

Standing Requirements

Outcomes Library

BS in Information Technology Outcome Set

1: Apply general knowledge to IT issues

An ability to apply knowledge of computing and mathematics appropriate to the discipline (Apply general knowledge to IT issues)

Outcome	Mapping
1: Use mathematics Use mathematics to solve IT issues and problems (Use mathematics)	Foundational Studies: 2. Critically evaluate the ideas of others., IIIa. Quantitative Literacy
2: Modeling for analysis Model IT systems for design and analysis (Modeling for analysis)	No Mapping
3: System design Design IT systems (System design)	No Mapping

2: Analyze and solve problems

An ability to analyze a problem, and identify and define the computing requirements appropriate to the solution (Analyze and solve problems)

Outcome	Mapping
1: Problem definition Use analytical tools and experiences to understand and define problems (Problem definition)	No Mapping
2: Problem solution development Use accepted problem solving techniques and tools to develop solutions (Problem solution development)	No Mapping
3: Apply solutions and monitor progress Select appropriate solutions, implement and monitor progress (Apply solutions and monitor progress)	No Mapping

3: 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 (Design and implement computer-based solutions)

Outcome	Mapping
1: Computer-based system design Develop system designs (Computer-based system design)	No Mapping
2: Apply designs and test Apply designs and use experiments to evaluate performance (Apply designs and test)	No Mapping
3: Install systems and monitor performance Commissioning designs and monitor performance (Install systems and monitor performance)	No Mapping

4: Function effectively in the team environment

An ability to function effectively on teams to accomplish a common goal (Function effectively in the team environment)

Outcome	Mapping
1: Effective team member Functions as an effective team member (Effective team member)	No Mapping
2: Understands the purpose of teams Assumes responsibility as a team member, respects chain of command and understands why teams exist (Understands the purpose of teams)	No Mapping
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 (Works and communicates well in the team setting)	Foundational Studies: 10. Express themselves effectively, professionally, and persuasively both orally and in writing.

5: Understand professional and ethical responsibilities

An understanding of professional, ethical, legal, security and social issues and responsibilities (Understand professional and ethical responsibilities)

Outcome	Mapping
1: Demonstrates professionalism Understands the role of the professional and aspires to become a respected member of an organization (Demonstrates professionalism)	No Mapping
2: Understands and exhibits ethics Is knowledgeable on issues involving social and ethical responsibilities (Understands and exhibits ethics)	No Mapping
3: Understands the role of the IT professional Understands the role the IT professional has in developing and delivering responsible and secure solutions (Understands the role of the IT professional)	No Mapping

6: Effective communication

An ability to communicate effectively with a range of audiences (Effective communication)

Outcome	Mapping
1: Exhibits good verbal communications Can verbally present and describe technical information and issues in a clear manner (Exhibits good verbal communications)	Foundational Studies: 10. Express themselves effectively, professionally, and persuasively both orally and in writing.
2: Possesses good written communications skills Can develop well written e-mails, letters, technical documents, test plans and PowerPoint presentations (Possesses good written communications skills)	Foundational Studies: 10. Express themselves effectively, professionally, and persuasively both orally and in writing.
3: Understands the need for formality and respect Differentiates between formal, semi-formal and informal situations involving verbal and written protocols, including meeting (Understands the need for formality and respect in communication)	Foundational Studies: 10. Express themselves effectively, professionally, and persuasively both orally and in writing.

7: Respect diversity

The ability to analyze the local and global impact of computing on individuals, organizations, and society (Respect diversity)

Outcome	Mapping
1: Understands the IT marketplace Exhibits some knowledge of the global nature of IT system use (Understands the IT marketplace)	No Mapping
2: Understands social responsibility Understand the importance of the social issues involved with business and industry (Understands social responsibility)	No Mapping
3: Understands the responsibility of safe design practices	No Mapping

Understand the importance and responsibility of safety in design and operations as a social issue (Understands the responsibility of safe design practices and operations)

8: Professional development

Recognition of the need for and the ability to engage in continuous professional development (Professional development)

Outcome

Mapping

1: Demonstrates a desire to learn

No Mapping

Demonstrates the desire to learn and respects those who possess knowledge (Demonstrates a desire to learn)

9: Mastery of IT tools

An ability to use current techniques, skills, and tools necessary for computing practice (Mastery of IT tools)

Outcome

Mapping

1: Demonstrates IT technical competence

No Mapping

Demonstrates an ability to use and apply current technical concepts and practices in the core information technologies (Demonstrates IT technical competence)

2: Understand and support user needs

No Mapping

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 (Understand and support user needs)

3: Transfer technologies & solutions to the user environment

No Mapping

Demonstrate an ability to effectively integrate IT-based solutions into the user environment (Transfer technologies and solutions to the user environment)

4: Utilize practices and standards

No Mapping

Demonstrate an understanding of best practices and standards and their application (Utilize practices and standards)

5: Understand project planning tools

No Mapping

Demonstrate an ability to assist in the creation of an effective project plan (Understand project planning tools)

6: Understand fundamental technologies

No Mapping

Understand the fundamentals of the core information technologies of human computer interaction, information management, programming, networking, web systems and technologies (Understand fundamental HCI, information management, programming, networking and web technologies)

7: Understand information security

No Mapping

Understand the fundamentals of information assurance and security (Understand information security)

8: Understand system administration and maintenance

No Mapping

Understand the fundamentals of system administration and maintenance (Understand system administration and maintenance)

9: Understand system integration and architecture

No Mapping

Understand the fundamentals of system integration and architecture (Understand system integration and architecture)

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