

**Secondary Education-Comprehensive Science**  
**Master of Arts in Teaching (MAT) Degree Requirements**  
**39 Graduate Credit Hours**

**PHASE I. Graduate Certificate in Teaching for Secondary Science**  
 Effective Fall 2010

**Requirements (18 hours)**

*All courses in PHASE I and acceptance to the MAT program must be completed before beginning PHASE 2*

	Semester	Grade
<b>MDSK 6162:</b> Planning for K-12 Instruction (3)	_____	_____
<b>SECD 5140:</b> The Secondary School Experience (3)	_____	_____
<b>READ 5255:</b> Integrating Reading and Writing in the Content Areas (3)	_____	_____
<b>EDUC 5100:</b> Diverse Learners (3)	_____	_____
<b>MDSK 5251:</b> Teaching Science to Middle and Secondary School Learners (3)	_____	_____
<b><u>Final Course in this phase:</u></b>		
<b>MDSK 6470:</b> Graduate Student Teaching and Internship (formerly MDSK 6161) (3) *This final course is a full time internship requiring employment as a science teacher in an approved high school or a non-paid placement with a licensed science teacher in a public high school. It requires application and approval during the semester prior to the internship.	_____	_____
<b>Plus any deficiency courses in science required for Standard Professional 1 Licensure: See background requirements below.</b>		
<i>Praxis II Specialty Area exams passed-applies to lateral entry teachers _____ (date)</i>		
<i>Application for Standard Professional I license filed in TEAL Office _____ (date)</i>		

**PHASE 2: Completion of the MAT Degree**

**Requirements (21 hrs)**

**Prerequisites to begin this phase: Completion of Phase I and acceptance into the MAT**

<b>RSCH 6101:</b> Research Methods (3)	_____	_____
<b>MDSK 6220:</b> Adolescence and Learning (3)	_____	_____
<b>XXXX xxxx:</b> Six hours in Graduate Science Courses (6)	_____	_____
<b>MDSK 6351:</b> Advanced Methods in Middle and Secondary Science (6)	_____	_____
<b><u>Final Courses in Phase II</u></b>		
<b>MDSK 6260:</b> Teacher Leadership (3)	_____	_____
<b>MDSK 6691:</b> Seminar in Professional Development (3)	_____	_____
<i>Application for candidacy filed with the Graduate School _____ (date)</i>		
<i>Application for graduation filed with the Graduate School _____ (date)</i>		
<i>Report of project/portfolio sent to the Graduate School _____ (date)</i>		
<i>Application for "M" license filed in TEAL Office _____ (date)</i>		

<b>Background Requirements</b> 8 Key Courses			
Candidates should have at least a bachelor's degree with a major or equivalent (38 hours) in science and courses in the competency areas below. Candidates with a major in science may satisfy any background deficiencies through graduate courses or undergraduate courses in science. Candidates with degrees in other fields will build to the equivalent of an science major with undergraduate coursework. The GPA for background requirements must be at least a 2.5, and no courses may be presented for licensure with grades lower than a C.			
<b>Requirements (38 hours)</b>			
Content	Suggested Courses	Semester	Grade
Life Sciences	BIOL 1110: Principles of Biology I + Lab		
	BIOL 1115: Principles of Biology II + Lab		
Physical Sciences	CHEM 1251: Principles of Chemistry I + Lab		
	CHEM 1252: Principles of Chemistry II + Lab		
	PHYS 1101: Introductory Physics I + Lab		
	PHYS 1102: Introductory Physics II + Lab		
Earth and Environmental Sciences	<i>Two courses in Earth and Environmental Sciences, e.g.,</i>		
	ESCI 1101: Earth Sciences-Geography + Lab		
	GEOL 1200: Physical Geology + Lab GEOL 1210: Earth History + Lab		
Apply Math Concepts	<i>One Calculus course, e.g.,</i> MATH 1241: Calculus I		
	<i>One Statistics course, e.g.,</i> STAT 1221, 1222, 2122, 1241		

- Note-Some deficiency courses may have prerequisites—check course descriptions in the online catalog.