# OUACHITA BAPTIST UNIVERSITY

**Degree: B.S.**  **Major: Applied Mathematics**  **2021 – 2022**

| COMMON CORE<br>All students take the following courses. | | Credit Hours |
|---|---|---|
| CORE 1002 | OBU Connections† | 2 |
| CORE 1023 | The Contemporary World | 3 |
| CORE 1043 | Composition I | 3 |
| CORE 1113 | Survey of the Bible | 3 |
| CORE 1123 | Interpreting the Bible | 3 |
| CORE 2233 | World Literature | 3 |
| CORE 2243 | History of World Societies | 3 |
| CORE 2334 | Scientific Inquiry[1] | 4 |
| CORE 3023 | Scientific Connections[2] | 3 |
| [1] Prerequisite: Completion of the Analytic & Quantitative Reasoning Requirement.<br>[2] Prerequisite: CORE 2334 Scientific Inquiry | | |
| **FLEXIBLE CORE**<br>Choose as indicated from each of the seven categories. | | |
| **Analytic & Quantitative Reasoning** (Satisfied by major) | | 0 |
| MATH 1003 | College Algebra | |
| MATH 1033 | Mathematics for the Liberal Arts | |
| PHIL 1003 | Introduction to Philosophy | |
| PHIL 1023 | Logic | |
| * Students with ACT math score of 22 or less (SAT 530 or less) must choose one of the MATH courses. | | |
| **Applied Skills** (One course) | | 3 |
| COMM 1003 | Fundamentals of Public Speaking | |
| FINN 2003 | Personal Finance | |
| **Artistic Engagement** (One course**) | | 3 |
| FINA 3113 | Fine Arts: Art | |
| FINA 3123 | Fine Arts: Music | |
| FINA 3133 | Fine Arts: Theatre | |
| ** May be satisfied by participation in the European Study Program. | | |
| **Civic Engagement in America** (One course) | | 3 |
| PSCI 2013 | American National Government | |
| HIST 2003 | United States History to 1877 | |
| HIST 2013 | United States History Since 1877 | |
| **Intercultural Appreciation and Communication**† (Two courses) | | 6 |
| CHIN, FREN, GERM,GREK, HEBR, ITAL, LATN, JAPN, RUSS, SPAN | Two semesters of credit in the same foreign language. May also be satisfied by approved language-intensive study-abroad experience. | |
| **Physical Well-being** (One course) | | 2-3 |
| KIN 1002 | Concepts of Wellness | |
| KIN 2073 | Health and Safety | |
| LST 2013 | Outdoor Leisure Pursuits | |
| **EXPERIENTIAL CORE** | | |
| CHAP 1000 | Chapel (7 credits required) | 0 |
| FINA 4011 | Arts Engagement Series | 1 |
| | **Total** | **45-46** |

† For more detail, refer to the School of Interdisciplinary Studies section of the catalog.

| GENERAL GRADUATION REQUIREMENTS |
|---|
| 7 Chapel Credits, or 1 per semester for transfer students |
| 2.000 minimum GPA (overall, OBU, major, and minor) |
| At least 24 hours with grades of C or higher in the major |
| Jr./Sr. Hours: At least 39 total, 12 in the major and 6 in the minor |
| At least 60 hours taken at OBU, including 30 of last 36 hours. |

| MAJOR | | Credit Hours |
|---|---|---|
| MATH 1103 | Introduction to Cryptology | 3 |
| MATH 2014 | Calculus I | 4 |
| MATH 2024 | Calculus II | 4 |
| MATH 2343 | Fundamentals of Mathematical Proof | 3 |
| MATH 3034 | Calculus III | 4 |
| MATH 3053 | Abstract Algebra I | 3 |
| MATH 3113 | Applied Linear Algebra | 3 |
| MATH 3043<br>MATH 3063 | Differential Equations  _or_<br>Probability and Statistics | 3 |
| MATH ¾__3 | Jr./sr.-level MATH elective | 3 |
| MATH ¾__3 | Jr./sr.-level MATH elective | 3 |
| MATH 4463 | Mathematical Scholarship | 3 |
| | **Total** | **36** |

| ADDITIONAL AREA REQUIREMENTS | | |
|---|---|---|
| CSCI 1044 | Programming I | 4 |
| CHEM 1004 _or_<br>PHYS 2054 | General Chemistry I<br>University Physics I | 4 |
| | **Total** | **8** |

| **2nd Major:** Minimum 24 hours. (See specific requirements.) | **24+** |
|---|---|

| **ELECTIVES**: Choose courses to total 120 hours, including 39 Jr/Sr-level hours. | **6-7** |
|---|---|

| CREDIT HOUR SUMMARY | |
|---|---|
| CORE | 45-46 |
| MAJOR | 36 |
| ADDITIONAL AREA REQUIREMENTS | 8 |
| 2nd Major (minimum) | 24 |
| ELECTIVES | 6-7 |
| **Total** | **120** |