CIT 460. INTERDISCIPLINARY PROJECTS.
Credit Hours:  3
Scheduled hours per week
  Lecture: 3
  Lab: 0
  Other: 0

Catalog Course Description: An investigation of an actual or experimental situation; may involve the design, construction, and testing of an experimental apparatus. Students will be assigned to a multiple-disciplinary project team. Capstone course.

Pre-requisites: Grade of “C” or higher in STEM 420

Co-requisites: N/A

Course Learning Outcomes:
To demonstrate a comprehensive knowledge and understanding of the topics taught in the BAT degree program, and that ability to apply those concepts to real world situations.

Topics to be studied:
- Selecting a project
- Needs assessment and goals
- Design Methodology
- Network Topologies
- Systems design
- Technology plans

Relationship of Course to Program or Discipline Learning Outcomes:

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<th>X Ability to understand, plan, and execute good Project Management</th>
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<td>X Ability to recognize and apply industry recognized code of ethics to various situations</td>
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<td>X Ability to understand and apply Information Security concepts and best practices</td>
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<td>X Ability to plan, implement, and troubleshoot Advanced Routing and Switching technologies</td>
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<td>X Ability to plan, implement, and troubleshoot Advanced Systems Administration technologies</td>
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<td>X Ability to plan, implement, and troubleshoot Advanced Security Systems</td>
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For general education courses, a listing of the general education competencies that are met.

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<th>Relationship of Course to General Education Learning Outcomes:</th>
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<td>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.</td>
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<td>Science &amp; 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.</td>
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<td>Mathematics &amp; Quantitative Skills Students effectively use quantitative techniques and the practical application of numerical, symbolic, or spatial concepts.</td>
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<td>Society, Diversity, &amp; Connections Students demonstrate understanding of and a logical ability to successfully analyze human behavior, societal and political organization, or communication.</td>
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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.

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.

5/3/2016

Special requirements of the course:
- Students will complete a comprehensive project at the end of the class.
- Student must sit for a comprehensive exam of all BAT courses.

Additional information:
- The project will be presented in both a written paper and in class presentation.

Prepared by: Doug Rhodes

Date: 10/20/2017