MASTER OF SCIENCE IN INFORMATION TECHNOLOGY

BUILD THE SPECIALIZED IT EXPERTISE TO ADVANCE YOUR CAREER
Businesses and organizations of all kinds require IT leaders whose expertise goes far beyond foundational skills in information technology. The online Master of Science in Information Technology at Purdue University Global is designed to help working professionals make the connection between IT, communications, and business so you can develop marketable technical, creative, and managerial skills to help advance your career.
Why Study Technology at Purdue Global?

EXCELTRACK™ ONLINE DEGREE OPTION
Complete your degree faster and more affordably with our ExcelTrack™ master’s in information technology program.¹

ONLINE FLEXIBILITY FOR WORKING ADULTS
Earn your degree 100% online, while meeting the demands of your career. You can also visit one of our regional locations to take advantage of local, onsite support and services.

HANDS-ON LEARNING
Gain tangible experience through learning labs that simulate real-world, on-the-job situations. This also helps you build a portfolio of diverse learning skills.

FACULTY EXPERTISE
Learn from practicing professionals with extensive experience in IT and higher education. All faculty members possess advanced academic degrees and many hold industry certifications, have significant industry experience, contribute to academic journals, and present at conferences.

ONE-ON-ONE MENTORING
Work directly with faculty during online discussion boards and faculty office hours, and enjoy no-cost individual tutoring. In addition, academic and career advisors are dedicated to helping you balance school with your work, family, and community responsibilities.

NATIONALLY RANKED AND RESPECTED
Purdue Global is part of the respected Purdue University system. One of the most prestigious research universities in the world, Purdue University is ranked in the top 10 best public universities in the U.S. by The Wall Street Journal/Times Higher Education.²

Program Outcomes Support Your Career Growth

BUILD THE CORE IT SKILLS AND COMPETENCIES THAT EMPLOYERS DEMAND

- IT leadership
- Systems analysis and design
- Information system security
- Project management
- Ethical practices

EXPAND YOUR OPPORTUNITIES

- Decision analysis
- Critical thinking
- Business aptitude
- Collaboration skills
- Communication abilities

Graduates may use their expertise to pursue a career as a consultant, start a technology services business, or apply for leadership positions where they can manage complex technology demands.²
CONCENTRATION AREAS

Customize your degree plan to develop specialized expertise in your chosen career path. We offer several concentrations aligned to current industry demands.

Critical Infrastructure Security
Study the implementation of protective procedures such as firewalls, network detection and response (NDR), and endpoint detection and response (EDR), and learn how to defend critical infrastructure including systems, networks, and assets.

Enterprise Architecture Systems
Study key IT systems relevant to corporate enterprise networks, and develop a deep understanding of the structure and operation of organizations to determine how to effectively achieve current and future objectives.

Blockchain Technologies and Apps
Study essential blockchain and smart contract technologies that serve as the foundation for Web 3.0, the next generation of internet, and gain the specialized skills you need to develop decentralized applications (dApps).

Project Management
Focus on every phase of the project life cycle using current software to achieve goals and objectives. Learn to control project cost and scheduling, analyze project risk and quality, and consider legal and ethical issues.

Amazon Web Services (AWS) Cloud Technologies
Explore cloud computing, critical infrastructure security, enterprise architecture systems, blockchain technologies and apps, architecting, and AWS core services. Examine the fundamentals of AWS infrastructure, service options, and best practices in the AWS Cloud.

Secure Software Development and Quality Assurance
Examine secure software development and design concepts. Apply best practices for coding, software testing, and implementation processes.

Data Analytics
Explore statistical methods for data analytics and employ appropriate data analytics concepts and tools. Apply foundational programming concepts in an analytics setting.

Cybersecurity
Explore fundamentals such as viruses, worms, and other malicious software, as well as more high-level aspects of IT security such as network defense, ethical hacking, and computer forensics.

Note: The project management concentration is not available in the ExcelTrack™ program.
Our rigorous curriculum prepares you for a variety of IT leadership roles. All courses are reviewed by our dedicated curriculum department and advisory board to ensure they reflect the most recent developments in the field.

**CORE IT COURSES**
- Managing Information Technology in a Business Environment
- System Analysis and Design
- Information Systems Project Management
- Writing and Critical Thinking for the IT Professional
- Database Design and Data Modeling
- SQL Query Design
- Computer Networks
- Management of Information Security
- Legal and Ethical Issues in IT
- Internship or Capstone

**PROGRAM DETAIL**
- **Credit Hours:** 60
- **Program Length:**
  - **Standard Online:** Less than 2 years of full-time study
  - **ExcelTrack™:** Self-paced to help you graduate sooner
- **Course Load:**
  - **Traditional:** 1–2 courses per term
  - **ExcelTrack™:** As many as you can complete with a “B” or higher on your final assessment
- **Terms:** 6 weeks long
- **Start Dates:** Throughout the year
- **Delivery:** 100% online

**EXCELTRACK™: A FASTER AND MORE AFFORDABLE WAY TO EARN YOUR DEGREE**
In addition to our standard online program, we offer ExcelTrack™, which is a personalized, competency-based option that gives you more control over how you learn. Each ExcelTrack™ online course is a single credit, covering a particular skill or piece of knowledge, allowing you to bypass any subjects you already know. This option enables students who have at least 3 years of work experience to earn their master’s degree sooner, at a lower cost.

**ADDITIONAL PROGRAMS**
- Master of Business Administration
- Master of Science in Cybersecurity Management
- Master of Science in Management and Leadership
Career And Networking Opportunities

INDUSTRY OUTLOOK

- Employment of computer and information technology systems managers is projected to grow faster than the average for all occupations from 2019 to 2029.
- The U.S. will need more than 530,000 additional IT professionals by 2029.
- Demand for computer and information systems managers will grow as firms increasingly expand their business to digital platforms and organizations seek qualified executives with an advanced degree to lead and direct their teams.

CAREER PATHWAYS AND OUTCOMES

Roles
- Computer and information systems manager
- Information security analyst/manager/specialist
- Network and computer systems administrator
- Computer network architect/manager
- Data warehousing specialist
- Database administrator/manager
- IT project manager
- Technical director/manager

Settings/Industries
- Computer services
- Finance
- Education
- Health care
- Science
- Law
- Communication
- Government

CENTER FOR CAREER ADVANCEMENT

Our IT Career Specialists connect students with job and networking opportunities and offer the following assistance:
- Career assessment/exploration
- Resume and cover letter review
- Interview preparation/mock interviews
- Portfolio development to showcase your skills
- Assistance in building an online presence
- Job search and networking support
- Virtual career fairs
- 24/7 online access to job openings and career development tools

STUDENT ORGANIZATIONS AND HONOR SOCIETIES

- Association for Computing Machinery (ACM) and ACM Women in Computing
- Graduation Information Technology Association (GITA)
- Cybersecurity Club
- Cloud Club

Purdue Global Is Accredited by the Higher Learning Commission
The HLC (HLCommission.org) is a regional accreditation agency recognized by the U.S. Department of Education.

Military Friendly
We offer reduced tuition rates for servicemembers, veterans, and spouses.

Contact an Admissions Advisor at 844-PURDUE-G or visit PurdueGlobal.edu.