

MASTER OF SCIENCE



INSTRUCTIONAL TECHNOLOGY

AT THE HIGHER EDUCATION & APPLIED TECHNOLOGY CENTER

COLLEGE OF GRADUATE EDUCATION AND RESEARCH

MASTER OF SCIENCE IN INSTRUCTIONAL TECHNOLOGY

- views students as instructional leaders in educational and human service organizations, and is hands-on, practical and educationally based, relying on group processes and problem solving skills
- challenges and expands digital knowledge and experiences of the students to enhance their teaching, training and professional development
- allows for select students to matriculate to Towson University's Ed.D. in Instructional Technology program

PROGRAM DESCRIPTION

Towson University's Master of Science in Instructional Technology at the Higher Education & Applied Technology Center (HEAT) is an applied professional program that helps educate leaders in educational computing and media. The program is hands-on and practical with a considerable focus of most courses being inventive and authentic learning projects.

The Educational Technology track is designed for those who wish to integrate technology into classroom teaching or to coordinate the planning and integration of educational technologies at the school, district, or state level.

A majority of the graduate students in the Instructional Technology program are full-time working professionals who take classes in the late afternoon or early evening. While the full program of study is offered at the HEAT Center at a gradual pace, students are advised to also consider taking classes on Towson University's main campus where more electives and schedule options are available.

ADMISSION REQUIREMENTS

- A minimum undergraduate grade point average of 3.00 for full admission, and 2.75 for conditional admission. All GPA calculations for admission are based upon the last 60 credits of undergraduate and post-baccalaureate study.
- A Maryland State Department of Education certification as a classroom teacher, administrator, or specialist.
- Technological literacy including the ability to use application programs is a necessary background requirement for the Educational Technology track.

CONTACT INFORMATION

For general information contact:

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For information about the M.S. ISTC program, please contact:

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Graduate Program Director
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HEAT Application Information

1. Completed Graduate School application
- application available online at <http://grad.towson.edu/applyNow/default.asp>
2. \$40.00 application fee
3. One official copy of each transcript
4. Completed Immunization Record

DEGREE REQUIREMENTS -

The program offered at the HEAT Center is the **Concentration III – Educational Technology** strand of the Master of Science in Instructional Technology program.

Required Courses (27 Credits)

Level I: Core Sequence (12 Credits)

EDUC 605 Research & Information Technology (3)

This course immerses the graduate student in the use of database networks for information retrieval; computer hardware and software application programs appropriate for research and curriculum planning; introduction to distance learning; interactive technologies and resource-based learning.

ISTC 541 Foundations of Instructional Technology (3)

This introductory course provides an overview of the field of instructional technology. This course focuses on helping students develop an awareness and understanding of the theories and philosophies driving the field. The course will also explore common computer related technologies used within most learning environments.

ISTC 663 Applied Psychology of Learning (3)

Behaviorist, cognitivist and constructivist learning theories are discussed. Emphasis is on the application of those theories to instruction.

ISTC 667 Instructional Design and Development (3)

Overview and application of the instruction system approach for problem solving and the design of instruction. Media selection, needs assessment, prototyping, implementation and evaluation of instructional systems.

Level II: Elective Sequence (9 Credits)

3 individually selected electives (9)

Level III: Advanced Sequence (15 Credits)

ISTC 685 Research in Instructional Technology (3)

Students write a research proposal and concentrate on elements of a research study, inferential statistics and research in the field of instructional technology.

ISTC 610 Advanced Technology Integration (3)

This seminar course focuses on examining philosophies and theories driving instructional decisions about how to effectively integrate computer related technologies into a learning environment.

ISTC 702 Educational Leadership and Technology (3)

This course explores current research and theory related to technology policy, planning and leadership in education settings. Focus will include development of technology plans at the school district and state levels.

ISTC 717 Distance Education in Theory and Practice (3)

Students explore relevant concepts and issues in distance education including theoretical foundations, existing institutions and concepts and current practice.

ISTC 787 Instructional Technology Capstone (3)

This course provides students the opportunity to demonstrate mastery of required coursework in Instructional Technology program. Students propose and complete a comprehensive technology-intensive project.

Electives (9 Credits)

(A partial list of options)

ISTC 553 Instructional Photography (3)

ISTC 605 Web-Based Instruction (3)

ISTC 633 Instructional Video (3)

ISTC 635 Theory and Design of Computer-Based Instruction (3)

ISTC 797 Graduate Internship in Instructional Technology (3)

ISTC 897 Master's Thesis in Instructional Technology (6)

**See the Towson University
graduate catalog for
complete course listings and
descriptions.**

**Visit www.towson.edu to
view it online.**
(under Information for
Prospective Students)