



MANUFACTURING SYSTEMS

CONCENTRATION

MASTER OF SCIENCE IN TECHNOLOGY SYSTEMS ONLINE

The Masters of Science in Technology Systems (MSTS) with a concentration in **Manufacturing Systems** prepares students for upper level positions in the manufacturing management field. The program provides industry-based, problem-solving experiences in the application of technology, planning, productivity improvement, quality, supply chain, and management systems. The 18-hour concentration builds upon the 12-hour MSIT core to provide a solid career foundation for careers and occupations as: Production Manager, Manufacturing Engineer, Materials Manager, as well as other roles in the Manufacturing field.

Core Courses (12 Semester Hours)	Concentration Courses (18 Semester Hours)
ITEC 6050 Strategies for Technical Management and Communications (Program Introduction)	ITEC 6001 Process Analysis Methods
ITEC 6000 Statistical Applications in Industry	ITEC 6002 Lean Manufacturing
ITEC 6406 Capital Project and Cost Analysis for Technology	ITEC 6003 Advanced Lean Techniques
ITEC 6200 Technology Project Management	ITEC 6600 Quality Systems
	IDIS 6535 Supply Chain Logistics
	One elective from approved ITEC, IDIS, ICT or SAFT courses

ADMISSION STANDARDS

Applicants must have a baccalaureate degree from an institution accredited by a regional association and have an overall GPA of 2.5 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.
3. Complete and submit the Department of Technology Systems Graduate Entrance Application found at www.tecs.ecu.edu/tsys/grad.

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. Formats for the courses vary, but all include frequent interaction with the instructor and other students. Courses are offered using a variety of Internet-based tools including streaming video, email, chat, threaded discussion, web, file transfer, and other collaboration tools. The first course in the program, ITEC 6050, introduces the use of these tools in a collaborative research/study environment.

For more information contact:

Department of Technology Systems, Office of Graduate Studies
Phone 252-328-9653 or Email mstechsystems@ecu.edu