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INTRODUCTION

The 2004–2005 academic year brings substantial improvement to NTU's academic systems and student services. As a result, this bulletin is substantially different than the 2003–2004 bulletin. A Web page (www.ntu.edu/transitions) has been created to explain these changes in more detail. Here are some of the highlights:

- **New academic infrastructure**—Substantial academic infrastructure has been added to support students and the curricula. New NTU positions have been created and filled, including academic directors, instructional associates, and an advising coordinator.
- **New Learning Management System (LMS)**—This is a new way of taking NTU courses. The system allows NTU to offer courses more frequently on a reliable schedule and provides a better way to ensure course quality. The most obvious indications of the LMS are the utilization of the eCollege course management system for all new courses and the presence of an instructional associate to support both students and faculty, ensuring a satisfactory learning experience. Eventually, all NTU course offerings will be converted to use the LMS.
- **Curricula**—Curricula revisions are planned that represent what NTU believes students actually want and need—based on past enrollments, Program of Study Plans, judgment of department faculty, and the implementation of the new academic model/Learning Management System.
- **Advising changes**—An advising coordinator, backed by the NTU academic staff mentioned above, assists students in negotiating these changes to help minimize the impact on their study programs.

If you have questions, comments, or suggestions, please email them to provost@ntu.edu.

National Technological University

Academic Calendar

NTU courses are delivered asynchronously online and/or using a variety of media within defined terms. NTU-originated courses run on a multiterm, multistart basis, up to six terms per year. Courses that originate from partner universities are scheduled based on the academic calendars of those universities. Please refer to the NTU Web site, www.ntu.edu, for information on the current academic calendar.

Master's Degree Programs

- Master of Business Administration (MBA)
- MS in Computer Engineering
- MS in Computer Science
- MS in Electrical Engineering
 - Communications
 - Control Theory*
 - Electromagnetics*
 - Integrated Circuits
 - Power Systems*
- MS in Engineering Management
- MS in Manufacturing Systems Engineering*
- MS in Mechanical Engineering*
- MS in Microelectronics and Semiconductor Engineering*
- MS in Software Engineering
- MS in Systems Engineering
- MS (Special Majors)*

**Not currently accepting applications for admission to this program, while the curriculum is under review.*

Vision

Enabling working professionals to share premier educational resources globally via technology.

Mission

The National Technological University mission is to:

- Serve the advanced educational needs of graduate engineers, technical professionals and managers with relevant credit courses, master's degree programs and professional development.
- Award degrees at the master's level and credit-based graduate certificates.
- Explore, develop and use advanced educational and delivery technologies to deliver instructional programs to students at their employment locations or any place at which they elect to pursue their education.
- Provide excellent student support, advising and service.
- Provide an infrastructure linking technical professionals and managers nationally and internationally in research seminars, technology transfer activities and related technical exchanges.

Purpose

National Technological University shares with all universities these responsibilities: to enhance and extend knowledge, to transmit the intellectual content of the culture, and to educate people to think critically. As an institution dedicated to academic excellence and increased access to advanced education within an information society, NTU has the central purpose of enhancing national well-being by ensuring an appropriate supply of human resources to meet the technological and economic challenges of the future. In addition, as part of Laureate's (formerly Sylvan's) Online Higher Education division, NTU has adopted an international perspective, realized by extending the reach of NTU's programs to international sites across the globe.

NTU's educational programs, therefore, focus on engineering disciplines, information technology, management, and other fields deemed important to the development and maintenance of appropriate technology and management. The variety of academic offerings and experiences reflects the rapidly changing needs of a technological society, the aspirations of the students, the expertise of the participating faculty, the curricular requirements of the selected programs of study, and the results of research and development. Responsibility for achieving NTU's fundamental purpose rests with the community of scholars that constitute NTU. The university, in conjunction with its partner institutions and organizations, provides the services, environment, materials, and facilities necessary to

enable the faculty and students to discover, examine critically, disseminate, apply, and preserve the knowledge and wisdom essential to the enhancement of the quality of life for present and future generations. To these ends, NTU has identified and articulated four goals to provide a frame of reference for the university community.

Goals

1. Discovery of Knowledge

The university depends upon faculty drawn from accredited doctoral-level institutions to engage and prepare students for scholarly endeavors, creative activities, and basic and applied research. Because of its unique mission in an information, knowledge-intensive, technological society, the university encourages and fosters research and development of educational and delivery technology.

