



**Businesses, organizations and government** benefit greatly from engineers who are trained to **resolve complex interdisciplinary problems** as well as answer design and management **challenges.**

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## Industrial and Systems MBA/MISE PROGRAM



# Auburn University

## Overview

The Samuel Ginn College of Engineering and Auburn's College of Business offer a dual degree program for students who would like to earn master's degrees in business administration (MBA) and industrial and systems engineering (MISE). This program addresses the critical need for students with graduate education in both engineering and business. Because of their interaction with people and the broad perspective of their work, industrial engineers often have opportunities to quickly move into management positions. These individuals must be able to integrate an increasingly complex body of knowledge to achieve continuous improvement in the operations of manufacturing and services enterprises.

This dual degree program provides graduates with a solid foundation in traditional business subjects; practical leadership and team-building experience; a clear understanding of social and ethical issues; and mastering of new technologies and their impact on the changing global business environment. Skills in team-building and innovative thinking are emphasized throughout this integrated curriculum.

*"I chose the dual MBA/MISE program to keep up with an increasingly dynamic and global-minded business world. The Auburn MBA program highlights team building and decision making skills while the MISE degree complements these skills with analytical tools and technical know-how. Ultimately, the two degrees provide an excellent foundation for a 21st century manager."*

**Vijay Murugesan**  
MBA/MISE student  
BSIE, Purdue University



## Prospective Students and Admissions Requirements

Admission to the dual MBA/ MISE program requires separate applications for the colleges of engineering and business as well as fulfilling the admission requirements for both programs; however, students may be admitted to both colleges through the use of one standardized exam – the GRE or the GMAT. Many applicants to this program have received undergraduate degrees in engineering; although, other students with strong mathematical backgrounds, who have completed at least one year of calculus, are encouraged to apply.

## Curriculum Description

This two-year program requires 54 semester hours of coursework. Students with less than two years of work experience are required to complete an internship with

an approved company or an international experience during the summer between the two academic years. Students with acceptable experience will substitute two additional electives for the internship requirement. The final project consists of an in-depth analysis of an engineering management problem that includes a business application conducted under joint supervision of faculty from both the Department of Industrial and Systems Engineering and the MBA program.



*"The opportunity from Auburn University to partner business administration concepts with industrial engineering foundations has given me a unique skill set with which to enter the work force. The ability to incorporate business decision-making skills into process design will enable any new employee to not only create immediate results, but also jump start a career as a future leader."*

**Mike Thompson**  
Operations Industrial Engineer, U.S. Postal Service  
MBA/ MISE, 2007  
BSIE, Georgia Tech

## Outreach

The MBA/ MISE program can be accomplished through the Graduate Outreach Program, though the timeframe will likely exceed two years. Students with a U.S. or APO address (including territories) may participate in the outreach program. Classes are delivered through the Internet (or DVD) and are identical to those taught within the traditional classroom setting.

## MBA/MISE Curriculum Model (54 Credits)

Fall Semester 1	Spring Semester 2	Summer	Fall Semester 3	Spring Semester 4
<b>Elective</b> <i>3 credits</i>  <b>INSY 7300:</b> Advanced Engineering Statistics I <i>3 credits</i>  <b>BUSI 7130:</b> Strategic Analysis and the Competitive Environment <i>3 credits</i>  <b>BUSI 7140:</b> Organizational Leadership and Change <i>3 credits</i>	<b>INSY 6600:</b> Manufacturing/ Production Economics <i>3 credits</i>  <b>BUSI 7220:</b> Operations and Information Technology for Competitive Advantage <i>3 credits</i>  <b>BUSI 7230:</b> Cost Analysis and Systems <i>3 credits</i>  <b>INSY 7420:</b> Linear Programming and Network Flows <i>3 credits</i>	<b>BUSI 7920:</b> MBA/ MISE Internship (Study Abroad/ Internship/ Independent Study Project) <i>6 credits</i>	<b>INSY 7030:</b> Manufacturing System Design and Operations or <b>INSY 7400:</b> Simulation <i>3 credits</i>  <b>BUSI 7110:</b> Financial Analysis <i>3 credits</i>  <b>BUSI 7980:</b> Integrated Project and Case Analysis <i>3 credits</i>  <b>Elective</b> <i>3 credits</i>	<b>INSY 7240:</b> Production and Inventory Control Systems <i>3 credits</i>  <b>INSY 7980:</b> Master's Project <i>3 credits</i>  <b>BUSI 7210:</b> Marketing and Consumer Theory <i>3 credits</i>  <b>Elective</b> <i>3 credits</i>



*"Attending Auburn University's joint MBA/MISE program has provided me with the credentials and knowledge to succeed in a supply chain managerial level position with a highly regarded company. Having the diverse background provided by the joint program can make you a valuable commodity at any company."*

**Jason Rivers**  
Logistics Manager, Distribution Operations, The Home Depot  
MBA/ MISE, 2007  
BSIE, Georgia Tech

## Academic Excellence

The ISE graduate program at Auburn University is ranked nationally in the top 25 percent by *U.S. News and World Report* and the College of Business's MBA program has been ranked in the top 10 percent by *U.S. News and World Report*. The College of Business is accredited by AACSB International. Less than one-third of U.S. business school programs and only 15 percent of business school programs worldwide meet the rigorous standards of AACSB accreditation.

*"The MBA/MISE program was a perfect opportunity for me since the program allowed me to finish both degrees in two years and to focus, through a variety of elective courses, on the area in which I want to pursue my career. While the classes provided excellent analytical and managerial skills, the class projects with local companies and the internship opportunity prepared me for the real world."*

**Ozge Sumer**  
Business manager working in Turkey, her home country  
MBA/ MISE, 2007  
MS, University of Florida

