Syllabus – Summer 2012
July 9, 2012 – August 17, 2012

MATH 1060Q – PreCalculus

Excluding textbooks, the information on this syllabus is subject to change. For the most up-to-date syllabus, check this site on the first day of classes.

Course and Instructor Information

This is a three-credit undergraduate general education course.

The developer of this course is Steven Pon.

Course Title: PreCalculus (MATH 1060Q)  
Credits: 3  
Prerequisites: None (Recommended preparation: MATH 1010, 1011 or the equivalent. Not open for credit to students who have passed MATH 1120, 1125, 1131, or 120. Students may not receive credit for this course and MATH 1040.)

Format: Online via HuskyCT

Instructor: Steven Pon  

E-mail: steven.pon@uconn.edu (After the first day of classes, students registered in the course should send messages to the instructor via HuskyCT Mail.)

Availability: Unless otherwise noted, I will check into the course at least five days a week to monitor discussions, check assignments & quizzes, and respond to HuskyCT Mail. If I expect to be unavailable due to illness, travel or family obligations, I will make every attempt to notify you in advance.

Office hours: Held twice per week online through Blackboard Collaborate, on Tuesdays and Thursdays from 5-6pm EDT. Students attending office hours are required to access the Blackboard Collaborate meeting room site linked in the HuskyCT course.

Permission Requests: Direct all permission requests to the instructor, Steven Pon, at steven.pon@uconn.edu.

Course Description
Preparation for calculus. Review of algebra. Functions and their applications; in particular, polynomials, rational functions, exponentials, logarithms, and trigonometric functions.

**Course Materials**

**Students must have all required course materials before the first day of class.**

This text is available through a local or online bookstore. Please visit our page on [buying textbooks](#) for more information.

**Required Materials:**

*Textbook:*


*Free WebAssign Access:*

- Students will be required to log into [WebAssign](#) in order to complete required assignments and quizzes, as well as to receive additional video instruction. (Note: Your instructor will provide you with access to WebAssign. **DO NOT** purchase an access code, your access is free.)

*Scientific Calculator:*

- A scientific calculator will be needed for exams (*student purchase*). Note: Graphing calculators will **NOT** be allowed.

Additional course readings and media are available within HuskyCT, through either an Internet link or the Library Resource Tool (Electronic Course Reserve/ECR)

**Course Requirements and Grading**

This will be an online-only course, with the exception of the three proctored exams at the listed dates and times. An online course requires discipline, self-motivation, and organization. Online students should expect to spend approximately 10 - 15 hours per week on a 3 credit course (more hours per week should be expected in this condensed summer session course). Please plan accordingly.

In order to help you succeed in this online PreCalculus course, there are five learning modules containing multiple methods of instruction. Each learning module contains:

- written content (these written sections allow you to read about/study precalculus concepts and provide definitions, examples, and figures);
- instructional videos (these videos contain further audio/visual instructions and examples of the written content);
- supplemental textbook chapter reading(s) (the textbook chapter readings reinforce the written and video content);
- assignments (the WebAssign assignments allow you to apply what you have learned);
- a quiz (each WebAssign module quiz assess what you have learned); and
- a discussion (allow you to discuss what you have learned and clear up any questions).

### Summary of Course Grading

<table>
<thead>
<tr>
<th>Course Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>“Muddy Math” Discussions (online in HuskyCT)</td>
<td>5%</td>
</tr>
<tr>
<td>Module Assignments (online in WebAssign)</td>
<td>10%</td>
</tr>
<tr>
<td>Module Quizzes (online in WebAssign)</td>
<td>15%</td>
</tr>
<tr>
<td>Exam 1 (in person at Storrs or approved proctoring location)</td>
<td>20%</td>
</tr>
<tr>
<td>Exam 2 (in person at Storrs or approved proctoring location)</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam (in person at Storrs or approved proctoring location)</td>
<td>30%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100%</td>
</tr>
</tbody>
</table>

**“Muddy Math” Discussions (5%)**

“Muddy math” discussions take place in the HuskyCT course site and allow you to share insights, questions, connections, answers, and tips with your fellow classmates as you work through the module content and learning activities. Specific “muddy math” discussion expectations are located in each learning module. Your contributions to our classroom “muddy math” discussions account for 5% of your final grade. See the HuskyCT Calendar tool for specific due dates.

**Module Assignments (10%)**

Each module will include multiple WebAssign assignments (completed in the WebAssign website). They require you to complete exercises by applying what you have learned in that module. Module assignments are individual assignments (each student must submit his/her own assignments). Specific expectations for each assignment are provided by your instructor. Your module assignments account for 10% of your final course grade. See the HuskyCT Calendar tool for specific due dates.

**Module Quizzes (15%)**

There will be one (1) online quiz administered at the completion of each learning module, as well as one (1) quiz at the beginning of the course to refresh your algebra skills (i.e. there are six (6) quizzes total). The quizzes are administered in the WebAssign website. The quiz questions will be randomized; therefore, no two students will have exactly the same questions. You should prepare for these quizzes the way you would for a typical in class quiz, by completing your assignments and studying the module material provided (written module content, instructional videos, and supplemental textbook chapter).

