



# MASTER OF SCIENCE TECHNOLOGY SYSTEMS MANUFACTURING SYSTEMS



The Masters of Science in Technology Systems, Manufacturing concentration provides advanced study in the implementation and management of manufacturing processes and operations. The program provides industry-based, problem-solving experiences in the application of technology, planning, productivity improvement, assessment, forecasting, 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: Plant Manager, Area Superintendent, Production Manager, Product Line Manager, Manager of Production control, Manager of Facilities Planning, or Planning Systems Manager.

Core Courses (12 SH)	Concentration Courses (18 SH)
ITEC 6050 Strategies for Technical Management and Communications (Program Introduction) ITEC 6000 Statistical Applications in Industry ITEC 6406 Capital Project and Cost Analysis for Technology ITEC 6200 Technology Project Management	IDIS 6535 Supply Chain Logistics Management ITEC 6001 Work Measurement and Design ITEC 6002 Production planning and control systems ITEC 6110 Technology Assessment and Forecasting ITEC 6407 Computer Integrated Manufacturing and Automation SAFT 6292 Industrial Safety DTEC 6855 (3) Networked Commerce Systems

### ADMISSION STANDARDS

An applicant 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 take a standardized graduate test such as the Graduate Record Examination (GRE) or the Miller Analogies Test (MAT) and achieve a satisfactory score.

### ADMISSION PROCEDURE

- Request and complete a graduate application packet from the Office of Graduate Studies , <http://www.ecu.edu/gradschool/>. Applications will be evaluated on a case-by-case basis.
- Complete and return the Department of Technology Systems (TECS) Entrance Application, found at [http://www.tecs.ecu.edu/tsys/grad/Entrance\\_Application.doc](http://www.tecs.ecu.edu/tsys/grad/Entrance_Application.doc)
- Full requirements, responsibilities, and procedures of the Graduate School are located at: <http://www.ecu.edu/gradschool/>

The Department of Technology Systems is a national leader in offering graduate, technology related degrees online. The program is Internet- based and students are advised, complete courses, collaborate on projects, perform research, and complete the degree via the Internet. Each student should have a state-of-the-art computer and reliable Internet access. Students will 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 per semester are taken. 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 collaboration tools. The first course in the program, ITEC 6050, introduces the use of these tools in a collaborative research/study environment.

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### For more information contact:

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**Dr. Richard Monroe**  
 Manufacturing Systems Graduate Coordinator  
 404 Science and Technology Complex  
 East Carolina University, Greenville, NC 27858  
 252-328-9640  
[monroer@mail.ecu.edu](mailto:monroer@mail.ecu.edu)

**Graduate Program Administrator**  
 203 Science and Technology Complex  
 East Carolina University, Greenville, NC 27858  
 252-328-9653  
[mstechsystems@ecu.edu](mailto:mstechsystems@ecu.edu)