TECHNOLOGY AND INNOVATION, M.S., ENTERPRISE CONCENTRATION

The Master of Science in Technology and Innovation degree program has been created for students from a variety of backgrounds, including education; business and industry; science and technology; and entrepreneurship. The program has two concentrations from which to choose—education and enterprise. The courses in the program are designed to develop and engage students in creativity, design thinking, innovation, ingenuity, problem solving, critical thinking, decision making, research, curiosity, scholarship, leadership and professionalism. The thinking processes of professionals such as designers, engineers and entrepreneurs are the foundation of the Technology and Innovation core courses. These thinking processes are universal and enduring concepts and are widely considered important tools for success in a world submerged in technology. Experiences in this program provide students with insight as to how their own thinking processes affect them in both their personal and professional lives, and how those thinking processes can be modified to meet the circumstances. Teachers, employees and business leaders alike will learn to think about their own thinking. The Technology and Innovation program is structured to be flexible enough to allow students to customize their graduate studies to a significant degree. This flexibility enables students in the program to make choices, including which option works best to complete the program, the topic to explore through a thesis or research and development technical project, or the variety of courses from which to choose to address one’s areas of interest or professional development needs.

Admission Requirements

Applicants must possess a baccalaureate degree. Students holding a variety of baccalaureate degrees can benefit from the completion of the Master of Science in technology and innovation. Admission to the program is granted after a favorable review of application materials. A minimum undergraduate cumulative average of 3.0 is required. Applicants with less than a 3.0 GPA are required to submit test scores from either the Miller Analogies Test (MAT) or the Graduate Record Examination (GRE) that are determined to be acceptable by the department. Probationary admission may be granted at the discretion of the department. See the Admission Requirements section for additional application information. Selected graduate courses may be credited toward both graduate-level certificates or teaching endorsements and the master’s degree in technology and innovation. See the department chairperson or graduate program coordinator for further information.

Degree Requirements

Each student is required to complete all four courses in the technology and innovation core and either the education core or the enterprise core (depending on the degree concentration selected), and the identified expectations of one of the three degree-completion options.

1. Option 1 - the Thesis Option. A thesis (EDTE 699 Thesis:) must be satisfactorily completed as part of a minimum of 30 s.h. of approved graduate study.

2. Option 2 - the Applied Research Option. Requires satisfactory completion of EDTE 698 Research and Development Technical Project as part of 33 s.h. of approved graduate study.

3. Option 3 involves the completion of 36 s.h. of graduate study by taking five approved elective courses which have been selected based on their fit to the professional development needs of the student.

Technology and innovation and approved courses in related disciplines are elected to complete the semester-hour requirements. The graduate program coordinator serves as the advisor for all graduate students pursuing a master’s degree. Master’s degree candidates who elect the thesis option will select, in consultation with the graduate coordinator, a thesis advisor from the Department of Applied Engineering, Safety and Technology. This advisor will work with at least two other members of a student’s thesis committee. These other committee members must consist of at least one other graduate-level faculty member of the Department of Applied Engineering, Safety and Technology. The third member must come from outside of the department and can be someone who is a recognized expert in a given field.

Degree Candidacy

The student will apply for admission to degree candidacy after completing six to 15 s.h. of graduate-degree credits. Graduate faculty will evaluate the student’s performance and provide a written recommendation regarding the individual as a degree candidate. At the time of admission to degree candidacy, the student will consult with the graduate program coordinator to review and update his or her program of studies for completing the degree requirements.

