

CIT 406. ADVANCED NETWORK TROUBLESHOOTING (Cisco #8).

Credit Hours: 5

Scheduled hours per week

Lecture: 4

Lab: 2

Other: 0

Catalog Course Description: This course is the third of three required to prepare the student for a career in networking and the Cisco CCNP certification. Topics covered include network maintenance tasks, troubleshooting models, troubleshooting tools, and troubleshooting of specific network technologies.

Pre-requisites: Grade of “C” or better in CIT 206

Co-requisites: N/A

Course Learning Outcomes:

- Demonstrate ability to implement systematic troubleshooting methods
- Describe and discuss various issues that can lead to networking problems
- Describe, discuss, and demonstrate ability to use management and diagnostic tools
- Describe and discuss routing and switching processes and their importance in troubleshooting

Topics to be studied:

- Troubleshooting Methods
- Structured Troubleshooting
- Network Maintenance Tasks and Best Practices
- Basic Switching and Routing Process
- Effective IOS Troubleshooting Commands
- Specialized Maintenance and Troubleshooting Tools

Relationship of Course to Program or Discipline Learning Outcomes:

	Ability to understand, plan, and execute good Project Management
	Ability to recognize and apply industry recognized code of ethics to various situations
	Ability to understand and apply Information Security concepts and best practices
X	Ability to plan, implement, and troubleshoot Advanced Routing and Switching technologies
	Ability to plan, implement, and troubleshoot Advanced Systems Administration technologies
X	Ability to plan, implement, and troubleshoot Advanced Security Systems

Relationship of Course to General Education Learning Outcomes:

Composition and Rhetoric Students illustrate a fundamental understanding of the best practices of communicating in English and meet the writing standards of their college or program-based communication requirements.	X
Science & Technology Students successfully apply systematic methods of analysis to the natural and physical world, understand scientific knowledge as empirical, and refer to data as a basis for conclusions.	X
Mathematics & Quantitative Skills Students effectively use quantitative techniques and the practical application of numerical, symbolic, or spatial concepts.	X
Society, Diversity, & Connections Students demonstrate understanding of and a logical ability to successfully analyze human behavior, societal and political organization, or communication.	

<p>Human Inquiry & the Past Students interpret historical events or philosophical perspectives by identifying patterns, applying analytical reasoning, employing methods of critical inquiry, or expanding problem-solving skills.</p>	X
<p>The Arts & Creativity Students successfully articulate and apply methods and principles of critical and creative inquiry to the production or analysis of works of art.</p>	
<p>5/3/2016</p>	

Special requirements of the course:

N/A

Additional information:

N/A

Prepared by: Doug Rhodes

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