ORAL ROBERTS UNIVERSITY
DEGREE: **Bachelor of Science**
MAJOR: **Mathematics (MAT)**

**DEGREE PLAN SHEET 2021-2022**
**Mathematics Major**
**Degree in Three**
**Computing and Mathematics Department**
**College of Science and Engineering**

| | |
|---|---|
| **TOTAL HOURS REQUIRED** | **120** |
| **Hours in general education** | **55** |
| **Hours in major** | **30** |
| **Hours in cognate** | **9** |
| **Hours in minor** | **18** |
| **Hours in electives** | **8** |

Name _____
ID _____ Date _____
Telephone _____ Email _____
Advisor _____ Minor _____

| SEMESTER TAKEN | COURSE CODE | | COURSE TITLE | CREDIT HOURS | SEMESTER TAKEN | COURSE CODE | | COURSE TITLE | CREDIT HOURS |
|---|---|---|---|---|---|---|---|---|---|
| | | | **Semester 1** | | | | | **Semester 2** | |
| | CSC | 100 | Computing & Mathematics Seminar | 0.5 | | CSC | 100 | Computing & Mathematics Seminar | 0.5 |
| | CSC | 111 | Introduction to Computing | 3 | | CSC | 206 | Intermediate Programming | 3 |
| | MAT | 201 | Calculus I | 4 | | MAT | 202 | Calculus II | 4 |
| | COMP | 102 | Composition II | 3 | | HPE | 155 | Health Fitness | 1 |
| | GEN | 150 | Introduction to Whole Person Education | 1 | | THE | 105 | Spirit Empowered Leadership | 2 |
| | PRFH | 070 | Swimming Proficiency | 0 | | | | Laboratory Science Elective | 4 |
| | THE | 104 | Spirit Empowered Living | 2 | | | | Minor Elective | 3 |
| | | | General Elective | 2 | | | | | 17.5 |
| | | | | 15.5 | | | | | |
| | | | **SUMMER 1** | | | | | | |
| | | | Social Science Elective | 3 | Session #1 | | | | |
| | | | Scaffolded Interdisciplinary Elective | 3 | Session #2 | | | | |
| | | | Minor Elective | 3 | Session #3 | | | | |
| | | | Minor Elective | 3 | Session #4 | | | | |
| | | | | 12 | | | | | |
| | | | **Semester 3** | | | | | **Semester 4** | |
| | CSC | 100 | Computing & Mathematics Seminar | 0.5 | | CSC | 100 | Computing & Mathematics Seminar | 0.5 |
| | MAT | 207 | Discrete Mathematics | 3 | | MAT | 211 | Differential Equations | 3 |
| | MAT | 321 | Calculus III | 4 | | MAT | 498 | Senior Paper/Project Preparation | 1 |
| | BLIT | 111 | Christian Life I | 2 | | BLIT | 122 | Christian Life II | 2 |
| | COM | 101 | Oral Communication | 3 | | COMP | 303 | Critical Reading & Writing | 3 |
| | HPE | 026 | Beginning Swimming OR | 0.5 | | HPE | | HPE Activity | 0.5 |
| | HPE | | HPE Activity | | | | | Scaffolded Interdisciplinary Elective | 3 |
| | | | Science Elective | 3 | | | | General Elective | 3 |
| | | | | 16 | | | | | 16 |
| | | | **SUMMER 2** | | | | | | |
| | | | Scaffolded Interdisciplinary Elective | 3 | Session #1 | | | | |
| | | | Minor Elective | 3 | Session #2 | | | | |
| | | | Minor Elective | 3 | Session #3 | | | | |
| | | | General Elective | 3 | Session #4 | | | | |
| | | | | 12 | | | | | |
| | | | **Semester 5** | | | | | **Semester 6** | |
| | CSC | 100 | Computing & Mathematics Seminar | 0.5 | | CSC | 100 | Computing & Mathematics Seminar | 0.5 |
| | MAT | 325 | Probability and Statistics | 3 | | MAT | 312 | Linear and Matrix Algebra | 3 |
| | MAT | | Mathematics Elective (300+ level) | 3 | | MAT | 401/421 | Higher Algebra or Advanced Calculus | 3 |
| | MAT | 499 | Senior Paper/Project | 2 | | HPE | | HPE Activity | 0.5 |
| | HPE | 400 | Lifelong Wellness | 0.5 | | | | Civics Elective | 3 |
| | | 101 | Foreign Language Elective | 3 | | | | Humanities Elective | 3 |
| | | | Humanities Elective | 3 | | | | Minor Elective | 3 |
| | | | | 15 | | | | | 16 |

