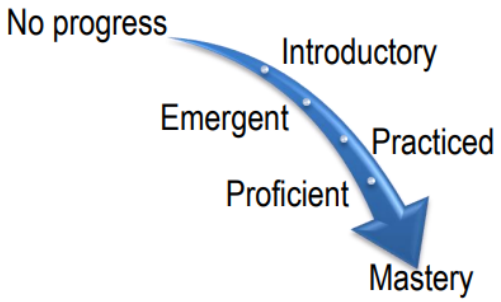
PURDUE UNIVERSITY GLOBAL

Bachelor of Science in Information Technology

At Purdue Global, we employ a method called **Course-Level Assessment**, or CLA, to determine student mastery of Course Outcomes. Through CLA, we measure how well students gain the skills, knowledge, abilities, and behaviors that employers expect of program graduates. A series of courses prepares students for employment by providing preparation, practice, and opportunities to show mastery of these program outcomes. Each course is developed around a number of learning goals, known as course outcomes, which support a student's growing mastery of program level outcomes. Faculty members assess each student's mastery of each course outcome through Course Level Assessments.



Program Measure for *Standard of Success*:

- 80% or more of students attempting the outcome will perform at the **Practiced** level or greater in **100/200** level courses
- 80% or more of students attempting the outcome will perform at the **Proficient** level or greater in **300/400** level courses.

BSIT 1 – Technology Skills: Apply current technical tools and methodologies to solve problems.

Course #	Measurement	Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria
IT 117	Complete a detailed plan for a website project in a formal design document.	99%	Yes
IT 117	Apply HTML and images to create professional web pages.	96%	Yes
IT 117	Construct a well-designed and fully functional website using HTML and CSS.	99%	Yes
IT 133	Use the computer operating system and cloud-based services to set preferences and manage files.	98%	Yes
IT 133	Create documents using various functions of word processing software.	96%	Yes
IT 133	Create computer-generated, on-screen presentations.	97%	Yes
IT 133	Create spreadsheets using basic spreadsheet functions.	92%	Yes
IT 133	Analyze appropriate software application(s) to address solutions within a specific discipline.	94%	Yes
IT 163	Create relational databases with multiple entities and relationships.	96%	Yes
IT 163	Create forms to input data.	100%	Yes

Course #	Measurement	Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria
IT 163	Use Structured Query Language (SQL) to manage data.	95%	Yes
IT 163	Construct reports to retrieve data.	100%	Yes
IT 213	Create fundamental programs using concepts such as declaring and initializing variables and constants.	94%	Yes
IT 213	Create fundamental programs using concepts such as decision statements and iteration.	92%	Yes
IT 213	Create fundamental programs using concepts such as functions and arrays.	85%	Yes
IT 232	Examine Object Oriented Programming Concepts.	75%	No
IT 234	Demonstrate the fundamental concepts of Database Management systems.	96%	Yes
IT 234	Explore Data Definition Language (DDL) statements to define the database structure or schema.	97%	Yes
IT 234	Explore Data Manipulation Language (DML) statements to manage data within schema objects.	98%	Yes
IT 234	Discover more advanced SQL such as security commands and logins.	99%	Yes
IT 273	Analyze LAN switching methods and related devices used for data transmission.	97%	Yes
IT 286	Examine the process of risk assessment and network monitoring.	95%	Yes
IT 286	Investigate device and infrastructure security, access control, authentication, and authorization.	94%	Yes
IT 286	Explain the protection of wireless networks and cloud services, and the hardening of hosts and applications.	96%	Yes
IT 286	Examine cryptography methods, vulnerabilities, threats, and malicious attacks.	96%	Yes
IT 286	Explore social engineering, security administration, disaster recovery, and incident response.	92%	Yes
IT 331	Plan an effective IT infrastructure based on the needs of an organization.	78%	No
IT 350	Apply fundamental SQL programming concepts.	100%	Yes
IT 350	Design simple stored procedures to meet business needs.	100%	Yes
IT 350	Create aggregated business report datasets to format output and filter data.	96%	Yes
IT 350	Utilize Subqueries and Common Table Expressions (CTEs) when solving complicated problems.	100%	Yes
IT 350	Use a report builder to display and analyze information generated in an MS SQL Server database.	100%	Yes
IT 499	Explore non-relational database alternatives.	100%	Yes
IT 499	Technology Skills: Apply current technical tools and methodologies to solve problems.	86%	Yes

