



**Computer Information Security (CISE)**  
**AAS #1030 (65 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.

**English as Second Language**

\_\_\_ Any ENGL ESL classes\*

**Reading Comprehension**

\_\_\_ ENGL 001\*

\_\_\_ ENGL 002\*

\_\_\_ ENGL 003\*

**Reading/Writing Combination**

\_\_\_ ENGL 056ST (002/050)\*

\_\_\_ ENGL 057 (051/003)\*

**Writing Fundamentals**

\_\_\_ ENGL 050\*

\_\_\_ ENGL 051\*

**Freshman Year Exp.**

\_\_\_ FS 100 / 102

\_\_\_ Dept. FYE

**Math Testing Prior to 4/16**

\_\_\_ FS107 (option)

\_\_\_ MATH 010\*

\_\_\_ MATH 020\*

\_\_\_ MATH 051\*

**Math Testing AFTER 4/16**

\_\_\_ FS107 (option)

\_\_\_ MATH 008\*

\_\_\_ MATH 022\*

\_\_\_ MATH 033\*

\_\_\_ MATH 044\*

\_\_\_ MATH 055\*

\*See counselor/advisor to discuss this course or options to self-remediate and successfully place into higher- or college-level course

General Education Courses		
<b>ENGL 101</b>	3	Pre: ENGL 051 with C or higher & Co: ENGL 003
<b>ENGL 102 or ENGL 104</b>	3	Pre: ENGL 101 with C or higher Pre: ENGL 101 with C or higher
<b>Comm 101</b>	3	Pre: Eligibility for ENGL 101 and completion of any reading course
<b>Core A</b>	3	Humanities and Arts Elective: 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
<b>Core B</b>	3	Social and Behavioral Sciences Elective
<b>Core C – Science w/lab</b>	3	Science (must have a lab component)
<b>PE/Wellness</b>	1	See HACC catalog for a list of Wellness courses
<b>FYS Seminar</b>	1	Unless exempted by examination. See HACC catalog for a list of approved courses.

Required Program Courses			
		Course Title	Pre/Co-Req/Notes
<b>CIS 105</b>	<b>3</b>	Intro to Software for Business	Pre: ENGL 003 and ENGL 051
<b>CIS 140</b>	<b>3</b>	Intermediate Database Management	Pre: CIS 105
<b>CIS 222</b>	<b>3</b>	Introduction to Windows Servers	Pre: CNT 120
<b>CIS 224</b>	<b>4</b>	Introduction to Systems Analysis & Design	Pre: CNT 120 with a grade of C or higher; and one of the following with a grade of C or higher: CIS 238, 245; CPS 115, 121, 135, 230; WEB 140, 143, 144, 220, 240, 242, 244, 246.
<b>CIS 241</b>	<b>3</b>	Database Administration I	Pre: CIS 140 or WEB 143
<b>CIS 264</b>	<b>3</b>	Fundamentals of Linux Administration I	Pre: CNT 120
<b>CNT 120</b>	<b>3</b>	Network Communication Technology I	Pre: Eligibility for MATH 051 or (055) & ENGL 101
<b>CNT 125</b>	<b>4</b>	Network Communication Technology II	Pre: CNT 120
<b>CISE 200</b>	<b>3</b>	Information Security Fundamentals	Pre: ENGL 101, CNT 120, & CIS 222, CIS 249 or CIS 264
<b>CPS 121</b>	<b>3</b>	Computer Science I - Introduction to Computer Programming JAVA	Pre: MATH 103

<b>MATH 103 or MATH 119 or MATH 121</b>	<b>3 (4) (4)</b>	College Algebra or Pre-Calculus or Calculus I	Pre: MATH 033, 044, 055 or 051 Pre: MATH 103 & MATH 104 Pre: MATH 119
<b>MATH 202</b>	<b>4</b>	Introduction to Statistics	Pre: MATH 033, 044, 055 (or 051) & ENGL 003 and 051 (or ENGL 057)
<b>Program Electives**</b>	<b>6</b>	Choose 2 from the following: CIS 145, 243, 245, 247, 270; CISE 210; CNT 220, 230, 240, 250, 260, 291; CPS 161, 162, 230; ELEC 125, 126; MATH 104, 119, 121, 125, 203; WEB 143.	

## Advising Notes

\*\*Choose Program Electives appropriate for transfer school. Not all institutions will accept all options.

*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.*

### 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		Summer	Fall Semester II		Spring Semester II	
Arts/Humanities	3	CIS 140	3		CIS 222	3	CIS 224	4
Elective		CNT 125	4		CIS 241	3	CIS 264	3
CIS 105	3	CPS 121	3		COMM 101	3	CISE 200	3
CNT 120	3	ENGL 102 or 104	3		Program Elective	3	Program Elective	3
ENGL 101	3	MATH 202	4		Science (Lab)	3	Social/Behavioral	3
FYS Elective	1				Wellness	1	Science Elective	
MATH 103 or 119 or 121	3 or 4							

## 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

<b>Counselor/Advisor Contact Information by Campus:</b>				
<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