

**MAC1114 Trigonometry
Syllabus for Sections (16H8 and 3019)**

Instructor: Bruce Horton
Office Location: LIT467
Email: eltigre@ufl.edu

Office Hours:
Wednesdays, 4th, 6th & 7th periods

Required Text: PreCalculus 10th Edition by Ron Larson
Section 16H8 meets in LIT217 during period 2 at 8:30am
Section 3019 meets in LIT207 during period 5 at 11:45am

Course Content:
We will cover all of Chapter 4 and Chapter 5 from the text and selected topics from Chapter 6 if time permits.

Grading:
The course grade is out of 300 points
270-300 = A
263-269 = B+
240-262 = B
233-239 = C+
210-232 = C
200-209 = D+
180-199 = D
<180 is an E
Decimal portions of grade are truncated to get a whole number value

Exams:
3 Exams at 50 pts a piece will be given on the following Thursdays:
Feb 7th, Mar 14th, April 18th

Quizzes:
6 Quizzes at 10 pts a piece, one of which is dropped will be given on the following Thursdays:
January 17th, January 31st, Feb 14th, Feb 28th, March 28th, April 4th
No Calculators on Exams or Quizzes

Homework:
2 HW collections of 20 points a piece, and 2 at 30 points a piece
January 24th (20 pts), Feb 21st (30 pts), March 21st (20 pts), Tuesday April 23rd (30 pts)

HW will consist of the following problems from the text and those distributed by the instructor in class.

Homework Assignments:

Section 4.1 Radian and Degree Measure

Page 267: 1, 2, 3, 4, 5, 6, 7, 9, 11, 14, 15, 17, 21, 23, 25, 27, 29, 33, 35, 37, 51, 53, 55, 58, 60, 63, 65, 69, 70, 71, 72, 73, 74, 75, 77, 78.

Section 4.2 Trigonometric Functions and the Unit Circle

Page 275: 2, 3, 4, 7, 9, 10, 11, 12, 19, 21, 23, 31, 33, 35, 37, 39, 41, 49, 51, 52, 53, 54, 55, 60, 61.

Section 4.3 Right Triangle Trigonometry

Page 284: 1, 2, 3, 4, 5, 13, 21, 23, 40, 45, 57, 59, 61, 63, 64, 65, 67, 68, 72, 75, 76, 77, 78, 79, 80, 81.

Section 4.4 Trigonometric Functions of Any Angle

Page 294: 1, 2, 3, 4, 5, 6, 8, 11, 16, 19, 21, 24, 27, 31, 34, 45, 49, 51, 53, 67, 72, 91, 97.

Section 4.5 Graphs of Sine and Cosine Functions

Page 304: 1, 2, 3, 4, 5, 7, 9, 13, 15, 17, 19, 21, 23, 25, 27, 29, 35, 39, 43, 49, 51, 57, 65, 69, 72, 75, 78, 79, 89, 91.

Section 4.6 Graphs and Other Trigonometric Functions

Page 315: 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 27, 29, 35, 37, 57, 58, 59, 60, 85, 87, 88.

Section 4.7 Inverse Trigonometric Functions

Page 324: 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 15, 17, 19 (no calc), 37, 38, 39, 41, 43, 45, 47, 49, 51, 55, 59, 63, 67, 71, 75, 76, 79, 81, 99, 105, 106, 107, 108.

Section 4.8 Applications and Models

Page 334: 1, 5, 9, 13, 17, 19, 21, 22, 24, 29, 30, 32, 34, 35, 38, 39, 40.

Section 5.1 Using Fundamental Identities

Page 353: 1, 2, 3, 4, 5, 6, 8, 13, 15, 16, 17, 18, 21, 27, 29, 35, 40, 41, 44, 50, 53, 56, 57, 61, 71, 75.

Section 5.2 Verifying Trigonometric Identities

Page 360: 1, 2, 3, 4, 5, 6, 7, 8, 12, 15, 20, 21, 22, 26, 30, 32, 36, 38, 52, 55, 56, 63, 64, 67.

Section 5.3 Solving Trigonometric Equations

Page 370: 1, 2, 3, 4, 8, 11, 18, 20, 21, 24, 26, 36, 37, 40, 43, 47, 60, 64, 65, 67, 69, 71.

(Sections 5.4 & 5.5 on Back)

Section 5.4 Sum and Difference Formulas

Page 378: 1, 2, 3, 4, 5, 6, 8, 12, 18, 24, 27, 29, 33, 35, 39, 41, 47, 51, 53, 57, 59, 65 (part 1), 69, 73, 81, 82.

Section 5.5 Multiple-Angle and Product-to-Sum Formulas

Page 388: 1, 2, 4, 5, 7, 9, 11, 15, 21, 25, 27, 35, 41, 45.