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BSIT 2 – Client Specifications: Analyze users' technical issues.

Course #	Measurement	Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria
IT190	Describe the components of a computer network.	91%	Yes
IT213	Apply the debugging and testing processes to programs containing fundamental concepts such as decision statements, iteration, functions, and arrays.	85%	Yes
IT232	Select appropriate secure data handling techniques.	75%	No
IT302	Assess the future of haptics in interface designs.	95%	Yes
IT331	Plan an effective IT infrastructure based on the needs of an organization.	78%	No
IT350	Utilize Subqueries and Common Table Expressions (CTEs) when solving complicated problems.	100%	Yes
IT499	Client Specifications: Analyze users' technical issues.	90%	Yes

BSIT 3 – System Specifications: Design Information Systems.

Course #	Measurement	Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria
IT 117	Integrate CSS with HTML to create a visually appealing website.	93%	Yes
IT 117	Develop HTML forms with form field validation.	95%	Yes
IT 163	Synthesize database concepts needed to effectively design a database.	95%	Yes
IT 213	Create plans for programs using an understanding of historical development of programming techniques and appropriate modeling techniques.	93%	Yes
IT 232	Compose software using advanced interface and program design techniques.	100%	Yes
IT 232	Construct Software Test Plan for Validation and Verification of Design Requirements.	87%	Yes
IT 234	Demonstrate the fundamental concepts of Database Management systems.	96%	Yes
IT 234	Explore Data Definition Language (DDL) statements to define the database structure or schema.	97%	Yes
IT 273	Appraise network architectures, models, topologies, and structures used in networking.	92%	Yes
IT 286	Investigate device and infrastructure security, access control, authentication, and authorization.	94%	Yes

Course #	Measurement	Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria
IT 302	Design a user interface with appropriate professional tools.	89%	Yes
IT 331	Plan an effective IT infrastructure based on the needs of an organization.	78%	No
IT 332	Assess data communication and networking options for a computer system.	86%	Yes
IT 460	Apply object-oriented modeling tools and techniques in designing information systems.	91%	Yes

BSIT 4 – Technology Analysis: Evaluate IT trends, practices, and products.

Course #	Measurement	Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria
IT 190	Describe hardware components.	94%	Yes
IT 190	Explain different types of software applications.	90%	Yes
IT 190	Discuss the functions of system software.	90%	Yes
IT 190	Describe the components of a computer network.	91%	Yes
IT 213	Create fundamental programs using concepts such as declaring and initializing variables and constants.	94%	Yes
IT 213	Create fundamental programs using concepts such as decision statements and iteration.	92%	Yes
IT 213	Create plans for programs using an understanding of historical development of programming techniques and appropriate modeling techniques.	93%	Yes
IT 213	Create fundamental programs using concepts such as functions and arrays.	85%	Yes
IT 213	Apply the debugging and testing processes to programs containing fundamental concepts such as decision statements, iteration, functions, and arrays.	85%	Yes
IT 232	Explore various software process models.	100%	Yes
IT 234	Investigate analytical and non-relational database alternatives.	98%	Yes
IT 273	Differentiate between the various types of network media, TCP/IP core protocols, and IPv4 addressing schemes typically used in a networked environment.	95%	Yes

Course #	Measurement	Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria
IT 273	Analyze wide area networks and wireless technologies used in organizational or individual computing.	94%	Yes
IT 332	Analyze the language of computers.	93%	Yes
IT 332	Analyze the computer as a system.	94%	Yes
IT 332	Evaluate CPU, RAM, input, output and peripheral devices as components used in system architecture.	89%	Yes
IT 460	Compare various types of information systems.	93%	Yes

BSIT 5 – Business Analysis: Evaluate the potential impact of information systems and technology business processes.

