Miami Dade College

COURSE SEQUENCE GUIDE | FULL-TIME ENROLLMENT
Networking Services Technology - Enterprise Cloud Computing
Associate in Science | Code: 25077 | 60 credits
Effective Term: Fall 2024 (2247)

Semester 1

Course ID	Course Title	Credits	Pre/Co-requisites	CCC-ECC	CCC-NSA	Industry Certifications
CGS 1060C	Introduction to Computer Technology & Applications	4				
CTS 1134	Networking Technologies	4		✓	✓	CompTIA Network+
ENC 1101	English Composition 1	3	Prerequisite: Student must meet the Developmental Education reading & writing requirements in State Rule 6A-10.0315 (by course, placement score, or eligible exemption).			
MAC 1105	College Algebra	3	Prerequisite: MAT 1033 **Note:** Students must seek advisement for proper mathematics course from discipline chairperson.			
	Semester Credits	**14**				

Semester 2

Course ID	Course Title	Credits	Pre/Co-requisites	CCC-ECC	CCC-NSA	Industry Certifications
CGS 1540C	Database Concepts and Design	4		✓		
CTS 1120	Cybersecurity Fundamentals	4	Recommended preparation: prior knowledge of networking technologies. **Note:** Students are highly recommended to take CTS 1134 prior to, or concurrently with CTS 1120. If enrolled in mini terms, students should take CTS 1134 during the first half of the term, followed by CTS 1120 during the ladder half.		✓	CompTIA Security+
CTS 1145	Cloud Essentials	4		✓		AWS Certified Cloud Practitioner
	Semester Credits	**12**				

Semester 3

Course ID	Course Title	Credits	Pre/Co-requisites	CCC-ECC	CCC-NSA	Industry Certifications
Social Science	AMH 2010, AMH 2020, POS 2041	3	**Note:** Students must satisfy civic literacy requirement by successfully completing AMH 2010, AMH 2020 or POS 2041, which are course options for General Education - Social Sciences. Students are additionally required to achieve a passing score on an approved assessment. Please see Testing Department for examinations and exemptions.			
CTS 1111	Linux +	4		✓	✓	CompTIA Linux+
	Semester Credits	**7**				

Semester 4

Course ID	Course Title	Credits	Pre/Co-requisites	CCC-ECC	CCC-NSA	Industry Certifications
CTS 2303	Windows Server Administration	4	Recommended Preparation: CGS 1060C and CTS 1134 or equivalent knowledge.		✓	
CTS 2375C	Cloud Infrastructure and Services	4	Prerequisite: CTS 1145 Corequisite: CTS 2960	✓		AWS Solutions Architect Associate
CTS 2960	Cloud Computing Capstone	4	Departmental approval required.	✓		
Humanities	ARH 1000, HUM 1020, LIT 2000, MUL 1010, PHI 2010, THE 2000	3	**Note**: ENC 1101 is a prerequisite to LIT 2000.			
	Semester Credits	**15**				

Semester 5

Course ID	Course Title	Credits	Pre/Co-requisites	CCC-ECC	CCC-NSA	Industry Certifications
CTS 2192C	Microsoft Azure Administration	4	Recommended preparation: CTS 1145 or knowledge in Azure Fundamentals		✓	Microsoft Azure Administration Associate
Elective	CGS*; CIS*; COP*; CTS* CIS 1949, CIS 2900, COP	4	**Note:** While not required, students are highly recommended to choose **COP 1047C** or if		CTS 2143C	

	1047C, CTS 2143C		interested in the CompTIA Server+ industry certification and the CCC in Network Server Administration, **CTS 2143C** is advised.			
Elective	CGS*; CIS*; COP*; CTS* CIS 1949, CIS 2900, COP 1047C, CTS 2143C	1				
Natural Science	AST 1002, BSC 1005, CHM 1020, ESC 1000, EVR 1001, GLY 1010, OCE 1001, PHY 1020	3				
	Semester Credits	12				
	Program Total	60			24	24	

Academic Pathway at MDC: The AS in Networking Services Technology - Enterprise Cloud Computing is a pathway to the BS in Information Systems Technology. Program courses lead to a College Credit Certificate (CCC) in Enterprise Cloud Computing (ECC) (Plan code: 66058) or a CCC in Network Server Administration (NSA) (Plan Code: 66035). An additional course is required to attain the latter. To learn more about the program courses, see the College Catalog. Certain courses will prepare you for in-demand industry certifications and costs of exams may be eligible for reimbursement. You may also accelerate your studies via credit for prior learning or credit for attained industry certifications. Learn more.

