GETTING STARTED

At NYU-Poly, we recognize the value of your time and that is why we have streamlined the registration and admission process. You do not have to formally matriculate before you start taking courses. Qualified new students can take up to three courses before they must be accepted into one of our MS or certificate programs. During the semester, you can formally apply to be matriculated in the program of your choice. Call us to receive the necessary forms and more detailed information.

TUITION

Tuition at NYU-Poly is $1,073 per credit.

ADMISSION TO A DEGREE PROGRAM

To be eligible for admission as a graduate student, an applicant must first hold a bachelor’s degree from an institution acceptable to NYU-Poly. An applicant applying to a graduate program in an area of study different from the undergraduate field in which a bachelor’s degree or its international equivalent was earned must anticipate the need to take additional courses for which graduate credit may not be given.

On-site registration available.

For directions visit www.poly.edu/ii.

Use north entrance located at the rear of the building.

For additional information, please call us at 1-800-POLYTECH or e-mail us at gradinfo@poly.edu. You can also apply online at: www.poly.edu/graduate.

LONG ISLAND
GRADUATE CENTER

GRADUATE COURSE OFFERINGS

SPRING 2009

- Computer Science and Engineering
- Electrical and Computer Engineering
- Technology Management

JOIN US FOR A GRADUATE INFORMATION SESSION

Tuesday, December 9, 2008, 6 to 8 p.m.

