TECHNOLOGY AND INNOVATION PROGRAM

A ten-week intensive program providing a comprehensive review of the disciplines required to manage the ongoing innovation and rapidly changing technology in today's business environment and strategies to assure sound decision-making for business in an interconnected world.

With the dramatic acceleration of technological change and innovation in the U.S. (and the world) over the past three decades, it has been difficult for businesses to keep pace. In an era of innovation and constantly changing and evolving technology, IT managers are expected to understand more than ever when it comes to decision-making. The goal of the Technology and Innovation Program is to provide an understanding of the key disciplines involved in the practical management of technology and innovation for business.

At the conclusion of this program, the successful student should have an appreciation of the information technology industry, in general, and the pertinent aspects of managing technology and innovation and strategic decision-making to benefit one’s business, in particular. The student should be able to apply the knowledge gained in the program to "real world" business situations, recognizing that information technology (in all its forms, i.e., data, voice, image, text, graphics) is a critical and viable business tool that can be managed effectively in an interconnected world and in this era of innovation. The program is ideally suited for IT professionals, technology managers, project managers and others who are responsible for the planning or implementation of new technologies.

Program content will consist of instructor-led lecture/discussions, reading materials, homework assignments (in the form of online quizzes), a mid-term and final exam.

SUCCESSFUL STUDENTS IN THIS PROGRAM WILL BE ABLE TO:

- Understand How Technology is Used as an External Business Force
- Understand the Impact of Regulation and Competition on Technological Advancement
- Understand the Importance of Decision-Making in the New Environment
- Understand the Application of Technology in the Corporate Environment
- Understand How to Manage Security and Risk
- Understand IT/Telecom Technology from a Global Business Perspective
- Understand the Value of Ongoing Management in a Changing Environment
TECHNOLOGY AND INNOVATION PROGRAM

Over the past thirty years we have gone from thinking the data world as we know it was coming to an end (Y2K anyone?) to a world where data has grown disproportionately with our ability to safely and practically manage it. There is an entirely new lexicon for managers of IT and many of us are a little overwhelmed by the breadth and proliferation technology and the associated terminology. Couple that with the ever-expanding demands placed on management to provide near-universal access, mobility, and unlimited data capacity in a globally-connected world and the challenge becomes daunting at best and career-ending if not managed correctly. With these challenges in mind, DePaul University’s Institute for Professional Development has designed a program to address many of these issues, with a practical approach to understand the issues confronting managers today, deconstructing the terminology, and providing sound techniques for managing in an interconnected world.

CURRICULUM

This program is lecture oriented, but student participation is encouraged and expected. The course is intended and designed to involve the student's participation in each class.

TECHNOLOGY AS AN EXTERNAL BUSINESS FORCE

IMPACT OF REGULATION AND COMPETITION ON TECHNOLOGICAL ADVANCEMENT

DECISION-MAKING IN THE NEW ENVIRONMENT

TECHNOLOGY IN THE CORPORATE ENVIRONMENT

SECURITY AND RISK

TECHNOLOGY FROM A GLOBAL BUSINESS PERSPECTIVE
Global communications access. Designing, implementing and maintaining global communications networks. Key players in the global communications market place.
ONGOING MANAGEMENT ISSUES

Day-to-day operational management of the technological environment. Intelligent management of your assets and resources, including vendors and consultants. Future planning. Budgeting. Staffing. Skills to position you with upper level management.

GENERAL INFORMATION

ADMISSION

Professional work experience in the administration, support or management of information technology services is recommended. Acceptance into the program will be determined by the admissions committee on the basis of an applicant's overall qualifications, including work history and educational background.

A substantial commitment of time is required for this intensive course of study. Students must attend a three-hour lecture per week, in addition to completing text readings, written homework assignments (in the form of online quizzes) and completing mid-term and final exams.

The purpose of the online quizzes which will be given at specific intervals through the course is to reinforce concepts learned. The intent of the exams is to assure that the student has a firm grasp of the concepts presented throughout the duration of the course.

