Course Title: Trigonometry

Semester Course Prefix and Number: MATH1547
Old Quarter Course Prefix and Number: MATH 119

Number of Credits: 2
Number of Lecture Credits: 2
Number of Lab Credits: 2
Number of Lab Hours: 2
Number of Studio/Demonstration/Internship Credits:

Catalog Description:
This course is the study of angles in degrees and radian measure; trigonometric functions of angles in a coordinate system and in triangles; solutions of triangles and applications. Students will examine solutions of trigonometric identities and equations and graphs of trigonometric functions and inverses.

Prerequisites and/or recommended entry skills/knowledge:
Course Prerequisite(s):
Reading Prerequisite:
Composition Prerequisite:
Mathematics Prerequisite: MATH 0096 or Placement by CPT Score

Career Programs and Transfer Majors Accessing this Course:
Mathematics and Engineering

Minnesota Transfer Curriculum Goal(s) partially met by this course if applicable:
(Notes: No more than two goals may be met by any one course. AASC review and the Chief Academic Officer's approval are required.)
0. X None
1. Communications
2. Critical Thinking
3. Natural Sciences
4. Mathematical/Logical Reasoning
5. History and the Social and Behavioral Sciences
6. The Humanities and Fine Arts
7. Human Diversity
8. Global Perspectives
9. Ethical and Civic Responsibility
10. People and the Environment
**Learning Outcomes**: (including any relevant competencies listed in the Minnesota Transfer Curriculum)

Upon completion of this course, the student will be able to:
- Use trigonometric functions to solve triangles.
- Graph trigonometric functions.
- Prove trigonometric identities.
- Solve trigonometric equations.

**Student Assessment Methods May Include**: Will be determined by the Instructor.

**Use of Instructional Technology May Include**: (includes software, interactive video and other instructional technologies):

**Additional Special Information**: (special fees, directives on hazardous materials, etc.)

**Transfer Information**: (Please list colleges/majors that accept this course in transfer.)

**Affiliated Mesabi Range College Courses and Programs**: 

**Approvals**:

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**Distribution**: Original – Instructional Services

**Copies**: Transfer Specialist, Originating Faculty Member, Records

**Revised**: February 2019