Syllabus: INT 697 – Advanced LAN Switching

Instructor:

Jon Tholstrup, CCAI/CCNP   Phone: 785-628-5236
TH 123B, 600 Park Street   E-mail: jtholstr@fhsu.edu
Hays, KS 67601

Required Learning Resources and Texts:

Cisco Networking Academy – “CCNP: Building Multilayer Switched Networks v5.0”
Curriculum access is provided on-line to students enrolled in the course. No textbooks required.

Objectives:

This course deepens and broadens our knowledge of data communications in Multilayer Switched Networks, specifically exploring Enterprise-Class Switched Networks. The course focuses on key topics associated with building large Enterprise Local Area Networks (LANs) designed to support integrated network applications.

Activities:

Students in this course will study the CCNP: Building Multilayer Switched Networks v5.0 curriculum. Chapters 2 through 8 will have associated formative assessments. Additional knowledge will be gained through hands-on laboratory exercises. For summative assessment, there will be one written Final Exam along with two Skills Exams in this course.

Additional readings may be provided throughout the semester as supplemental information to the text. Any supplemental material provided has a potential of becoming lab exercise(s) and/or a quiz subject.

Undergraduate Student Grading:

Undergraduate students must complete the following work, weighted as shown below.

- Seven equally weighted Chapter Exams
- Two Lab Skills Exams
- Final Exam
- Lab Reflection Journal (or) choice of the following Cisco certification exam
  - 642-812 BCMSN (or)
  - 642-892 Composite
The grade a student earns is based on the following percentage scale:

<table>
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<tr>
<th>Percentage Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>93.0% and greater</td>
<td>A</td>
</tr>
<tr>
<td>82.0% to 92.9%</td>
<td>B</td>
</tr>
<tr>
<td>71.0 to 81.9%</td>
<td>C</td>
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<tr>
<td>60.0% to 70.9%</td>
<td>D</td>
</tr>
<tr>
<td>Less than 60.0%</td>
<td>U</td>
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Graduate Student Grading:

Graduate Students must complete a term paper (in three parts) in addition to all of the assignments listed for undergraduate students. At the conclusion of this course, Graduate students are also expected to sit for the current CCNP Certification Exam (642-812 BCMSN or 642-892 Composite).

The term paper has three assignments. Overall there are 100 points possible and the final paper should be between 12 and 20 pages.

- Literature review (20 points)
- Idea Paper (20 points)
- Formal Term Paper (60 points)

Choose one of the following topics:

- Multilayer Switching: Issues and Security
- Network Services: Integrating Voice and Video in an Enterprise Network

Policies and Procedures:

Policies and procedures printed in the student hand book apply to this class. Students should carefully read the policies. In particular, policies on academic honesty, the ethical use of computing resources and student discipline should be read by each student.