Logic for Mathematics and Computer Science-- Math 160 -- Spring 2009

Class Meeting Time: Section 1 - MWF 10:10-11:05 Serra Hall 312

Instructor: Dr. Lynn McGrath  Office: Serra Hall 159 - C
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Office Hours: Monday 8:00-9:00 am, Tuesday - Not On Campus, Wednesday 8:00 - 9:00 am, Thursday 3:00-5:00 pm, Friday 8:00-9:00 am, and by appointment (to set up an appointment you must email me your request).

Required Texts: Foundations of Higher Mathematics- Exploration and Proof, Daniel Fendel and Diane Resek

• Goals for the Course:
By the end of the course, you should:
1. understand the nature of mathematical proof
2. be able to determine whether given argument is valid or not
3. be able to construct proofs independently
4. understand the nature of mathematical definitions and their role in proofs
5. be able to recognize whether a given object satisfies a definition or not
6. be able to work with abstract ideas

• Course Expectations
What I expect from you:
1. You will take the responsibility for your own learning. You will strive to make sense of the concepts presented in class and the textbook.
2. You will work actively with your peers, sharing, taking and giving.
3. You are expected to have mathematical skills from previous coursework and you are responsible for exhibiting those skills before you can receive a passing grade in this course. The prerequisite skills required for this course will not be taught in class. However, I am available for help during office hours.

What you can expect from me:
1. Respect and encouragement.
2. I will provide the learning environment and opportunities for you to improve, broaden and deepen your understanding of concepts presented in the text. I will provide the support necessary for you to succeed in this course, both in and out of class. I am available during my office hours and by appointment, as well as via email.
• Attendance Policy
You may miss up to three classes (excused or not) without penalty; after that it affects your grade. Arriving late or leaving early counts as half an absence.

• Earning Points

Homework and Weekly Quizzes.................................................................20%
Exam 1 (Friday, March 6th ).................................................................20%
Exam 2 (Wednesday, April 8th ).............................................................20%
Final Class Project and Class Participation..............................................10%
Final Exam (Monday - May 18th, 11:00am - 1:00pm )..............................30%

-Homework
There will be a weekly homework set. All work turned in for a grade must be neatly and clearly written up to receive any credit. No late homework will be accepted under any circumstances.

-Quizzes
Weekly quizzes will be given on Wednesdays (except for the first week of classes). I do not provide makeup quizzes because at the end of the semester I will drop your lowest quiz grade.

-Exams
There will be two in class exams in the course. The dates are given above.

• Cheating
Please be aware of the academic integrity policy of this University. Cheating and plagiarism are serious offenses and will be treated seriously. Although I encourage you to study together, unless specifically designated as a group assignment all work you hand in should be your own.

• Accommodations
Any student with a documented disability needing academic adjustments or accommodations is requested to speak with me during the first two weeks of class. All discussions will remain confidential. A student attempting to access Disability Services for the first time should begin by contacting the Director of Disability Services and/or the Learning Disabilities Specialist in Serra Hall, Room 300 (619-260-4655). It is the student's responsibility to schedule an "intake" meeting with the Director as soon as possible. call Disability Services at: 619-260-4699.

• Final Class Project
You will receive information on this project on Monday, April 20th.