



Computer Networking Technology
AAS #4590 (60 credits)
Effective Fall 2018

Developmental Courses as determined through College Placement Testing* and as Prerequisites:

* Please note: 0-level courses do not transfer and do not count toward graduation requirements; however, they are required to enter college level courses.

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| English as Second Language
___ Any ENGL ESL classes* | Writing Fundamentals
___ ENGL 050*
___ ENGL 051* | Math Testing Prior to 4/16
___ FS107 (option)
___ MATH 010*
___ MATH 020* |
| Reading Comprehension
___ ENGL 001*
___ ENGL 002*
___ ENGL 003* | Freshman Year Exp.
___ FS 100 / 102
___ Dept. FYE | |
| Reading/Writing Combination
___ ENGL 056ST (002/050)*
___ ENGL 057 (051/003)* | | |

Math Testing AFTER 4/16	
___ FS107 (option)	___ MATH 033*
___ MATH 008*	___ MATH 044*
___ MATH 022*	

*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	3	Pre: ENGL 003 & ENGL 051 or ENGL 057 with C or higher; Co: ENGL 003 Pre: Eligibility for ENGL 101; Co-req: ENGL 003
Comm 101 or Comm 203	3	Eligibility for ENGL 101 and completion of any reading course ENGL 101 with a grade of C or higher
Core A: Humanities and Arts Elective	3	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
Core B: Social/Behavioral Sciences Elective	3	
PE/Wellness	1	See HACC catalog for a list of Wellness courses
FYS Seminar	1	Unless exempted by examination. See HACC catalog for a list of approved courses.

Required Program Courses			
		Course Title	Pre/Co-Req/Notes
CIS 222	3	Introduction to Windows Servers	Pre: CNT 120
CIS 227	3	Technical Support	Pre: CNT 120 & CIS 222 or 249 or 264 or 265
CIS 264	3	Fundamentals of Linux Administration	Pre: CNT 120 with C or higher
CISE 200	3	Information Security Fundamentals	Pre: ENGL 101, CNT 120, & CIS 222, CIS 249 or CIS 264
CNT 120	3	Network Communication Technology I	Pre: Eligibility for MATH 051 or (055) & ENGL 101
CNT 125	4	Network Communication Technology II	Pre: CNT 120
CNT 140	3	The Physical Network	Pre: CNT 120
CNT 220	5	Internetworking	Pre: CNT 125
ELEC 125	3	Introduction to PC Technology	
ELEC 126	4	Installing and Troubleshooting PC's	Pre: ELEC 125 or (CIS 127 and CIS 210)
MATH 100	3	College Mathematics for Business	Pre: MATH 010 or 022

Program Specific Electives	9	<u>Select 9 credits from the following:</u> 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
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Advising Notes

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

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	MATH 100 (Core C)	3
ENGL 101 or 110	3	Social/Behavioral Science Elective	3	Program Elective	3	Program Elective	3
Humanities/Arts Elective	3			Wellness	1	Program Elective	3
FYS Elective	1						

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 your assigned advisor to develop and review their individual educational plans. Program specific questions can be directed to the faculty contacts. The scheduling of courses, program sequencing and curriculum are subject to change.

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	Welcome Center
Lobby	Cooper	221 Main	Lobby	Leader 102
717-337-3855	717-780-2498	(717) 358-2988	717-270-4222	717-801-3213, ext. 3513

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