**MAT Program Coursework– Biology 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.

* BIOL 211 (4) Fundamentals of Biology I: Molecular & Cellular Function (4)
* BIOL 212 (4) Fundamentals of Biology II: Diversity of Life (4)
* CHEM 207/207L (4) General Chemistry I & Lab
* CHEM 209/209L (4) General Chemistry II & Lab
* BIOL 303 (4) General Ecology
* BIOL 305 (4) Cell Biology
* BIOL 344 (4) Genetics & Evolution
* 1 Physics/Physical Science Course with Lab (Pick 1)
	+ PHYS 201/201L (4) College Physics I and Lab
	+ PHYS 221/221L (4) General Physics 1
	+ PHYS 301 Energy (4)
	+ PHYS 302 Physical Computing (4)
	+ GSCI General Physical Science (4)
* 1 Algebra-based Math Class (Pick 1)
	+ Math 105 College Algebra (3)
	+ Math 108 Precalculus (4)
	+ MATH 205 (4) Calculus with Applications
	+ Math 207 Calculus I (4)
	+ MATH 314 (4) Statistics
* One Information Processing Course
	+ Approved course that covers the brain, behavior, or nervous system such as Human Anatomy and Physiology, Animal Physiology, Animal Behavior, Biopsychology, or Learning and Memory

**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.