

**MASTER OF ARTS IN EDUCATION**  
**Biology and Unified Science-Biology endorsement, grades 9-12**  
(Admission to the MAE Program is a prerequisite for all of the following ED courses and SCED 608G)

<b>The following courses must be completed prior to internship:</b>	<b>Credit</b>	<b>Grade</b>	<b>Sem.</b>
ED 601G Measurement & Evaluation (Prerequisite: STAT 190 or equivalent)	3	_____	_____
ED 603G Learning Strategies for Print Discourse (Prerequisite: Minimum grade of C in ED 393)	2	_____	_____
S CED 608G Management of Instruction - <i>offered spring semester only</i> (Prerequisites: Minimum grade of C in ED 389 and ED 393; Minimum grade of C or concurrent enrollment in ED 593)	3	_____	_____
<b>The following courses are required during internship:</b>			
ED 607G Applied Educational Psychology	3	_____	_____
ED 609G Teaching Internship in Science (Prerequisites: ED 601G, ED 603G, SCED 608G and clearance on criminal record check and child abuse/neglect screening)	8	_____	_____
<b>The following courses are also required:</b>			
ED 605G Psychology of Exceptional Children	3	_____	_____
BIOL 640G Philosophy of Science Research	3	_____	_____
BIOL 503G Evolutionary Biology (if not taken as an undergraduate course)	3	_____	_____
ED 681G Research Study in Education	1	_____	_____

*Students are required to be continuously enrolled in graduate-level or certification courses (as stated on the Individual Plan of Study) at Truman after they complete their internship until and including the semester in which their research and portfolio receive final approval. Final approval occurs during the semester when the completed and signed Report of the Examining Committee form and the Digital Portfolio Approval form have been received in the Graduate Office before the published deadlines for that semester. This enrollment includes spring, fall and the June summer session. Students may meet this requirement by repeatedly enrolling in ED 681G for 1 hour of credit.*

Select six hours from the courses listed below if BIOL 503G is taken as a graduate course;  
select nine hours if BIOL 503 was taken as an undergraduate course:

BIOL 501G Limnology	4	_____	_____
BIOL 502G Biometry	3	_____	_____
BIOL 504G Herpetology	4	_____	_____
BIOL 505G Cytology	4	_____	_____
BIOL 506G Ornithology	3	_____	_____
BIOL 508G Advanced Plant Taxonomy	3	_____	_____
BIOL 509G Comparative Plant Morphology	3	_____	_____
BIOL 510G Ecology	3	_____	_____
BIOL 511G Comparative Animal Physiology	4	_____	_____
BIOL 512G Cellular Physiology	4	_____	_____
BIOL 513G Microbial Genetics	4	_____	_____
BIOL 515G Ethology	3	_____	_____
BIOL 516G Ichthyology	4	_____	_____
BIOL 517G Mammology	4	_____	_____
BIOL 518G Advanced Topics (TOPIC)	1-5	_____	_____
BIOL 519G Directed Field Studies	1-5	_____	_____
BIOL 520G Immunology	4	_____	_____
BIOL 603G Fundamental Processes in Biology I	2	_____	_____
BIOL 604G Fundamental Processes in Biology II	3	_____	_____
BIOL 606G Graduate Seminar I	1	_____	_____
BIOL 607G Graduate Seminar II	1	_____	_____
BIOL 610G Advanced Plant Physiology	3	_____	_____
BIOL 611G Advanced Plant Anatomy	2	_____	_____
BIOL 615G Endocrinology	3	_____	_____
BIOL 618G Advanced Topics (TOPIC)	1-4	_____	_____
BIOL 644G Readings in Biology I	2	_____	_____
BIOL 645G Readings in Biology II	2	_____	_____
BIOL 649G Biology Research	1-6	_____	_____

**Minimum Hours Required for Degree: 35**

MAE candidates are required to take the Subject Area Praxis Series Exam for their specific area of study prior to graduating from Truman. Each student must score at or above the median score on their respective Subject Area exam in order to be recommended for teacher certification and approved for graduation with the MAE Degree. The median score is a norm-referenced score that may vary slightly from year to year; however, students will be required to score at or above the median that is in effect according to ETS' records for the date the test was taken. If the test for a specific area of study changes and score reports are not produced at the time the test is given, the median score reported at the time the score report is produced will be required. The Praxis is generally taken the semester when enrolled in SCED 608G Management of Instruction.

The Praxis test required for the MAE programs in Biology and Unified Science: Biology is *Biology: Content Knowledge*.