

FCC Curriculum Pathway

The Curriculum Pathway provides full-time students with a **suggested guide** for completing an Associate Degree in two years (four semesters). Students who choose to take less than 15 credits per semester or who require Developmental English and/or Math will need additional semesters to complete their degrees. Taking classes in the Summer and/or January terms allow students to catch up and stay on target. **It is recommended all students meet with an Advisor each semester to carefully select and sequence courses based on their specific interests and needs.** Using the Curriculum Pathway along with the PeopleSoft Degree Plan allows students to track their progress towards graduation.

Major: Information Technology Option II: Network Engineer A.A.S. Catalog Year: 2016-2017

Course Number	Course	Credit	Complete
First Year – First Semester			
EN 101	English Composition (Prerequisite: EN 50A and EN 52 or ESL 95 and ESL 99)	3	
CORE	Mathematics General Education Elective (Prerequisite: MA 82) (MA206 recommended)	3	
CIS 106	Object Design & Programming (Prerequisite: EN50A and EN52 OR ESL95 and ESL99 and MA81)	3	
CIS 111M AND	PC Operating Systems (Pre or Co-requisite: CIS 101, 106, 116D, or 212)	3	
CIS 212	PC Repairs & Diagnostics (Pre or Co-requisite: CIS 101, 106, 116D, or 111M)	3	
CIS 111M and 212 need to be taken in the same semester with the same instructor.			
Semester Total		15	
First Year – Second Semester			
CORE	Social & Behavioral Sciences General Education Elective* (HS102 recommended)	3	
CORE	Communications General Education Elective* (CMSP105 recommended)	3	
CIS 179 OR	Cybersecurity Fundamentals (Pre or Co-requisite: CIS 106)	3	
CIS 218	Information Security & Assurance (Pre or Co-requisite: CIS 106)	3	
CIS 190	Cisco 1 Networking Fundamentals (1 st 7 weeks) (Co-requisite: CIS 106 or 212)	3	
CIS 191	Cisco 2 Router Technologies (2 nd 7 weeks) (Pre or Co-requisite: CIS 190)	3	
Semester Total		15	
Second Year – First Semester			
CORE	Arts & Humanities General Education Elective* (PH101 or PH208 recommended)	3	
CIS 192	Cisco 3 Switching Technologies (1 st 7 weeks) (Pre or Co-requisite: CIS 191)	3	
CIS 193	Cisco 4 WAN Technologies (2 nd 7 weeks) (Pre or Co-requisite: CIS 192)	3	
Elective	Program Elective (INTR103, CIS111L, CIS170, CIS179, CIS180, or any CIS 200-level course)	3	
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Semester Total		15	
Second Year – Second Semester			
CORE	Biological & Physical Sciences General Education Elective (BI, CH, PC, PY)	3	
CORE	Interdisciplinary & Emerging Issues Wellness Elective (HE201 recommended; satisfies PE/HE)	3	
CIS 203	Systems Analysis & Design (Prerequisite: CIS 106)	3	
BU 281	Global Awareness in the Work Environment*	3	
Elective	Program Elective (INTR103, CIS111K, CIS111L, CIS170, CIS179, CIS180, or any CIS 200-level course)	3	
Semester Total		15	
Total Credits:		60	

Students must complete their credit English and Mathematics within the first 24 credits.
***All students must complete one cultural competence course – see course list.**

General Education Electives can be taken in the semester that works best for the student's schedule.

Students are strongly recommended to consult an FCC advisor and to use ARTSYS, the Maryland Articulation System, www.artsys.usmd.edu to select elective courses needed for transfer based on their intended major at their four-year college/university.

Developmental courses must be completed prior to enrolling into college-level courses in the major. See an advisor for further information, if needed.

- _____ Reading: EN51; EN52
- _____ Writing: EN50; EN61
- _____ Math: MA80, MA81, MA82 or MA85
- _____ English as a Second Language: ESL 99 & 95; or ESL 72 & 73