The module quizzes will allow you one attempt per question and will be timed. The algebra skills quiz (at the beginning of the course) will allow you an unlimited number of attempts and has no time restriction except that you must complete it by the third day of the course. You are free to use your textbook or other resources for quizzes, but the time restriction on each quiz will prevent you from looking up answers. Once you start a quiz, you must take the entire quiz – exiting your browser will not stop the quiz timer. Quizzes will account for 15% of your final course grade. See the HuskyCT Calendar tool for specific due dates.

**Exams (70%)**
Exam Date and Time Content Assessed

Exam 1 (20%) * July 20, 2012 from 1:00PM – 2:15PM Module 1 and Module 2
Exam 2 (20%) * August 3, 2012 from 1:00 – 2:15PM Module 3 and Module 4
Final Exam (30%) * August 17, 2012 from 1:00 – 3:00PM Module 5 and Cumulative

* UConn Storrs Campus room for the exam will be announced later

All exams will be in-person, proctored exams. Students may take the exams at the UConn Storrs campus (room will be announced later), or they may take the exam at a pre-approved, certified proctoring center. No matter the location, all students will take the exam at the same time. Students will be responsible for any fees associated with taking the exam at a proctoring center. In order to ensure that an acceptable, affordable proctoring solution is available near you, students are encouraged to get approval prior to registering for the course. It may take up to three (3) business days to approve a proctoring center, and students should email steven.pon@uconn.edu with the name, location, and relevant contact information (including website) of a proposed proctoring center for approval.

The exams will be closed-book, closed-notes, and closed-internet. They will be written, paper exams where you must clearly show your work. You will be allowed a scientific calculator, but NO graphing calculators will be allowed. This is a different policy from your homework and quizzes, which will be taken at home on the computer with open access to materials, and on which you will not be required to show your work. Exams are worth the large majority of your grade, so I recommend you use the homework and quizzes as an opportunity to prepare yourself for the exams (Note: You will get much more out of the homework and quizzes if you restrict your use of book, internet, and graphing tools, and instead practice the techniques you will have to use on the exams.) In an in-person class, you would typically have ample opportunity to see and do out written work, as practice. The online format requires that you take the initiative to practice on your own (but at any time you can ask for feedback from the instructor).

“OPTIONAL Practice Exams”: There are 3 OPTIONAL “Practice Exams” in the course. These very condensed ungraded self assessments will be available to you in the HuskyCT Assessments tool just prior to each graded exam. These “practice exams’ contain a small sample of the types of problems/questions you may encounter on the graded exams. Practice exams are in pdf format, allowing you to print out, use your scientific calculators, and complete by hand (which is consistent with the exam environment used for the “graded” exams). You will have the opportunity to ask questions about the “practice exams” during the Collaborate office hours.

The final course grading scale is as follows:

UNDERGRADUATE

<table>
<thead>
<tr>
<th>Grade</th>
<th>Letter Grade</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>93-100</td>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>90-92</td>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>87-89</td>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>83-86</td>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>80-82</td>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>77-79</td>
<td>C+</td>
<td>2.3</td>
</tr>
<tr>
<td>73-76</td>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>70-72</td>
<td>C-</td>
<td>1.7</td>
</tr>
</tbody>
</table>
Due Dates

The Calendar tool in HuskyCT lists all due dates for the course. All course deadlines are based on Eastern Standard Time; if you are in a different time zone, please adjust your submittal times accordingly. As an online-only course, there will be no set times for class meetings, etc. Students may study and complete their work at a time of their preference. However, there will be firm due dates for homework and quizzes, as well as set times for online office hours. Of course, the exam dates are firm and students must be available at those times to take the exam. I encourage you to print a hard copy of the course calendar and/or insert the due dates/reminders into your personal electronic calendars/devices to help ensure due dates are met. The pacing of a condensed summer session course is challenging, plan ahead to ensure you do not fall behind.

Feedback and Grades

I will make every effort to provide feedback and grades in a timely manner. To keep track of your performance in the course, click on the Grades tab in WebAssign. All assignment scores will be uploaded to the WebAssign gradebook.

Course Objectives

By the end of the semester, students should be able to:

- Define and compute with polynomial, rational, exponential, logarithmic and trigonometric functions.
- Solve algebraic equations involving polynomial, rational, exponential, logarithmic and trigonometric functions.
- Create and interpret graphs of polynomial, rational, exponential, logarithmic, and trigonometric functions.
- Analyze real-world problems using functions.

Course Outline

Module 1: Notation, Terminology, and an Introduction to Functions

Module 2: Creating New Functions from Old

Module 3: Algebraic Functions

Module 4: Trigonometric Functions

Module 5: Exponential and Logarithmic Functions

Student Responsibilities and Resources
As a member of the University of Connecticut student community, you are held to certain standards and academic policies. In addition, there are numerous resources available to help you succeed in your academic work. This section provides a brief overview to important standards, policies and resources.

