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.

Text
“*Re-Integration, Brushing up on Calculus*”, by Reinhard Franz, BYU Academic Printing, 2008.

Topics/Schedule
- **Sep 5, 7, 10, 12**: *Basic Techniques of Algebra*: manipulating terms and equations, solving algebraic equations etc;
- **Sep 14, 17, 19**: *Trigonometry*: definition and basic properties of the trigonometric functions, fundamental trigonometric identities;
- **Sep 21, 24, 26, 28**: *Differential Calculus*: limits, continuity, differentiability, techniques of differentiation, applications, etc;
- **Oct 1, 3, 5, 8, 10, 12**: *Integral Calculus*: definite and indefinite integrals, Fundamental Theorem of Calculus, techniques of integrations, applications, etc;
- **Oct 15, 17, 19, 22**: *Sequences and Series*: convergence, improper integrals, L’Hospital’s rule, convergence criteria for series, Taylor series, etc.