General Information

Instructor: Maria Belk (mbelk@bard.edu)
Office: Academic Resources Center, Stone Row basement
Office Hours: Mon & Tues 6–7pm in RKC 111, Wed. 2–4pm in BARC; and by appointment
Text: Just-In-Time Algebra & Trigonometry for Calculus by Mueller and Brent
Webpage: http://math.bard.edu/mbelk/arc190/
Calculator: You will need either a basic scientific calculator or a graphing calculator.

Course Description

ARC 190 covers the material of a standard precalculus course, but at a faster pace. It is intended for students who have had a precalculus course in high school or at Bard, but would like more computational practice with algebra, trigonometry, logarithms, and exponentials. This course can be taken at the same time as a math, science or economics course, or in preparation to take such a course in a subsequent semester.

This course does NOT fulfill the math/computing distribution requirement.

Class Format

The class will be a mix of interactive lecture and group work.

- In the first half of class, we will go over some important precalculus topics.
- The second half of class will be spent working in groups on a worksheet related to these topics. The worksheet will involve some basic computational problems, along with some more challenging problems (such as word problems).
- A math tutor will be available to help answer questions during the second half of class.
- There will occasionally be a quiz at the end of class (see the schedule).
Assignments and Grades

This course can only be taken pass/fail. To pass the course, you need to successfully complete all of the following:

- Eight worksheets.
- Five homework assignments.
- Two quizzes.
- The Final Exam.

**Worksheets:** We will spend part of each class working in groups on worksheets. There will be at least nine worksheets, and you need to complete at least eight of these worksheets. If you miss a class, you can download the worksheet from the course webpage and turn it in at the next class.

**Homework:** There will be at least six homework assignments, and you will need to complete at least five of these assignments. Some homework assignments will be on Moodle.

**Quizzes and Final Exam:** We will have two in-class quizzes and a final exam, which will test the basic skills from class. Practice quizzes and a practice exam will be available beforehand. Since the quizzes and exam will test basic skills, a score of 80% or higher will be required to pass. You will be able to re-take a different version of the quiz or exam if you do not pass the first time.

Resources

- **Math Study Room:** Sunday through Wednesday, 7pm–10pm in RKC 111
  
The Math Study Room is staffed by undergraduate math majors who are available to answer your questions. You can go to the study room to work on your homework, and then ask for help when you get stuck.

- **Dedicated Tutor:** Kim Larie, a sophomore math and economics major, is the dedicated tutor for this course. She will help out during class, and she will also be available for individual tutoring if you need additional help beyond my office hours and the Math Study Room. To request individual tutoring, contact me or Kim after class, send me an e-mail, or stop by BARC.
Tentative Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>Tues 9/1: Algebra Review</td>
</tr>
<tr>
<td>Week 2</td>
<td>Tues 9/8: Functions, Graphs, and Equation of Lines</td>
</tr>
<tr>
<td>Week 3</td>
<td>Tues 9/15: Exponents, Composition of Functions</td>
</tr>
<tr>
<td>Week 4</td>
<td>Tues 9/22: Triangle Trigonometry, <strong>Quiz 1</strong></td>
</tr>
<tr>
<td>Week 5</td>
<td>Tues 9/29: Circle Trigonometry</td>
</tr>
<tr>
<td>Week 6</td>
<td>Tues 10/6: Word Problems</td>
</tr>
<tr>
<td>Fall Break</td>
<td></td>
</tr>
<tr>
<td>Week 7</td>
<td>Tues 10/20: Graphs of Polynomials and Rational Functions, <strong>Quiz 2</strong></td>
</tr>
<tr>
<td>Week 8</td>
<td>Tues 10/27: Exponential Functions</td>
</tr>
<tr>
<td>Week 9</td>
<td>Tues 11/3: Logarithms</td>
</tr>
<tr>
<td>Week 10</td>
<td>Tues 11/10: <strong>Final Exam</strong></td>
</tr>
</tbody>
</table>

ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Amy Shein (ashein@bard.edu) to determine if you may be eligible.