

# Information Technology

**1 Enterprise Systems** – This is the most generic/well-rounded concentration option. Several courses build upon concepts introduced in the major required courses to provide additional depth into that field.

Course		Prerequisites	
IT 3503	Foundations of Health IT	ENGL 1102	3
IT 4153	Advanced Database	CSE 3153 or CS 3410	3
IT 4333	Network Configuration & Administration	IT 4323 or ECET 3400 or CS 4622	3
IT 4673	Virtual IT Systems	(IT 3423 or CS 3502), (CSE 3153 or CS 3410), & IT 4323	3
IT 4403	Advanced Web and Mobile Applications	IT 3203	3

**2 Cyber Operations Security** – This concentration goes into more specific areas of information security already introduced in the IT 4823 course. It does not go into the same specifics of how networks work as the CS Cyber and Network Security concentration does. The CS concentration looks at things like network protocols and how to code them, whereas IT is understanding how to use networks and systems, protocols, and how to keep information safe.

Course		Prerequisites	
IT 4833	Wireless Security	IT 4323 or ECET 3400 or CS 4622	3
IT 4843	Ethical Hacking for Effective Defense	IT 4323 or ECET 3400 or CS 4622	3

**3 Data Analytics and Technology** – This concentration does not go into the same depth as the CS Data Science concentration either, but instead teaches the different systems and methods for how to go about managing and using big data systems. Also, this concentration teaches students how to utilize  
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