

# ENTERPRISE ARCHITECTURE, CERTIFICATE

Requirements for an undergraduate certificate may be completed at any campus location offering the specified courses for the certificate.

## Program Description

This 12 credit certificate applies architecture principles related to the orderly arrangement of parts to analyze the components, structure and connectivity of business, data, application, technology and security architecture and identify their relationships to each other and to the strategy of the organization. The primary purpose of describing the architecture of an enterprise is to improve the effectiveness, efficiency, and agility of the organization. This includes innovating the structure of an organization, centralizing business processes, assuring quality and timeliness of information and ensuring that money spent on information technology can be justified.

## What is Enterprise Architecture?

Enterprise Architecture deals with how organizations can be best structured and operated to effectively achieve its goals. The field applies principles related to order and arrangement to analyze how various business operations – data, technology, security, operations, etc. – can be structured to improve the effectiveness, efficiency, and agility of an organization. This is often achieved through innovations in the organization's structure, processes, quality control initiatives, and return on investment.

MORE INFORMATION ABOUT ENTERPRISE ARCHITECTURE (<https://ea.ist.psu.edu>)

## You Might Like This Program If...

- You want to help organizations operate more efficiently and effectively.
- You want to help business and technology operations align more closely.
- You enjoy exploring details to help build a big picture view of a project.

MORE INFORMATION ABOUT WHY STUDENTS CHOOSE TO STUDY ENTERPRISE ARCHITECTURE (<https://ist.psu.edu/students/undergrad/certs/enarch>)

## Program Requirements

To earn an undergraduate certificate in Enterprise Architecture, a minimum of 12 credits is required.

A grade of C or higher is required in all courses for the certificate; no course substitutions are permitted. Courses taken more than 10 years ago will not apply automatically towards completion of the certificate but instead will require review by the academic unit.

Code	Title	Credits
<b>Prescribed Courses</b>		
<i>Prescribed Courses: Require a grade of C or better</i>		
IST 422	Enterprise Architecture Foundations	3
IST 423	Enterprise Information Management and Storage Architecture	3

IST 424	Architectural Modeling of Organizations	3
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### Additional Courses

*Additional Courses: Require a grade of C or better*

Select one of the following: 3

IST 412	The Engineering of Complex Software Systems	
IST 432	Legal and Regulatory Environment of Information Science and Technology	
IST 443	IT Professional Services Theory and Practice	
IST 452	Legal and Regulatory Environment of Privacy and Security	
IST 456	Information Security Management	
SRA 221	Overview of Information Security	
SRA 468	Visual Analytics for Security Intelligence	

## Academic Advising

The objectives of the university's academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee's unit of enrollment will provide each advisee with a primary academic adviser, the information needed to plan the chosen program of study, and referrals to other specialized resources.

READ SENATE POLICY 32-00: ADVISING POLICY (<http://senate.psu.edu/policies-and-rules-for-undergraduate-students/32-00-advising-policy>)

## University Park

### Office of Undergraduate Academic Advising

E101 Westgate Building  
University Park, PA 16802  
814-865-8947  
[advising@ist.psu.edu](mailto:advising@ist.psu.edu)

## Career Paths

Enterprise architects are in high demand across. They serve a critical function in helping organization effectively and efficiently align business, technology, and other resources to achieve strategic goals. IST's Office of Career Solutions helps students navigate their internship and career development in the field through coaching, workshops, interview preparation, resume reviews, career fairs, job postings, and networking opportunities.

## Careers

Enterprise architects are prepared to play a vital role in organizations across a number of industries, as they work to understand the business strategy and both envision and employ technological solutions to help achieve those goals.

MORE INFORMATION ABOUT POTENTIAL CAREER OPTIONS FOR GRADUATES WITH A CERTIFICATE IN ENTERPRISE ARCHITECTURE (<https://ist.psu.edu/students/undergrad/certs/enarch>)

## **Contact**

### **University Park**

OFFICE OF THE ASSOCIATE DEAN FOR GRADUATE AND  
UNDERGRADUATE STUDIES

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[https://ist.psu.edu/directory/office/grad\\_undergrad\\_studies](https://ist.psu.edu/directory/office/grad_undergrad_studies)