Course Description
Math 121 covers radian measure, trigonometric functions and their graphs, trigonometric equations, inverse trigonometric functions, and trigonometric identities.

Course Website and Email
There is a course web page where announcements, assignments, and course materials will be posted: http://fac-staff.seattleu.edu/bowersa/web/Spring2011/m121.htm

There is also a link in the course Angel page. Please check the website regularly. In addition, all students are expected to check their current SU email account. I will sometimes send out emails to the entire class to make announcements or updates to the current course schedule.

Textbook
(Published by Addison Wesley.)

Calculator Policy
A graphing calculator will be needed for some homework assignments. During quizzes and exams, you will not be allowed to use calculators that perform symbolic operations (such as the TI-89). You will also not be allowed to use cell phones, PDAs, a computer, or any similar device, even if you are only using it for the calculator function.

Homework
Mastery of the material in this course will require a lot of practice in the form of homework. Assignments are posted on the course website.

All homework should be stapled together or fastened with a binder-clip. Each section and problem number should be clearly numbered. Any graphs that you are asked to sketch should be done on graph paper. Paper torn out of a spiral notebook with ragged edges will not be accepted or will result in a loss of points. On the front of each assignment, include a header with your name, the course number, and the assignment number. For example:

Adam Bowers
Math 121-02
Homework 5.1

The grader has been instructed to deduct points for messiness.
Homework from a section should be considered assigned as soon as the section is covered in class. Homework will generally be due one week after being assigned, and will be due by 5pm on the date given in class. There will be a collection box for homework outside of ENGR 416 labeled “Math 121 (Dr. Bowers).” Homework assignments will be graded for accuracy and completeness.

Worksheets
There will be frequent worksheets given in class. These worksheets will be graded like homework, and you will have one week to complete them. They will be made available on the course webpage after they are assigned. The worksheets will often go beyond what we cover in class.

Exams
There will be one in-class midterm exam and one (noncumulative) final exam. There will be no make-up exams. If you miss the midterm, your grade on the final exam will serve as your grade on the missed midterm. The dates for each exam are:

<table>
<thead>
<tr>
<th>Midterm Exam</th>
<th>Final Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday, May 5 (In class)</td>
<td>Tuesday, June 7 12:00 - 1:50 P.M.</td>
</tr>
</tbody>
</table>

There will be a review in class before each exam. (See calendar.)

Grades
Homework & Worksheets: 30%
Midterm Exam: 35%
Final Exam: 35%

We will use the following grade scale:

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100</td>
<td>80 - 89</td>
<td>70 - 79</td>
<td>60 - 69</td>
<td>0 - 59</td>
</tr>
</tbody>
</table>

If your grade ends with 0, 1, or 2, then you will probably have a minus affixed to your letter grade (e.g., 72% = C-). If it ends in 7,8, or 9, then you will likely have a plus (e.g., 87% = B+).

Don’t count on a curve. There usually isn’t one. And I won’t round up any grades, even if it is close, and even if I feel really, really bad about it.

Attendance
Attendance will be taken regularly. Absences will affect your grade in the sense that you will miss the in-class discussion, worksheets, and announcements. If you must miss a class, it is your responsibility to find out what was missed.
Math Lab
There is a Math Lab located on the second floor of the library. This is a drop-in service provided by
the math department for all students in lower division mathematics courses at Seattle University.
(They might not be able to help you with the worksheets.)

Student Academic Services (SAS)
SAS offers a range of services through the Learning Assistance Program and Disability Services.
Visit the SAS website for more information: http://www.seattleu.edu/sas/

Learning Assistance Programs cover a range of services that promote academic achievement includ-
ing peer tutoring, and peer-facilitated study and language-conversation groups; learning consultat-
ions with professional staff; study strategy workshops; and web and print learning resources. If
you feel like you need a tutor for this course, please contact the Learning Center as soon as possible.

Disabilities Services promotes an inclusive campus environment and ensures access for students with
disabilities to Seattle University activities by advising students concerning disability-related needs,
determining eligibility for services, arranging academic adjustments and other accommodations,
providing test administration and materials in alternative format, and consultation with faculty
and staff.

Student Athletes
Please contact me as soon as possible with your schedule of class absences. If a university sanctioned
event overlaps with a quiz/exam, please make alternative arrangements with me at least one week
in advance.

Academic Integrity
Each student is expected to follow the academic honesty policy of Seattle University and the College
of Science and Engineering. Any student found engaging in academic misconduct will receive a score
of zero for the corresponding assignment. All suspicious behavior will be reported to the student
misconduct board. In such an instance, you will be forced to meet in front of a board of professors
to explain your actions. Plus, you will feel really guilty about the whole thing.

Prerequisites for Math 121
You must satisfy one or more of the following:

- A grade of C- or better in MATH 118 or MATH 120 at Seattle University.
- Transfer credit for MATH 118 or MATH 120.
- An algebra score of 23 or higher on the Math Placement Exam.
- A Mathematics SAT score of at least 620.
- A Mathematics ACT score of at least 27.
Core Course Statement
MATH 130 may be used to satisfy the Seattle University Core mathematics requirement. In common with all Phase I core courses, this course emphasizes active learning, critical thinking, and writing assignments, to help develop understanding of the concepts and applications of the course. Quantitative skills and problem solving abilities are important components of a liberal education. You are encouraged to be an active participant at all times; learning mathematics requires much active thinking about the concepts and practice with problem solving.

Learning outcomes for students in all mathematics courses
Each student will

- develop further the ability to think abstractly and critically,
- improve the ability to communicate mathematically through writing,
- represent abstract concepts pictorially,
- use mathematics as a modeling and problem-solving tool,
- appreciate and use appropriate technology, becoming proficient with, but not dependent on, symbolic graphing tools or mathematical software.

Specific learning outcomes for students in Math 121
A student who successfully completes MATH 121 will:

- Have understanding of the six basic trigonometric functions as circular functions as well as functions of angles.
- Have facility in graphing various trigonometric functions, and understand the relationship between a graph and its functional representation.
- Be able to use trigonometric functions to model and solve realistic problems.
- Be able to solve equations, both analytically and graphically, involving trigonometric functions.
- Be able to derive trigonometric identities and be able to use the basic trigonometric formulas and laws appropriately.