Course Title: Principles of Real Analysis II, MATH 520 – Spring 2020
Credits: 4
Prerequisite: MATH 519
Course Description: This course is a continuation of Math 519: Principles of Real Analysis I. Topics include: Metric Spaces, Banach Spaces, Linear Topological Spaces, and some elements of harmonic analysis and nonlinear analysis.
Instructor: Nelson Castaneda
Office: Marcus White 123
Phone: 860 832-2851
Email: castanedan@ccsu.edu
Office Hours:
Tuesday and Thursday 1:00 - 3:00 PM,
Friday 4:10 - 5:10 PM.
We can arrange to meet at a different time if necessary.
Class Meeting Times: Monday and Wednesday from 7:20 to 9:00 PM in MS 207.

Coverage: We start the course with a brief review of Real Analysis I. Then we cover most of the material in chapters 6 – 10, some sections of chapter 13, and some additional material to illustrate applications of analysis in other areas of mathematics.

Homework: You must attempt to solve most of the problems from the sections covered in the course. In addition to this a file with additional practice problems will be posted on Blackboard Learn. Questions regarding those problems can be asked by email or in the meetings with the instructor. Written solutions to selected problems will be collected at the times scheduled below.

Midterm Test and Final Exam: There will be a midterm test and a final exam. The midterm exam is given on Wednesday, March 25 and is worth 25% of the course grade. The final exam is given on Monday, May 11 and is worth 30% of the course grade.

Assessment: Your grade will be based on: Homework 35%; Midterm Test 25%; Final Exam 30%; Class Participation 10%
### Evaluation Schedule

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<tr>
<th>Assessment</th>
<th>Date</th>
<th>Topics</th>
<th>Score</th>
<th>Grade %</th>
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<tbody>
<tr>
<td>Homework 1</td>
<td>February 5</td>
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<td>Homework 2</td>
<td>February 26</td>
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<tr>
<td>Midterm Test</td>
<td>March 25</td>
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<td>Homework 3</td>
<td>April 8</td>
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<td>Homework 4</td>
<td>April 29</td>
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<td>Final Exam</td>
<td>May 11</td>
<td>Everything</td>
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University Policies:

1. You must take the final examination at the time specified in the university’s Final Exam Schedule: Monday, May 11th, 7:45 - 9:45 PM.

2. If you need course adaptations or accommodations because of a disability, if you have emergency medical information to share with me, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible. My telephone number and office hours are given above. I will need a copy of the accommodation letter from Student Disability Services in order to arrange your class accommodations. Contact Student Disability Services, Willard - DiLoreto Hall, Room W 201, if you are not already registered with them. Student Disability Services maintains the confidential documentation of your disability and assists you in coordinating reasonable accommodations with your faculty.

3. In the event of a weather emergency which requires curtailment or cancellation of classes, listen to WTIC (1080 AM) or call (860) 832-3333 for the “general snow message,” or check the online Cancellation/Delay Information.

4. Students may drop full semester courses up to the last day of the third week of classes in the regular semester. Courses dropped by Monday, February 10 will not appear on the student’s transcript. Please drop the course by February 10 if you think that this course is not appropriate for you. Feel free to stop by my office to discuss your situation.

5. Students withdrawing from a full semester course from February 11 through April 20 (through the 12th week of the semester) may do so by completing a withdrawal form. A notation of “W” will appear on the student transcript. Withdrawals during this time do not require written authorization; however, it would be prudent for the student to discuss this matter with their instructor or/and their academic advisor.

6. Forms to either drop or withdraw from a course may be found on the registrar’s website or obtained in the registrar’s office in Willard - DiLoreto Hall, Room D 202.

7. Cessation of attendance, notice to the instructor, or telephone calls to the Enrollment Center are not considered official notice of a student’s intention to drop the course. After April 20th withdrawals are allowed only under extenuating circumstances, only for students who are passing the course, and require written approval of the course instructor and the department chair.

8. Central Connecticut State University (CCSU) will not tolerate sexual misconduct against students, staff, faculty, or visitors in any form, including but not limited to: sexual assault, sexual exploitation, sexual harassment or stalking, as defined in CCSU policies. For additional information, please consult the website of the Office of Diversity and Equity.

9. You are responsible for understanding and abiding by the University’s policy on academic integrity. Information on the policy may be found at Academic Integrity Policy. This policy is rigorously enforced by the Department of Mathematical Sciences.

10. All students are expected to demonstrate integrity in the completion of their course work. Academic integrity means doing one’s own work and giving proper credit to the work and ideas of others. It is the responsibility of each student to become familiar with what constitutes academic dishonesty and plagiarism and to avoid all forms of cheating and plagiarism. Students who engage in plagiarism and other forms of academic misconduct will face academic and possibly disciplinary consequences. Academic sanctions can range from a reduced grade for the assignment to a failing grade for the course. From a disciplinary standpoint, an Academic Misconduct Report may be filed and a Faculty Hearing Board may impose sanctions such as probation, suspension or expulsion.

11. For further information on academic misconduct and its consequences, please consult the Student Code of Conduct and the Academic Misconduct Policy.