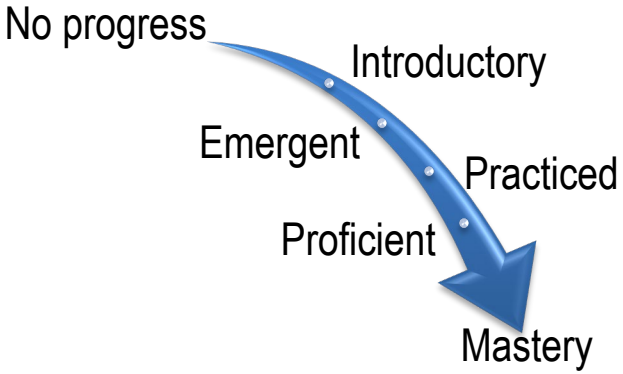
PURDUE GLOBAL UNIVERSITY

Bachelor of Science in Information Technology

At Purdue University 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.

Program Outcome	Course# / Measurement		Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria Yes/No
BSIT 1 - Technology Skills: Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.	IT117	Complete a detailed plan for a website project in a formal design document.	97%	Yes
		Apply HTML and images to create professional web pages.	97%	Yes
		Construct a well-designed and fully functional website using HTML and CSS.	93%	Yes
	IT133	Use the computer operating system and cloud-based services to set preferences and manage files.	96%	Yes
		Create documents using various functions of word processing software.	95%	Yes
		Create computer-generated, on-screen presentations.	96%	Yes
		Create spreadsheets using basic spreadsheet functions.	96%	Yes

Program Outcome	Course# / Measurement		Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria Yes/No
		Analyze appropriate software application(s) to address solutions within a specific discipline.	95%	Yes
	IT163	Create relational databases with multiple entities and relationships.	93%	Yes
		Create forms to input data.	93%	Yes
		Use Structured Query Language (SQL) to manage data.	95%	Yes
		Construct reports to retrieve data.	96%	Yes
	IT190	Describe hardware components.	96%	Yes
		Discuss the functions of software.	88%	Yes
		Describe the components of a computer network.	93%	Yes
	IT213	Create fundamental programs using concepts such as declaring and initializing variables and constants.	97%	Yes
		Create fundamental programs using concepts such as decision statements and iteration.	97%	Yes
		Create fundamental programs using concepts such as functions and arrays.	97%	Yes
	IT232	Examine Object Oriented Programming Concepts.	94%	Yes
	IT234	Demonstrate the fundamental concepts of Database Management systems.	96%	Yes
		Explore Data Definition Language (DDL) statements to define the database structure or schema.	94%	Yes
		Explore Data Manipulation Language (DML) statements to manage data within schema objects.	97%	Yes

Program Outcome	Course# / Measurement		Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria Yes/No
	IT273	Evaluate network media types, virtualization, and network storage technologies.	98%	Yes
		Analyze policies, best practice, appropriate documentation, and diagrams to manage the network.	98%	Yes
		Analyze Wide Area Networks, wireless technologies, common network attacks, and techniques for hardening network devices.	99%	Yes
		Practice network troubleshooting across various network technologies.	90%	Yes
	IT286	Examine the process of risk assessment and network monitoring.	90%	Yes
		Investigate device and infrastructure security, access control, authentication, and authorization.	99%	Yes
		Explain the protection of wireless networks and cloud services, and the hardening of hosts and applications.	87%	Yes
	IT331	Analyze the functions of key components in information technology Infrastructure.	82%	Yes
		Plan an effective IT infrastructure based on the needs of an organization.	85%	Yes
		Evaluate Wide Area Network (WAN) technologies.	86%	Yes
	IT350	Apply fundamental SQL programming concepts.	96%	Yes
	IT460	Analyze user needs to develop a requirements document including a feasibility study.	92%	Yes
		Create logical models that describe system processes.	88%	Yes

