


BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

The  icon appears in the title of traditional courses that are also available as a set of module courses.

Description and Outcomes

The objective of the Bachelor of Science in Information Technology program is to help you prepare for career advancement in the information technology field by providing the technical knowledge, and communication, critical thinking, and creative skills relevant to the modern workplace. The degree program is designed to help you develop a working knowledge of information technology (IT) concepts, tools, and methods as well as the leading-edge technologies needed to design information systems. In addition, courses teach you how to apply technical competencies to solve business problems. Whether your immediate educational goals are satisfied by the completion of a bachelor's degree or you are planning to pursue study in the information technology field beyond the baccalaureate level, this degree program may be for you.

The following program educational objectives are approved by information technology faculty and the Advisory Board:

- Our graduates will be able to evaluate and apply current IT best practices when solving real-world problems in complex IT environments.
- Our graduates will be able to demonstrate their ability to work within diverse teams, and to use effective written and oral communication skills when analyzing and designing IT solutions.
- Our graduates will be able to assess the impact of information technology on business processes and apply effective and ethically sound solutions locally and globally.

This program is available in ExcelTrack. Speak with your University representative for any limitations. For more information on ExcelTrack, see Learning Paths in the Approach to Learning (<https://catalog.purdueglobal.edu/policy-information/university-information/approach-to-learning/>) section of the Catalog.

Concentrations

You can personalize your degree in IT by focusing electives on a particular concentration. Concentrations generally consist of three or more courses and allow you to concentrate on your individual career interests. When enrolling in the Bachelor of Science in Information Technology, you must select from the following concentrations: game development, IT management, network administration, information security and assurance, programming and software development, or supply chain management and logistics.

Accelerated Master's Degree Options

If you are interested in earning both a bachelor's degree and a master's degree, consider the accelerated options for either the Master of Science in Information Technology or Master of Science in Cybersecurity Management. Refer to Progression Requirements (<https://catalog.purdueglobal.edu/undergraduate/business-information-technology/>) for details.

Program Length

The Bachelor of Science in Information Technology program consists of a minimum of 180 quarter credit hours. Upon successful completion of the program, you will be awarded a bachelor of science degree.

Program Outcomes

Discipline-Specific Outcomes

1. Technology Skills: Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.
2. System Specifications: Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Professional Communication: Communicate effectively in a variety of professional contexts.
4. Professional Development: Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Team Management: Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Client Specifications: Use systemic approaches to select, develop, apply, integrate, and administer secure computing technologies to accomplish user goals.

General Education Literacies and Professional Competencies

In addition to the discipline-specific outcomes, general education literacies and professional competencies are integrated throughout your academic program. You can review the general education literacies and professional competencies associated with your academic program in the General Education and Professional Competency Requirements (<https://catalog.purdueglobal.edu/undergraduate/general-education-professional-competency-requirements/>) section of this Catalog.

Program Availability

For program availability, please refer to the U.S. State and Other Approvals (<https://catalog.purdueglobal.edu/policy-information/university-information/accreditation-approvals-memberships/>) section and Program Availability Information (<https://www.purdueglobal.edu/catalog-program-availability-info.pdf>).

Policies

Please refer to school-specific policies (<https://catalog.purdueglobal.edu/undergraduate/business-information-technology/>) and the Policy Information (<https://catalog.purdueglobal.edu/policy-information/>) section for general Purdue Global policies.

Admissions Requirements

Upon enrollment in the Bachelor of Science in Information Technology, you are required to select a concentration.

Certification, State Board, and National Board Exams


Certain state certification and licensure boards have specific educational requirements for programs to lead to a license or certification that is a precondition for employment in a recognized occupation. Prospective and current students must review Purdue Global's State Licensure and Certifications (<https://www.purdueglobal.edu/about/accreditation/>)

licensure-state-authorizations/) site to view program and state-specific licensure information.

















Unless otherwise specified, Purdue Global's programs are not designed to meet any specific state's licensure or certification requirements. Licensure-track programs may limit enrollment to students in certain states; please see Purdue Global's Program Availability Information (<https://www.purdueglobal.edu/catalog-program-availability-info.pdf>) to determine enrollment eligibility.






