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 351
SYSTEM ANALYSIS AND DESIGN

COURSE DESCRIPTION

This practical course in information systems development will cover the concepts, skills, methodologies (RAD as well as SDLC), and tools essential for systems analysts to successfully develop information systems. The course will also introduce the student to the Oracle Designer CASE tools, which will be used to assist in the documentation of the analysis and design phases. The course will include a significant amount of team-based activities, therefore issues associated with team interactions and processes will be discussed.

RATIONALE

Object-oriented systems analysis and design is gaining in popularity. As emphasis on the Internet continues to expand in the business world, an increasing amount of software is designed to operate in this environment—almost entirely using object-oriented tools and techniques. Although OOSAD is based on object-oriented concepts and is different from the still-popular structured analysis methodology developed in the 1970’s, the overall focus on the development of effective information systems is the same.

I. PREREQUISITES

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

II. REQUIRED RESOURCE PURCHASES

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 video equipment
B. Internet access (broadband recommended)
C. Microsoft Word and PowerPoint
   (Microsoft Office is available at a special discount to Liberty University students.)

IV. MEASURABLE LEARNING OUTCOMES

Upon successful completion of this course, the student will be able to:
A. Discuss the relevance of course material to a Biblical Worldview.
B. Perform various analysis projects, which include analyzing a problem and identifying the computing requirements appropriate to its solution.
C. Design a process component or program to meet the desired need.
D. Analyze a computer-based system.
E. Utilize current techniques, skills, and tools necessary for computing practice.

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 (8)
   In each module/week, the student will post a thread of at least 200 words containing thoughtful answers to the prompts provided. Also, the student must post at least 2 100-word replies to classmates’ threads.
D. Minicase Assignments (4)
   The student will complete 4 Minicase problems from the textbook, studying business scenarios and applying what is learned in the course. The student must read the case, answer the questions, and submit his/her answers.
E. Systems Design Project
   The student will create an entire SDLC process that will bring added value to a business, using his/her own place of business (preferred) or an existing business.
F. Quizzes (4)
   In Modules/Weeks 2, 4, 6, and 8, the student will take open-book/open-note quizzes covering course material. Each quiz contains 25 multiple-choice and true/false questions and must be completed in 60 minutes.

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 (8 at 40 pts ea)</td>
<td>320</td>
</tr>
<tr>
<td>Minicase Assignments (4 at 50 pts ea)</td>
<td>200</td>
</tr>
<tr>
<td>Systems Design Project</td>
<td>180</td>
</tr>
<tr>
<td>Quizzes (4 at 75 pts ea)</td>
<td>300</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>1010</strong></td>
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</table>
B. Scale
   A = 900–1010    B = 800–899    C = 700–799    D = 600–699    F = 0–599
C. Late Assignment Policy
   If the student is unable to complete an assignment on time, then he or she must contact the instructor immediately by email.
Assignments that are submitted after the due date without prior approval from the instructor will receive the following deductions:

1. Late assignments submitted within one week of the due date will receive a 10% deduction.
2. Assignments submitted more than one week late will receive a 20% deduction.
3. Assignments submitted two weeks late or after the final date of the class will not be accepted.
4. Late Discussion Board threads or replies will not be accepted.

Special circumstances (e.g., death in the family, personal health issues) will be reviewed by the instructor on a case-by-case basis.

D. Statute of Limitations

Any questions or complaints regarding the grading of attendance, projects, assignments, quizzes, exams, or any other graded work must be raised within one week after the score is made available (not when the student receives it or looks it up). The instructor reserves the right to deny legitimate grade changes due to grading errors if the score is not challenged within the week.

E. 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 351**


<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>Dennis et al.: ch. 1&lt;br&gt;1 presentation</td>
<td>Course Requirements Checklist&lt;br&gt;Class Introductions&lt;br&gt;Discussion Board Forum 1</td>
<td>10 0 40</td>
</tr>
<tr>
<td>2</td>
<td>Dennis et al.: chs. 2–4&lt;br&gt;1 presentation</td>
<td>Discussion Board Forum 2&lt;br&gt;Minicase Assignment 1&lt;br&gt;Quiz 1</td>
<td>40 50 75</td>
</tr>
<tr>
<td>3</td>
<td>Dennis et al.: chs. 5–6&lt;br&gt;1 presentation</td>
<td>Discussion Board Forum 3&lt;br&gt;Minicase Assignment 2</td>
<td>40 50</td>
</tr>
<tr>
<td>4</td>
<td>Dennis et al: chs. 7–8&lt;br&gt;1 presentation</td>
<td>Discussion Board Forum 4&lt;br&gt;Minicase Assignment 3&lt;br&gt;Quiz 2</td>
<td>40 50 75</td>
</tr>
<tr>
<td>5</td>
<td>Dennis et al.: chs. 9, 11&lt;br&gt;1 presentation</td>
<td>Discussion Board Forum 5&lt;br&gt;Minicase Assignment 4</td>
<td>40 50</td>
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<tr>
<td>6</td>
<td>Dennis et al.: ch. 10&lt;br&gt;1 presentation</td>
<td>Discussion Board Forum 6&lt;br&gt;Quiz 3</td>
<td>40 75</td>
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<tr>
<td>7</td>
<td>Dennis et al.: ch. 12&lt;br&gt;1 presentation</td>
<td>Discussion Board Forum 7&lt;br&gt;Systems Design Project</td>
<td>40 180</td>
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<tr>
<td>8</td>
<td>Dennis et al.: ch. 13&lt;br&gt;1 presentation</td>
<td>Discussion Board Forum 8&lt;br&gt;Quiz 4</td>
<td>40 75</td>
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**TOTAL** | **1010** |

**NOTE:** Each course week (except Module/Week 1) begins on Tuesday morning at 12:00 a.m. (ET) and ends on Monday night at 11:59 p.m. (ET). The final week ends at 11:59 p.m. (ET) on Friday.