MATH 2358: Correspondence

Course Sample
Welcome to
MATH 2358
Discrete Mathematics I

New to the course? Click the Course Content link at left, then read the Get Started materials.

Returning to the course? Click the Course Content link and resume where you left off.
Course Content

MATH 2358.13 corr: Learning Modules

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  - Objectives and Assignments
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Lesson 2 - Predicates, Quantifiers, & Nested Quantifiers
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Last Visit: Oct 24, 2014 3:13 PM
Lesson One - Propositional Logic & Equivalences

Discussion

Propositional logic is the foundation of the architecture of digital computers and, thus, software development relies heavily on it as well. Mathematics also has propositional logic as its foundation, since the time of Euclid (the nineteenth and twentieth centuries developed the logical foundations of mathematics more fully). It is very important to master this lesson before moving on to Lesson 2; every other lesson uses this material implicitly, and it is important to understand it as thoroughly as you can.

My suggestions for this lesson are the following:

- Read the assigned reading carefully. Pay careful attention to the wording and the use of symbols. Strive to emulate Rosen's writing style when you submit your assignment.
- Work through the examples in the assigned reading carefully, and then see if you can do them without looking at the text.
- Check the wiki (available in the left-hand menu bar) to see if there have been questions asked by previous students and also to check for any typos the book might have.
- Work the problems in Independent Exercise 1. Compare your answers to the answers in the solutions manual.
- If you need further instruction or explanation, please e-mail me via the Mail tool in the menu bar at left. I am glad to put further examples on the wiki that help clarify the subject matter.
- In particular, if you feel the text needs additional exposition in this lesson, tell me what is needed.
Assignment One

Assignment - In progress

Add attachment(s), then choose the appropriate button at the bottom.

<table>
<thead>
<tr>
<th>Title</th>
<th>Assignment 1</th>
</tr>
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<tbody>
<tr>
<td>Due</td>
<td>Dec 31, 2017 5:00 pm</td>
</tr>
<tr>
<td>Status</td>
<td>In progress</td>
</tr>
<tr>
<td>Grade Scale</td>
<td>Points (max 100.0)</td>
</tr>
<tr>
<td>Modified by instructor</td>
<td>Sep 12, 2013 12:43 pm</td>
</tr>
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Instructions

Complete this assignment on your own paper and submit it for grading. As indicated in the syllabus, this course includes fifteen assignments, which together constitute 20 percent of the grade for this course.

Please recall, as stated in the syllabus, that only scanned, handwritten assignments will be accepted for this course. Be sure to follow the assignment formatting guidelines on the syllabus to assure timely grading of your assignment.

Follow the Student's Solutions Guide, not the solutions in the back of the text, as examples of how to write up your solutions. This is a correspondence course, so you are expected to justify your solutions in writing. Restating the problem (in brief) before giving your solutions will also help you.

Unless stated otherwise, turn in all parts of problems with multiple parts (for example, number 10 on page 28 has four parts, and all of these parts should be turned in).

Here are the problems to be completed:

- Section 1.1: pp. 16-21: 2*, 4, 10, 12*, 14*, 18, 20, 24, 28, 32, 38, 56
- Section 1.2: pp. 28-30: 2, 8, 10, 14, 22, 24, 26, 32, 34, 38, 42**, 50, 54

*Please restate the problem; don’t just give your answer.

**This problem is used in later lessons and assignments.
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