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**Sarah-Marie Belcastro\*** ([smbelcas@toroidalsnark.net](mailto:smbelcas@toroidalsnark.net)), Department of Mathematics and Statistics, Smith College, Northampton, MA 01063. *College “Calculus” for students who have already had some Calculus.*

Many incoming college students need to complete a calculus sequence. Placing them into appropriate classes is difficult because of the variety of calculus backgrounds these students have, ranging from earning As in a non-AP calculus class to earning a 2 on the AP BC Calculus exam with an AB subscore of 4. What are we to do? For various reasons that will be given in the talk, these students are not a good fit for Calculus I courses *or* for standard Calculus II courses.

One way to avoid this conundrum, which works quite well at Smith College, is to offer a calculus course especially for this (widely varying) student population. The curriculum includes differential equations, series approximations, and techniques of integration.

In the talk, the speaker will

- explain why the course works for students with a variety of backgrounds
- compare/contrast the preparation students receive for Calculus III using this curriculum versus a standard curriculum
- give a sample curriculum and philosophy for the course
- describe how this course can be taught using a range of textbooks, teaching styles, and technologies. (Received September 17, 2007)