Educational Specialist in Technology in Education

This program is designed for experienced educators with a Master's degree and background in computers who wish to develop and expand their skills in the varied uses of technology in education. The program includes courses for administrators, curriculum directors, and regular and special education classroom teachers. In addition to courses and other experiences directly related to mastery of the use of technology in education, students are required to take courses that address key issues in the field of education such as research, assessment, organizational change, and special education. These courses provide students with knowledge and understanding of the challenges that educators in a leadership position face. The program explores ways to address these issues. In addition to the course, the student is required to submit an advanced thesis project. Coursework may be done online or face to face.

Program of Study | | Credits

Required Courses		**6**
EAGSR 7101	Quantitative Methods I: Statistics for Research	3
EAGSR 7103	Qualitative Research Methods I	3
Required Program Courses		**21**
ECOMP 8000	Advanced Professional Seminar in Technology in Education	3
ECOMP 7008	Technology and Teacher Research	3
ECOMP 7103	Advanced Studies in Technology and Special Needs	3
ECOMP 7011	Bridging Technology Gaps	3
ECOMP 6102	Assessment and Technology	3
ECOMP 7009	Educational Leadership and Technology: Organizing Change	3
ECOMP 7104	Technology in Education Thesis Project	3
Three Elective Courses (Not previously taken)*		**9**

Select ONE of the following courses, as a cohort, in consultation with faculty advisor:

ECOMP 5022	Technology and Social Studies	3
ECOMP 5003	Technology in the Mathematics Curriculum	3
ECOMP 5004	Technology in the Language Arts Curriculum	3

Select TWO of the following courses, as a cohort, in consultation with faculty advisor:

GAGSR 6003	Program Evaluation	3
ECOMP 5107	Evaluating Educational Technology for the Classroom	3
ECOMP 6009	Web Site Design and HTML: Web Publishing for Educators	3
ECOMP 6100	Educational Uses of Systems Thinking, Models and Simulations	3
ECOMP 7010	Emerging Technologies	3
ECOMP 6011	Database Management Systems for Educational Settings	3
Total Credits		**36**

* Students may elect a maximum of two courses with the 5000 prefix; all 5000 courses require an additional assignment to demonstrate advanced graduate work.

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.

Course Descriptions (Required Courses)

EAGSR 7101   Quantitative Methods I: Statistics for Research

This course is designed to introduce graduate students to basic statistical methods and involves two broad topics: descriptive statistics and inferential statistics. In addition, students are introduced to statistical model building through the technique of regression analysis and correlational analysis. While the course centers on parametric statistical techniques, a brief introduction to nonparametric statistical methods, such as the chi-square test, is included.

EAGSR 7103   Qualitative Research Methods I

This course covers the background and history of qualitative methods and their application to a wide range of fields, ranging from natural science and he social sciences (anthropology, sociology) to the arts. Emphasis will be on the analysis of data gathered by a variety of methods, those of "triangulation," "charting," and other phenomenologically based (meaning-based) approaches will be presented. Students have an opportunity to frame research topics and designs appropriate to their field of interest and to discuss the methods necessary for converting experience in research activities.

ECOMP 8000   Advanced Professional Seminar in Technology in Education

In this course, students will advance their knowledge of technology in education and examine the students' previously unexplored areas of the profession.

ECOMP 7008   Technology and Teacher Research

This course is an introduction to teacher research, which is a form of action research that is particularly valuable to educators who wish to understand and improve teaching practice. In this course, students will learn and apply the methodology of teacher research to investigate technology-supported practice in their own classrooms and educational settings. Step-by-step, students will design and implement a small-scale research project that concerns technology and learn to share findings with others.

ECOMP 7103   Advanced Studies in Technology and Special Needs

This course is a fully experiential, hands-on practice in the design, development, testing and validation of technology-based solutions for students with special needs in complex socio-economic, inclusive/sequestered, low/high technology and reform/traditional educational environments. Students are introduced to pedagogical/technology approaches that address the needs of students across the learning and cognitive disabilities spectrum. The course addresses: Impact of national legislation and policies on systemic change in education; experimentation and analysis of assistive technology protocols and of Universal Design for Learning™ (UDL) protocols; analysis implementation case studies (both existing and student-developed); and bilingual education issues in special education.

ECOMP 7011   Bridging Technology Gaps

The course looks at the reasons that there are significant student disparities in performance with and access to technology which are found in race, gender, economic class, linguistic, and cultural differences. In this course students will investigate existing strategies to redress these "divides" from classroom, to community, to national efforts. Students will also explore curriculum and teaching techniques to broaden the appeal and engage more students in expanding their learning opportunities by using technology.

ECOMP 6102   Assessment and Technology

This course investigates uses of technology in conducting and transforming assessment practices. Participants learn about technologies that support both formal and alternative/authentic assessment (e.g., tests, portfolios, observation tools, self- and whole class assessments). Roles of assessment in student learning and meeting an educational organization's needs will be explored (including current assessments of technology's efficacy). Participants design balanced assessment programs that both prove and improve student achievement and use multiple methods to evaluate uses of technology resources in schools.

ECOMP 7009   Educational Leadership and Technology: Organizing Change

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.

ECOMP 7104   Technology in Education Thesis Project

The C.A.G.S. thesis project course is designed to assist students in developing and implementing a project that will contribute to the field of education. The project also helps to demonstrate that at the end of the C.A.G.S. program, students have learned how to conduct research, plan a major initiative, synthesize information, and present the work to an appropriate and critical audience.

Elective course descriptions can be found on the web at: **www.lesley.edu/courses**.