UMass Lowell

Master of Education – Curriculum and Instruction
Concentration in Science Education (ONLINE ONLY)

*This is NOT a teacher preparation program, but is designed for elementary and middle school classroom teachers. High school teachers may apply if the program appears appropriate for them.*

MA Professional Licensure available for eligible elementary and middle school teachers

**30 credits**

*Take the five required courses marked * listed below and five others*

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**Foundations**

- 04.676/031 Exploring the Nature of Science*

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**Research**

- 04.674/031 Research into Learning in Science*

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**Curriculum**

- 04.673/031 Curriculum Design for Science Teachers*
- 04.675/031 Leadership in Science Education*

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**Science Content**

- 25.501/031 Engineering for Teachers*

*Other science content courses include:*

  - Nutrition and Health in the Science Classroom
  - Planet Earth for Science Teachers
  - Inquiry and Teaching of Electricity & Magnetism
  - Organisms, Diversity and Interactions
  - Investigations in Meteorology for Science Teachers
  - Matter in Context
  - Investigating the Ocean for Science Teachers
  - Chemistry by Example
  - Discovering the Universe: Astronomy for Science Teachers
  - Energy, Force, and Motion

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**Elective**

- A science content course from the above list or an education course from:

  - xx. xxx Investigating Science Classrooms
  - 04.637/031 History and Theory of Curriculum
  - 04.643/031 The Skillful Teacher

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