Course #	Measurement	Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria
IT 232	Explore various software process models.	100%	Yes
IT 234	Explore Data Definition Language (DDL) statements to define the database structure or schema.	97%	Yes
IT 234	Explore Data Manipulation Language (DML) statements to manage data within schema objects.	98%	Yes
IT 273	Analyze LAN switching methods and related devices used for data transmission.	97%	Yes
IT 286	Examine the process of risk assessment and network monitoring.	95%	Yes
IT 286	Investigate device and infrastructure security, access control, authentication, and authorization.	94%	Yes
IT 286	Examine cryptography methods, vulnerabilities, threats, and malicious attacks.	96%	Yes
IT 286	Explore social engineering, security administration, disaster recovery, and incident response.	92%	Yes
IT 302	Examine human computer interaction theories and principles.	88%	Yes
IT 302	Evaluate human-computer interaction principles and the discovery process.	91%	Yes
IT 331	Plan an effective IT infrastructure based on the needs of an organization.	78%	No
IT 331	Practice global interconnectedness as it applies to your field of study.	88%	Yes

Course #	Measurement	Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria
IT 332	Analyze the language of computers.	93%	Yes
IT 332	Analyze the computer as a system.	94%	Yes
IT 332	Evaluate CPU, RAM, input, output and peripheral devices as components used in system architecture.	89%	Yes
MT 140	Describe solutions to management problems.	96%	Yes
MT 140	Explain the four functions of management.	97%	Yes
MT 140	Discuss the steps to manage change.	93%	Yes
MT 140	Identify the implications of competitiveness and collaboration in a global economy.	95%	Yes

BSIT 6 – Project Management: Apply project management practices, tools, and methods.

Course #	Measurement	Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria
IT 117	Construct a well-designed and fully functional website using HTML and CSS.	99%	Yes
IT 301	Analyze the Project Management Framework to identify relationships between process groups and knowledge management areas.	83%	Yes
IT 301	Create project artifacts to effectively establish project management triple constraints.	76%	No
IT 301	Create project artifacts to plan and manage project risk and resources.	80%	Yes
IT 301	Create project artifacts to effectively manage and control project execution.	82%	Yes
IT 331	Plan an effective IT infrastructure based on the needs of an organization.	78%	No
IT 331	Practice global interconnectedness as it applies to your field of study.	88%	Yes

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BSIT 7 – Professional Development: Demonstrate an understanding of the importance of professional development in the IT field.

Course #	Measurement	Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria
CM 241	Apply fundamental technical communication skills to practice-based	84%	Yes
CM 241	Present information using digital media tools for defined audiences.	85%	Yes
CS 204	Identify techniques for maintaining a professional presence.	96%	Yes
CS 204	Apply communication skills for promoting a professional image.	98%	Yes
CS 204	Assess professional goals for present and future career marketability.	96%	Yes
IT 117	Construct a well-designed and fully functional website using HTML and CSS.	96%	Yes
IT 273	Practice global interconnectedness as it applies to Information Technology.	91%	Yes
IT 301	Explain why ethics and integrity are important to the field of IT.	81%	Yes
IT 301	Practice global interconnectedness as it applies to your field of study.	72%	No
IT 331	Practice global interconnectedness as it applies to your field of study.	88%	Yes
IT 460	Practice team dynamics by participating in a role-play activity.	98%	Yes
MT 140	Discuss the purpose of corporate social responsibility and ethics.	96%	Yes

The CLA data was collected between 9/14/2016 through 9/13/2017.