



Networking Services Technology – Enterprise Cloud Computing

Associate in Science | Code: 25077 | 60 credits

CIP (1511100112)

Effective Term: Fall 2024 (2247)

The Enterprise Cloud Computing program is designed to provide an opportunity to establish foundation in architect scalable, highly available application solutions that leverage cloud computing services. Utilizing best practices focusing on cloud security, cost, and reliability. Graduates of the track in Enterprise Cloud Computing will utilize core design patterns and infrastructure expertise to implement solutions to deploy and maintain workloads and applications. Graduates are prepared for positions as entry-level Solutions Architect, Cloud Architect, Cloud Engineer and Cloud Application Architect.

Note: There is only one A.S. program in Networking Services Technology with three (3) track specializations— Network Infrastructure, Network Security, and Enterprise Cloud Computing. Students may select from one of the three options, but the A.S. in Networking Services Technology will be awarded to the student only once.

GENERAL EDUCATION REQUIREMENTS (15.00 Credits)

COMMUNICATIONS (3.00 credits)

ENC 1101	English Composition	(3 credits)	Prerequisite: Student must meet the Developmental Education reading and writing requirements in State Rule 6A-10.0315 (by course, placement score, or eligible exemption).
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HUMANITIES (3.00 credits)

ARH 1000	Art Appreciation	(3 credits)	Prerequisite: ENC 1101
HUM 1020	Introduction to Humanities	(3 credits)	
LIT 2000	Introduction to Literature	(3 credits)	
MUL 1010	Music Appreciation	(3 credits)	
PHI 2010	Introduction to Philosophy	(3 credits)	
THE 2000	Theatre Appreciation	(3 credits)	

MATHEMATICS (3.00 credits)

MAC 1105	College Algebra	(3 credits)	Prerequisite: MAT 1033♦
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♦Note: Students must seek advisement for proper mathematics course from discipline chairperson.

NATURAL SCIENCE (3.00 credits)

AST 1002	Descriptive Astronomy	(3 credits)
BSC 1005	General Education Biology	(3 credits)
CHM 1020	General Education Chemistry	(3 credits)
ESC 1000	General Education Earth Science	(3 credits)
EVR 1001	Introduction to Environmental Science	(3 credits)
GLY 1010	Physical Geology	(3 credits)
OCE 1001	Introduction to Oceanography	(3 credits)
PHY 1020	General Education Physics	(3 credits)

SOCIAL SCIENCE (3.00 credits)

AMH 2010	History of the US to 1877	(3 credits)
AMH 2020	History of the US since 1877	(3 credits)
POS 2041	American Federal Government	(3 credits)

COMPUTER COMPETENCY

Test type(s) needed:

Computer Competency Test (CCT)

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CGS 1060C Introduction to Computer Technology & Application

MAJOR COURSE REQUIREMENTS (16.00 Credits)

CGS 1060C Intro to Computer Technology and Applications (4 credits)

CTS 1120 Cybersecurity Fundamentals (4 credits)

CTS 1134 Networking Technologies (4 credits)

CTS 2303 Windows Server Administration (4 credits)

Recommended preparation: prior knowledge of Networking Technologies

Recommended preparation: CGS 1060C and CTS 1134

PROGRAM CONCENTRATION CORE (24.00 Credits)

CTS 1111 Linux + (4 credits)

CGS 1540C Database Concepts and Design (4 credits)

CTS 1145 Cloud Essentials (4 credits)

CTS 2192C Microsoft Azure Administration (4 credits)

Recommended preparation: CTS 1145 or equivalent knowledge in Microsoft Azure Fundamentals

CTS 2375C Cloud Infrastructure and Services (4 credits)

Prerequisites: CTS 1145;

CTS 2960 Cloud Computing Capstone (4 credits)

Corequisite: CTS 2960

Departmental approval required

PROGRAM COURSE ELECTIVE (5.00 Credits)

CGS*; CIS*; COP*; CTS*

CIS 1949 Co-op Work Experience 1: CIS (1-4 credits)

CIS 2900 Directed Information Technology Study (1-4 credits)

COP 1047C Introduction to Python Programming (4 credits)

CTS 2143C Server Administration (4 credits)

Recommended preparation: server operating systems experience

*Any course with the listed prefixes satisfies this requirement.