



**University of Massachusetts Dartmouth**  
**Department of Education**

**Masters of Arts in Teaching: Middle/Secondary Mathematics**

**Prerequisite**

*An initial teaching license in Middle or Secondary Education in the appropriate subject area.*

**Required Courses for MAT in Mathematics**

<u>MAT courses (15 credits)</u>	<u>Credits</u>	<u>When Completed</u>
MAT 601 Curriculum Design and Implementation	3	_____
MAT 603 Foundations of Education	3	_____
MAT 609 Effective Instruction	3	_____
MAT 605 Research Methods or Department equivalent	3	_____
MAT 606 Thesis Research Project	3	_____

Disciplinary Content Courses (15 credits)

The MAT in Mathematics requires 15 graduate credits from the following:

MTH 507, MTH 508, MTH 511, MTH 520, MTH 521, MTH 522, MTH 591, and MTH 592.

_____	3	_____
_____	3	_____
_____	3	_____
_____	3	_____
_____	3	_____

*Total credits*    30

*As a rule, students will be allowed to substitute no more than one non-MTH mathematics course for those recommended. Students wishing to transfer graduate credits from another institution should also note that standard methods courses will not normally be allowed as substitutes for courses taken from the approved list. Candidates for the MAT in math may substitute an offering of MTH 591 or 592 devoted to Research and Investigation in lieu of the MAT 605. In this manner, research on mathematical thinking and learning or on the architecture and impacts of particular practices and materials will be undertaken in conjunction and lead to an action-based research project, MAT 606.*