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Program Outcome	Course# / Measurement		Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria Yes/No
		Develop information systems by converting design specifications into data structures.	94%	Yes
	IT489	Technology Skills: Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.	98%	
	IT499	Technology Skills: Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.	89%	Yes
BSIT 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.	IT117	Integrate CSS with HTML to create a visually appealing website.	93%	Yes
		Develop HTML forms with form field validation.	90%	Yes
		Construct a well-designed and fully functional website using HTML and CSS.	93%	Yes
	IT163	Synthesize database concepts needed to effectively design a database.	95%	Yes
		Construct reports to retrieve data.	96%	Yes
	IT190	Describe hardware components.	96%	Yes
		Describe the components of a computer network.	93%	Yes
	IT213	Create fundamental programs using concepts such as declaring and initializing variables and constants.	97%	Yes
		Create fundamental programs using concepts such as decision statements and iteration.	97%	Yes
		Create plans for programs using an understanding of historical development of programming techniques and appropriate modeling techniques.	94%	Yes

Program Outcome	Course# / Measurement		Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria Yes/No
		Create fundamental programs using concepts such as functions and arrays.	97%	Yes
		Apply the debugging and testing processes to programs containing fundamental concepts such as decision statements, iteration, functions, and arrays.	73%	No
	IT232	Explore various software process models.	96%	Yes
		Compose software using advanced interface and program design	97%	Yes
		Select appropriate secure data handling techniques.	96%	Yes
		Construct Software Test Plan for Validation and Verification of Design	94%	Yes
	IT234	Demonstrate the fundamental concepts of Database Management systems.	96%	Yes
		Explore Data Definition Language (DDL) statements to define the database	94%	Yes
		Explore Data Manipulation Language (DML) statements to manage data	97%	Yes
	IT273	Analyze networking concepts, such as ports and protocols; IPv4 and IPv6	97%	Yes
		Analyze Wide Area Networks, wireless technologies, common network	99%	Yes
		Practice network troubleshooting across various network technologies.	90%	Yes
	IT286	Examine the process of risk assessment and network monitoring.	90%	Yes
		Investigate device and infrastructure security, access control, and	99%	Yes
	IT302	Examine human computer interaction theories and principles.	96%	Yes
		Evaluate human-computer interaction principles and the discovery process.	95%	Yes
		Relate the value of screen components, color theories, and typography in	96%	Yes
		Design a user interface with appropriate professional tools.	96%	Yes
	IT331	Analyze the functions of key components in information technology	82%	Yes
		Plan an effective IT infrastructure based on the needs of an organization.	85%	Yes
		Evaluate Wide Area Network (WAN) technologies.	86%	Yes
	IT332	Analyze the language of computers.	92%	Yes
		Analyze the computer as a system.	91%	Yes

Program Outcome	Course# / Measurement		Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria Yes/No
		Evaluate CPU, RAM, input, output and peripheral devices as components used in system architecture.	88%	Yes
		Assess data communication and networking options for a computer system.	90%	Yes
	IT350	Apply fundamental SQL programming concepts.	96%	Yes
		Design simple stored procedures to meet business needs.	97%	Yes
		Create aggregated business report datasets to format output and filter data.	97%	Yes
		Explore techniques to ensure the database is secure.	97%	Yes
		Use a report builder to display and analyze information generated in an MS SQL Server database.	96%	Yes
		Explore non-relational database alternatives.	92%	Yes
	IT402	Justify ethical decisions with IT consulting.	93%	Yes
		Generate time management and analysis representations.	88%	Yes
		Develop skills for negotiation, decision-making, and other people-related processes with IT consulting.	88%	Yes
	IT460	Compare various types of information systems.	98%	Yes
		Analyze user needs to develop a requirements document including a feasibility study.	92%	Yes

Program Outcome	Course# / Measurement		Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria Yes/No
		Create logical models that describe system processes.	88%	Yes
		Develop information systems by converting design specifications into data structures.	94%	Yes
		Assess system implementation methods.	92%	Yes
		Evaluate system performance to support data driven decision making and continuous process improvement.	81%	Yes
	IT489	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.	100%	Yes
	IT499	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.	92%	Yes
BSIT 3 - Professional Communication: Communicate effectively in a variety of professional contexts.	CS212	Identify elements of professional presence within your field of study.	95%	Yes
		Apply techniques for presenting professionalism through social media.	96%	Yes
		Demonstrate oral communication skills for promoting a professional image.	90%	Yes
	IT117	Integrate CSS with HTML to create a visually appealing website.	93%	Yes
		Develop HTML forms with form field validation.	90%	Yes
	IT234	Demonstrate the fundamental concepts of Database Management systems.	96%	Yes

