



AAS 4590 Computer Networking Technology
Effective Fall 2018

60 Credits

This is an overview of the program. Any suggested course sequencing is meant to serve as a guideline for your semester planning. Students are expected to see their assigned advisor to develop and review their individual educational plans. The scheduling of courses, program sequencing, and curriculum are subject to change.

Developmental Courses (as determined through College Placement Testing)* and Prerequisites:							
<i>* Zero level courses must be completed with a C grade or higher.</i>							
<input type="checkbox"/>	ESL classes	<input type="checkbox"/>	Engl 050	<input type="checkbox"/>	Math 006	<input type="checkbox"/>	Math 033
<input type="checkbox"/>	Engl 002	<input type="checkbox"/>	Engl 051	<input type="checkbox"/>	Math 090	<input type="checkbox"/>	Math 044
<input type="checkbox"/>	Engl 003	<input type="checkbox"/>	Engl 057	<input type="checkbox"/>	Math 008	<input type="checkbox"/>	Math 045
<input type="checkbox"/>	Engl 007			<input type="checkbox"/>	Math 022		
<input type="checkbox"/>	FS 100/103						
*See counselor/advisor to discuss this course or options to self-remediate and successfully place into higher- or college-level course.							
General Education Courses							
ENGL 101 or ENGL 110		3cr	Prerequisites: ENGL 003 & 051 or ENGL 057 with C or higher; Co: ENGL 003 Prerequisites: Eligibility for ENGL 101; Co-req: ENGL 003				
COMM 101 or COMM 203		3cr	Prerequisites: Eligibility for ENGL 101 and completion of any reading course Prerequisite: ENGL 101 with a grade of C or higher				
Humanities & Arts		3cr	Select ONE from list: ARTS 181 or 182; ENGL 206; HUM 101, 115, or 201; MUS 104; PHIL 200; THTR 101; or a foreign language				
Social & Behavioral Sciences		3cr	Core B Elective				
Wellness		1cr	See College Catalog for a list of approved courses				
First Year Seminar		1cr	Unless exempted by examination. See HACC catalog for a list of approved courses				

Required Program Courses			
CIS 222	3cr	Introduction to Windows Servers	Prerequisites: CNT 120 with a grade of C or higher.
CIS 227	3cr	Technical Support	Prerequisites: CNT 120, and CIS 222 or 249 or 264 or 265 with grades of C or higher.
CIS 264	3cr	Fundamentals of LINUX Administration	Prerequisites: CNT 120 with a grade of C or higher; or permission of the Instructor.
CISE 200	3cr	Information Security Fundamentals	Prerequisites: ENGL 101, CNT 120, and CIS 222, 264, or 249 with grades of C or higher; or permission of the Instructor.
CNT 120	3cr	Network Communications Technology	Prerequisites: Eligibility for enrollment into ENGL 101 and MATH 055 (or MATH 051) or MATH 045; or permission of the Instructor.
CNT 125	4cr	Network Communications Technology II	Prerequisites: CNT 120 with a grade of C or higher.
CNT 140	3cr	The Physical Network	Prerequisites: CNT 120 with a grade of C or higher.
CNT 220	5cr	Internetworking	Prerequisites: CNT 125 with a grade of C or higher.
ELEC 125	3cr	Introduction to PC Technology	Prerequisites: Familiarity with word processing and MS Windows Operating Systems.
ELEC 126	4cr	Installing and Troubleshooting	Prerequisites: ELEC 125; or CIS 127 and 210 with grades of C or higher.
MATH 100	3cr	College Mathematics for Business	Prerequisites: Completion of MATH 008 and 022 (or MATH 010) or MATH 007 with grades of C or higher

Program Specific Electives	9cr	Select 9 credits from the following: CIS 223 – Intermediate Windows Servers CISE 210 – Information Security Administration CNT 230 – Telecommunications and IP Telephony CNT 240 – Cisco Routing CNT 250 – Virtualization and Cloud Computing CNT 260 – Wireless Administration CNT 291 – Cooperative Work Experience Any 200-Level CNT course not already required.	View Course Descriptions and Prerequisites at http://www.hacc.edu/ProgramsandCourses/index.cfm
-----------------------------------	-----	---	---

Advising Notes

Grades of C or higher are required for all computer-related courses (CIS, CISE, CNT, CPS, ELEC).

