Syllabus for Math 291, Honors Vector Calculus, Fall 2015

All reading assignments are to chapters in the online text, *Multivariable Calculus, Linear Algebra and Differential Equations* by Eric Carlen.

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WEEK 1: Sep 2, 3: Introduction to the course.
Reading: Sections 1.1-1.3 of Chapter 1.

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WEEK 2: Sep 8, 9, 10:
Reading: Sections 1.4 - 1.7 in Chapter 1.
First homework assignment: due Thr., Sep. 10

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WEEK 3: Sep 14, 16, 17:
Reading: Sections 2.1-3.1 in Chapter 1 and Sections 1.1-1.4 in Chapter 2.
First Challenge Problem workshop: Thr., Sep. 17

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WEEK 4: 21, 23, 24:
Reading: Sections 3.2 - 3.4 in Chapter 1 and 2.1-2.5 in Chapter 2
Second homework assignment: due Thr., Sep. 24.

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WEEK 5: Sep 28, 30, Oct 1:
Reading: 2.6 - 2.8 in Chapter 2, Chapter 3.
Third homework assignment: due Wed. Sep. 30

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WEEK 6: Oct 5, 7, 8:
Reading: Section 1 of Chapter 4 and 5 (Section 1 of Chapter 5, like Section 1 of Chapter 4, concerns real valued functions of several variables.)
Second Challenge Problem workshop: Thr., Oct. 8

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WEEK 7: Oct 12, 14, 15:
Reading: Section 2 of Chapter 4.
First Midterm Exam Thr., Oct 15. This will be based on the material from weeks 1 through 6.
WEEK 8: Oct 19,21,22:
Reading: Section 2 of Chapter 5,
Third Challenge Problem workshop: Thr., Oct 22.

WEEK 9: 25,28,29:
Reading: Sections 3-4 of Chapter 4, Chapter 5

WEEK 10: Nov 2,4,5:
Reading: Sections 6.1-6.7 of Chapter 6
Sixth homework assignment due: Wed., Nov. 4
Fourth Challenge Problem workshop: Thr., Nov. 5

WEEK 11: Nov. 9,10,11:
Reading: Sections 1.1-2.2 of Chapter 7
Seventh homework assignment due: Wed., Nov. 10

WEEK 12: Nov 16,18,19:
Fifth Challenge Problem workshop: Thr., Nov. 19
Reading: Sections 3.1.-4.3 of Chapter 7

WEEK 13: Nov 23:
Reading: Sections 1 and 2 and 3.2 in Chapter 8 on determinants.
Eighth homework assignment due: Mon. Nov. 23.

WEEK 14: Nov. 30, Dec. 2,3:
Reading: Sections 1-2 Chapter 9
• Second Midterm Exam: Wed., Dec. 2
Sixth Challenge Problem workshop: Thr., Dec. 3

WEEK 15: Dec. 7,9,10:
Reading: Sections 3-4 of Chapter 9
Ninth homework assignment due: Thr., Dec. 10

FINAL EXAM: Dec 21, 4:00-7:00 p.m.