Program Outcome	Course# / Measurement		Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria Yes/No
		Explore Data Definition Language (DDL) statements to define the database structure or schema.	94%	Yes
		Explore Data Manipulation Language (DML) statements to manage data within schema objects.	97%	Yes
	IT273	Analyze networking concepts, such as ports and protocols; IPv4 and IPv6 addressing; and routing and switching concepts.	97%	Yes
		Analyze Wide Area Networks, wireless technologies, common network attacks, and techniques for hardening network devices.	99%	Yes
		Practice network troubleshooting across various network technologies.	90%	Yes
	IT286	Investigate device and infrastructure security, access control, authentication, and authorization.	99%	Yes
	IT301	Distinguish between stakeholder and team performance domains and their interactions with other performance domains.	100%	Yes
		Create project artifacts that support the project planning performance domain.	93%	Yes
		Explain why ethics and integrity are important to the field of IT.	85%	Yes
		Practice global interconnectedness as it applies to your field of study.	84%	Yes
	IT302	Examine human computer interaction theories and principles.	96%	Yes
		Evaluate human-computer interaction principles and the discovery process.	95%	Yes
	IT331	Describe how networking skills can improve project success.	87%	Yes

Program Outcome	Course# / Measurement		Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria Yes/No
		Practice global interconnectedness as it applies to your field of study.	90%	Yes
	IT332	Analyze the computer as a system.	91%	Yes
		Evaluate CPU, RAM, input, output and peripheral devices as components used in system architecture.	88%	Yes
		Assess data communication and networking options for a computer system.	90%	Yes
	IT402	Generate time management and analysis representations.	88%	Yes
		Create a project proposal with a unique vision.	78%	No
		Generate persuasive materials for IT consulting.	85%	Yes
	IT460	Analyze user needs to develop a requirements document including a feasibility study.	92%	Yes
		Create logical models that describe system processes.	88%	Yes
	IT489	Professional Communication: Communicate effectively in a variety of professional contexts.	97%	Yes
	IT499	Professional Communication: Communicate effectively in a variety of professional contexts.	91%	Yes
BSIT 4 - Professional Development:	CS212	Identify elements of professional presence within your field of study.	95%	Yes
		Apply logical reasoning to address issues in professionalism.	93%	Yes

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Program Outcome	Course# / Measurement		Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria Yes/No
Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.	IT190	Describe hardware components.	96%	Yes
	IT234	Explore Data Manipulation Language (DML) statements to manage data within schema objects.	97%	Yes
	IT286	Explore social engineering, security administration, disaster recovery, and incident response.	99%	Yes
	IT301	Analyze project management principles and performance domains.	86%	Yes
		Explain why ethics and integrity are important to the field of IT.	85%	Yes
	IT331	Formulate a network security design.	78%	No
	IT332	Analyze the computer as a system.	91%	Yes
		Evaluate CPU, RAM, input, output and peripheral devices as components used in system architecture.	88%	Yes
		Assess data communication and networking options for a computer system.	90%	Yes
	IT350	Explore non-relational database alternatives.	92%	Yes
	IT402	Justify ethical decisions with IT consulting.	93%	Yes
		Develop skills for negotiation, decision-making, and other people-related processes with IT consulting.	88%	Yes
		Appraise historical and international facets of IT consulting.	89%	Yes
	IT460	Compare various types of information systems.	98%	Yes

Program Outcome	Course# / Measurement		Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria Yes/No
		Analyze user needs to develop a requirements document including a feasibility study.	92%	Yes
		Evaluate system performance to support data driven decision making and continuous process improvement.	81%	Yes
	IT489	Professional Development: Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.	97%	Yes
	IT499	Professional Development: Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.	96%	Yes
BSIT 5 - Team Management: Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.	CS212	Identify effective strategies for promoting professionalism in teams.	91%	Yes
	IT234	Explore Data Definition Language (DDL) statements to define the database structure or schema.	94%	Yes
	IT273	Practice network troubleshooting across various network technologies.	90%	Yes
	IT286	Examine the process of risk assessment and network monitoring.	90%	Yes
		Investigate device and infrastructure security, access control, authentication, and authorization.	99%	Yes
	IT301	Distinguish between stakeholder and team performance domains and their interactions with other performance domains.	100%	Yes
		Explore project development approach and life cycle performance domain.	92%	Yes
		Create project artifacts that support the project planning performance domain.	100%	Yes

