

SOFTWARE ENGINEERING CERTIFICATE

Program Website: <https://www.towson.edu/fcsm/departments/computerinfosci/grad/software-engineering-certificate.html>

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The Post-Baccalaureate Certificate in Software Engineering covers the study, design, development, implementation and support of computer-based information systems. This program provides graduate-level education in IT for students preparing to enter the high-tech work force and those already in the work force who wish to update and enhance their skills. The course of study can be completed as a stand-alone graduate certificate or applied to the M.S. degree program in Applied Information Technology. The program is intended for students who have a bachelor's degree in information technology, computer science, computer information systems or a related field, who will enter the program for advanced studies. The program may also be of interest to persons who:

- Do not have a bachelor's degree in the field, but are currently employed in the IT field and are seeking additional academic studies for professional growth or to advance their careers.
- Have a bachelor's degree in a discipline other than IT who are seeking preparation for careers in this field.

Requirements

Admission Requirements

Application deadlines and a full listing of materials required for admission can be found on the website.

Certificate Requirements

Code	Title	Units
Required Courses		
AIT 600	INFORMATION TECHNOLOGY INFRASTRUCTURE	3
AIT 624	SOFTWARE ENGINEERING FUNDAMENTALS	3
AIT 725	CASE STUDIES IN SOFTWARE ENGINEERING	3
Select at least two of the following:		6
AIT 641	SOFTWARE REQUIREMENTS ENGINEERING	
AIT 642	SOFTWARE TESTING AND MAINTENANCE	
AIT 643	ENTERPRISE ARCHITECTURE	
Total Units		15

Learning Outcomes

- Understand the information technology infrastructure and its place and value in today's business.
- Work effectively in teams and communicate effectively, both orally and in writing.
- Use their proficiency to solve a variety of problems.

- Prepare, present and develop proposals and solutions for today's governmental and industrial needs.