

MAT Program Coursework– General Science 5-12

Program Core Prerequisites (Grade of C or better required) for Admission to the MAT:

- ENGL 101 Writing and Rhetoric I
- ENGL 102 Writing and Rhetoric II
- COMM 202 Fundamentals of Speech

Specialization Course Requirements:

These courses may be taken at the undergraduate or graduate level at any accredited college or university with a grade of C or better and a content GPA of at least 2.5. At least half of these courses are required for admission to the MAT program (With an additional content knowledge test, admission can take place when 25% of the courses are completed.). All coursework not completed prior to admission must be completed prior to student teaching.

- CHEM 207/207L (4) General Chemistry I & Lab
- CHEM 209/209L (4) General Chemistry II & Lab
- Introductory Biology with Labs (Pick 1 Set)
 - BIOL 103 and 104 General Biology I and II (8)
 - BIOL 211 and 212 Fundamentals of Biology I and II (8)
 - ENV5 201/L and 202/L Foundations in Environmental Science I and II with Labs (8)
- One Year Physics with Labs (Pick 1 Set)
 - PHYS 201/L and PHYS 202/L College Physics I and II with Labs (8)
 - PHYS 221/L and PHYS 222/L General Physics I and II with Labs (8)
 - Two of these three options
 - GSCI 103 General Physical Science (4)
 - PHYS 302 Physical Computing (4)
 - PHYS 301 Energy (4)
- Earth and Space Science (Pick 1 Geology Option)*
 - GSCI 301 Physical Geology (4)
 - GSCI 103 and 104 General Physical Science I and II (8)***
- Earth and Space Science (Pick 1 Astronomy Option)*
 - GSCI 301 General Astronomy (4)
 - GSCI 101 and 102 Astronomy I and II (8)
 - GSCI 104 General Physical Science II (4)**
- Earth and Space Science (Pick 1 Meteorology Option)*
 - GSCI 303 Meteorology (4)
 - ENV5 202 Fundamentals in Environmental Science II (3)
 - GSCI 104 General Physical Science II (4)**

Earth and Space Science Notes:

*At least 1 Earth and Space Science Course must be at the 3XX level

**GSCI 104 can fulfill requirements in more than 1 Earth and Space Science topic

***GSCI 103 can double count with Physics content requirements.

- Ecology (Pick 1)
 - ENVS 401 Conservation Ecology (4)
 - BIOL 303 General Ecology (4)
- Algebra-Based Math (Pick 1)
 - Math 105 College Algebra (3)
 - Math 108 Pre-Calculus (4)
 - MATH 205 (4) Calculus with Applications
 - Math 207 Calculus 1 (4)
 - MATH 314 (4) Statistics

Master of Teaching Course Requirements:

A grade of C or better is required in each of the following courses with an overall GPA of 3.0.

- EDUC 500 (3) Advancing the Use of Technology in the Classroom
- EDUC 503 (3) Literacy in the Content Area
- EDUC 527 (3) Inclusion Seminar
- EDUC 560 (3) Survey of Exceptionalities
- EDUC 581 (3) Social Foundations of American Education
- EDUC 582 (3) Learning in Contexts
- EDUC 583 (3) Planning, Conducting and Assessing Instruction
- EDUC 584 (3) Classroom Ecology
- EDUC 573 (3) Special Methods of Teaching Science
- Graduate Electives (6)
- EDUC 601 (6) Student Teaching

ALL coursework AND Praxis Content Tests are required prior to student teaching. A Teacher Performance Assessment is required during student teaching.