GRADUATE INFORMATION, ENROLLMENT & REGISTRATION

Tuesday, January 13, 2009, 6 to 8 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Days</th>
<th>Time</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>CS 6033 LI</td>
<td>Design &amp; Analysis of Algorithms</td>
<td>W</td>
<td>5:45 p.m.– 8:15 p.m.</td>
<td>J. Colagioia</td>
</tr>
<tr>
<td>CS 6073 LI</td>
<td>Software Engineering II</td>
<td>W</td>
<td>5:45 p.m.– 8:15 p.m.</td>
<td>M. Shooman</td>
</tr>
<tr>
<td>CS 6083 LI</td>
<td>Introduction to Database Systems</td>
<td>T</td>
<td>5:45 p.m.– 8:15 p.m.</td>
<td>F. Strauss</td>
</tr>
<tr>
<td>CS 6133 LI</td>
<td>Computer Architecture I</td>
<td>M</td>
<td>8:20 p.m.– 10:50 p.m.</td>
<td>F. Winter</td>
</tr>
<tr>
<td>CS 6253 LI</td>
<td>Distributed Operating Systems</td>
<td>M</td>
<td>5:45 p.m.– 8:15 p.m.</td>
<td>F. Winter</td>
</tr>
<tr>
<td>CS 6823 LI</td>
<td>Network Management and Security</td>
<td>M</td>
<td>8:20 p.m.– 10:50 p.m.</td>
<td>G. Sullivan</td>
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<tr>
<td>CS 9033 LI</td>
<td>Selected Topics in CS: Client-Server Programming</td>
<td></td>
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<tr>
<td>CS 9043 LI</td>
<td>Selected Topics in CS: Survey of UNIX Topics</td>
<td>T</td>
<td>5:45 p.m.– 8:15 p.m.</td>
<td>A. Shak</td>
</tr>
<tr>
<td>CS 9063 LI</td>
<td>Selected Topics in CS: Internet Architectures</td>
<td>Th</td>
<td>5:45 p.m.– 8:15 p.m.</td>
<td>J. Buck</td>
</tr>
<tr>
<td>CS 9123 LI</td>
<td>Selected Topics in CS: Applied Biometric Identification</td>
<td>(Meets Alternate Saturdays)</td>
<td>Sat.</td>
<td>9:30 a.m.– 2:30 p.m.</td>
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<tr>
<td>CS 9153 LI</td>
<td>Selected Topics in CS: Mobile Computing</td>
<td>(Meets Alternate Saturdays)</td>
<td>Sat.</td>
<td>9:30 a.m.– 2:30 p.m.</td>
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<tr>
<td>CS 9173 LI</td>
<td>Selected Topics in CS: The C# Programming Language</td>
<td>M</td>
<td>5:45 p.m.– 8:15 p.m.</td>
<td>A. Grgas</td>
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<tr>
<td>CS 5303 ONLINE</td>
<td>Introduction to Computer Science*</td>
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<tr>
<td>CS 5403 ONLINE</td>
<td>Datastructure and Algorithms*</td>
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<tr>
<td>CS 6573 ONLINE</td>
<td>Penetration Testing and Vulnerability Analysis*</td>
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<tr>
<td>CS 6803 ONLINE</td>
<td>Information Security Management*</td>
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<tr>
<td>CS 6813 ONLINE</td>
<td>Information, Privacy and Security*</td>
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<tr>
<td>CS 6963 ONLINE</td>
<td>Digital Forensics*</td>
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<tr>
<td>CS 9093 ONLINE</td>
<td>Biometrics*</td>
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<tr>
<td>EL 5023 LI</td>
<td>Wireless Information Systems Laboratory I</td>
<td>Th</td>
<td>5:45 p.m.– 10:50 p.m.</td>
<td>F. Cassara</td>
</tr>
<tr>
<td>EL 5363 LI</td>
<td>Principles of Communications Networks</td>
<td>M</td>
<td>5:45 p.m.– 8:15 p.m.</td>
<td>G. Sullivan</td>
</tr>
<tr>
<td>EL 5493 LI</td>
<td>Advanced Hardware Design (VHDL)</td>
<td>W</td>
<td>5:45 p.m.– 8:15 p.m.</td>
<td>B. Carlson</td>
</tr>
<tr>
<td>EL 6013 LI</td>
<td>Principles of Digital Communications: Modulation and Coding</td>
<td>W</td>
<td>5:45 p.m.– 8:15 p.m.</td>
<td>P. Voltz</td>
</tr>
<tr>
<td>EL 6433 LI</td>
<td>Digital Integrated Circuit Design</td>
<td>M</td>
<td>5:45 p.m.– 8:15 p.m.</td>
<td>F. Cassara</td>
</tr>
<tr>
<td>EL 6713 LI</td>
<td>Electromagnetic Theory and Applications</td>
<td>T</td>
<td>5:45 p.m.– 8:15 p.m.</td>
<td>I-Tai Lu</td>
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<tr>
<td>EL 9953 LI</td>
<td>Advance Project I</td>
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<tr>
<td>EL 997X LI</td>
<td>M.S. Thesis in EE</td>
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<tr>
<td>EL 999X LI</td>
<td>PH Dissertation in EE</td>
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<tr>
<td>EL 6005-6025 LI</td>
<td>Variable Credit Courses–Guided Studies</td>
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<tr>
<td>EL 5363 ONLINE</td>
<td>Principles of Communication Networks*</td>
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<tr>
<td>EL 5373 ONLINE</td>
<td>Internet Architecture and Protocols*</td>
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<tr>
<td>EL 5473 ONLINE</td>
<td>Introduction to VLSI*</td>
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<tr>
<td>EL 5673 ONLINE</td>
<td>Electronic Power Supplies*</td>
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<tr>
<td>EL 6013 ONLINE</td>
<td>Principles of Digital Communications: Modulation and Coding*</td>
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<tr>
<td>EL 6023 ONLINE</td>
<td>Wireless Communications: Channel Modeling and Impairment Mitigation*</td>
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<tr>
<td>EL 6033 ONLINE</td>
<td>Modern Wireless Communications: Techniques and Systems*</td>
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<td>EL 6113 ONLINE</td>
<td>Signals, Systems and Transforms*</td>
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<tr>
<td>EL 6303 ONLINE</td>
<td>Probability*</td>
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<tr>
<td>EL 6373 ONLINE</td>
<td>Local and Metropolitan Area Networks*</td>
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<tr>
<td>EL 6383 ONLINE</td>
<td>High Speed Networks*</td>
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<tr>
<td>EL 6393 ONLINE</td>
<td>Advanced Network Security*</td>
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<tr>
<td>EL 6413 ONLINE</td>
<td>Analog and High Frequency Amplifier Design*</td>
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<td>EL 6433 ONLINE</td>
<td>Digital Integrated Circuit Design*</td>
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<tr>
<td>EL 6753 ONLINE</td>
<td>UHF Propagation for Wireless Systems*</td>
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<tr>
<td>EL 7133 ONLINE</td>
<td>Digital Signal Processing*</td>
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<tr>
<td>EL 7353 ONLINE</td>
<td>Communication Networks*</td>
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<tr>
<td>EL 7373 ONLINE</td>
<td>High Performance Switches and Routers*</td>
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</tbody>
</table>

*Check the ePoly website at epoly.poly.edu for online course descriptions.