Certifications and Certificates for Credit Computer Department ~~ April 2017

Certifications must be current at the time of presentation for this credit.

*** *Computer industry certifications and transfer of college computer related credits over 7 years of age will not be accepted for students in the following majors: AOM, CIS, CISE, CNT, Computer Repair or WEB.* ***

Software, AOS and Database:

1. CAP/CPS = AOS 101, 110, 203, 225, & 226. (15 credits)
2. MOS in PowerPoint = CIS 108
3. MOS in Word, Access and Excel = CIS 105
4. MOS Expert = no credit
5. MOS Master- student must take Word, Access and excel options of the exam to earn credit for CIS 105
6. MOS Master- if student takes PowerPoint exam as part of the series, they also would earn CIS 108
7. Non-credit certificate in computer proficiency = CIS 105
8. PHEAA training academy certificate in PowerPoint = CIS 108
9. PHEAA training academy certificate in word, excel and access = CIS 105
10. MCDBA -Microsoft Certified Database Administrator (MCDBA) credential, you must pass four exams: equivalent to CIS140 (Access), CIS241 (DBAI), and DB Elective (9 - credits).
11. Microsoft Solutions Expert in Business Intelligence certificate = CIS 257

Hardware & Networking:

1. A+= CIS 127, ELEC 125 and ELEC 126= 10 credits
2. BICSI (Installer 1, Installer 2, Technician) = credit for CNT 140 can be given (Contact Rich Elwell for ok)
3. Cisco CCNA = CNT 240
4. Cisco CCNA specialty certification - CCNA Wireless = CNT 260
5. CCNA specialty cert - CCNA Voice = CNT 230 (previously a 282 course)
6. Cisco CCNA specialty cert - CCNA Security = nothing at this time. See Professor Rich Elwell for any updates.
7. MCSA = CIS 127 and 1 computer elective=6 credits
8. MCSE = CIS 127, CIS 110 and 2 computer electives=12 credits
9. MCSE and A+ = CIS 127, CIS 110, ELEC 125, ELEC 126 and 1 computer elective= 16 credits
10. MCDST = CIS 127
11. Network+ = CNT 120
12. Network+ cert & proof of "On the Job" experience with networking - credit for CNT 120 & CNT 125 may be given. Student should contact Professor Doug Brown or Professor Rich Elwell for approval
13. SECURITY+ = CNT Technical Elective
14. CCNA Security Exam 210-260 (may not be more than 3 years old) = CISE 200

Recommended Sequence For Full-Time Students

Part-time students can complete this program by taking one or more courses each semester.

Fall Semester I		Spring Semester I		Fall Semester II		Spring Semester II	
CNT 120	3	CNT 125	4	CIS 222	3	CIS 227	3
COMM 101 or 203	3	CNT 140	3	CIS 264	3	CISE 200	3
ELEC 125	3	ELEC 126	4	CNT 220	5	Mathematics or Science Elective	3
ENGL 101 or 110	3	Social/Behavioral Science Elective	3	Program Elective	3	Program Electives	6
Humanities/Arts Elective	3			Wellness	1		
FYS Elective	1						

Counselor/Advisor Contact Information by Campus:

<u>Gettysburg</u>	<u>Harrisburg</u>	<u>Lancaster</u>	<u>Lebanon</u>	<u>York</u>
Student Services	Counseling and Advising	Counseling and Advising	Receptionist Desk	Counseling and Advising
Lobby	Cooper 219	221 Main	Lobby	Leader Suite 104
717-337-3855	717-780-2498	717-358-2988	717-270-4222	717-801-3213