2. Dissemination of Knowledge

The university relies upon the most advanced pedagogical and technological methods to provide quality learning experiences for students at their work locations or wherever else they elect to take their courses. Students are expected to synthesize the delivered knowledge, think critically, communicate effectively, and use knowledge and technology intelligently and responsibly both to improve society and to participate creatively within society.

3. Application of Knowledge

The university accepts and acts upon the responsibility to serve the needs of an increasingly technological world. It is developing and applying both new and tested knowledge and technology to identified challenges. It is also providing the leadership required to implement educational innovation.

4. Preservation of Knowledge

The university recognizes and acts upon the responsibility to preserve and transmit the heritage of intellectual culture and knowledge to its students. It strives to develop the technology appropriate to those ends.

Objectives

In pursuit of its goals, the following objectives facilitate the university's planning and implementation processes. These objectives suggest the standards for evaluation of the university's programs and activities.

1. Learning

- To encourage and foster the development of innovative pedagogical and technological methods to enhance learning achievement.

- To offer relevant content from leading faculty to enhance the skills and knowledge of working engineers and technical professionals.

2. Student Support

- To provide excellent support services that enable students to be successful in their pursuit of educational goals.
- To select faculty with reputations for outstanding performance as teachers and scholars.

3. Organization and Administration

- To maintain a supportive organization and an administrative structure that rest firmly upon participatory management of academic programs.

4. Evaluation

- To continually evaluate programs and services to ensure continuous improvement and progress toward achieving institutional goals.

History

National Technological University was founded in 1984 as the first accredited "virtual" university. Lionel Baldwin, then dean of engineering at Colorado State University, foresaw how advanced technology could be used to offer engineering professionals the highest level of academic continuing education. With the support of major technology companies such as IBM, Motorola, and Hewlett-Packard, NTU was formed to deliver academic courses via a unique satellite network directly to corporations' training facilities. In 1984, NTU began offering degree programs using courses supplied by seven universities. Today NTU offers several master's degree programs with courses supplied through a consortium of U.S. universities. Courses are delivered online and via CD-ROM, DVD, and videotape.

In 2003, the Online Higher Education division of Sylvan Learning Systems, Inc., assumed control of NTU with a commitment to strengthen and expand the educational mission of National Technological University. In May 2004, Sylvan renewed its commitment to focusing solely on higher education and changed its name to Laureate Education, Inc. With the financial backing of Laureate Education, which provides a superior university experience to nearly 130,000 students through an international network of accredited online and campus-based universities, NTU is charting a new course of growth with a renewed determination to provide exceptional academic and professional development to working professionals.

Nondiscrimination Policy

National Technological University supports the provisions and the intent of the applicable state and federal statutes and regulations. Equal opportunity for employment and admission is extended to all qualified persons.

The university does not discriminate in admissions, program participation, or employment on the basis of race, age, color, religion, national origin, gender, sexual orientation, disability, veteran status, or other legally protected characterization. A student or university employee who believes they have been subject to any such discriminatory acts should report them to Provost, National Technological University, 155 Fifth Ave. S., Suite 600, Minneapolis, MN 55401; 612-312-1296.

Licensure

Colorado

National Technological University is an out-of-state accredited institution authorized to deliver courses and programs in Colorado. Inquiries concerning the standards or school compliance may be directed to the Colorado Commission on Higher Education at 1380 Lawrence St., Suite 1200, Denver, CO 80204.

Minnesota

National Technological University is licensed by the State of Minnesota. Inquiries concerning the standards or school compliance may be directed to the Minnesota Higher Education Services Office, 1450 Energy Park Dr., Suite 350, St. Paul, MN 55108.

Oregon

National Technological University is authorized by the State of Oregon to offer and confer the academic degrees described herein, following a determination that state academic standards will be satisfied under OAR 583-30. Inquiries concerning the standards or school compliance may be directed to the Oregon Office of Degree Authorization at 1500 Valley River Dr., #100, Eugene, OR 97401

Academic Organization

To conduct its academic functions, National Technological University uses the expertise of outstanding faculty from accredited doctoral-level higher learning institutions. These individuals are organized by program to form graduate faculty committees. The NTU chief academic officer appoints the chair of each program. Extensive use is made of the NTU annual meeting, electronic mail, computer conferences, and teleconferences

to carry out committee activities. An NTU academic director and the chair of each program establish the committees needed to ensure program quality.

Each curriculum is under continual evaluation. Courses are carefully reviewed by the appropriate curriculum committees before being recommended to the Academic Policy Advisory Committee and provost for inclusion in NTU's offerings.

