



# CyberSecurity and Networking: Database (15-16)

## Information Systems & Technology Management Typical Course Sequence | AAS Degree



	CORE COURSES			GENERAL EDUCATION	
1st Term	<b>ISTM183A (3 cr) A+ Essentials</b> Training in material appropriate to prepare for the <b>CompTIA A+ Essentials cert.</b>	<b>ISTM183C (3 cr) Fundamentals of CyberSecurity</b> An Introduction to CyberSecurity including theory, basic techniques, and optimization of PCs and small networks	<b>CIS151 (4 cr) Network Fundamentals</b> A comprehensive program designed to teach student networking and internet-working technology skills.	Human Relations Requirement (3-4 cr) (Recommended HUM202—Ethics in the Workplace)	Health & PE (3 cr)
2nd Term	<b>ISTM183B (3 cr) A+ Practical Application</b> Training in material appropriate to prepare for the <b>CompTIA A+ Practical Application cert.</b>	<b>CIS122 (4 cr) Computer Concepts III</b> An introduction to programming.	<b>CIS125SS (3 cr) Spreadsheets</b> Emphasis will be on spreadsheet creation, editing, formatting, copying, deleting and formula specification, spreadsheet functions, font selection, shading, borders, editing and data entry techniques, formulas.	<b>CIS152 (4 cr) Fundamentals of Routing Theory</b> An introduction to routing technology, routing theory and router configuration.	BA267 Business Project Management
3rd Term	<b>CIS125DB (3 cr) Desktop Databases</b> Emphasis will be on creating and populating databases; creating an application system built around a database, multiple tables and queries; database administration.	<b>CIS153 (4 cr) Scaling Networks</b> An introduction to: switching, VLANs, VTP, Inter-VLAN routing, and IPv6 configuring	<b>CIS284NS (4 cr) Network Security Fundamentals</b> Introduces students to the ever growing need for professionals trained in network security.	MTH111 (5 cr) Pre-Calculus I: Elementary Functions Or higher	WR121 (4 cr) English Composition
4th Term	<b>ISTM283B (3 cr) Security Strategies</b> Focuses on the new risks, threats, and vulnerabilities associated with the Microsoft Windows operating system.	<b>CIS288 (3 cr) Connecting Networks</b> An introduction to: WAN environment, VPNs, and wireless. Students are ready for the <b>CCNA certification exam</b>	<b>CIS279S (4 cr) Windows Server OS</b> Provides a foundation for supporting Microsoft Windows Server OS including the skills to configure, customize, optimize, integrate, and troubleshoot networks.	<b>CIS276 (4 cr) SQL</b> User interaction with databases is accomplished using a "Structured Query Language" or SQL per the industry ANSI-SQL standard.	
5th Term	<b>CIS277 (4 cr) PL/SQL Developer OCA</b> This course builds upon the Oracle SQL experience adding Oracle's Procedural Language to create application code blocks for multiple forms, reports and other applications.	<b>CIS277S (4 cr) SQL Server</b> This course investigates the similarities and differences between Microsoft's SQL Server and Oracle's database implementation.	<b>CIS284S (4 cr) Introduction to Computer Security</b> Teaches students the skills needed to effectively manage the current Novell Server Operating System.	<b>WE280CAD (4 cr) Cooperative Education Internship</b>	
6th Term	<b>ISTM283EB Ethical Hacker (3cr)</b> Continuation of the ISTM283EA course. Prepares for <b>CEHv7 cert.</b>	<b>CIS277BI (4 cr) Oracle Business Intelligence</b> This course continues the investigation of databases by introducing Business Intelligence reporting and Web user interface.	<b>CIS295CMS (4 cr) Web Development: Content Management Systems</b> Covers the beginning CMS frameworks to develop web sites using Web 2.0 concepts and applications.	<b>CIS297 (4 cr) Capstone Development Practicum</b> Students select and explore a topic that both relates to their specific studies and their field of work.	

MHCC Faculty Adviser

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be | relevant

This is a sample schedule and courses are subject to change.

People requiring accommodations due to disability should contact the Disability Services Office at 503-491-6923 or 503-491-7670 (TDD). Please call at least 2 weeks prior to event