

**For more information:**

Lesley University  
National Programs  
29 Everett Street  
Cambridge, MA  
02138-2790

888.LESLEY.U  
888.537.5398  
[info@lesley.edu](mailto:info@lesley.edu)

## M.Ed. in Technology in Education: Instructional Technology Teacher

Lesley University focuses on instilling in students the practical skills and values that will lead to excellent teaching and learning for children.

- Learn creative and thoughtful strategies for using electronic resources in the classroom.
- Increase your own productivity with technology tools and methods for using them effectively.
- Invigorate your teaching and improve your ability to meet the needs of your students.
- Benefit from individual attention in small classes, averaging 20 students.

Program of Study	Credits
<b>Required Core Courses</b>	<b>9</b>
ECOMP 6100 Educational Uses of Systems Thinking, Modeling, and Simulation	3
ECOMP 7008 Research in Technology in Education	3
ECOMP 7009 Leadership in Educational Technology: Systemic Program Implementation	3
<b>Technology Electives (Select eight of the following 3-credit courses)</b>	<b>24</b>
Elective offerings are subject to availability of faculty, state regulations, and/or requisite equipment.	
ECOMP 5003 Technology in the Mathematics Curriculum	
ECOMP 5004 Technology in the Language Arts Curriculum	
ECOMP 5007 21st Century Teaching: Supporting All Learners on the Ability Spectrum**	
ECOMP 5022 Technology and Social Studies	
ECOMP 5102 Introduction to Programming: From Graphics to Microworlds with LOGO	
ECOMP 5107 Evaluating Educational Technology for the Classroom	
ECOMP 6009 Web Site Design and HTML: Web Publishing for Educators	
ECOMP 6018 Introduction to Educational Robotics	
ECOMP 6011 Database Management Systems for Educational Settings	
ECOMP 7008 Research in Technology in Education	
ECOMP 7010 Emerging Technologies	
<b>Total Credits Required</b>	<b>33</b>

This program has been approved by the Massachusetts Department of Education for Professional Teaching Licensure in the Commonwealth of Massachusetts.

**Disclaimer:** Each state's educator licensure regulations are subject to change. Educators seeking an endorsement or addition to their current certification/license should verify with the appropriate state educator licensure authority that a program meets state requirements.

You can access course descriptions on the web at: <http://www.lesley.edu/courses>

**Please Note:** Lesley University reserves the right to unilaterally add, withdraw, or revise any course offering in the above mentioned program of study including policies, provisions, requirements, and fees.

Lesley University is an Affirmative Action/Equal Opportunity institution and does not discriminate on the basis of age, race, religion, color, creed, national or ethnic origin, sex, sexual orientation, handicap or disability in its education programs, employment, or in admissions to, access to or treatment in its programs or activities.

**Accreditation:**

Lesley University is accredited by the New England Association of Schools and Colleges, and authorized to offer degree programs in many states.

For more information, please visit our website at: [www.lesley.edu/accreditation.html](http://www.lesley.edu/accreditation.html).

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## Course Descriptions (Required Courses)

### REQUIRED COURSES:

#### **ECOMP 6100 Educational Uses of Systems Thinking, Modeling and Simulation**

This course is an introduction to “systems thinking,” a prescribed way of thinking about, describing, and understanding real world phenomena and its relevance to education. System thinking is the art and science of examining real world complexity and understanding patterns in relationships. Through computer-based exploration and discussion, students will develop understanding about this framework and about the use of models and simulations as thinking tools in educational settings.

#### **ECOMP 7008 Research in Technology in Education**

This course engages students in action research leading to development of an appropriate intervention in using technology. Through research, students are expected to more fully understand technology’s role in education. Student research projects will include the development of meaningful research questions, a cultural-historical analysis of context, an appropriate research design, and the application of qualitative methods for data collection and analysis. Students will relate their findings to published research, and plan a research-based intervention using technology.

#### **ECOMP 7009 Leadership in Educational Technology: Systemic Program Implementation**

Using case studies, internet-based sources and publications in the market, and participants’ professional contexts, this course explores and applies key educational leadership principles in technology use. Participants will analyze these principles in their professional settings and develop a product that has significant value to their educational technology leadership role. Course topics include shared vision, planning, access, integration into instruction, assessment and evaluation, support, professional development, community relationships, and ethical legal issues.

### SAMPLE OF ELECTIVE COURSES:

Additional elective course descriptions can be found on the web at: [www.lesley.edu/courses](http://www.lesley.edu/courses)

#### **ECOMP 5003 Technology in the Mathematics Curriculum**

This course explores how technology-supported activities can make mathematics both engaging and understandable to students (and teachers). Using simulations, video, web-based applets, spreadsheets, visual databases, and software programs, participants carry out mathematical investigations and connect them to standards-based content goals through problem solving, reasoning, communications, and connections to the real world. We also consider how experiences supported by technology can help K–12 students make better sense of mathematics.

#### **ECOMP 5004 Technology in the Language Arts Curriculum**

Course participants will experience a variety of hands-on activities designed to integrate technological applications to students’ research, reading, writing, and publishing across content areas. This course surveys current research and best practice in teaching of language arts in combination with effective use of computers and other technology, especially the resources available on the world wide web. Participants will preview, evaluate, and discuss applications of a variety of reading software and storybooks, presentation software, writing programs, editing and grammar tools, and desktop publishing packages.

#### **ECOMP 5007 21 Century Teaching: Supporting All Learners on the Ability Spectrum**

This hands-on course teaches the application of technologies to the special needs curriculum. Participants develop the knowledge and skills to support special needs learners using technologies—understanding the learning characteristics of special needs students, developing customized hypermedia, selecting and evaluating appropriate software, experimenting with and using software and adaptive technologies, discussing special needs research and national legislation, investigating the latest issues of using technology for special needs learners, and integrating technology into the curriculum.

#### **ECOMP 5022 Technology and Social Studies**

This course gives teachers a chance to explore a variety of ways that technology can be used to support and enhance the social studies curriculum, such as developing student-centered projects, inquiry, communication, and “virtual learning.” Students in this course will investigate and evaluate existing standards-based social studies curriculum, build resources, use new tools, and create new curriculum materials for their own classrooms. They will learn and use the “transformative” power of technology in the social studies.

#### **ECOMP 5102 Introduction to Programming: From Graphics to Microworlds with LOGO**

This course will introduce students to the educational philosophy of Logo Microworlds, to several Logo supported learning environments, and to using Logo to create student-centered projects designed and implemented in the Microworlds environment. Students will be encouraged to find areas of interest to explore using Logo and will be introduced to some aspects of computer programming.

#### **ECOMP 5107 Evaluating Educational Technology for the Classroom**

This course focuses on the assessment and selection of appropriate educational technology applications for use in instruction in a variety of school settings. The course includes an overview of evaluation techniques for software and other instructional technology resources. National and local standards for subject matter content, thinking processes, and technology, as well as pedagogical approach, will inform the evaluation process. Students will develop their own evaluation tools for their own contexts and uses.