

# COLLEGE OF NATURAL SCIENCES & MATHEMATICS

## Bachelor of Science, Mathematics

### Four-Year Academic Map 2020-2021

| YEAR 1         | Semester 1 Fall |                                                                          |    | Semester 2 Spring |                                                        |   | Total |    |
|----------------|-----------------|--------------------------------------------------------------------------|----|-------------------|--------------------------------------------------------|---|-------|----|
|                | ENGL 1303       | First Year Writing I                                                     | 3  | ENGL 1304         | First Year Writing II                                  | 3 |       |    |
|                | MATH 1431       | Calculus I                                                               | 4  | MATH 1432         | Calculus II                                            | 4 |       |    |
|                | HIST 1377       | The United States to 1877                                                | 3  | HIST 1378         | The United States since 1877                           | 3 |       |    |
|                | Elective        | Approved General Elective                                                | 1  | Elective          | Approved General Elective                              | 1 |       |    |
|                |                 | Natural Science with Lab (Must be approved for majors in the discipline) | 4  |                   | Natural Science with Lab (Must be approved for majors) | 4 |       |    |
| Semester Hours |                 |                                                                          | 15 | Semester Hours    |                                                        |   | 15    | 30 |

| YEAR 2         | Semester 1 Fall |                                                                 |    | Semester 2 Spring |                                                                 |   | Total |    |
|----------------|-----------------|-----------------------------------------------------------------|----|-------------------|-----------------------------------------------------------------|---|-------|----|
|                | MATH 2331       | Linear Algebra                                                  | 3  | MATH 3325         | Transition to Advanced Mathematics                              | 3 |       |    |
|                | MATH 2131       | Linear Algebra Lab                                              | 1  |                   |                                                                 |   |       |    |
|                | MATH 2433       | Calculus III                                                    | 4  | MATH 3331         | Differential Equations                                          | 3 |       |    |
|                | POLS 1336       | US & Texas Constitutions and Politics                           | 3  | POLS 1337         | US Govt: Congress/Pres/Courts                                   | 3 |       |    |
|                | CORE            | Social & Behavioral Sciences                                    | 3  | CORE              | Creative Arts                                                   | 3 |       |    |
|                |                 | Natural Science (must be approved for majors in the discipline) | 3  |                   | Natural Science (must be approved for majors in the discipline) | 3 |       |    |
| Semester Hours |                 |                                                                 | 17 | Semester Hours    |                                                                 |   | 15    | 32 |

| YEAR 3         | Semester 1 Fall |                                |          | Semester 2 Spring  |                                            |   | Total |    |
|----------------|-----------------|--------------------------------|----------|--------------------|--------------------------------------------|---|-------|----|
|                | MATH 3330       | Abstract Algebra               | 3        | MATH 3334          | Advanced Multivariable Calc <b>OR</b>      |   |       |    |
|                | MATH 3333       | Intermediate Analysis          | 3        | MATH 3335          | Vector Analysis <b>OR</b>                  |   |       |    |
|                | CORE            | Language, Philosophy & Culture | 3        | MATH 3364          | Introduction to Complex Analysis <b>OR</b> | 3 |       |    |
|                | Elective        | Approved Electives             | 5        | MATH 3363          | Intro to Partial Differential Equations    | 3 |       |    |
|                |                 |                                |          | MATH               | Advanced Math Elective                     |   |       |    |
|                |                 |                                |          | CORE               | Writing in the Disciplines                 | 3 |       |    |
|                |                 |                                | Elective | Approved Electives | 6                                          |   |       |    |
| Semester Hours |                 |                                | 14       | Semester Hours     |                                            |   | 15    | 29 |

| YEAR 4         | Semester 1 Fall |                                     |    | Semester 2 Spring |                                     |   | Total |    |
|----------------|-----------------|-------------------------------------|----|-------------------|-------------------------------------|---|-------|----|
|                | MATH            | 4000-level Math Elective            | 3  | MATH 4389         | Survey of Undergraduate Mathematics | 3 |       |    |
|                | MATH            | 4000-level Math for Senior Sequence | 3  | MATH              | 4000-level Math for Senior Sequence | 3 |       |    |
|                | Elective        | Approved Electives                  | 6  | Elective          | Approved Electives                  | 5 |       |    |
|                |                 | NSM Capstone                        | 3  |                   | NSM Capstone                        | 3 |       |    |
| Semester Hours |                 |                                     | 15 | Semester Hours    |                                     |   | 14    | 29 |
|                |                 |                                     |    |                   |                                     |   | 120   |    |

\*State of Texas Core Curriculum

Students should meet with their academic advisor to formulate their own plan.