MATH 201 – 3 Credits
Introduction to Proofs – Section C

Syllabus / Course Outline\(^1\) – Spring 2015

**Instructor:** Dr. Miriam Castillo-Gil – Office: Carver 386 – e-mail: miriamc@iastate.edu
Website: http://orion.math.iastate.edu/miriamc/

**Office Hours:** M, W 11:00-11:50 and W 14:10-15:00. In the event you absolutely can not make it to any of my office hours I am available by appointment. The purpose of the office hour is to go over problems you have trouble with, clarify concepts covered in class and discussing grades.

**Lectures:** Lecture will be on MWF @ 1:10-2:00 PM in Carver 0098.

**Course Texts:**
1. Book of Proof (Second Edition) - Richard Hammack
2. Basic Analysis: Introduction to Real Analysis - Jiri Lébl

**Course Objectives and Topics Covered:** We will learn how to read and write mathematical proofs using logical reasoning, including quantifiers and truth tables. We also learn various proof techniques including mathematical induction method while learning selected basic facts in set theory, elementary number theory, combinatorial mathematics and calculus. We will cover parts of Chapters 1-2 and 4-13 in Book of Proof, together with parts of Chapters 1-3 in Basic Analysis. For more details go to the departmental syllabus for this class:
   http://orion.math.iastate.edu/dept/CoursePages/201/.

**Homework:** Homework will be collected weekly and will count 20% of your grade. Students should first attempt to complete the homework by themselves before seeking outside help, such as other students and the professor. There no penalty for students working together, but everyone should turn in a write up of their solutions.

**Quizzes:** Three quizzes, counting 15% of your final grade, will be given as per the course calendar. Requests for makeup quizzes can be made prior to the date that the quiz will occur; any requests after the quiz has occurred will be turned away, with the exception of medical emergencies in this instance be sure to contact your instructors as soon as possible.

**Exams:** There will be three in-class midterm exams that count for a 35% of your grade and a final cumulative exam for the course, which will count 25% of the final grade. For the tentative dates of the exams consult the course calendar. The exams are closed books and closed notes. Exams must be taken during the scheduled times. There will be NO makeup exams with the exception of medical emergencies or university approved absences.

The final exam will take place at the time and place assigned by the registrar on **May 6 from 2:15-4:15 p.m.**

\(^1\)This document is subject to adjustment by the instructors, with notice given to the students.
Grading Policy: Your grade will be computed as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Attendance/Participation</td>
<td>4%</td>
</tr>
<tr>
<td>Homework</td>
<td>20%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>15%</td>
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<tr>
<td>Midterm Exams</td>
<td>36%</td>
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<tr>
<td>Final Exam (Cumulative)</td>
<td>25%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
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An overall score of 90% or better guarantees at least an A-; 80% or better guarantees at least a B-; 70% or better guarantees at least a C-. These thresholds might be adjusted down at the end of the semester. A 60% is required to obtain a passing grade.

Any issues about grading for the exams and quizzes must be addressed within two weeks of the test date. After that time no score changes will be allowed.

Blackboard: You will be able to follow your grades in Blackboard and you will also find some materials posted.

Accommodations: Please address any special needs or special accommodations with Dr. Castillo-Gil at the beginning of the semester or as soon as you become aware of your needs. Those seeking accommodations based on disabilities should obtain a Student Academic Accommodation Request (SAAR) form from the Disability Resources (DR) office (515-294-6624). DR is located on the main floor of the Student Services Building, Room 1076. *No retroactive accommodations will be provided in this class.*

Conduct and Academic Dishonesty: We expect all students to behave in a respectful manner during lecture, and you will be asked to leave the lecture if you are being inappropriate and/or disruptive. For more information, including make up policies, see the Class Policies at [http://www.math.iastate.edu/Faculty/ClassPolicies.html](http://www.math.iastate.edu/Faculty/ClassPolicies.html), provided by the Department of Mathematics.

Make-up/Attendance policy: A make-up exams will only be given in response to excused absences according to the university’s policies (see link above). These absences should be properly documented to qualify for a make-up. Students will **NOT** be given the opportunity to complete old assignments at the end of the semester to improve their grades.

Extra Credit: Occasionally there might be a possibility to earn extra credit on the exams and/or quizzes. Extra credit will not be assigned on an individual basis; and most importantly, no extra credit assignments will be available at the end of the semester to improve grades.