

**Secondary Science**  
**Graduate Certificate Requirements**  
**16 Graduate Credit Hours**

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**Phase I: Graduate Certificate in Teaching for Middle Grades Science Education**

The Graduate Certificate in Teaching is an initial licensure program. Upon completion of Phase I, the Graduate Certificate in Teaching, candidates may choose to apply all their coursework to the optional Phase II Master of Arts in Teaching (MAT) program (see below).

	Semester	Grade
<b>MDSK 6162:</b> Planning for K-12 Instruction (3)		
<b>MDSK 5204:</b> The Connected Classroom (2)		
<b>MDSK 5251:</b> Teaching Science to Middle and Secondary School Learners (3)		
<b>MDSK 5300:</b> Content Area Instruction and Assessment (3)		
<b>SECD 5140:</b> The Secondary School Experience (2) <u>OR</u>		
<b>MDSK 6252:</b> Differentiating Instruction for Adolescent Learners (2)		
<b><u>Final Course in this phase:</u></b> <b>SECD 6470 or MDSK 6470:</b> Graduate Student Teaching and Internship (3) *This final course is a full-time internship requiring employment as a science teacher in an approved secondary school or a non-paid placement with a licensed science teacher in a public middle school. It requires application and approval during the semester prior to the internship		

**Optional PHASE 2: Master of Arts in Teaching (MAT)**

**14 Credit Hours**

**Prerequisite: To begin Phase II, candidates must complete Phase I: The Graduate Certificate in Teaching (see above), and apply to the Graduate School. Admission to the Graduate Certificate program does not indicate admission to the MAT. Upon completion of Phase II MAT, candidates can apply for an Advanced Level (M-level) license.**

	Semester	Grade
<b>MDSK 6260:</b> Principals of Teacher Leadership (3)		
<b>MDSK 6220:</b> Adolescence & Learning (2)		
<b>MDSK 6351:</b> Advanced Methods of Teaching Middle and Secondary Science Education (3)		
<b>MDSK 6262:</b> Ai and edTECH in the Classroom OR Advanced Content Course		
<b>MDSK 6691:</b> Seminar in Professional Development (3)		