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**Courses above calculus are offered according to the following schedule (S - Spring, F - Fall, * Even years only, ** Odd years only):**

Differential Equations (MAT 211)$^{S}$
Linear and Matrix Algebra (MAT 312)$^{S}$
College Geometry (MAT 313)$^{F**}$
Elementary Number Theory (MAT 318)$^{F*}$
Probability and Statistics (MAT 325)F
Discrete Mathematics (MAT 207)$^{F}$
Senior Paper/Project Prep. (MAT 498)$^{S}$
Higher Algebra (MAT 401)$^{S*}$
Advanced Calculus I (MAT 421)$^{S**}$
Senior Paper/Project (MAT 499)$^{F}$

**2021-2022**
**B.S. in Mathematics (MAT)**
**Degree in Three**

| **General Education** | **Credit Hours** |
|---|---|
| Introduction to Whole Person Education (GEN 150) | 1 |
| English (COMP 102, 303) | 6 |
| Foreign Language (Choose from 101, 102, 203, or 204 classes in Arabic, Chinese, French, Hebrew, or Spanish.) | 3 |
| Oral Communication (COM 101) | 3 |
| Biblical Literature (BLIT 111/BIB 222 and BLIT 122/BIB 261) | 4 |
| Theology (THE 104, 105) | 4 |
| Laboratory Science (lecture and lab)(CHE 104, 111; BIO 111; PHY 111) (PHY 111/111L STRONGLY recommended.) | 4 |
| Science Elective (CSC 201 or second lab science) | 3 |
| Mathematics (MAT 325) | 3 |
| Civics (GOV 101, GOV 103, HIS 110, HIS 111, or HIS 200) | 3 |
| Humanities (HUM 201*, 202*, 203*, 204*, 333, 342; ART 103, 104, 307; DANP 125; DRAM 210, 215, 275, 304; MUS 130) *At least one course must be chosen from courses marked with asterisks. | 6 |
| Social Science Elective | 3 |
| Scaffolded Interdisciplinary Courses (GEN 301, 304, 307, 310, 314, 318, 322, 332, 333, 343, 355, 356, 365, 375, 377, 380, 401**, 415**, 420**, 430**, 434**) **At least one course must be chosen from courses marked with two asterisks. | 9 |
| Health and Physical Education (HPE 155, HPE 400, HPE 026 or swimming proficiency, and one activity course per full-time semester of enrollment. Students may complete the same activity course twice towards fulfulling their HPE requirements. Each HPE course is 1 credit hour, but students can petition to it for .5 credits. Course work remains the same. | 3 |
| **General Education Total** | **55** |

| **Major** | | |
|---|---|---|
| MAT 201 | Calculus I | 4 |
| MAT 202 | Calculus II | 4 |
| MAT 207 | Discrete Mathematics | 3 |
| MAT 211 | Differential Equations | 3 |
| MAT 312 | Linear and Matrix Algebra | 3 |
| MAT 321 | Calculus III | 4 |
| MAT 300+ | Mathematics Elective | 3 |
| MAT 498 | Senior Paper/Project Preparation | 1 |
| MAT 499 | Senior Paper/Project | 2 |
| Choice of one of the following two courses: | | |
| MAT 401 | Higher Algebra | 3 |
| MAT 421 | Advanced Calculus | |
| | **Major Total** | **30** |

| **Cognate** | | |
|---|---|---|
| CSC 100 | Computing & Mathematics Seminar | 3 |
| CSC 111 | Introduction to Computing | 3 |
| CSC 206 | Intermediate Programming | 3 |
| | **Cognate Total** | **9** |
| | **Minor Total** | **18** |
| | **Electives Total** | **8** |
| | **Degree Total** | **120** |