Informatics

ESCPICERT

Description

Degree Awarded: Certificate Informatics (certificate)

The certificate program in informatics teaches students to use computer technology to gather, synthesize, store, visualize and interpret information. These skills are critical to a broad range of disciplines. This program provides students with an understanding of the capabilities and technologies of informatics as it applies to domain-specific problems in their field of study.

Students completing this program are able to understand and use methods for the basic computational principles behind the operation of:

- communication, networking and interaction
- decision-making and problem-solving
- modeling, inference and visualization
- representing, creating and running routine activities
- storing, indexing and retrieving information

Graduates should be in high demand within the software industry and in government, education, science, medicine and other fields that make use of computer technology. Those with the applied and user-oriented focus of the certificate are attractive to such employers.

At a Glance

- College/School: Ira A. Fulton Schools of Engineering
- Location: Tempe campus

Certificate Map (Archives)
2019 - 2020 Certificate Map

This program requires 21 credit hours of course work. Students will take 15 credit hours of required courses and will select six credit hours of elective course work. The certificate requires at least 12 credit hours of
upper-division course work. Note: Some of the required courses have additional prerequisites. Students need to allow at least two years to complete the certificate due to the prerequisite structure.

Core Courses:
CPI 101 Introduction to Informatics, CS (3)
CPI 200 Mathematical Foundations of Informatics, MA (3)
CPI 220 Applied Data Structures and Algorithms (3)
CPI 350 Evaluation of Informatics Systems (3)

Statistics Course: (select one)
IEE 380 Probability and Statistics for Engineering Problem Solving, CS (3)
STP 420 Introductory Applied Statistics, CS (3)

Electives: (six credit hours)
Refer to the CIDSE website for list of approved electives:
https://cidse.engineering.asu.edu/forstudent/undergraduate/certificates/informatics/.

A grade of "C" (2.00 on a 4.00 scale) or better is required in all upper-division course work.

Depending upon a student's undergraduate program of study, prerequisites courses may be needed in order to complete the requirements of this certificate.

Enrollment Requirements

The undergraduate certificate in informatics is available to all students who are in good standing at ASU and may be used by interdisciplinary studies BA students as part of their degree program. Students need to submit an undergraduate certificate form to the School of Computing, Informatics and Decision Systems Engineering Academic Advising Center located in Centerpoint, room 105. This form is available on the registrar's website. Interdisciplinary studies students need to contact their advisor to add the informatics concentration to their degree program.

A student pursuing an undergraduate certificate must be enrolled as a degree-seeking student at ASU. Undergraduate certificates are not awarded prior to the award of an undergraduate degree. A student already holding an undergraduate degree may pursue an undergraduate certificate as a nondegree-seeking graduate student.

Contact Information