

**BA MATHEMATICS  
2022-2023**

Name: \_\_\_\_\_ ID#: \_\_\_\_\_ Anticipated Grad Date: \_\_\_\_\_

**MAJOR REQUIREMENTS: 37 semester hours**

|                                                    | <u>Cr Hrs.</u> | <u>Course</u> | <u>Term</u> | <u>Grade</u> |
|----------------------------------------------------|----------------|---------------|-------------|--------------|
| Required courses: (37 semester hours)              |                |               |             |              |
| MAT 141 Probability & Statistics .....             | 3              | _____         | _____       | _____        |
| MAT 200 Discrete Mathematics .....                 | 3              | _____         | _____       | _____        |
| MAT 211 Calculus I .....                           | 4              | _____         | _____       | _____        |
| MAT 221 Calculus II .....                          | 4              | _____         | _____       | _____        |
| MAT 231 Calculus III .....                         | 4              | _____         | _____       | _____        |
| MAT 251 Introduction to Scientific Computing ..... | 3              | _____         | _____       | _____        |
| MAT 341 Linear Algebra .....                       | 3              | _____         | _____       | _____        |
| MAT 351 Differential Equations .....               | 3              | _____         | _____       | _____        |
| MAT 361 Modern Algebra .....                       | 3              | _____         | _____       | _____        |
| MAT 411 Real Analysis.....                         | 3              | _____         | _____       | _____        |
| MAT 449 Senior Project Preparation.....            | 1              | _____         | _____       | _____        |
| MAT 450 Mathematics Senior Project .....           | 3              | _____         | _____       | _____        |

**Restricted Electives: (9 semester hours):** Select from any MAT course numbered above 250. PHY 204 may also be counted as a restricted elective. Students seeking teacher licensure should take the recommended restricted electives under Teacher Licensure.

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| ..... | _____ | _____ | _____ | _____ |
| ..... | _____ | _____ | _____ | _____ |
| ..... | _____ | _____ | _____ | _____ |

**TOTAL HOURS REQUIRED      MINIMUM 46 SEMESTER HOURS**

**Teacher Licensure in Mathematics (Grades 9-12)** Students wishing to earn teacher licensure in Mathematics must major in Mathematics, taking the following specific courses to meet required competency areas.

*Required courses: (9 semester hours)*

|                                      |   |       |       |       |
|--------------------------------------|---|-------|-------|-------|
| MAT 410 Euclidian Geometry.....      | 3 | _____ | _____ | _____ |
| MAT 412 Complex Variables .....      | 3 | _____ | _____ | _____ |
| MAT above 250 <b>OR</b> PHY 204..... | 3 | _____ | _____ | _____ |

*Students must also complete the professional studies requirements listed in the Teacher Education Licensure section..*

**Professional Studies & Licensure Requirement (40 Hours)**

Professional Studies:

|                                                            |    |       |       |       |
|------------------------------------------------------------|----|-------|-------|-------|
| EDU 205 21st Century Teacher & Learner.....                | 3  | _____ | _____ | _____ |
| EDU 303 Diverse and Exceptional Learners .....             | 3  | _____ | _____ | _____ |
| EDU 304 Teaching in the Digital Age .....                  | 3  | _____ | _____ | _____ |
| EDU 305 Facilitation of Learning .....                     | 3  | _____ | _____ | _____ |
| EDU 340 Secondary & K-12 Methods .....                     | 3  | _____ | _____ | _____ |
| EDU 401 Student Teaching Seminar .....                     | 2  | _____ | _____ | _____ |
| EDU 402 Student Teaching Secondary.....                    | 14 | _____ | _____ | _____ |
| PSY 101 General Psychology .....                           | 3  | _____ | _____ | _____ |
| PSY 230 Life-Span Development.....                         | 3  | _____ | _____ | _____ |
| OR EDU 220 Educational Psychology.....                     | 3  | _____ | _____ | _____ |
| WLE 220 Theory and Practice of Experiential Education..... | 3  | _____ | _____ | _____ |

\* For transfer courses indicate grade of T and in course column indicate transfer course prefix and number. If a course substitution, attach course substitution form.

**TOTAL HOURS REQUIRED      MINIMUM 49 SEMESTER HOURS**

**GRADUATION REQUIREMENTS:**

- Minimum 124 semester hours
- Minimum cumulative GPA of at least 2.0 in all coursework at Brevard and minimum cumulative GPA of at least 2.0 in all courses required for major. Some majors may have more stringent requirements (see major requirements in catalog)
- Complete a minimum of 32 semester hours at Brevard and complete 50% of major requirements at Brevard.
- Errors contained on the checklist do not release the student from meeting graduation