Please check the website for possible schedule changes. www.poly.edu/li
FEATURED GRADUATE PROGRAMS

MS COMPUTER SCIENCE (MSCS)

The computer science MS program is intended to develop competence in a broad range of fundamental areas including computer architecture, operating systems, data structures and algorithms and programming languages. The program allows students to explore in-depth specialized areas such as computer security, networking, distributed systems and graphics.

All students must take two courses from each of the following core areas below (18 credits)

Systems Core Area
- CS 6133 Computer Architecture I
- CS 6143 Computer Architecture II
- CS 6233 Operating Systems I
- CS 6243 Operating Systems II
- CS 6253 Distributed Systems
- CS 6813 Information, Privacy and Security
- CS 6823 Network Management and Security
- CS 6843 Computer Networks

Theory Core Area
- CS 6003 Foundations of Computer Science
- CS 6033 Design and Analysis of Algorithms I
- CS 6043 Design and Analysis of Algorithms II
- CS 6753 Theory of Computation
- CS 9173 Computational Geometry

Programming/Software Core Area
- CS 6063 Software Engineering I
- CS 6073 Software Engineering II
- CS 6083 Principles of Database Systems
- CS 6373 Programming Languages
- CS 6413 Compiler Design and Construction I
- CS 6613 Artificial Intelligence
- CS 9163 Application Security

In addition to the six core-area required courses, students are also required to take four elective courses. Only two may be taken from outside the department.

For further information regarding the Master of Science in Computer Science at NYU-Poly’s Long Island Graduate Center, contact Prof. Fred Strauss at (631) 755-4227 or by e-mail: fstrauss@poly.edu.

MSEE IN RF/MICROWAVES

Polytechnic’s commitment to cultivating the technology leaders of the future continues with the MS in electrical engineering, with a concentration in RF/microwaves. The inclusive, industry-driven program has two degree tracks: radar/antenna, or communications/RF electronics. After a series of core courses that give a foundation in circuits and engineering, students will select a concentration. Both are taught by Polytechnic’s outstanding faculty. Students will obtain both the academic fundamentals and hands-on experience to compete in an evolving job market and often move on to careers in fields such as telecommunications networks, fiber optics and robotics.

Core Courses
- EL 6113 Signals, Systems, Transforms
- EL 6303 Probability
- EL 9313 Analog and Digital Communications
- EL 5733 RF and Microwave Systems Engineering
- EL 5463 Introduction to RF/Microwave Integrated Circuits
- EL 6713 Electromagnetic Theory and Applications

Radar/Antenna Concentration
- EL 9333 Fundamentals of Radar
- EL 9343 Radar Tracking and ECM
- EL 6723 Electromagnetic Radiation and Antennas
- EL 6333 Detection and Estimation Theory (w/Applications to Array Processing)

Communications/RF Electronics Concentration
- EL 5023 Wireless Laboratory
- EL 6413 Analog Electronics
- EL 6423 RF Electronics for Wireless Applications
- EL 9323 Spread Spectrum Techniques

For further information regarding the Master of Science in Electrical Engineering in RF/Microwaves at NYU-Poly’s Long Island Graduate Center, contact Prof. Frank Cassara at (631) 755-4360 or by e-mail: cassara@rama.poly.edu.

You can apply online at www.poly.edu/ll or call the Long Island Graduate Center at (631) 755-4300 to register.
Visit our website for the most up-to-date information regarding scheduling, course descriptions, program descriptions, financial aid information and more.

www.poly.edu/li

New students can take up to nine credits before matriculating formally in a degree program. You can apply online at www.poly.edu/li or call the Long Island Graduate Center at (631) 755-4300 to register.
**EL 5363 Principles of Communication Networks**  
**Instructor:** Sullivan  

**EL 5493 Advanced Hardware Design**  
**Instructor:** Carlson  
The use of hardware description language VHDL for computer hardware modeling, logic synthesis, register-level synthesis and simulation. The resulting design with hundreds or thousands of gates is then ready to be downloaded to form FPGA chips or silicon cells. We plan to use programs such as QuickVHDL, modeling and simulation tools from Mentor Graphics or similar large-scale programs. Students will use X-Terminals in the UNIX Lab and workstations in the VLSI lab for approximately four hours per week. A design project is required, and students will make a written and oral presentation. Prereq: CS 1124, CS 2214 and EE 2024.