COURSE SEQUENCE GUIDE | PART-TIME ENROLLMENT
Networking Services Technology - Enterprise Cloud Computing
Associate in Science | Code: 25077 | 60 credits
Effective Term: Fall 2024 (2247)

Semester 1

Course ID	Course Title	Credits	Pre/Co-requisites	CCC-ECC	CCC-NSA	Industry Certifications
CGS 1060C	Introduction to Computer Technology & Applications	4				
ENC 1101	English Composition 1	3	Prerequisite: Student must meet the Developmental Education reading & writing requirements in State Rule 6A-10.0315 (by course, placement score, or eligible exemption).			
MAC 1105	College Algebra	3	Prerequisite: MAT 1033 **Note:** Students must seek advisement for proper mathematics course from discipline chairperson.			
	Semester Credits	**10**				

Semester 2

Course ID	Course Title	Credits	Pre/Co-requisites	CCC-ECC	CCC-NSA	Industry Certifications
CGS 1540C	Database Concepts and Design	4		✓		
CTS 1134	Networking Technologies	4		✓	✓	CompTIA Network+
	Semester Credits	**8**				

Semester 3

Course ID	Course Title	Credits	Pre/Co-requisites	CCC-ECC	CCC-NSA	Industry Certifications
Social Science	AMH 2010, AMH 2020, POS 2041	3	**Note:** Students must satisfy civic literacy requirement by successfully completing AMH 2010, AMH 2020 or POS 2041, which are course options for General Education - Social Sciences. Students are additionally required to achieve a passing score on an approved assessment. Please see Testing Department for examinations and exemptions.			
CTS 1120	Cybersecurity Fundamentals	4	Recommended preparation: prior knowledge of networking technologies. **Note:** Students are highly recommended to take CTS 1134 prior to, or concurrently with CTS 1120. If enrolled in mini terms, students should take CTS 1134 during the first half of the term, followed by CTS 1120 during the ladder half.		✓	CompTIA Security+
Humanities	ARH 1000, HUM 1020, LIT 2000, MUL 1010, PHI 2010, THE 2000	3	**Note**: ENC 1101 is a prerequisite to LIT 2000.			
	Semester Credits	**10**				

Semester 4

Course ID	Course Title	Credits	Pre/Co-requisites	CCC-ECC	CCC-NSA	Industry Certifications
CTS 1145	Cloud Essentials	4		✓		AWS Certified Cloud Practitioner
CTS 1111	Linux +	4		✓	✓	CompTIA Linux+
	Semester Credits	**8**				

Semester 5

Course ID	Course Title	Credits	Pre/Co-requisites	CCC-ECC	CCC-NSA	Industry Certifications
CTS 2375C	Cloud Infrastructure and Services	4	Prerequisite: CTS 1145 Corequisite: CTS 2960	✓		AWS Solutions Architect Associate
CTS 2960	Cloud Computing Capstone	4	Departmental approval required	✓		
	Semester Credits	**8**				

Semester 6

Course ID	Course Title	Credits	Pre/Co-requisites	CCC-ECC	CCC-NSA	Industry Certifications
Natural Science	AST 1002, BSC 1005, CHM 1020, ESC 1000, EVR 1001, GLY 1010, OCE 1001, PHY 1020	3				
Elective	CGS*; CIS*; COP*; CTS* CIS 1949, CIS 2900, COP 1047C, CTS 2143C	4	**Note:** While not required, students are highly recommended to choose **COP 1047C** or if interested in the CompTIA Server+ industry certification and the CCC in Network Server Administration, **CTS 2143C** is advised.		CTS 2143C	
	Semester Credits	**7**				

Semester 7

Course ID	Course Title	Credits	Pre/Co-requisites	CCC-ECC	CCC-NSA	Industry Certifications
CTS 2303	Configuring Windows Servers	4	Recommended Prep: CGS 1060C and CTS 1134 or equivalent knowledge		✓	
CTS 2192C	Microsoft Azure Administration	4	Recommended preparation: CTS 1145 or knowledge in Azure Fundamentals		✓	Microsoft Azure Administrator Associate
Elective	CGS*; CIS*; COP*; CTS* CIS 1949, CIS 2900, COP 1047C, CTS 2143C	1				
	Semester Credits	**9**				
	Program Total	**60**		**24**	**24**	