FACILITIES

To promote the learning process, the Institute maintains special-purpose laboratories as well as dedicated classrooms equipped with state-of-the-art audio/visual equipment.

In addition, the college’s unique Course OnLine (COL) technology allows students to replay classes over the Internet. COL captures and replays five components of the classroom experience—audio, video, PC screen, whiteboard, and document camera input—and incorporates them into one interface to provide an innovative rebroadcast system.

SCHEDULE

The Institute offers one section of the program each quarter. Classes meet one day per week.

FACULTY

The program is taught by James Heatherly, MBA. Mr. Heatherly has been an adjunct lecturer at DePaul for many years, and has experience teaching undergraduate and graduate coursework, as well as IPD programs since the Institute was founded. He has taught graduate courses in Telecommunications Management, Telecom Law and Telecom Economics. Mr. Heatherly will be available throughout the program.
The college, through its School of Cinematic Arts, School of Computing, and its School of Design, offers a variety of programs at the undergraduate and graduate levels. Almost 4,000 students are enrolled in the college’s bachelor’s programs and more than 2,000 students are enrolled in the master's and Ph.D. programs making the college’s graduate program one of the largest in the country. The college offers more than 400 courses each quarter, many in the evening, and primarily in the Loop and Lincoln Park Campuses. Most of the degree programs are also available exclusively online.

**Offerings at the undergraduate level include:**
- Animation B.A. / B.F.A.
- Computing B.A.
- Computer Science B.S.
- Cyber-Physical Systems Engineering B.S.
- Cybersecurity B.S.
- Data Science B.S.
- Film and Television B.A. / B.F.A.
- Game Design B.S.
- Game Programming B.S.
- Graphic Design B.F.A.
- Industrial Design M.F.A.
- Information Systems B.S.
- Information Technology B.S.
- Math and Computer Science B.S.
- Network Engineering and Security B.S.
- User Experience Design B.S.

**Offerings at the graduate level include:**
- Animation M.A.
- Business Information Technology M.S.
- Computational Finance M.S.
- Computer Science M.S.
- Cybersecurity M.S.
- Data Science M.S.
- Digital Communication and Media Arts M.A.
- Experience Design M.A.
- Film and Television M.S.
- Game Programming M.S.
- Health Informatics M.S.
- Human-Computer Interaction M.S.
- Information Systems M.S.
- Network Engineering and Security M.S.
- Software Engineering M.S.
- J.D./M.S. in Computer Science Technology
- Master’s of Fine Arts
  - Animation
  - Creative Producing
  - Documentary
  - Film and Television Directing
  - Game Design
  - Screenwriting
- Ph.D. in Computer and Information Sciences
- Ph.D. in Human Centered Design

**INSTITUTE FOR PROFESSIONAL DEVELOPMENT**

The Institute for Professional Development was formed by the college in 1984 to assist both individuals and businesses in keeping pace with the rapid development of computer technologies. The Institute currently offers a variety of intensive certificate programs in these areas:

- Advanced Python
- Advanced SQL
- Artificial Intelligence for Enterprise
- Automated Software Testing
- Big Data and NoSQL
- Big Data Using Hadoop
- Big Data Using Spark
- Cloud Computing Technologies
- Cybersecurity Risk Management
- DevOps
- Data Analytics with Excel and Tableau
- Data Science for Business
- Data Science: Programming with Python
- Fundamentals of Statistics and Machine Learning Using R
- Fundamentals of R
- Incident Response and Digital Forensics
- Introduction to SQL
- iOS Developer
- Modern Information Technology
- Machine Learning and Deep Learning
- Modern .NET Web Development
- SQL Server® Business Intelligence
- SQL Server® Database Administration
- Technology and Innovation
- Web Development with JavaScript and HTML5

**APPLICATION PROCEDURE:**

Complete the enclosed application and return it with a non-refundable $40.00 application fee (check or money order made payable to DEPAUL UNIVERSITY) to:

DePaul University
Institute for Professional Development
243 S. Wabash Avenue, Room 301
Chicago, IL 60604-2300