Major in Technology and Innovation - MS

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| Concentration Enterprise - See separate block |       |

Total Hours 21-27

Appendix 1. THESIS OPTION - 30 CREDITS

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**ACTE 632**  
Online Learning Environments

**ACTE 633**  
Learners in Online Classrooms

**ACTE 634**  
Legal and Ethical Issues in Online Education

**ACTE 635**  
Instructional and Curricular Design for Online, Blended and Customized Instruction

**ACTE 651**  
Science Curriculum and Reform

**ACTE 655**  
Integrative STEM Education

**ART 526**  
Trends Art Ed:

**ART 584**  
Intro Studio Art:

**COMM 610**  
Seminar in Organizational Comm

**CSCI 501**  
Coding for Educators

**ECHD 614**  
Advanced Curriculum in ECHD

**EDFN 520**  
Instructional Technology in Elem Ed

**EDFN 530**  
Instructional Technology, Design and Assessment

**EDLD 610**  
Theory and Organizational Behavior

**EDLD 614**  
School Community Relations

**EDLD 620**  
School Law and Public Policy

**EDLD 667**  
Leadership Seminar 1

**EDLD 668**  
Leadership Seminar 2

**EDLD 669**  
Leadership Seminar 3

**EDTE 586**  
Topics in Industry & Tech

**EDTE 587**  
Topics in Industry & Tech

**EDTE 588**  
Sp Topics in Industry & Tech

**EDTE 589**  
Sp Topics in Industry & Tech

**EDTE 690**  
Interv Gmpl Exp: Entre Strtgy

**EDTE 691**  
Ind Stdy:

**EDUC 575**  
Current Trends in Education

**EDUC 580**  
Methods for Teaching English Language Learners

**EDUC 651**  
Entre: Networking & Sales

**EMGT 601**  
Principles & Practices of Emergency Management

**EMGT 605**  
Social Dimensions of Disaster

**EMGT 607**  
Emergency Mental Health and Trauma

**EMGT 615**  
Emergency Preparedness for Industry

**EMGT 619**  
Emergency Management Planning

**EMGT 629**  
Topics: (Topics: Business Continuity)

**ENTR 510**  
ENTR Promotions & Branding

**ENTR 511**  
Entrepreneurship Capstone

**GFED 670**  
Psychology of the Gifted

**GFED 674**  
Program for the Gifted

**GFED 675**  
Eval Instructional Effectiveness

**GFED 676**  
Tchg Gftd Lrns:Instruct Strat

**AENG 515**  
Adv Prob:

**AENG 525**  
Adv Prob:

**AENG 535**  
Adv Prob:

**AENG 586**  
Special Topics:

**AENG 587**  
Special Topics:

**AENG 588**  
Special Topics:

**AENG 589**  
Special Topics:

**MATH 622**  
21st Century Math

**SOWK 501**  
Principles and Philosophies of Social Work

**SOWK 505**  
Understanding Social Work Practices w Diverse Pops

**SOWK 510**  
Human Behavior in the Social Environment I

**SOWK 511**  
Human Behavior in the Social Environment II

**SOWK 515**  
Social Welfare Policy

**SOWK 619**  
Global Perspectives in SOWK

**SPED 600**  
Orientation to Special Education

**SPED 601**  
Psy of Stdnts w/ Disabilities

**SPED 651**  
Accomplished SPED Advocacy

**SPED 671**  
Behavior Management

**WSSD 551**  
Coaching of Sport

**WSSD 601**  
Organization and Administration of Sport Programs

**WSSD 602**  
Sport in American Culture

**WSSD 604**  
Event Management

**WSSD 610**  
Women in Sport

**WSSD 615**  
Campus Recreation Program

**WSSD 622**  
Sport Finance

**Any WSSD 686-689 course(s)**

**WSSD 691**  
Ind Stdy:

### Appendix 2. RESEARCH & DEVELOPMENT TECHNICAL PROJECT - 33 CREDITS

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**Technology Innovation Electives - Choose 6 hours from:**

