

**Spring 2020 Syllabus Addendum  
Transitioning to Online Instruction**

***Math 328–002***

**Course Title:** Mathematical Methods for Scientists and Engineers

**Instructor:** Professor J. Ratnaswamy

**Date:** March 13, 2020

- ❖ **Math 328 will continue to meet online during regularly scheduled class times.**
- ❖ **I will use the videoconferencing tool, Webex, to hold real time online lectures.**
- ❖ **Access to Webex will be possible through Canvas.**
- ❖ **Prior to each online lecture, students will be asked to complete pre-discussion work on their own. This work will include:**
  - **Reading the textbook**
  - **Additional problem sets**

Week 9

1. Fourier Analysis III- 7.6 -7.9
2. Fourier Transforms 7.10-7.12
3. Problem solving and Discussion.

Week 10

1. Partial Differential Equations I: Partial Differentiation Chapter 4
2. Review and Exam 2
3. Discussion.

Week 11

1. PDE II: Laplace, Diffusion and Wave Equations 13.1-13.4
2. PDE III: Eigenfunction Expansions and Integral Transforms 13.5-13.6
3. Discussion.

Week 12

- 1 PDE III: Eigenfunction Expansions and Integral Transforms 13.7-13.9.
2. Complex Analysis I: Complex Numbers Chapter 2
3. Discussion.

Week 13

1. Complex Analysis II: Analytic Functions and Contour Integrals 14.1-14.4
2. Complex Analysis III: Residues 14.5-14.7
3. Discussions.



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Week 14

1. Complex Analysis IV: More Residues 14.8
2. Discussions.

Week 15:

Review and Final exam.