**Syllabus**

**Course title/number**: Plane Trigonometry, MTH 122-101, CRN: 3114

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

**Instructor:** Kusum Subedi **Semester/year**: Fall 2017

**Location:** SH 509 **Days/time**: MWF 8:00am-8:50am

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

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

**Office hours**: MWF 9:00am-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.

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| **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 Mon, Sept. 25 Chapters 1, and 2

Test 2 Mon, Oct. 23 Chapters 3 and 4

Test 3 Fri, Dec. 1 Chapters 5 and 6

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

**Final Exam**: Monday, Dec. 11 , 8:00am-10:00am in SH 509

**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**: Marshall University provides multiple options for on-campus tutoring.

The Mathematics Department tutoring lab is located in Smith Hall SH 625.

The hours are as follows:

 Monday-Thursday: 10am-4pm & 5:00pm-6:30pm

 Friday: 10 am - 12noon