Each matriculated student in an NTU degree program is assigned an academic advisor who may call on the general academic staff and consulting faculty from accredited doctoral-level universities to provide additional student advice. Advisors have access to student records through an interactive, computer-based record system maintained by NTU. Non-matriculated students may seek advice from the program chairs or the academic directors. Academic policies governing admissions, continuation, and graduation are set by the Academic Policy Advisory Committee and implemented by the NTU academic offices.

The Academic Policy Advisory Committee considers and makes recommendations on academic affairs to the provost/chief academic officer, president, and the NTU Board of Directors. The academic organization follows NCA accreditation criteria by providing participants in the NTU academic governance structure both the freedom and the responsibility to make specific recommendations regarding the development and maintenance of outstanding programs of study in advanced subjects of importance to engineers, technical professionals, and managers.

Board of Directors

National Technological University's Board of Directors includes industry representatives, alumni, members from partner universities, and members of the public at large. Individuals serving as directors are listed in the University Administration section of this bulletin. The board delegates authority to NTU administrators and governance committees to recommend academic policies and manage the university within the framework of approved policies and procedures. To communicate with the Board of Directors, send an email to provost@ntu.edu.

Delivery System and Facilities

NTU's corporate offices are located in Baltimore, Md.; its academic offices are located in Minneapolis, Minn.; and its information technology support operations are located in Los Angeles, Calif. Faculty may be located on the campuses of partner or nonpartner universities, and students are located at their work sites, homes, or other locations. Students receive instructional programs via

the Internet, telecommunications equipment, and other computer technologies.

The mission of the NTU delivery strategy is to increase accessibility by utilizing multiple distance-learning technologies to enrich the learning experience and respond to the varying needs of students. NTU delivers its programs using a wide range of delivery systems, including the Internet, VHS videotape, CD-ROM, video CD, and DVD.

Many courses are offered online directly from partner universities. These courses may employ streaming video, audio-over-slide presentations, and other technologies as part of the course delivery. A number of universities provide lectures on CD-ROM. Videotapes are also available for many courses. Course formats are identified in the *Class Schedule* each term and online at www.ntu.edu.

Most students communicate with other students and instructors using electronic means such as email, threaded discussions, and chat rooms. Traditional methods of communication include telephone, fax, mail, and express mail. All students can participate and interact with students at other sites. Many NTU students make use of instructional services provided by sponsoring organizations, including classrooms, computers, laboratories, telecommunications and other equipment, and educational personnel. Finally, institutional and organizational libraries, combined with online and public/academic libraries in areas where students are located, provide learning materials.

University Representation

NTU's reputation is built on partnerships with renowned universities and professors across the country. NTU offers courses produced directly by partnering universities, and NTU produces courses of its own, employing faculty from an even wider array of institutions. The universities represented by NTU faculty include the following:

Arizona State University
Boston University
Columbia University in the City of New York
Florida Gulf Coast University
George Mason University
Georgia Southern University
Iowa State University
Kansas State University
Lehigh University
Massachusetts Institute of Technology
Michigan State University
Michigan Technological University
New Jersey Institute of Technology
Northeastern University

North Carolina State University
Ohio State University, The
Oklahoma State University
Purdue University
Southern Methodist University
Washington and Lee University
University of Alabama in Huntsville, The
University of Arizona, The
University of Arkansas
University of California, Berkeley
University of California, Los Angeles
University of Central Florida
University of Colorado at Boulder
University of Delaware
University of Florida
University of Idaho
University of Iowa
University of Illinois at Urbana–Champaign
University of Massachusetts Amherst
University of Minnesota
University of Nebraska–Lincoln
University of New Mexico, The
University of South Carolina
University of Tennessee, The
University of Texas, The
University of Virginia
University of Washington
University of Wisconsin

NTU contracts with these and other institutions and faculty to develop additional curricula and courses as demand warrants. A list of partner universities can be found in the Transfer Credit section of this bulletin.

The *Class Schedule* for each term, which is on the NTU Web site (www.ntu.edu), contains additions or corrections to this bulletin as new courses are approved.

Accreditation

National Technological University is accredited by the Higher Learning Commission and is a member of the North Central Association, 30 N. LaSalle St., Suite 2400, Chicago, IL 60602; 312-263-0456.

Each partner university offering instruction in engineering subjects has undergraduate programs accredited by the Accreditation Board for Engineering and Technology (ABET) or its national equivalent. The specific programs for each participating school may be found in the current ABET annual report.