Math 762 Section 1001: Methods in Applied Math II  
Spring Semester 2018

Time: MW 4:00-5:15pm PE 103. 
by J. David Logan. 
Instructor: Aleksey (Alex) Telyakovskiy  
e-mail: alekseyt@unr.edu 
Web page: [http://www.unr.edu/homepage/alekseyt](http://www.unr.edu/homepage/alekseyt)  
WebCampus: [https://wcl.unr.edu](https://wcl.unr.edu) 
Phone: 784-1364  
Office: DMS 322  
Office Hours: MW 1:30-2:20pm or by appointment.  
Topics: Topics will be taken from Logan’s book, mainly from chapters 4, 6, 7 and 8. If time allows additional material will be covered from chapter 9. 

Student Learning Outcomes:  
Upon completion of this course:

- Students will be able to demonstrate ability to solve problems using calculus of variations and complex variables methodology;  
- Students will be able to demonstrate competence at the advanced level in application of spectral and integral transform methodologies, and perturbation theory to analysis and approximating of solutions of partial differential equations;  
- Students will be able to apply these methodologies to solving practically important problems from various applied fields and interpret the solutions using analytical and numerical approaches.  

Grading Policies:  
**HW**: 34%  
Homework will be assigned and selected problems graded. No late homework (if you need extension please speak with me). If problems involves numerical calculations, please comment on the obtained results. You may work in groups of two or three on homework, but everyone should submit a separate paper.  
**Exams**: 44%  
There will be 2 mid-term exams. Topics and dates for each exam will be announced in class a week advance. Make-ups for exams will be given only in extreme circumstances. Students who were absent with a documented emergency or university-sponsored activity must see the instructor beforehand to make arrangements.  
Any student requiring accommodations through the DRC must schedule their exams on the same day as in the class exams.  
**Final Exam**: 22%  
Final exam is a cumulative exam to be given on Monday May 14, 2:30-4:30pm.  
**Exams**: The (tentative) schedule of the exams is:
Exam 1: Wednesday March 8
Exam 2: week of April 16
Final Exam: Monday May 14, 2:30-4:30pm
Later during the semester we will fix the dates for mid-term exams.

Note: Please be polite and turn off all the cell phones, music players and pagers before class. They are very distracting for everybody.

Grading scale: Grade “C” corresponds to 70%, there will be no “C-” grade. All other pluses/minuses will be used in grade assignment.

Drop deadline: The final day to drop classes and receive a “W” is Tuesday April 3.

Technology: We may use MAPLE/MATLAB to conduct some calculations. Software is available in many UNR computer labs. Also, MATLAB can be accessed through library Citrix server https://remote.unr.edu/.

Email communication: Emails will be answered within 24 hours.

Support: If you have any difficulties that are interfering with your work in this class, please see me to discuss them. Also, personal counseling and disability resources are available through the Student Services (Counseling: 784-4648, Disability: 784-6000).

Disability Statement: Any student with a disability needing academic adjustments or accommodations is requested to speak with the Disability Resource Center (Thompson Building, Suite 101) as soon as possible to arrange for appropriate accommodations.

Academic Dishonesty: “Cheating, plagiarism or otherwise obtaining grades under false pretenses” constitute academic dishonesty according to the code of this university. Academic dishonesty will not be tolerated and penalties can include canceling a student’s enrollment without a grade, giving an F for the course or for the assignment.

Diversity Statement: The University of Nevada, Reno is committed to providing a safe learning and work environment for all. If you believe you have experienced discrimination, sexual harassment, sexual assault, domestic/dating violence, or stalking, whether on or off campus, or need information related to immigration concerns, please contact the University’s Equal Opportunity & Title IX Office at 775-784-1547. Resources and interim measures are available to assist you. For more information, please visit: http://www.unr.edu/equal-opportunity-title-ix.

Surveillance of lectures: Surreptitious or covert video-taping of class or unauthorized audio recording of class is prohibited by law and by Board of Regents policy. This class may be videotaped or audio recorded only with the written permission of the instructor. In order to accommodate students with disabilities, some students may have been given permission to record class lectures and discussions. Therefore, students should understand that their comments during class may be recorded.

P.S. The information listed here is subject to change. If any change takes place it will be announced in class.