

# MATHEMATICS - MATHEMATICS EDUCATION CONCENTRATION, B.S.

| Code  | Title                                     | Hours     |
|---|---|-----------|
| MATH 220  | Calculus I                                | 3         |
| MATH 240  | Proof I                                   | 3         |
| MATH 261  | Linear Algebra                            | 3         |
| MATH 270  | Statistics and Data Analysis              | 4         |
| MATH 301  | Math for Middle and High School Educators | 3         |
| MATH 310  | Proof II                                  | 3         |
| MATH 320  | Calculus II                               | 3         |
| MATH 330  | Calculus III                              | 3         |
| MATH 344  | Geometry                                  | 3         |
| MATH 372  | History of Mathematics                    | 3         |
| MATH 430  | Calculus IV                               | 3         |
| PHYS 151  | Introduction to Mechanics                 | 4         |
| Select one course to satisfy Area I:                      |   | 3         |
| MATH 360  | Number Theory                             |           |
| MATH 362  | Abstract Algebra                          |           |
| Select one course to satisfy Area II                      |   | 3         |
| MATH 380  | Differential Equations                    |           |
| MATH 390  | Numerical Analysis                        |           |
| MATH 455  | Complex Variables                         |           |
| MATH 460  | Real Analysis                             |           |
| Select one course in applied math or math modeling        |   | 3         |
| MATH 201  | Math Modeling for Educators               |           |
| MATH 331  | Probability and Statistics I              |           |
| MATH 340  | Graph Theory                              |           |
| MATH 365  | Mathematical Modeling                     |           |
| MATH 444  | Operations Research                       |           |
| MATH 465  | Financial Mathematics                     |           |
| Select one of the following computer programming courses: |   | 3         |
| CSCI 121  | Programming in Java I                     |           |
| CSCI 246  | Programming in C#                         |           |
| other computer programming course                         |   |           |
| One additional mathematics elective, 300 level or above   |   | 3         |
| <b>Total Hours</b>  |   | <b>53</b> |