**Have you thought about being an**

***Honors student in calculus?***

**Honors Calculus**

**Coming in Fall 2015**

***Register now for 191H, 192H, 201H***

(over for details)

**Honors Calculus—MAT 191H, MAT192H, MAT201H**

**FORMAT:** Students enroll in any section of 191H, 192H, \***OR**\* 201H. In addition to the regular calculus section, they will enroll in the “Honors Calculus Seminar,” which will meet on Friday afternoons during Fall 2015, 2:40-3:30 p.m. This extra seminar provides the “honors” portion of the course.

**Why should I spend my Friday afternoon doing extra calculus work???**

* You will meet other AACC math students at all levels of study, from many different sections of the calculus courses—opportunity to develop **study groups and resources** for your entire AACC career.
* You will gain a deeper understanding of the “big ideas” of **calculus and how it changed the world**.
* You will receive **foundational training** in how to read, discuss, and write about mathematics, which will assist you at AACC and beyond.
* If you enroll in the Honors Program and maintain an overall 3.4 GPA, you will also be eligible for **special resources and scholarships**.

**Requirements:**  **Eligibility for Honors courses.** Enrollment in the Honors Program is not required but is encouraged.See the Honors Program flyer for further information about benefits and scholarships.

**Grading:**  The grade assigned for the Honors Calculus Seminar will be **Highly Satisfactory**, **Satisfactory**, or **Unsatisfactory**. This grade will be combined with the course grade earned in the regular calculus class to produce a grade for the Honors Calculus course as follows: **Highly Satisfactory** and **Satisfactory** grades will not change the regular course grade except possibly for the better at the discretion of the regular course instructor. An **Unsatisfactory** grade will cause an A or B grade earned in the regular course to drop by one letter grade to a B or C, respectively. C, D, and F grades earned in the regular course will not be affected by an **Unsatisfactory** grade in the Honors Calculus Seminar.

**The Honors Calculus Seminar:** The honors seminar will include the following items.

* *Weekly seminar* led by faculty member (Dr. Kassebaum for Fall 2015).
* *One researched and written paper* and short presentation by each student. Topics determined by faculty and student.
* *Guided discussion of mathematics*, based on selected readings from mathematics texts. (This is what “honors” students are supposed to do—discuss and delve into the subject with guidance.)
* *Other activities:* The seminar instructor will choose several (*but certainly not all*) of the following:
	+ Dead mathematicians discussion—learn of the work of famous mathematicians from history including mathematical presentation of work for which they are known.
	+ Live mathematicians discussion—learn the work of present-day mathematicians (Osher, Daubechies, Moler, among others) together with where they studied math, with whom, where are they now, etc.
	+ Investigations of math careers \***outside**\* of academia—actuarial science, cryptography, statistics, research, topography, book/text/magazine editing, patent law, etc.
	+ Introduction to symbolic logic.
	+ Proof-reading and proof-writing in the development of new mathematics.
	+ Introduction to advanced calculus—the notation, which ideas from 191/192/201 can be extended and how.
	+ Computational mathematics and scientific computing—an investigation of current-day problems which can \***only**\* be solved with higher-level mathematics.
	+ Field trip to a mathematical museum or to hear a modern mathematical research talk.
	+ Graduate school – discuss the process of applying to graduate school and what attending graduate school is like.