**Syllabus**

**Course title/number**: Plane Trigonometry, MTH 122-214, CRN: 5796

**Text Book**: *Trigonometry*, 4th edition by Dugopolski

**Instructor:** Kusum Subedi **Semester/year**: Spring 2018

**Location:** HH 139 **Days/time**:TR 12:30-1:45pm

**Office:** SH 743 D **Phone**: 66081

**E-Mail**: subedik@marshall.edu

**Office hours**: MW 12:00am-2:00pm; TR 11:50-12:20pm; MTWR 10:45-11:00am; other hours by appointment

**University Policies:** <http://www.marshall.edu/academic-affairs/?page_id=802>

**COURSE DESCRIPTION**:

* A study of trigonometric functions, graphs of the trigonometric functions, identities, equations, inverse trigonometric functions vectors, complex numbers and applications.

|  |  |  |
| --- | --- | --- |
| **Student Learning Outcomes** (Topics below can be reordered.) | How students will practice this outcome | How student achievement of this outcome will be assessed |
| Understand, and use effectively, all six trig functions, defined both by right triangles and also by the unit circle. | homework, written assignments, in-class examples | Midterms, quizzes and Comprehensive Final exam |
| Graph each of the six trig functions on its extended domain, and know the features of each function. | homework, written assignments, in-class examples | Midterms, quizzes and Comprehensive Final exam |
| Verify trig identities using proper mathematical techniques. | homework, written assignments, in-class examples | Midterms, quizzes and Comprehensive Final exam |
| Solve conditional equations which involve trig and/or inverse-trig functions. | homework, written assignments, in-class examples | Midterms, quizzes and Comprehensive Final exam |
| Given a side and two other values, find all possible triangles, if any. | homework, written assignments, in-class examples | Midterms, quizzes and Comprehensive Final exam |
| Understand vectors and polar-form complex numbers so that physics problems can be solved and so that products, quotients, powers and roots can be computed easily. | homework, written assignments, in-class examples | Midterms, quizzes and Comprehensive Final exam |

**Prerequisites**:

MTH 130 (concurrently) or MTH 127 or Math ACT 21

EVALUATION: There will be,

* 3 Tests(according to the following schedule)
* 3 Quizzes (dates will be notified in class )
* Homework assignments (almost every day)
* A Final exam(comprehensive)

Homework assignments will not be graded, but you must do them all.

**No makeup test will be given**. Your lowest one test and lowest one quiz will be dropped.

EXAMINATION SCHEDULE:

EXAMS DATE COURSE COVERAGE (tentative)

Test 1 Thursday, Feb 15 Chapters 1, and 2

Test 2 Thursday, March 15 Chapters 3 and 4

Test 3 Thursday, April 19 Chapters 5 and 6

Note: The course coverage is tentative. If there is a change you will be notified in class.

**Final Exam**: Tuesday, May1; 12:45-2:45pm in HH 139 (same classroom).

**GRADING SCALE:**

Points Possible Percentage Points Grade

Tests 200 90% and above 360-400 A

Quizzes 50 80% -90% 320-359 B

Attendance 50 70% -80% 280-319 C

Final Exam 100 60% -70% 240-270 D

Total 400 less than 60% less than 240 F

**CALCULATOR**: A Scientific calculator is required. **NO CELL PHONE**

**TUTORING FACILITIES** In addition to office hours, there are two free tutoring options for students in Math 160.

The math tutoring lab will be open this semester during the following hours: Smith Hall 625: **Monday - Thursday** 10:00am - 4:00pm & 5:00pm - 6:30pm

**Friday** 10:00am - 12:00pm [http://www.marshall.edu/math/tutoringlab.asp.](http://www.marshall.edu/math/tutoringlab.asp)

The University College offers appointment-based tutoring in the Communications Building. Please consult their web page for additional information.