

Student Learning Outcomes Library

Office of Assessment & Accreditation

Indiana State University

BS Information Technology

Spring 2020

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Outcome	Related Foundational Studies or Graduate Goal
Apply general knowledge to IT issues—An ability to apply knowledge of computing and mathematics appropriate to the discipline	
1.1 Use mathematics to solve IT issues and problems	Foundational Studies 2: Critically evaluate the ideas of others Foundational Studies IIIA: Quantitative Literacy
1.2 Model IT systems for design and analysis	
1.3 Design IT systems	
Analyze and solve problems— An ability to analyze a problem, and identify and define the computing requirements appropriate to the solution	
2.1 Problem definition: Use analytical tools and experiences to understand and define problems	
2.2 Problem solution development: Use accepted problem solving techniques and tools to develop solutions	
2.3 Apply solutions and monitor progress: Select appropriate solutions, implement and monitor progress	

Design and implement computer-based solutions— An ability to design, implement and evaluate a computer--based system, process, component or program to meet desired needs	
3.1 Develop computer-based system designs	
3.2 Apply designs and use experiments to evaluate performance	
3.3 Install systems and monitor performance: Commissioning designs and monitor performance	
Function effectively in the team environment—An ability to function effectively on teams to accomplish a common goal	
4.1 Effective team member	
4.2 Understands the purpose of teams: Assumes responsibility as a team member, respects chain of command, and understands why teams exist	
4.3 Works and communicates well in the team setting: Recognizes the need for good interpersonal skills and practices quality in communication in the team setting	Foundational Studies 10: Express themselves effectively, professionally, and persuasively both orally and in writing.
Understand professional and ethical responsibilities—An understanding of professional, ethical, legal, security, and social issues and responsibilities	
5.1 Demonstrates professionalism: Understands the role of the professional and aspires to become a respected member of an organization	
5.2 Understands and exhibits ethics: Is knowledgeable on issues involving social and ethical responsibilities	
5.3 Understands the role of the IT professional: Understands the role the IT professional has in developing and delivering responsible and secure solutions	
Effective communication—An ability to communicate effectively with a range of audiences	
6.1 Exhibits good verbal communications: Can verbally present and describe technical information and issues in a clear manner	Foundational Studies 10: Express themselves effectively, professionally, and persuasively both orally and in writing.
6.2 Possesses good written communications skills: Can develop well written e-mails, letters, technical documents, test plans and PowerPoint presentations	Foundational Studies 10: Express themselves effectively, professionally, and persuasively both orally and in writing.

6.3 Understands the need for formality and respect: Differentiates between formal, semi-formal and informal situations involving verbal and written protocols, including meetings	Foundational Studies 10: Express themselves effectively, professionally, and persuasively both orally and in writing.
Respect diversity—The ability to analyze the local and global impact of computing on individuals, organizations, and society	
7.1 Understands the IT marketplace: Exhibits some knowledge of the global nature of IT system use	
7.2 Understands social responsibility: Understand the importance of the social issues involved with business and industry	
7.3 Understands the responsibility of safe design practices: Understand the importance and responsibility of safety in design and operations as a social issue	
Professional development—Recognition of the need for and the ability to engage in continuous professional development	
8.1 Demonstrates a desire to learn: Demonstrates the desire to learn and respects those who possess knowledge	
Mastery of IT tools—An ability to use current techniques, skills, and tools necessary for computing practice	
9.1 Demonstrates IT technical competence: Demonstrates an ability to use and apply current technical concepts and practices in the core information technologies	
9.2 Understand and support user needs: Demonstrates an ability to identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer--based systems	
9.3 Transfer technologies & solutions to the user environment: Demonstrate an ability to effectively integrate IT--based solutions into the user environment	
9.4 Utilize practices and standards: Demonstrate an understanding of best practices and standards and their application	
9.5 Understand project planning tools: Demonstrate an ability to assist in the creation of an effective project plan	
9.6 Understand fundamental technologies: Understand the fundamentals of the core information technologies of human computer interaction, information	

management, programming, networking, web systems and technologies	
9.7 Understand information security Understand the fundamentals of information assurance and security	
9.8 Understand system administration and maintenance: Understand the fundamentals of system administration and maintenance	
9.9 Understand system integration and architecture: Understand the fundamentals of system integration and architecture	