Professor: Dr. Lennard Bakker
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Office Hours: TBA


Course Description: Topics to be covered are contained in Chapters 1 through 4 inclusively from the textbook. These are Dimensional Analysis and One-Dimensional Dynamics (Chapter 1), Two-Dimensional Dynamical Systems (Chapter 2), Perturbation Methods and Asymptotic Expansions (Chapter 3), and Calculus of Variations (Chapter 4).

Homework: Problems from the textbook will be assigned most class days. Homework assignments and their due dates are listed on the course schedule. You are encouraged to work together on homework problems, but what you submit should be of your own making. Copying someone else’s homework does constitute cheating. Each homework assignment is due at 4 p.m. on its due date. You may submit your homework assignments in class or place them in the wall box next to 366 TMCB. Late homework will be accepted subject a penalty of 50% of earned credit.

Each question will be graded out of 5 points. With varying numbers of problems on each assignment, the value of each assignment will vary. Homework scores will be posted on Learning Suite. Please review these scores to ensure their accuracy. The three lowest homework scores will be dropped by Learning Suite before final grades are determined.

Final Exam: A take-home final exam will be given to you on Wednesday December 10, 2014 (the last day that class meets). It will be comprehensive, including material not tested on the midterms. The take-home final exam is due on the last day of Final Exam week, December 19, 2014.

Grading: The assessment of your grade will be determined by homework assignments (25%), two midterm examinations (each 25%) a take-home final exam (25%), and extra credit for doing the online evaluation. A raw percentage grade of 93% will guarantee a letter grade of A, 90% an A-, 87% a B+, 83 a B, 80% a B-, 77% a C+, 73% a C, 70% a C-. 67% a D+, 63% a D, 60% a D-, and below 60% will be given an E.

Miscellaneous: Preventing Sexual Harassment: Title IX of the Education Amendments of 1972 prohibits sex discrimination against any participant in an educational program or activity that receives federal funds. The act is intended to eliminate sex discrimination in education and pertains to admissions, academic and athletic programs, and university-sponsored activities. Title IX also prohibits sexual harassment of students by university employees, other students, and visitors to campus. If you encounter sexual harassment or gender-based discrimination, please talk to your professor; contact the Equal Employment Office at 801-422-5895 or 1-888-238-1062 (24-hours), or http://www.ethicspoint.com; or contact the Honor Code Office at 801-422-2847.

Students with Disabilities: BYU is committed to providing reasonable accommodation to qualified persons with disabilities. If you have any disability that may adversely affect your success in this course, please contact the University Accessibility Center at 422-2767. Services deemed appropriate will be coordinated with the student and instructor by that office.

Children in the Classroom: The study of mathematics requires a degree of concentration and focus that is exceptional. Having small children in class is often a distraction that degrades the educational experience for the whole class. Please make other arrangements for child care rather than bringing children to class with you. If there are extenuating circumstances, please talk with your instructor in advance.