NETWORK ADMINISTRATION, B.TECH.

Major Code: 3047

Current students majoring in this program are currently completing their course of study. Moving forward, content from this program has been transitioned to the closely associated Network & System Administration Concentration within our Information Technology B.Tech. program. Interested students are strongly encouraged to explore that option.

Enterprises need information to create competitive advantages in today's dynamic business environment. Business people require tools like the Internet, the World Wide Web, laptops, smart phones, cloud computing, wireless technology, multimedia, social media, and e-commerce. Typically, business people do not need to understand how the technology works; they simply want it to do the job for them. Information Technology (IT) builds on the foundation of Computer Information Systems, but it has a broader scope. IT seeks to facilitate the business processes of the organization. The information technologist not only knows how technology work but is equally interested in people and their applied use of technology to increase productivity. Your educational experience will be supported by a robust information technology infrastructure. Students receive practical hands-on experience in their field of study using the latest network technologies in a top-notch academic lab environment. These systems support the latest software applications for gaming, graphics, animation, web development, video production, databases, voice and data communications, programming, server administration, multimedia development, virtualization, cloud computing, and information security.

Student Learning Outcomes

Upon successful completion of this program, students will be able to:

- Manage, maintain, troubleshoot, install, and configure enterprise network infrastructure.
- Manage, maintain, troubleshoot, install, and configure network operating systems.
- Configure computer system security, network security, access control, and physical security.
- Design networked solutions to facilitate business processes.

Curriculum Requirements

Code	Title	Credits
CITA 110	Intro Information Technology	3
CITA 120	Computer Concepts & Op Sys	3
CITA 140	Introduction to Programming	3
CITA 190	Intro to LINUX/UNIX Systems	3
CITA 200	Data Communications Networking	3
CITA 210	Visual Languages & Devel Tools	3
CITA 230	Network Technology	3
CITA 320	Network Administration	3
CITA 370	Network Design Concepts	3
CITA 395	Internship Orientation Seminar	1
CITA 405	Project Management	3
CITA 430	Comp Integration & Interop	3
CITA 460	Organizational & End User IS	3
CITA 480	Internship Information Tech	12
BSAD 116	Business Organization & Mgmnt	3
BSAD 300	Management Communications	3
CITA 100 - 200 Level Electives as Advised		3
CITA 300-400 Level Electives as Advised		3
CITA, ACCT, or BSAD 100-200 as advised		6
CITA, ACCT, or BSAD 300-400 as advised		9
COMP 101	Composition and Research	3
COMP 310	Advance Tech Communication	3
MATH as Advised		3
Liberal Art & Science Electives as Advised		21
General Electives as Advised		14
Total Credits		**120**

Suggested Course Sequence

Course	Title	Credits
Year 1		
Fall		
CITA 110	Intro Information Technology	3
CITA 140	Introduction to Programming	3
CITA elective (as advised)		3
COMP 101	Composition and Research	3
MATH as Advised		3
GNED 100	First Year Experience	2
	Credits	17
Spring		
CITA 120	Computer Concepts & Op Sys	3
CITA 190	Intro to LINUX/UNIX Systems	3
BSAD 116	Business Organization & Mgmnt	3
Liberal Art & Science Elective (as advised)		3
Liberal Art & Science Elective (as advised)		3
	Credits	15
Year 2		
Fall		
CITA 200	Data Communications Networking	3
CITA 210	Visual Languages & Devel Tools	3
General Electives (as advised)		3
General Electives (as advised)		3
Liberal Art & Science Elective (as advised)		3
	Credits	15
Spring		
CITA 230	Network Technology	3
CITA, ACCT or BSAD-Lower Level		3
COMP 310	Advance Tech Communication	3
Liberal Art & Science Elective (as advised)		3
Liberal Art & Science Elective (as advised)		3
	Credits	15
Year 3		
Fall		
CITA 320	Network Administration	3
BSAD 300	Management Communications	3
ACCT, BSAD or CITA-Upper Level		3
Liberal Art & Science Elective (as advised)		3
Liberal Art & Science Elective (as advised)		3
	Credits	15
Spring		
CITA 370	Network Design Concepts	3
ACCT, BSAD or CITA-Upper Level		3

ACCT, BSAD or CITA-Upper Level		3
General Electives (as advised)		3
General Electives (as advised)		3
	Credits	**15**
Year 4		
Fall		
CITA 395	Internship Orientation Seminar	1
CITA 405	Project Management	3
CITA 430	Comp Integration & Interop	3
CITA 460	Organizational & End User IS	3
General Electives (as advised)		3
General Electives (as advised)		3
	Credits	**16**
Spring		
CITA 480	Internship Information Tech	12
	Credits	**12**
	Total Credits	**120**