

**College of Engineering, Technology, and Computer Science
Computer, Electrical, and Information Technology (CEIT) Department**

**Bachelor of Science Information Technology (ITC)
Program Educational Objectives and Student Outcomes**

ITC B.S. Program Educational Objectives

The CAC/ABET1 outcome-based accreditation assures quality education of Information Technology students. This approach focuses on inputs from ITC Program constituencies, the teaching-learning process and outcomes, student achievement, graduation, employment, faculty qualifications and development, supporting facilities and resources, and continuous improvement. Accreditation decisions are based solely on the CAC/ABET criteria, policies and procedures as defined in the ABET “Accreditation Policy and Procedure Manual” and “Criteria for Accrediting Engineering Technology Programs” for evaluation during the annual accreditation cycle.

CAC/ABET defines program educational objectives as “...broad statements that describe what graduates are expected to attain within a few years of graduation. Program educational objectives are based on the needs of the program’s constituencies.”

Information Technology B.S. Program Educational Objectives

1. To be a working Information Technology (IT) professional with core competencies that can be used on multi-disciplinary projects
2. To understand the importance of relationship building within the IT industry
3. To understand the need for lifelong learning in the exploration and journey in IT
4. To understand, evaluate and practice ethical behavior within the IT industry
5. To be change agents in the IT industry
6. To be cognizant of security issues and their impacts on industry

ITC B.S. Student Outcomes

ITC program educational objectives are consistent with the mission of Indiana University- Purdue University Fort Wayne (IPFW), the College of ETCS and the needs of programs’ constituents. The program educational objectives describe the expected skills, knowledge, and abilities that a graduate should achieve during the initial years following graduation. These program educational objectives were developed, and are annually evaluated, with the IPFW Strategic Objectives/Goals and the needs of the programs’ constituents kept in mind. Educational objectives are closely related to the Program Outcomes. Assessment of these objectives is coupled to assessment of the program and course outcomes.

Computing Accreditation Commission program states: “The program must have documented student outcomes that prepare graduates to attain the program educational objectives. There must be a documented and effective process for the periodic review and revision of these student outcomes.” It further states that for baccalaureate degree programs, these student outcomes must include, but are not limited to, the following learned capabilities:

Information Technology B.S. Student Outcomes

The program must enable students to attain, by the time of graduation:

- (a) An ability to apply knowledge of computing and mathematics appropriate to the program's student outcomes and to the discipline
- (b) An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution
- (c) An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs
- (d) An ability to function effectively on teams to accomplish a common goal
- (e) An understanding of professional, ethical, legal, security and social issues and responsibilities
- (f) An ability to communicate effectively with a range of audiences
- (g) An ability to analyze the local and global impact of computing on individuals, organizations, and society
- (h) Recognition of the need for and an ability to engage in continuing professional development
- (i) An ability to use current techniques, skills, and tools necessary for computing practice.
- (j) An ability to use and apply current technical concepts and practices in the core information technologies of human computer interaction, information management, programming, networking, and web systems and technologies.
- (k) An ability to identify and analyze user needs and take them into account in the selection, creation, evaluation, and administration of computer-based systems.
- (l) An ability to effectively integrate IT-based solutions into the user environment.
- (m) An understanding of best practices and standards and their application.
- (n) An ability to assist in the creation of an effective project plan.

The ITC program is not yet accredited by CAC/ABET but is preparing for accreditation.