**Student Code**

You are responsible for acting in accordance with the University of Connecticut’s Student Code, available at [http://www.community.uconn.edu/student_code.html](http://www.community.uconn.edu/student_code.html). Review and become familiar with these expectations. In particular, make sure you have read the section that applies to you on Academic Integrity:

- [Academic Integrity in Undergraduate Education and Research](http://www.community.uconn.edu/student_code.html)
- [Academic Integrity in Graduate Education and Research](http://www.community.uconn.edu/student_code.html)

Cheating and plagiarism are taken very seriously at the University of Connecticut. As a student, it is your responsibility to avoid plagiarism. We recommend that you use the following resources:

- [Plagiarism: How to Recognize it and How to Avoid It](http://www.community.uconn.edu/student_code.html)
- [Instructional Module about Plagiarism](http://www.community.uconn.edu/student_code.html)
- [University of Connecticut Libraries’ Student Instruction](http://www.community.uconn.edu/student_code.html) (includes research, citing and writing resources)

**Netiquette and Communication**

At all times, course communication with fellow students and the instructor are to be professional and courteous. It is expected that you proof read all your written communication, including discussion posts, assignment submissions, and mail messages. If you are new to online learning or need a netiquette refresher, please look at this guide titled, [The Core Rules of Netiquette](http://www.community.uconn.edu/student_code.html).

**Adding or Dropping a Course**

If you should decide to add or drop a course, there are official procedures* to follow:

- Matriculated students should add or drop a course through [Peoplesoft](http://www.community.uconn.edu/student_code.html).
- Non-degree students should complete the [Add/drop form](http://www.community.uconn.edu/student_code.html).

*Procedures for dropping summer session courses vary. Contact UConn’s [Registrar’s office](http://www.community.uconn.edu/student_code.html) for more information.*

You must officially drop a course to avoid receiving an “F” on your permanent transcript. Simply discontinuing class or informing the instructor you want to drop does not constitute an official drop of the course. For more information, refer to the:

- [Undergraduate Catalog](http://www.community.uconn.edu/student_code.html)
- [Graduate Catalog](http://www.community.uconn.edu/student_code.html)
Academic Calendar

The University's Academic Calendar contains important semester dates.

Students with Disabilities

Students needing special accommodations should work with the University's Center for Students with Disabilities (CSD). You may contact CSD by calling (860) 486-2020 or by emailing csd@uconn.edu. If your request for accommodation is approved, CSD will send an accommodation letter directly to your instructor(s) so that special arrangements can be made. (Note: Student requests for accommodation must be filed each semester.)

The University of Connecticut's online course management system, HuskyCT, is a product of Blackboard, Inc. "Blackboard measures and evaluates accessibility levels using two sets of standards; Section 508 of the Rehabilitation Act issued from the United States federal government and the Web Accessibility Initiative (WAI) issued by the World Wide Web Consortium (W3C)." (Retrieved December 1, 2008 from http://www.blackboard.com/company/accessibility.aspx)

Software and Platform Requirements

- Word processing software
- Adobe Acrobat Reader
- Internet access
- a media player (to play instructional videos)
- Access to a scanner (recommended)
- Blackboard Collaborate (link to meeting room and further instructions are provided in HuskyCT)
  - Audio capability (microphone/speakers for online office hours via Collaborate)
  - A webcam (optional, for online office hours via Collaborate)
- WebAssign (access provided by instructor)

This course is facilitated online using the learning management platform, HuskyCT. Ensure your Internet browser and browser settings are HuskyCT compatible by viewing the following settings information. If you have difficulty accessing HuskyCT, call the Learning Resource Center (LRC) at (860) 486-1187, or visit its online help (including instant chat) at http://lrc.uconn.edu/help.

You will be given a link to our Blackboard Collaborate Web Conferencing class meeting room for attending online office hours. Your computer settings must be Blackboard Collaborate compatible. Access the Blackboard Collaborate “First Time Users” website to check your settings; learn how to test your audio/microphone; review Collaborate orientation materials (as needed); and learn where to go for Blackboard Collaborate technical support. [Note: Using the Blackboard Collaborate web conferencing platform as a participant/student is pretty intuitive, but I recommend you take a few moments to familiarize yourself with the platform and the very brief online orientation video prior to our first online office hour. The Collaborate online orientation video is only about 7 minutes long and well worth a look.]

Hyperlinks to WebAssign assignments and quizzes are provided within HuskyCT. If you need technical support for WebAssign, access their student support page at http://www.webassign.net/user_support/student/.

Minimum Technical Skills
To be successful in this course, you will need the following technical skills:

- Use electronic mail with attachments.
- Save files in commonly used word processing program formats.
- Copy and paste text, graphics or hyperlinks.
- Use a media player to view instructional videos.
- Work within two or more browser windows simultaneously.
- Open and access PDF files.
- Use basic WebAssign tools to complete and submit assignments and quizzes.
- To view class materials and to participate in class discussions, office hours, and the full range of class activities, students will need access to computer with high-speed internet access (a webcam and a microphone are also recommended).
- Access to a scanner, while not required, could be helpful to students who want to submit written work for review.

**Evaluation of the Course**

Students will be provided an opportunity to evaluate instruction in this course using the University's standard procedures, which are administered by the [Office of Institutional Research](mailto:).