**EL 6013 Principles of Digital Communications: Modulation and Coding**  
**Instructor:** Voltz  

**EL 6433 Digital Integrated Circuit Design**  
**Instructor:** Cassara  
Junction and field-effect transistors as switches. Basic digital logic gates and switching circuits. Integrated circuit logic schemes and “building blocks.” Sweep circuits and switching circuits. Prereq: graduate status and EE 3124 or equivalent.

**EL 6713 Electromagnetic Theory and Applications**  
**Instructor:** T-Tai Lu  
This course introduces Maxwell’s equations, wave equation, vector potentials, boundary conditions, and Poynting vector. Time-harmonic fields and phasor approach are introduced. The properties of freely propagating plane waves in uniform and layered media are derived, as well as waves guided by structures, including various transmission lines, hollow waveguides, and dielectric waveguides. A unified treatment of wave propagation is given with general theorems and examples drawn from microwaves, integrated circuits and optics. Prereq: Graduate status and EE 3604.

**EL 5373 Online–Internet Architecture and Protocols**

**EL 5473 Online–Introduction to VLSI**

**EL 5673 Online–Electric Power Supplies**

**EL 6013 Online–Principles of Digital Communications: Modulation & Coding**

**EL 6023 Online–Wireless Communications: Channel Modeling & Impairment Mitigation**

**EL 6033 Online–Modern Wireless Communications: Techniques & Systems**

**EL 6113 Online–Signals, Systems & Transforms**

**EL 6303 Online–Probability**

**EL 6373 Online–Local and Metropolitan Area Networks**

**EL 6383 Online–High Speed Networks**

**EL 6393 Online–Advanced Network Security**

**EL 6413 Online–Analog and High Frequency Amplifier Design**

**EL 6433 Online–Digital Integrated Circuit Design**

**EL 6753 Online–UHF Propagation for Wireless Systems**

**EL 7133 Online–Digital Signal Processing**

**EL 7353 Online–Communication Networks**

**EL 7373 Online–High Performance Switches and Routers**

**Technology Management (3 credits)**

**MG 6093 Managerial Accounting and Finance**  
**Instructor:** Cortegiano  
Elements of accounting and finance of importance to managers. Analysis of principles and practices of the finance function. Financing methods for internal and external ventures and innovations; capital budgeting; R&D portfolio analysis. Contrast of strategic perspectives emphasizing innovation and development with those emphasizing short-term return and investment.

**MG 6143 Conflict Management**  
**Instructor:**  
Investigation of the nature and meaning of conflict in professional and technical organizations as well as in society. Analysis of the design of conflict avoidance and mitigation programs. Alternative dispute resolution modalities are presented and demonstrated. Skill building around collaborative conflict resolution.

**MG 6503 Management of Information and Information Technology**  
**Instructor:**  
This course is designed for managers who need to understand the role and potential contribution of information technologies in organizations. The focus of the course is on different information technologies and their applications in managing business critical data, information and knowledge. The course concentrates on the current state of IT in organizations, challenges and strategic use of IT, IT infrastructure and architecture, building, implementing and managing IT applications, and emerging issues such as intelligent systems, business process re-engineering, knowledge management and group support systems.

**MG 6543 Economics and Strategy for Information Sectors**  
**Instructor:** Lubell  
This course in applied competitive strategy draws upon recent experiences in the impact of information technology upon diverse industries. Students completing this course will have mastered a basic understanding of the economic and competitive implications of information technology. This competence in analysis is arrived at through understanding how availability of information (through technology or otherwise) affects the basic strategic options available and how firms and industries are likely to be affected. In addition, students will be introduced to the often poorly structured process of evaluating the economics of potential systems innovations. They will then be able to participate in strategic systems planning from a managerial point of view.

