

# CLOUD MANAGEMENT, CAS

## Contact

Jeff Saltz  
Program Director  
(315)443-2911  
igrad@syr.edu

## Website

<https://ischool.syr.edu/academics/cas-program-cloud-management/>

## Overview

The Certificate of Advanced Study (CAS) in Cloud Management comprises three concentrations: cloud solutions management, cloud data management, and cloud networking and security management. The CAS is designed to equip students with the skills necessary for careers focused on cloud management, administration and policy. Students must complete one required 3-credit course and four additional courses in one concentration to complete the CAS.

The CAS is available to those with or without prior experience in the information technology field. Applicants may be currently working in a related field, or they may be interested in making a career change into the cloud computing field. The certificate also provides an opportunity for professional development and serves as a foundation for career advancement.

## Student Learning Outcomes

After completing the program, students will be able to:

1. Analyze technical and policy issues, ethics, and diverse user behavior that either impact or are impacted by cloud computing
2. Plan, design, prototype, provision, implement, manage, evaluate, visualize, and explain cloud solutions architecture, cloud data architecture, and cloud networking and security applications in enterprise computing environments
3. Manage the complex interactions between technical cloud computing and digital transformation strategy in the modern enterprise
4. Develop and deliver effective professional communications for diverse target audiences

### Program Requirements

Code	Title	Credits
<b>Required Core</b>		
IST 615	Cloud Management	3
<b>Concentrations</b>		<b>12</b>
Concentrations allow students to select course work that matches their professional interests and planned career paths. Students are required to select one concentration below, and complete four classes, or 12 credits, from that concentration		

### Cloud Solutions Management

Code	Title	Credits
IST 651	Scripting for Enterprise Data Systems	
IST 659	Data Administration Concepts and Database Management	
IST 714	Cloud Architecture	

IST 722	Data Warehouse
IST 769	Advanced Big Data Management

### Cloud Data Management

Code	Title	Credits
IST 651	Scripting for Enterprise Data Systems	
IST 659	Data Administration Concepts and Database Management	
IST 722	Data Warehouse	
IST 769	Advanced Big Data Management	

### Cloud Networking and Security Management

Code	Title	Credits
IST 623	Introduction to Information Security	
IST 634	Security in Networked Environments	
IST 704	Applied Information Security	
IST 714	Cloud Architecture	