



Science Center!

### Once you're here:

The *ABCs test* is our way to ensure that students have the basic skills in algebra and trigonometry that are necessary for success in calculus. The ABCs tests are *not* Calc I tests, they are tests of Absolute Basic Competencies (hence the acronym). Passing the ABC test is a required part of the calculus course. Students are given many chances to pass this test during the first several weeks of the Fall semester. During that period, voluntary help/review sessions are organized four days per week for those that want it. Students who do not pass during the first three weeks are enrolled in MA041.

*MA 041 Co-Calculus* meets twice a week (for credit) for the remainder of the semester. At the end of this course, students in MA041 have another opportunity to pass the ABCs test, and any who have still not passed are given a final chance during finals week. This course does *not* cover any new material. Its objective is to give additional help on basic skills for those who need it.

### Before arriving at Clarkson

- \* Diagnostic readiness test,
- \* Personal advice on preparation for college math.

### Variety of support options

- \* Free web-based refresher course,
- \* Special summer offering of MA 031 Pre-calculus for incoming students,
- \* Springboard—Math Refresher, immediately before school starts.

### Once you're here

- \* ABC's diagnostic testing in Absolute Basic Competencies (pre-calculus skills).
- \* Identifies students needing more help.
- \* MA 041 Co-calculus.
  - additional help with basic skills for those that need it.

### Success for all

- \* Goal of all the support activities is well-prepared students who can perform up to their potential in all areas.



## Clarkson University

Mathematics and Computer Science  
 357 Science Center  
 P.O. Box 5815  
 Potsdam, New York 13699  
 Phone: (315) 268-2395  
 Fax: 315-268-2371  
 Email: math@clarkson.edu

## Clarkson University

# CALCULUS AT CLARKSON

*CAN WE HELP YOU?*

- \* *Summer programs available to incoming students!*
- \* *On-going support throughout the semester!*



<http://www.clarkson.edu/math>

Students in engineering and most sciences take Calculus I and II in the freshman year. Calculus is important! It has to be taken with or before Physics and is needed to understand many higher-level courses.

We are eager for all students in calculus to learn the material and to do well in the course. Naturally, that won't happen unless you are well prepared.

### ***Calculus Readiness Assessment***

In the spring, a diagnostic test is distributed to all incoming first-year students. In excess of 90% of the students respond to this. Based on their individual performance they are advised (by letters to students and parents) as to whether they need further practice during the summer. Some are recommended to take a precalculus course during the summer.

A few students may need some course work, but most will just need to sharpen their skills in order to have a good chance of succeeding in calculus. Performance on this test will also be used to validate requests for AP or transfer credit in Calculus.

The recommendation may be:

- \* A web-based refresher course that is available to all;
- \* MA031 Precalculus is offered during Summer Session II;
- \* A special 9-day Springboard course is offered to students immediately before Welcome Week.

### ***Springboard***

- \* On-campus math refresher course.
- \* It reviews essential topics in algebra, trigonometry and geometry used in calculus.
- \* Starts mid-August (lasts 9 days prior to the beginning of classes).
- \* Move into your regular dorm room early.
- \* Attend classes each day, Monday through Saturday, for four hours (with breaks).
- \* Get to know Clarkson and Potsdam.



**Get to know Potsdam!**

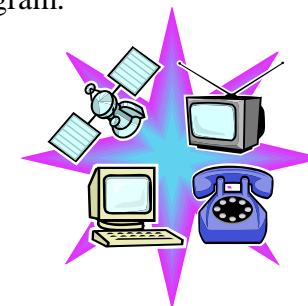
### ***Summer Pre-calculus (MA 031)***

- \* Lasts 5 weeks (end of June through beginning of August).
- \* Meets each day, Monday through Friday, for 90 minutes.
- \* You can take one additional course if you wish, and get ahead.
- \* Get to know Clarkson University campus and Potsdam before school starts.

### ***cu-math***

This is a web-based program open to any student coming to Clarkson in the fall. To get a good result from this program, you need to put in about five hours a week for seven weeks. No registration needed. This summer math refresher is a review of concepts already studied. Just go to the homepage <http://www.clarkson.edu/math/cumath/index.html> This special, non-credit program is designed to get students up and ready for Calculus in the Fall. Here are some details:

- \* It begins in June and ends mid-August.
- \* You get pre-tests, text material and exercises over the web.
- \* You do reading and exercises four days a week.
- \* Each Friday, you take a quiz and e-mail your answers.
- \* Quiz solutions are posted each Monday.
- \* **Students who take advantage of this web-based course have a significantly higher success rate in Calculus I.**
- \* There is no charge and no credit for this program.



**Brush up on your math right  
from the comfort of your home.**