**MG 7503 Management of Electronic Business**  
**Instructor:** Jelen  
Investigates the management implications of electronic business. Topics include: (1) accelerated new product development; (2) impact of technology on the value chain: the changing role of intermediaries; (3) electronic commerce: business models and strategies for survival general lifestyle; (4) implications of “being wired”; and (5) business applications involving collaborative communication, computation and teamwork. Course material is designed to be dynamic and Internet-based, reflecting the nature of change in electronic commerce and the IT industry, and the potential implications of electronic business for managers. Students work on a project that requires: following developments in the business and IT press, interviewing managers and product developers and simultaneously testing and discussing current developments in the e-commerce marketplace. Classes are conducted using the case method, and a high level of class participation is expected.

**ONLINE COURSES:**  
Visit epoly.poly.edu for course descriptions.

**MG 6124 Online–Human Resource Management**

**MG 6173 Online–Performance Measurement and Reward Systems**

**MG 6223 Online–Staffing in Organizations**

**MG 6233 Online–Training in Organizations**

**MG 6333 Online–Research Methods**

**MG 6283 Online–Web-based Human Resource Management**

Specialized concentrations in the MS in Management degree program:

- Construction Management
- Electronic Business
- Entrepreneurship
- Human Resources Management
- Information and Telecommunications Management
- Project Management
- Technology Management

New students can take up to nine credits before matriculating formally in a degree program. You can apply online at www.poly.edu/li or call the Long Island Graduate Center at (631) 755-4300 to register.
NYU-POLY LONG ISLAND GRADUATE CENTER

GRADUATE PROGRAMS

- Take a single course, an advanced certificate or a complete degree.
- Learn and apply the latest technologies in our electrical and computer engineering programs.
- Join the convergence of technology and business in our Master of Science in Management programs.
- Learn to design advanced solutions for information technology in our computer science and software engineering programs.
- Courses are now being offered online. Visit epoly.poly.edu for more information and to register.

JOIN US FOR A GRADUATE INFORMATION SESSION
TUESDAY, DECEMBER 9, 2008, 6 to 8 p.m.

GRADUATE INFORMATION, ENROLLMENT & REGISTRATION
TUESDAY, JANUARY 13, 2009, 6 to 8 p.m.
105 Maxess Road, Suite N201, Melville, New York 11747
(631) 755-4300 • WWW.POLY.EDU/LI

FEATURED GRADUATE PROGRAM

MS IN MANAGEMENT (MSM)

“...I am pleased to say the MS in management program delivers on all levels. It provides a modern management framework with a strong technological focus. It was the perfect fit for my goals, and the part-time evening format perfectly accommodated my busy lifestyle—balancing work, family and study.”

Tom Sherman, MSM ’04
Marketing Manager, MCI

Our MSM program focuses on technology, innovation and information management—key factors to survive these turbulent times and thrive in this economy. The MSM program is geared towards forward-thinking, technology-focused managers regardless of field or career level. Whether you have recently completed an undergraduate degree, been a longtime working professional, or are re-entering the workforce, the MSM program’s concentration areas provide flexibility and a wide range of avenues in our increasingly knowledge-based economy. We invite you to apply to our valuable master’s degree program to accelerate your professional and intellectual development and to join the most prestigious technology-based University in the tri-state metropolitan region.

Areas of Concentration
- Construction Management
- Electronic Business
- Entrepreneurship
- Human Resources Management
- Information and Telecommunications Management
- Project Management
- Technology Management

Core Courses
The core courses provide a management base upon which students can build a variety of specializations within the degree program.

These courses provide intensive introductions to the several disciplines required of professional managers. Students who have taken these courses elsewhere or previously at NYU-Poly, or who have had equivalent experience, may substitute elective courses for such core courses.

Core Requirements
MG 6013 Organizational Behavior
MG 6073 Marketing
MG 6083 Managerial Economics
MG 6093 Managerial Accounting and Finance
MG 6503 Management of Information and Information Technology
MG 8673 Technology Strategy

In addition to the core-area requirements, students are required to take appropriate concentration courses chosen with the adviser’s consent.

For further information regarding the Master of Science in Management program at NYU-Poly’s Long Island Graduate Center, contact Eve Henderson at (631) 755-4444 or by e-mail: ehenders@poly.edu.

New students can take up to nine credits before matriculating formally in a degree program.
You can apply online at www.poly.edu/li or call the Long Island Graduate Center at (631) 755-4300 to register.