You are responsible for understanding the requirements of optional certification exams. Such requirements may change during the course of your program. You are not automatically certified in any way upon program completion. Although certain programs are designed to prepare you to take various optional certification exams, Purdue Global cannot guarantee you will be eligible to take these exams or become certified. Your eligibility may depend on your work experience, completion of education and/or degree requirements, not having a criminal record, and meeting other certification requirements.

Degree Plan

The  icon appears in the title of traditional courses that are also available as a set of module courses. Module course availability may be limited to certain academic calendars. See Course Types (<https://catalog.purdueglobal.edu/policy-information/university-information/approach-to-learning/>) for information about module courses.

Program Requirements

Code	Title	Credits
Core Requirements		
CM107	 College Composition I	5
CM220	 College Composition II	5
CS212	 Communicating Professionalism	5
MM212	 College Algebra	5
MM250	 Discrete Mathematics	5
100/200 Level	Arts and Humanities Requirement ¹	5
100/200 Level	Science Requirement ¹	5
100/200 Level	Social Science Requirement ¹	5
100/200 Level	General Education Elective	5
Total Core Requirements		45
Major Requirements		
IT117	 Website Development	5
IT133	 Microsoft Office Applications on Demand	5
IT163	 Database Concepts Using Microsoft Access	5
IT190	 Information Technology Concepts	5
IT213	 Software Development Concepts	5
IT232	 Software Design and Development Concepts	5
IT234	 Database Concepts	5
IT273	 Networking Concepts	5
IT286	 Network Security Concepts	5
IT301	 Project Management I	6
IT302	 Human Computer Interaction	6

IT331	 Technology Infrastructure	6
IT332	 Principles of Information Systems Architecture	6
IT350	 Advanced Database Concepts	6
IT402	 IT Consulting Skills	6
IT460	 Systems Analysis and Design	6
IT489	Bachelor's-Level Information Technology Internship	6
or IT499	Bachelor's Capstone in Information Technology	
Total Major Requirements		93
Open Elective Requirements		
Open Electives (see below)		42
Total Open Elective Requirements		42
TOTAL CREDITS		180

¹ For options to fulfill this requirement, see the corresponding literacy in General Education and Professional Competency Requirements (<https://catalog.purdueglobal.edu/undergraduate/general-education-professional-competency-requirements/>).

Concentration Requirements







Concentration courses are completed within the open electives requirement of the degree plan.

Students in this program are required to select a concentration.

Game Development

Code	Title	Credits
IN240	Game Design and Mechanics	5
IN241	Game Programming	5
IN242	Game Art and Animation	5
TOTAL CREDITS		15



Information Security and Assurance

Code	Title	Credits
IN203	 Networking With Microsoft Technologies	5
IT278	 Windows Administration	5
IT316	 Computer Forensics	6
IT390	 Intrusion Detection and Incident Response	6
IT411	 Digital Forensics	6
IT484	 Cybersecurity Policies	6
TOTAL CREDITS		34

IT Management

Code	Title	Credits
IT Management Electives		21-24
TOTAL CREDITS		21-24

Network Administration

Code	Title	Credits
IN203	 Networking With Microsoft Technologies	5
IN205	 Routing and Switching I	5

IN206	🌐 Routing and Switching II	5
IT278	🌐 Windows Administration	5
IT375	🌐 Windows Enterprise Administration	6
TOTAL CREDITS		26

Programming and Software Development

Code	Title	Credits
IT391	🌐 Advanced Software Development Including Web and Mobility	6
IT481	🌐 Advanced Software Development	6
IT488	🌐 Software Product Development Using Agile	6
TOTAL CREDITS		18

Supply Chain Management and Logistics

Code	Title	Credits
MT433	Global Supply Chain Management	6
MT434	Logistics and Distribution Management	6
MT436	Purchasing and Vendor Management	6
MT437	Strategic Warehouse Management	6
MT438	Supply Chain Analytics	6
TOTAL CREDITS		30