Objective
The students should be able to recall and apply the fundamental concepts and techniques of Calculus I and II essential for a successful completion of classes like *Advanced Engineering Mathematics*, *Ordinary Differential Equations*, *Multivariable Calculus*, etc and engineering classes, which build upon a solid working knowledge of Calculus I and II.

Remark
This is a zero credit class offered as a service to assist students who have become “rusty” in their math skills, to make a smooth transition back into their math studies. As everyone enrolled will receive a “pass”, the students are free to attend those parts most helpful for their individual review needs.

During *Spring Term*—different from Fall and Winter Semester—we will go through the review cycle only once. This gives us the chance to review the concepts and techniques listed in the schedule below more thoroughly and focus more on the needs of the individual students. As usual we will adjust the schedule and review to the needs and interests of the participants.

Topics/Schedule

*May 3, 5, 8, 10*: *Basic Techniques of Algebra*: manipulating terms and equations, solving algebraic equations etc;

*May 12, 15, 17*: *Trigonometry*: definition and basic properties of the trigonometric functions, fundamental trigonometric identities;

*May 19, 22, 24, 26*: *Differential Calculus*: limits, continuity, differentiability, techniques of differentiation, applications, etc;

*May 31, Jun 2, 5, 7, 9, 12* *Integral Calculus*: definite and indefinite integrals, Fundamental Theorem of Calculus, techniques of integrations, applications, etc.

*Jun 14, 16, 19* *Sequences and Series*: convergence, improper integrals, L’Hospital’s rule, convergence criteria for series, Taylor series, etc.