CIT 114. WINDOWS OPERATING SYSTEMS.
Credit Hours: 3
Scheduled hours per week
  Lecture: 2
  Lab: 2
  Other: 0

Catalog Course Description: The second in the series of three courses required to prepare the student for a Microsoft client operating system certification. Topics covered in this semester include all aspects of a Windows workstation OS and a Windows Server OS. Network access to server resources. Network server hardware devices and driver. Server performance, reliability, and availability, network connections, security, and server troubleshooting.

Pre-requisites: CS 101

Co-requisites: CS 101

Course Learning Outcomes:
The student will have the ability to install, configure, and administer a Microsoft Windows client operating system.

Topics to be studied:
- Introduction to a Windows client operating system
- Installation of a Windows client operating system
- Utilizing Windows Systems Utilities
- Managing Disks and File Systems
- User Management
- Security Features
- Networking
- Productivity Tools
- Application Support
- Performance Tuning and System Recovery
- Device Management
- Client virtualization
- Enterprise computing
- Remote Access and Client Support

Relationship of Course to Program or Discipline Learning Outcomes:

| Identify and describe layers of the OSI and TCP/IP models, and use them effectively in troubleshooting |
| Describe and apply LAN and WAN technologies in wired and wireless environments |
| X | Demonstrate ability to apply workstation and server installation, configuration, management and troubleshooting techniques |
| X | Demonstrate ability to install, configure, manage, and maintain routing and switching technologies |
| X | Describe and discuss different operating systems and their relationship with hardware, their functions, advantages and disadvantages, and their respective tools and software packages |
| X | Explain Information Systems and choose appropriate systems based on requirements |

WVUP UCS Form Revised June 2017
Describe basic information security and computer ethics

### Relationship of Course to General Education Learning Outcomes:

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<thead>
<tr>
<th>Category</th>
<th>Description</th>
<th>X</th>
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<tbody>
<tr>
<td><strong>Composition and Rhetoric</strong></td>
<td>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.</td>
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<tr>
<td><strong>Science &amp; Technology</strong></td>
<td>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.</td>
<td>X</td>
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<tr>
<td><strong>Mathematics &amp; Quantitative Skills</strong></td>
<td>Students effectively use quantitative techniques and the practical application of numerical, symbolic, or spatial concepts.</td>
<td>X</td>
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<tr>
<td><strong>Society, Diversity, &amp; Connections</strong></td>
<td>Students demonstrate understanding of and a logical ability to successfully analyze human behavior, societal and political organization, or communication.</td>
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<tr>
<td><strong>Human Inquiry &amp; the Past</strong></td>
<td>Students interpret historical events or philosophical perspectives by identifying patterns, applying analytical reasoning, employing methods of critical inquiry, or expanding problem-solving skills.</td>
<td>X</td>
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<tr>
<td><strong>The Arts &amp; Creativity</strong></td>
<td>Students successfully articulate and apply methods and principles of critical and creative inquiry to the production or analysis of works of art.</td>
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**5/3/2016**

### Special requirements of the course:

N/A

### Additional information:

This course is designed to prepare the student for a career in the computer industry. Along with the above stated course objectives this course will prepare the student to take a Microsoft client operating system certification exam.

**Prepared by:** Doug Rhodes

**Date:** 10/20/2017