**ACTE 625**  
Technology and Assessment for Learning

**ACTE 630**  
Current Technology for Online Instruction

**ACTE 632**  
Online Learning Environments

**ACTE 633**  
Learners in Online Classrooms

**ACTE 634**  
Legal and Ethical Issues in Online Education

**ACTE 635**  
Instructional and Curricular Design for Online, Blended and Customized Instruction

**ACTE 651**  
Science Curriculum and Reform

**ACTE 655**  
Integrative STEM Education

**ART 526**  
Trends Art Ed:

**ART 584**  
Intro Studio Art:

**COMM 610**  
Seminar in Organizational Comm

**CSCI 501**  
Coding for Educators

**ECHD 614**  
Advanced Curriculum in ECHD

**EDFN 520**  
Instructional Technology in Elem Ed

**EDFN 530**  
Instructional Technology, Design and Assessment

**EDLD 610**  
Theory and Organizational Behavior

**EDLD 614**  
School Community Relations

**EDLD 620**  
School Law and Public Policy

**EDLD 667**  
Leadership Seminar 1

**EDLD 668**  
Leadership Seminar 2

**EDLD 669**  
Leadership Seminar 3

**EDTE 586**  
Topics in Industry & Tech

**EDTE 587**  
Topics in Industry & Tech

**EDTE 588**  
Sp Topics in Industry & Tech

**EDTE 589**  
Sp Topics in Industry & Tech

**EDTE 690**  
Interv Gmpl Exp: Entre Strtgy

**EDTE 691**  
Ind Stdy:

**EDUC 575**  
Current Trends in Education

**EDUC 580**  
Methods for Teaching English Language Learners

**EDUC 651**  
Entre: Networking & Sales

**EMGT 601**  
Principles & Practices of Emergency Management

**EMGT 605**  
Social Dimensions of Disaster

**EMGT 607**  
Emergency Mental Health and Trauma

**EMGT 615**  
Emergency Preparedness for Industry

**EMGT 619**  
Emergency Management Planning

**EMGT 629**  
Topics: (Topics: Business Continuity)

**ENTR 510**  
ENTR Promotions & Branding

**ENTR 511**  
Entre: Networking & Sales

**ENTR 540**  
Entrepreneurship Capstone

**GFED 670**  
Psychology of the Gifted

**GFED 674**  
Program for the Gifted

**GFED 675**  
Eval Instructional Effectiveness

**GFED 676**  
Tchg Gftd Lrns:Instruct Strat

**AENG 515**  
Adv Prob:

**AENG 525**  
Adv Prob:

**AENG 535**  
Adv Prob:

**AENG 586**  
Special Topics:

**AENG 587**  
Special Topics:

**AENG 588**  
Special Topics:

**AENG 589**  
Special Topics:

**MATH 622**  
21st Century Math

**SOWK 501**  
Principles and Philosophies of Social Work

**SOWK 505**  
Understanding Social Work Practices w Diverse Pops

**SOWK 510**  
Human Behavior in the Social Environment I

**SOWK 511**  
Human Behavior in the Social Environment II

**SOWK 515**  
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Organization and Administration of Sport Programs

**WSSD 602**  
Sport in American Culture

**WSSD 604**  
Event Management

**WSSD 610**  
Women in Sport

**WSSD 615**  
Campus Recreation Program

**WSSD 622**  
Sport Finance

**Any WSSD 686-689 course(s)**

**WSSD 691**  
Ind Stdy:
### Appendix 3. TECHNOLOGY & INNOVATION ELECTIVES - 36 CREDITS

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AENG 589  Special Topics:
MATH 622  21st Century Math
SOWK 501  Principles and Philosophies of Social Work
SOWK 505  Understanding Social Work Practices w Diverse Pops
SOWK 510  Human Behavior in the Social Environment I
SOWK 511  Human Behavior in the Social Environment II
SOWK 515  Social Welfare Policy
SOWK 619  Global Perspectives in SOWK
SPED 600  Orientation to Special Education
SPED 601  Psyc of Stdnts w/ Disabilities
SPED 651  Accomplished SPED Advocacy
SPED 671  Behavior Management
WSSD 551  Coaching of Sport
WSSD 601  Organization and Administration of Sport Programs
WSSD 602  Sport in American Culture
WSSD 604  Event Management
WSSD 610  Women in Sport
WSSD 615  Campus Recreation Program
WSSD 622  Sport Finance
WSSD 686-689
WSSD 691  Ind Stdy:

**Concentration in Enterprise**

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<tr>
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<td>Culminating Experiences include but are not limited to published articles, curriculum artifacts and professional presentations</td>
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**Total Hours** 9-10