

## **MAT Program Coursework– Chemistry 9-12**

### **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
- CHEM 315/315L (4) Organic Chemistry I and Lab
- CHEM 316/316L (4) Organic Chemistry II and Lab
- CHEM 329 (3) Biochemistry
- Environmental Chemistry (Pick 1 Option)
  - CHEM 333/L Environmental Chemistry (4)
  - CHEM 301 Inorganic Chemistry with Lab (4)
  - ENVS 202/L Foundations in Environmental Science II (4)
  - GSCI 104 General Physical Science (4)
  - GSCI 301 Physical Geology (4)
  - GSCI 302 General Astronomy (4)
- Physics with Labs (Pick 1 Option)
  - PHYS 201/L College Physics I with Lab (4)
  - PHYS 221/L General Physics I with Lab (40)
- Physics with Labs (Pick 1 Option)
  - PHYS 301 Energy (4)
  - PHYS 202/202L
  - College Physics II and Lab (4)
  - PHYS 222/L General Physics II (4)
- Biology or Life Sciences with Lab (Pick 1 Set)
  - BIOL 103 and 104 General Biology I and II (8)
  - BIOL 211 and 212 Fundamentals of Biology I and II (8)
  - ENVS 201/L and 202/L Foundations in Environmental Science I and II with Labs (8)
- Calculus (Pick 1 Option)
  - MATH 205 Calculus with Applications (4)
  - Math 207 Calculus 1 (4)

**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 585 (3) Content Pedagogy
- 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.