

SPRING 2020

MATH 414 Modern Applied Math II

Schedule: MW 12:00-1:15pm, Peterson Hall 1111, No classes Mar 11, 13.

Instructor: Igor Griva, igriva@gmu.edu, (703) 993-4511

Office hours: MW 1:30 pm - 2:30 pm, Exploratory Hall, Rm 4114

Prerequisites: Grade C or better for MATH 413.

Webpage: http://math.gmu.edu/~igriva/projects/project_01/index.html

Text: Mark H. Holmes, *Introduction to the Foundations of Applied Mathematics*, Springer, 2009, Chapters 5 – 9.

Exams: There are two Midterm Exams: March 16 and April 6

Final Exam: May 18, 10:30 - 1:15 pm, Peterson Hall 111 (points 0 - 100)

Final score: $F = 0.3*(\text{Final Exam}) + 0.2*(\text{Midterm 1}) + 0.2*(\text{Midterm 2}) + 0.3*(\text{Homework})$

Final grade:	A-:	90 - 92;	A:	92 - 98;	A+:	98 - 100
	B-:	80 - 82;	B:	82 - 88;	B+:	88 - 90
	C-:	70 - 72;	C:	72 - 78;	C+:	78 - 80
	D:	60 - 70;				
	F:	0 - 60;				

In general: The course covers traffic flow modeling, continuum mechanics, modeling of elastic and viscoelastic materials and fluid mechanics.

Academic Integrity:

Mason is an Honor Code university; please see the Office for Academic Integrity for a full description of the code and the honor committee process. The principle of academic integrity is taken very seriously and violations are treated gravely. What does academic integrity mean in this course? Essentially this: when you are responsible for a task, you will perform that task. When you rely on someone else's work in an aspect of the performance of that task, you will give full credit in the proper, accepted form. Another aspect of academic integrity is the free play of ideas. Vigorous discussion and debate are encouraged in this course, with the firm expectation that all aspects of the class will be conducted with civility and respect for differing ideas, perspectives, and traditions. When in doubt (of any kind) please ask for guidance and clarification.

Disability Services:

If you are a student with a disability and you need academic accommodations, please see me and contact the Office of Disability Services (ODS) at 993-2474, <http://ods.gmu.edu>. All academic accommodations must be arranged through the ODS.

Counseling and Psychological Services (CAPS):

(703) 993 2380, <http://caps.gmu.edu>

University Policies:

The University Catalog, <http://catalog.gmu.edu>, is the central resource for university policies affecting student, faculty and staff conduct in university academic affair. Other policies are available at <http://universitypolicy.gmu.edu>.