

#### ENGLISH: 12-14 hours

- ☐ ENG 100 English Composition I **or**  
*ENG 110 English Composition I-Honors*
- ☐ ENG 101 English Composition II **or**  
*ENG 111 English Composition II-Honors*
- ☐ Select one 200-level literature course
- ☐ Select an additional 200-level or above 3-hour ENG course

#### HISTORY: 6 hours

- ☐ Select 2 courses from the following  
HIS 110 Western Civilization I; HIS 111 Western Civilization II;  
HIS 210 Early U.S. History; HIS 211 Modern U.S. History

#### SOCIAL/BEHAVIORAL SCIENCE: 6 hours

- ☐ PSY 100 Intro to Psychology
- ☐ Select 1 additional course with CRJ, ECO, GEO, PSC, or SOC prefix

#### BIBLICAL STUDIES: 6 hours

- ☐ Select 2 courses from the following  
BIB 100 Old Testament I; BIB 101 Old Testament II;  
BIB 200 New Testament I; BIB 201 New Testament II

#### NATURAL SCIENCE: 8 hours

- ☐ Choose two courses + labs with BIO, CHE, or PHY prefix.

#### PHYSICAL SCIENCE: 3-4 hours

- ☐ Select one course with PHY prefix.

#### MATHEMATICS: 3 hours

Met in major requirements

#### FINE ARTS: 3 hours

- ☐ Select one course from the following  
ART 142 Art Appreciation; MUS 142 Music Appreciation;  
STH 142 Theatre Appreciation; STH 210 Oral Communication;  
**or** STH 225 Oral Interpretation

#### PHYSICAL FITNESS: 2 hours\*

*\*All first-time freshmen must take PED 127 or PED 128.  
Athletes and band earn the 2-hour physical fitness requirement in their sport/activity.*

- ☐ PED 127 Fitness for Life—Cardio **or**  
PED 128 Fitness for Life—Resistance
- ☐ Select one additional activity course with PED prefix

#### ☐ ELECTIVE: 3 hours

#### FIRST YEAR SEMINAR: 1 hour

*Required only for First-time Freshmen*

- ☐ FYS 100 First Year Seminar

### REQUIREMENTS IN THE MAJOR: 39 hours required

☐ *Students who lack a strong background in either Algebra or Trigonometry must take MAT 110 College Algebra and/or MAT 111 Trigonometry. These two courses do not count as credit toward major hours.*

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|---|---|
| <input type="checkbox"/> MAT 230 Calculus & Analytical Geometry I   | <input type="checkbox"/> MAT 420 Probability & Statistics   |
| <input type="checkbox"/> MAT 231 Calculus & Analytical Geometry II  | <input type="checkbox"/> MAT 445 Abstract Algebra           |
| <input type="checkbox"/> MAT 305 Linear Algebra                     | <input type="checkbox"/> MAT 470 Advanced Calculus I        |
| <input type="checkbox"/> MAT 315 Differential Equations             | <input type="checkbox"/> MAT 471 Advanced Calculus II       |
| <input type="checkbox"/> MAT 330 Calculus & Analytical Geometry III | <input type="checkbox"/> CSI 200 Programming for Everyone I |
| <input type="checkbox"/> MAT 331 Calculus & Analytical Geometry IV  | <i>(LCMS Rize Online Course)</i>                            |
| <input type="checkbox"/> MAT 340 Foundations of Mathematics         | <input type="checkbox"/> <u>ELECTIVES: 3-13 hours</u>       |
| <input type="checkbox"/> MAT 407 Fundamental Concepts of Geometry   |   |

☐ MINOR REQUIREMENTS: 18-25 HOURS DETERMINED BY CHOSEN MINOR