Note:

Course content may be changed, term to term, without notice. The information below is provided as a guide for course selection and is not binding in any form, and should not be used to purchase course materials.
COURSE SYLLABUS

BMIS 520
IT INFRASTRUCTURE

COURSE DESCRIPTION
This course explores the design, implementation, and management of digital networks. Topics will include telecommunications fundamentals, server architecture, as well as cluster and grid computing. The course will explore the development of an integrated technical architecture (hardware, software, networks, and data) to serve organizational needs in a rapidly changing and competitive technological environment.

RATIONALE
The course will explore the development of an integrated technical architecture (hardware, software, networks, and data) in order to serve organizational needs in a rapidly changing and competitive technological environment. This course explores the design, implementation, and management of digital networks.

I. PREREQUISITE
For information regarding prerequisites for this course, please refer to the Academic Course Catalog.

II. REQUIRED RESOURCE PURCHASE
Click on the following link to view the required resource(s) for the term in which you are registered: http://bookstore.mbsdirect.net/liberty.htm

III. ADDITIONAL MATERIALS FOR LEARNING
A. Computer with basic audio/video output equipment
B. Internet access (broadband recommended)
C. Microsoft Office

IV. MEASURABLE LEARNING OUTCOMES
Upon successful completion of this course, the student will be able to:
A. Integrate biblical principles within the field of information technology and infrastructure.
B. Distinguish parallel and distributed computing systems.
C. Contrast computing infrastructure used by competing organizations.
D. Appraise advanced business technologies for scalable infrastructure.
E. Create an infrastructure plan that will support the business objectives of an organization.

V. Course Requirements and Assignments
A. Textbook readings and lecture presentations
B. Course Requirements Checklist
   After reading the Syllabus and Student Expectations, the student will complete the related checklist found in Module/Week 1.
C. Discussion Board Forums
   The student is required to provide a thread in response to the provided prompt for each forum.
D. IT Infrastructure Practical Assignments
   The student will complete practical assignments that involve how different network configurations affect network performance. Each assignment builds upon the previous assignment. This will enable the student to see different real-life network designs and will allow him/her to experience how changing a few components in a network can improve performance.
E. IT Infrastructure Projects
   IT infrastructure projects will focus on comprehensive re-design and new design of a hypothetical organization that is expanding its products and services.
F. Exams
   The Midterm and Final Exams will cover the Reading & Study materials for the modules/weeks in which they are assigned.

VI. Course Grading and Policies
A. Points
   
<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Requirements Checklist</td>
<td>10</td>
</tr>
<tr>
<td>Discussion Board Forums (1 at 40 pts, 1 at 100 pts)</td>
<td>140</td>
</tr>
<tr>
<td>IT Infrastructure Practical Assignments (2 at 30 pts ea)</td>
<td>60</td>
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<tr>
<td>IT Infrastructure Projects (2 at 200 pts ea)</td>
<td>400</td>
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<tr>
<td>Midterm Exam (Modules 1–4)</td>
<td>200</td>
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<tr>
<td>Final Exam (Modules 5–8)</td>
<td>200</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>1010</strong></td>
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</tbody>
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A. Scale

C+ = 820–839  C = 780–819  C- = 760–779  F = 0–759

B. Disability Assistance

Students with a documented disability may contact Liberty University Online’s Office of Disability Academic Support (ODAS) at LUOODAS@liberty.edu to make arrangements for academic accommodations. Further information can be found at www.liberty.edu/disabilitysupport.
# Course Schedule

## BMIS 520


<table>
<thead>
<tr>
<th>Module/Week</th>
<th>Reading &amp; Study</th>
<th>Assignments</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Stallings &amp; Case: chs. 1-3 1 presentation</td>
<td>Course Requirements Checklist  DB Forum 1</td>
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<tr>
<td>2</td>
<td>Stallings &amp; Case: chs. 4–6 1 presentation</td>
<td>IT Infrastructure Practical Assignment 1</td>
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<tr>
<td>3</td>
<td>Stallings &amp; Case: chs. 7–9 1 presentation</td>
<td>Midterm Exam</td>
<td>200</td>
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<tr>
<td>4</td>
<td>Stallings &amp; Case: chs. 10–12 1 presentation</td>
<td>IT Infrastructure Practical Assignment 2</td>
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<tr>
<td>5</td>
<td>Stallings &amp; Case: chs. 13–15 1 presentation</td>
<td>IT Infrastructure Project Phase I</td>
<td>200</td>
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<tr>
<td>6</td>
<td>Stallings &amp; Case: chs. 16–17 1 presentation</td>
<td>DB Forum 2</td>
<td>100</td>
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<td>7</td>
<td>Stallings &amp; Case: chs. 18–19 1 presentation</td>
<td>IT Infrastructure Project Phase II</td>
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<td>8</td>
<td>Stallings &amp; Case: chs. 1–19 1 presentation</td>
<td>Final Exam</td>
<td>200</td>
</tr>
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</table>

**Total** 1010

DB = Discussion Board

**NOTE:** Module/Week one begins on Monday and ends at 11:59 p.m. (ET) on Friday. Modules/Weeks 2-8 begin on Saturday and end at 11:59 p.m. (ET) on Friday.