Program Outcome	Course# / Measurement		Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria Yes/No
		Practice global interconnectedness as it applies to your field of study.	84%	Yes
	IT302	Examine human computer interaction theories and principles.	96%	Yes
		Evaluate human-computer interaction principles and the discovery process.	95%	Yes
	IT331	Describe how networking skills can improve project success.	87%	Yes
		Practice global interconnectedness as it applies to your field of study.	90%	Yes
	IT332	Analyze the language of computers.	92%	Yes
		Analyze the computer as a system.	91%	Yes
		Evaluate CPU, RAM, input, output and peripheral devices as components used in system architecture.	88%	Yes
	IT350	Design simple stored procedures to meet business needs.	97%	Yes
		Explore techniques to ensure the database is secure.	97%	Yes
	IT402	Generate time management and analysis representations.	88%	Yes
		Develop skills for negotiation, decision-making, and other people-related processes with IT consulting.	88%	Yes
	IT489	Team Management: Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.	100%	Yes

Program Outcome	Course# / Measurement		Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria Yes/No
	IT499	Team Management: Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.	95%	Yes
BSIT 6 - Client Specifications: Identify and analyze user needs to take them into account in the selection, creation, integration, evaluation, and administration of computing-based systems.	IT117	Complete a detailed plan for a website project in a formal design document.	97%	Yes
	IT133	Analyze appropriate software application(s) to address solutions within a specific discipline.	95%	Yes
	IT163	Create relational databases with multiple entities and relationships.	93%	Yes
		Create forms to input data.	93%	Yes
		Construct reports to retrieve data.	96%	Yes
	IT213	Create fundamental programs using concepts such as declaring and initializing variables and constants.	97%	Yes
		Create fundamental programs using concepts such as decision statements and iteration.	97%	Yes
		Create plans for programs using an understanding of historical development of programming techniques and appropriate modeling techniques.	94%	Yes
	IT232	Compose software using advanced interface and program design techniques.	97%	Yes
		Select appropriate secure data handling techniques.	96%	Yes

Program Outcome	Course# / Measurement		Assessment/ Evaluation Results: % of students at or greater than Standard	Meets Criteria Yes/No
	IT273	Analyze Wide Area Networks, wireless technologies, common network attacks, and techniques for hardening network devices.	99%	Yes
	IT301	Distinguish between stakeholder and team performance domains and their interactions with other performance domains.	100%	Yes
		Explore project development approach and life cycle performance domain.	92%	Yes
		Create project artifacts that support the project planning performance domain.	100%	Yes
	IT302	Design a user interface with appropriate professional tools.	96%	Yes
	IT331	Plan an effective IT infrastructure based on the needs of an organization.	85%	Yes
		Formulate a network security design.	78%	No

	IT332	Assess data communication and networking options for a computer system.	90%	Yes
		Recommend data storage and data protection technology for a computer system.	84%	Yes
	IT350	Design simple stored procedures to meet business needs.	97%	Yes
		Create aggregated business report datasets to format output and filter data.	97%	Yes
	IT402	Justify ethical decisions with IT consulting.	93%	Yes
		Generate time management and analysis representations.	88%	Yes
		Create a project proposal with a unique vision.	78%	No
		Generate persuasive materials for IT consulting.	85%	Yes
	IT460	Analyze user needs to develop a requirements document including a feasibility study.	92%	Yes
	IT489	Client Specifications: Identify and analyze user needs to take them into account in the selection, creation, integration, evaluation, and administration of computing-based systems.	100%	Yes
	IT499	Client Specifications: Identify and analyze user needs to take them into account in the selection, creation, integration, evaluation, and administration of computing-based systems.	99%	Yes

The CLA data was collected between 7/1/2020 through 6/30/2022