**Calculus II -- Fall 2018**

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**MTH 230 - Calculus with Analytic Geometry II.** Applications of the integral, techniques of integration, and infinite series. A study of conic sections, polar coordinates, and parametric equations. (PR: MTH 229 or IST 230)

* Time and Place: 12:00 pm - 12:50 pm MTWR at 112 Smith Music Hall.
* Instructor: [Peter Saveliev](http://inperc.com/wiki/index.php?title=Peter_Saveliev) (call me Peter).
* Office: Smith Hall 713.
* Office Hours: MF 2:00, W 6:00, or by appointment.
* Office Phone: x4639.
* E-mail: saveliev@marshall.edu.
* Class Web-Page: [math03.com](http://math03.com).
* Prerequisites: excellent algebra skills, good understanding of limits, the derivative, and the integral, fluent differentiation -- [Calculus I](http://inperc.com/wiki/index.php?title=Calculus_I_--_Fall_2017).
* Text: [Calculus by Stewart](http://inperc.com/wiki/index.php?title=Calculus_by_Stewart) and the [lecture notes](http://inperc.com/wiki/index.php?title=Calculus_Illustrated).
* Outcomes: the student will learn to integrate and apply integration, use infinite series to approximate functions, become familiar with introductory multivariable calculus.
* Computer Restrictions: graphic calculator TI-83 or TI-83+.
* Activities: the student will practice each outcome via the homework given in the textbook and online.
* Evaluation: the student achievement of each outcome will be assessed via in-class quizzes, online quizzes (<http://webwork.marshall.edu/webwork2/F18-Math-230-Saveliev/>), and in-class tests.
* Grade Breakdown:
  + participation: 20%,
  + quizzes: 30%,
  + midterm: 20%,
  + final exam: 30%;

i.e., the total score is the following weighted average of the five scores:

TOTAL =.20×*P*+.30×*Q*+.20×*M*+.30×*F*.