# QUALITY SYSTEMS

CONCENTRATION

# MASTER OF SCIENCE IN TECHNOLOGY SYSTEMS ONLINE

The Masters of Science in Technology Systems (MSTS) with a concentration in **Quality Systems** prepares students for upper level positions in the quality management field. The curriculum provides industry-based, problem-solving experiences in Lean enterprise, quality planning and analysis, experimental design, improvement of the overall quality of enterprises, and process improvement of management systems. The 18-hour concentration builds upon the 12-hour MSTS core to provide a solid career foundation for careers and occupations as: Quality Manager, Quality Auditor, Six Sigma Black Belt, Executive Champion, etc., as well as other roles in the quality field.

| Core Courses (12 SH) | Concentration Courses (18 SH) |
|---|---|
| ITEC 6050 Strategies for Technical Management and Communications (Program Introduction) | ITEC 6005 Lean Enterprise |
| ITEC 6000 Statistical Applications in Industry | ITEC 6110 Quality Planning and Analysis |
| ITEC 6406 Capital Project and Cost Analysis for Technology | ITEC 6112 Design of Experiments for Products and Processes |
| ITEC 6200 Technology Project Management | ITEC 6600 Quality Systems |
| | Two approved electives from ICTN, IDIS 6535, ITEC 6001, ITEC 6002, ITEC 6003, ITEC 6407, ITEC 6903, SAFT 6250, or SAFT 6402 |

Students may choose to pursue the Lean Six-sigma Black Belt Graduate Certificate jointly with the above degree. A maximum of 6 semester hours can be considered common between the MSTS degree and the certification.

## ADMISSION STANDARDS

Applicants must have a baccalaureate degree from an institution accredited by a regional association and have an overall GPA of 2.7 on a 4.0 scale on all undergraduate work. Each applicant must achieve a satisfactory score on a standardized graduate test. The Graduate Record Examination (GRE) or the Miller Analogies Test (MAT) is preferred. The minimum acceptable test score is based on a moving scale determined by the ECU Graduate School. A student holding a masters degree from an accredited university does not have to retake the standardized graduate exam. Deficiencies in students' backgrounds are evaluated on a case-by-case basis. Remedial undergraduate courses and/or additional graduate courses may be required to complement the standard course work.

## ADMISSION PROCEDURE

1. Complete and submit a graduate application from the ECU Office of Graduate Studies website at **www.ecu.edu/gradschool**.
2. Return any required forms such as the Statement of Legal Residence, Statement of Purpose, official copies of all transcripts, and three letters of reference to the ECU Office of Graduate Studies.

## THE FINE PRINT

The Department of Technology Systems is a national leader in offering graduate, technology related degrees online. The program is Internet based and permits students to be advised, complete courses, collaborate on projects, conduct research, and complete the degree via the Internet. Each student should have a state-of-the-art computer and reliable high speed Internet access. Students typically spend 10-15 hours per week in preparing for and participating in each course. Most of the students in the program are working professionals who are pursuing the degree for career advancement. Average completion time is 24 months if six credits are taken per semester. Courses are scheduled in a sequence over the fall, spring, and summer semesters and this allows program entry in any semester. All students must meet admission and retention standards established by the ECU Graduate School.

*All information provided in this flyer is subject to change without notification. Students and applicants are required to review the Graduate Catalog (*www.ecu.edu/grcat/*) to learn about the current requirements, regulations, and policies.*

**For more information contact:**

Department of Technology Systems, Office of Graduate Studies

Phone: 252-328-9653 Email: mstechsystems@ecu.edu Website: www.tecs.ecu.edu/msts