

# BELHAVEN UNIVERSITY

**CHECKLIST FOR GRADUATION REQUIREMENTS IN MATHEMATICS: CHEMICAL ENGINEERING**  
**BACHELOR OF SCIENCE - FRESHMAN (EVEN YEAR)**  
 Minimum of 124 credit hours required for graduation

NAME \_\_\_\_\_

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

|                    |           |
|--------------------|-----------|
| General Education  | 34 hours  |
| Major              | 68 hours  |
| UM/MSU Engineering | 22 hours  |
| Total              | 124 hours |

**FRESHMAN YEAR (FALL):**

|                                     |           |
|-------------------------------------|-----------|
| BU 101 Belhaven Basics              | (1) _____ |
| BIB 220 Exploring the Old Testament | (3) _____ |
| ENG 101 Freshman English I          | (3) _____ |
| MAT 185 Overview of Mathematics     | (1) _____ |
| MAT 207 Calculus I*                 | (3) _____ |
| CHE 111 General Chemistry I*        | (3) _____ |
| CHE 113 General Chemistry I Lab*    | (1) _____ |
| PHY 119 Introduction to Engineering | (3) _____ |

**Total: 18**

**FRESHMAN YEAR (SPRING):**

|                                     |           |
|-------------------------------------|-----------|
| BIB 221 Exploring the New Testament | (3) _____ |
| ENG 102 Freshman English II*        | (3) _____ |
| MAT 208 Calculus II*                | (3) _____ |
| MAT 303 Discrete Mathematics*       | (3) _____ |
| CHE 112 General Chemistry II*       | (3) _____ |
| CHE 114 General Chemistry II Lab*   | (1) _____ |

**Total: 16**

**SOPHOMORE YEAR (FALL):**

|                                    |           |
|------------------------------------|-----------|
| CHE 215 Organic Chemistry I*       | (3) _____ |
| CHE 217 Organic Chemistry I Lab*   | (1) _____ |
| MAT 209 Calculus III*              | (3) _____ |
| MAT 311 Linear Algebra*            | (3) _____ |
| MAT 315 Proof Exposition*          | (1) _____ |
| Math Elective (300/400 Level)*     | (3) _____ |
| PHY 251 Engineering Physics I*     | (3) _____ |
| PHY 253 Engineering Physics I Lab* | (1) _____ |

**Total: 18**

**SOPHOMORE YEAR (SPRING):**

|                                     |           |
|-------------------------------------|-----------|
| CHE 216 Organic Chemistry II*       | (3) _____ |
| CHE 218 Organic Chemistry II Lab*   | (1) _____ |
| MAT 210 Calculus IV*                | (3) _____ |
| MAT 304 Differential Equations*     | (3) _____ |
| PHY 252 Engineering Physics II*     | (3) _____ |
| PHY 254 Engineering Physics II Lab* | (1) _____ |
| SCI 125 or 126 Gen Ed Science       | (4) _____ |

**Total: 18**

**JUNIOR YEAR (FALL):**

|                                    |           |
|------------------------------------|-----------|
| ENG 225 Ancient Literature*        | (3) _____ |
| HIS 225 Ancient History*           | (3) _____ |
| HUM 225 Biblical Themes I*         | (1) _____ |
| MAT 491 Topics of Math Research I* | (1) _____ |
| Math Elective (300/400 Level)*     | (3) _____ |
| WVC 401 Kingdom Life*              | (3) _____ |

**Total: 14**

**JUNIOR YEAR (SPRING):**

|                                                    |           |
|----------------------------------------------------|-----------|
| ENG 226 Enlightenment to 21 <sup>st</sup> Century* | (3) _____ |
| HIS 226 Enlightenment to 21 <sup>st</sup> Century* | (3) _____ |
| HUM 226 Biblical Themes II*                        | (1) _____ |
| CSC 251 Programming in MATLAB                      | (3) _____ |
| MAT 410 Advanced Calculus*                         | (3) _____ |
| MAT 492 Topics of Math Research II*                | (2) _____ |
| PHY 321 Engineering Thermodynamics                 | (3) _____ |

**Total: 18**

**REMAINING COURSES TO BE COMPLETED AT UNIVERSITY OF MISSISSIPPI OR MISSISSIPPI STATE UNIVERSITY**

**\*Course has prerequisites; Please see catalogue for details**

**CHAPEL IS REQUIRED FOR ALL STUDENTS FOR EACH SEMESTER THEY ATTEND BELHAVEN**

For assistance reading this document contact the Registrar's Office.

Revised 3/27/2025