### Enrollment Fall 2013

<table>
<thead>
<tr>
<th>Undergraduate Students</th>
<th>1,131</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate Students</td>
<td>623</td>
</tr>
<tr>
<td>Master's</td>
<td>293</td>
</tr>
<tr>
<td>Ph.D.</td>
<td>330</td>
</tr>
</tbody>
</table>

### Quality Indicators

<table>
<thead>
<tr>
<th>Total Faculty</th>
<th>67</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professors</td>
<td>34</td>
</tr>
<tr>
<td>Associate Professors</td>
<td>25</td>
</tr>
<tr>
<td>Assistant Professors</td>
<td>8</td>
</tr>
</tbody>
</table>

### U.S. News & World Report Rankings

<table>
<thead>
<tr>
<th>Ranking Among Public Institutions</th>
<th>Computer Engineering</th>
<th>Electrical Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>11</td>
<td>8</td>
</tr>
<tr>
<td>Graduate</td>
<td>13</td>
<td>11</td>
</tr>
</tbody>
</table>

Endowed Chair Holders: 7

Endowed Professorship Holders: 11

Distinguished Professors: 1

National Academy of Engineering Members: 2

### Centers and Laboratories

**Analog and Mixed-Signal Center (TEES)**

**Control Engineering Laboratory**

**Digital Signal Processing Laboratory**

**Downed Conductor Test Facility**

**Electric Machines and Power Laboratory**

**Electromagnetics and Microwave Laboratory**

**Electronics Laboratory**

**Electro-optics Laboratory**

**Fuel Cell Power Systems Laboratory**

**Functional Thin Film Laboratory**

**Genomic Signal Processing Laboratory**

**Magnetic Resonance Systems Laboratory**

**Multimedia Laboratory**

**Multimedia Communication and Networking Laboratory**

**NanoBio Systems Laboratory**

**Nanofabrication Cleanroom Facility**

**Power Electronics Laboratory**

**Power Electronics and Motor Drives Laboratory**

**Power Engineering Laboratory**

**Power Quality Laboratory**

**Power System Automation Laboratory**

**Power System Control and Protection Laboratory**

**Semiconductor Laboratory Sensing, Imaging and Communications Systems Laboratory**

**Sensing, Imaging and Communication Systems Laboratory**

**Smoke Detector Test Facility**

**Ultrasound Imaging Laboratory**

**VLSI Laboratory**

**Wireless Communications Laboratory**

### Research Areas

Listed on reverse side
Research Areas

Analog and Mixed Signals
- Active and Passive Filter Design
- Biomedical Applications
- Broadband Communications
- Data Converters
- High-Speed Electronic Systems
- Integrated Circuit Design
- Low-Noise Front-End Electronics
- Low-Voltage Low-Power Electronics
- Millimeter-Wave Integrated System Design
- Power Management
- RF IC and System Design

Biomedical Imaging and Genomic Signal Processing
- Bioinformatics and Computational Biology
- BioMEMs and Lab-on-a Chip
- Biosensing and Bioanalysis Systems
- Dynamic Imaging, Thermal Imaging and Magnetic Resonance Microscopy
- Genomic Signal Processing
- Image Analysis Techniques and Algorithms
- Magnetic Resonance Imaging and Spectroscopy
- Morphological Analysis
- Optical Tomographic Imaging Techniques
- Sensor Arrays in Medical Imaging
- Ultrasound and Elasticity Imaging

Computer Engineering
- Computer Networks and Internet
- Computer Systems
- Digital VLSI Design and Test
- Electronic Design Automation
- Fault Tolerance, Security and Reliability
- Mobile Wireless Networking
- Multimedia Infrastructure
- Network Coding
- Network Security and Reliability
- Storage Systems

Control Systems
- Homomorphic Digital Filtering
- Linear Multivariable Control Systems
- Nonlinear Control Systems
- Robust Control and Adaptive Control

Electric Power and Power Electronics
- Alternative Energy Systems
- Condition Monitoring and Fault Diagnostics of Electric Machines
- DSP-Based Power Electronic Systems
- Dynamic Analysis
- Electric Ship Power and Power Electronics Systems
- Electromechanical Energy Storage Systems
- Monitoring, Control and Protection
- Novel Electric Motors and Generators for Special Applications
- Power Converters for Windmills and Hybrid Vehicles
- Power Electronics and Motor Drives
- Reliability Evaluation
- Substation Automation
- Switching Power Supplies

Electromagnetics and Microwaves
- Antennas
- CMOS RFIC and Systems
- Electromagnetic Theory
- Electromagnetic Wave Propagation
- Guided-Wave Structures
- Microstrip Antennas
- Microwave Solid-state Circuits and Devices
- Microwave Systems
- Millimeter-Wave Circuits
- Sensing and Imaging
- Surface Penetrating Radar

Solid-state Electronics Photonics and Nano-Engineering
- Fiber Optics Devices
- Functional Thin Film Processing
- Integrated Optics
- Micro Electromechanical System (MEMS)
- Nanolithography
- Nanotechnology
- Noise in Electronic Systems
- Optical Communication
- Optical Filters
- Quantum Optics

Telecommunications and Signal Processing
- Advanced Channel Coding Techniques
- Data Compression
- Digital Communications Systems
- Digital Signal Processing
- Estimation and Detection Theory
- Information Security
- Information Theory
- Multirate Signal Processing
- Sensor Networks
- Time-frequency Analysis
- Wireless Networks
- Wireless Systems