

&RPSXWLQJ \$FFUHGLWDWLRQ &RPPLVVLRQ  
6LGH E\ VLGH &RPSD&UUVWU&XUQHILQWLRQ  
\$SULO

## GENERAL CRITERIA

### DEFINITIONS

#### CAC Criteria Currently In Use (Version 1)

#### CAC Criteria for Use in 2019-20 (Version 2)

While ABET recognizes and supports the prerogative of institutions to adopt and use the terminology of their choice, it is necessary for ABET volunteers and staff to have a consistent understanding of terminology. With that purpose in mind, the Commissions will use the following basic definitions:

Program Educational Objectives– Program educational objectives are 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.

Student Outcomes– Student outcomes describe what students are

Evaluation results in decisions and actions regarding program Eimprovement.Evaluation results in decisions and actions regarding program Eimprovement.

(g) An ability to analyze the local and global impact of computing on individuals, organizations and society.	<i>[Now incorporated into Criterion 5, Paragraph 2, Item 3]</i>
(h) Recognition of the need for and an ability to engage in continuing professional development.	<i>[Now incorporated into Criterion 5, Paragraph 1]</i>
(i) An ability to use current techniques, skills, and tools necessary for computing practice.	<i>[Now incorporated into Criterion 5, Paragraph 2, Item 1]</i>

## CRITERION 5, CURRICULUM

**CAC Criteria Currently In Use (Version 1)**

**CAC Criteria for Use in 2019-20 (Version 2)**

The program's requirements must be consistent with its program educational objectives and designed in such a way that each of the student outcomes can be attained. The curriculum must combine technical and professional requirements with general education requirements and

# Computer Science Program Criteria

## CRITERION 3, STUDENT OUTCOMES

CAC Criteria Currently In Use (Version 1)	CAC Criteria for Use in 2019-20 (Version 2)
The program must enable students to attain, by the time of graduation.	In addition to outcomes 1 through 5, graduates of the program will also have an ability to:
(j) An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.	6. Apply computer science theory and software development fundamentals to produce computing-based solutions. [CS]
(k) An ability to apply design and development principles in the construction of software systems of varying complexity.	[Now incorporated into CS Program Criterion 5, Paragraph (a), Item 4]

## CRITERION 5, CURRICULUM

CAC Criteria Currently In Use (Version 1)	CAC Criteria for Use in 2019-20 (Version 2)
Students must have the following amount of course work or equivalent educational experience:	The curriculum requirements specify topics, but do not prescribe specific courses. These requirements are:

g alarp-2.9(om CS Program)]TJ ET q 1 i 438.72 403.05 11.52 311.52 re W n BT 0 10.02 -10



# Information Systems Program Criteria

## DEFINITIONS

CAC Criteria Currently In Use (Version 1)

CAC Criteria for Use in 2019-20 (Version 2)

*["Information Systems Environment" is not explicitly defined in the criteria. It was defined in a separate document.]*

(2) Advanced course work that builds on the fundamental course work to provide depth.	<i>[Now incorporated into General Criteria, Criterion 5]</i>
(b) Information Systems Environment: One-half year of course work that must include a cohesive set of topics that provide an understanding of an environment in which the information systems will be applied professionally.	b. Information systems environment: At least 15 additional semester credit hours (or equivalent) of a cohesive set of topics that provide an understanding of an information systems environment.
(b) Quantitative analysis or methods, including statistics.	d.

# Information Technology Program Criteria

## CRITERION 3, STUDENT OUTCOMES

CAC Criteria Currently In Uses (Version 1)	CAC Criteria for Use in 2019-20 (Version 2)
The program must enable students to attain, by the time of graduation	In addition to outcomes 1 through 5, graduates of the program will also have an ability to:
(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.	<i>[Now incorporated into IT Program Criteria, Criterion 5]</i>
(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.	6. Identify and analyze user needs and to take them into account in the selection, creation, integration, evaluation, and administration of computing-based systems. [IT]
(m) An understanding of best practices and standards and their application.	<i>[Now incorporated into General Criteria, Criterion 5, Item 3]</i>
(n) An ability to assist in the creation of an effective project plan.	<i>[Now incorporated into General Criteria, Criterion 3, Outcome 5]</i>

## CRITERION 5, CURRICULUM

CAC Criteria Currently In Use (Version 1)	CAC Criteria for Use in 2019-20 (Version 2)
Students must have course work or an equivalent educational experience that includes: (a) Coverage of the fundamentals of:	The curriculum requirements specify topics, but do not prescribe specific courses. The curriculum must include coverage of fundamentals and applied practice in the following:
2. Information assurance and security	<i>[Now incorporated into General Criteria, Criterion 5]</i>
3. System administration and system maintenance	Aa System administration and system maintenance.
4. System integration and system architecture.	Ab System integration and system architecture.
(b) Advanced course work that builds on the fundamental course work to provide depth.	<i>[Now incorporated into General Criteria, Criterion 5]</i>