

SELECTED AREAS OF FACULTY AND STAFF EXPERIENCE

Biology/Chemistry

- Atomic Force Microscopy
- Cell Biology
- Molecular Biology
- Thin Films

Computer and Software Engineering

- Embedded Systems and Microcontroller Applications
- Neutral Networks
- Rapid Digital Design
- Software Design and Patterns
- Software Reliability Modeling
- Software Testing, Validation, and Verification

Computer Science

- Data Communications
- Data Structures and Algorithms
- Network Operating Systems
- Program Design Methodologies

Customized Corporate Programs

- Organizational Development
- Management Development
- Professional Development
- Executive Leadership
- Process and Quality Management
- Six Sigma
- Plastics Workforce Development
- Computer and Information Technology

Electrical Engineering

- Control Systems
- Data Acquisition and Industrial Sensing
- GPS and Electronic Navigation Systems
- Image and Signal Processing
- Machine Vision Systems
- Power Electronics and Systems
- Remote Monitoring and Diagnostics
- Wireless Communications

Finance

- Corporation Finance
- Financial Management
- Financial Planning
- International Market Integration and Efficiency
- Investments
- Portfolio Theory

Management and International Business

- Business Ethics
- Human Resource Management
- Innovation Management
- International Business
- Leadership
- Operations Planning and Control
- Organization Theory
- Plant Design and Operations
- Process Industry Management
- Production and Operations Management
- Project Management
- Quality Management
- RFID Applications
- Self-Managed Work Teams
- Strategic Management Entrepreneurship
- Supply Chain Management

Management Information Systems

- Analytical Hierarchy Processes
- Decision Support Systems
- ERP Systems
- Issue Management Systems
- IT Outsourcing
- On-line Reverse Auctions
- Reporting Systems
- Service Quality
- Systems Analysis

Marketing

- Consumer Complaint Behavior
- Ethical and Social Issues in Marketing
- International Marketing
- Marketing/Manufacturing Interface
- Marketing Research
- Services Marketing
- Social Marketing

Mechanical Engineering

- Combustion Systems Analysis
- Computer Simulation, FEA, CAD, CAM
- Controls
- Design for Manufacturing
- Fatigue/Fracture/Failure Analysis
- Fluid Flow Analysis, CFD
- Heat Transfer/Thermal Analysis
- Manufacturing Processes/Lean Manufacturing
- Materials Analysis
- Measurement and Instrumentation
- Mechanical Design
- Metrology and Instrumentation
- Quality Control/DOE
- Rapid Prototyping
- Structural Systems Design
- Vibration Analysis

Physics

- Applications of Biomolecules
- Computational Physics
- Optics
- Tunneling in Nanostructures

Plastics Engineering

- Computer-Aided Part and Process Design
- Materials Characterization/Rheology

- Part and Product Enhancement and Development
- Plastics Packaging
- Process Improvement and Control
- Project Management
- Tooling Design and Optimization
- Shrinkage, Warp, and Stress Analysis