MATH 3325 - Transition to Advanced Mathematics

The information contained in this class syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.

Instructor: Atife Caglar
acaglar@math.uh.edu, PGH 204

Time and Location: MWTThF 2pm-4:00pm, SEC 201
Office Hours: By appointment during the summer
Course Website: I post anything related to this course in Blackboard not in my website.
Textbook: A Transition to Advanced Mathematics, 7th Edition,
D. Smith, M. Eggen, R. St. Andre; Cengage Learning, 2011.
ISBN: 978-0495562023 P

Prerequisites: MATH 1432

Course Description
This course provides an introduction to mathematical proofs and other fundamental topics in Mathematics. The goal of the course is to help students make the transition from mathematics courses in which the focus is on computation (Calculus, Differential Equations, Basic Linear Algebra, etc.) to more advanced courses in mathematics in which the focus is on theory and proofs (Real Analysis, Abstract Algebra, Advanced Linear Algebra, etc.) Key topics include:

- Logic and Proofs
- Set Theory
- Relations and Partitions
- Functions
- Cardinality
- Concepts of Analysis

Schedule and Attendance
While attendance does not factor directly into your final grade, it is expected that you attend
all lectures. If you have to miss class for any reason, you are responsible for the material covered in your absence. Generally, class notes will be posted on the course calendar after each lesson, but these notes may not always include all comments or announcements made in lecture. A tentative lecture schedule is given on the course website.

Grading Policy

Final grades are based on homework and exam scores weighted as follows:

- Homework: 20% and Group Quizzes 10%
- Midterm 1: 20%
- Midterm 2: 20%
- Final Exam: 30%

For letter grades, the following scale applies.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Score Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>x &gt;= 92</td>
</tr>
<tr>
<td>A-</td>
<td>90 &lt;= x &lt; 92</td>
</tr>
<tr>
<td>B+</td>
<td>87 &lt;= x &lt; 90</td>
</tr>
<tr>
<td>B</td>
<td>83 &lt;= x &lt; 87</td>
</tr>
<tr>
<td>B-</td>
<td>78 &lt;= x &lt; 83</td>
</tr>
<tr>
<td>C+</td>
<td>77 &lt;= x &lt; 80</td>
</tr>
<tr>
<td>C</td>
<td>73 &lt;= x &lt; 77</td>
</tr>
<tr>
<td>C-</td>
<td>70 &lt;= x &lt; 73</td>
</tr>
<tr>
<td>D+</td>
<td>67 &lt;= x &lt; 70</td>
</tr>
<tr>
<td>D</td>
<td>63 &lt;= x &lt; 67</td>
</tr>
<tr>
<td>D-</td>
<td>60 &lt;= x &lt; 63</td>
</tr>
<tr>
<td>F</td>
<td>x &lt; 60</td>
</tr>
</tbody>
</table>

Homework

Homework will be assigned two or three times weekly, and should be submitted in class on the indicated due date. Late homework will not be accepted; however, the two lowest homework scores will be dropped. Homework solutions should be prepared independently and not copied from other sources. You are encouraged, however, to discuss with others and consult other resources to improve your understanding. *Exceptions may be made for students with approved CSD accommodations (see below).

Exams

There will be two midterm exams and a Final exam. The midterm exams will be given in class on the following dates:

- Midterm 1: Tuesday, July 17
- Midterm 2: Tuesday, July 31

The Final exam will be held in the same classroom at the following date and time:

**Final Exam:** Wednesday, August 8, 11am-2pm in SR 116

Make-up Policy

There will be no make-up exams in this course: Instead, your lowest midterm score will be replaced by your score on the final exam if it helps your grade. If you miss two exams,
only one of those scores will be replaced. Students are expected to take the final exam on the date listed above. A make-up final exam may be offered in the case of a documented emergency. Make-ups will not be offered to accommodate personal travel plans. *Exceptions may be made for students with approved CSD accommodations (see below).

**Additional Information**

**Academic Integrity:**

All UH academic integrity policies apply to this course. For a review of these policies, visit: [http://www.uh.edu/provost/academic-affairs/policy-guidelines/honesty-policy/](http://www.uh.edu/provost/academic-affairs/policy-guidelines/honesty-policy/)

**UH CAPS**

Counseling and Psychological Services (CAPS) can help students who are having difficulties managing stress, adjusting to college, or feeling sad and hopeless. You can reach CAPS (www.uh.edu/caps) by calling 713-743-5454 during and after business hours for routine appointments or if you or someone you know is in crisis. No appointment is necessary for the "Let's Talk" program, a drop-in consultation service at convenient locations and hours around campus. [http://www.uh.edu/caps/outreach/lets_talk.html](http://www.uh.edu/caps/outreach/lets_talk.html)

**CSD ACCOMMODATIONS**

Academic Adjustments/Auxiliary Aids: The University of Houston System complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, pertaining to the provision of reasonable academic adjustments/auxiliary aids for students who have a disability. In accordance with Section 504 and ADA guidelines, University of Houston strives to provide reasonable academic adjustments/auxiliary aids to students who request and require them. If you believe that you have a disability requiring an academic adjustments/auxiliary aid, please visit The Center for Students with DisABILITIES (CSD) website at [http://www.uh.edu/csd/](http://www.uh.edu/csd/) for more information.

Accommodation Forms: Students seeking academic adjustments/auxiliary aids must, in a timely manner (usually at the beginning of the semester), provide their instructor with a current Student Accommodation Form (SAF) from the CSD office before an approved accommodation can be implemented.

Details of this policy, and the corresponding responsibilities of the student are outlined in The Student Academic Adjustments/Auxiliary Aids Policy (01.D.09) document under [STEP 4: Student Submission (5.4.1 & 5.4.2), Page 6]. For more information please visit the Center for Students with Disabilities FAQs page.

Additionally, if a student is requesting a (CSD approved) testing accommodation, then the student will also complete a Request for Individualized Testing Accommodations (RITA) paper form to arrange for tests to be administered at the CSD office. CSD suggests that the student meet with their instructor during office hours and/or make an appointment to complete the RITA form to ensure confidentiality.

*Note: RITA forms must be completed at least 48 hours in advance of the original test date. Please consult your counselor ahead of time to ensure that your tests are scheduled in a timely manner. Please keep in mind that if you run over the