

COURSE OUTLINE: MTH151-MATHEMATICS
Prepared: Mathematics Department
Approved: Sherri Smith, Chair, Natural Environment, Business, Design and Culinary

| Course Code: Title |
| :--- |
| Program Number: Name |
| Department: |
| Semesters/Terms: |
| Course Description: |
| Total Credits: |
| Hours/Week: |
| Total Hours: |
| Prerequisites: |
| Corequisites: |
| Substitutes: |
| Essential Employability |
| Skills (EES) addressed in |
| this course: |
| Course Evaluation: |
| Course Outcomes and |
| Learning Objectives: |

MTH151: MATHEMATICS
4040: MACHINE SHOP
MATHEMATICS
18F
In this course, emphasis will be placed on teaching mathematics at a level that will help the student in the Machining trade. Some theoretical concepts and topics in algebra, geometry and trigonometry will be covered. These concepts and topics will be reinforced by the use of practical problems to make the current topic relevant to the student's needs.

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There are no pre-requisites for this course.
There are no co-requisites for this course.
MTH127, MTH142, MTH143, MTH145
EES 3 Execute mathematical operations accurately.
EES 4 Apply a systematic approach to solve problems.
EES 5 Use a variety of thinking skills to anticipate and solve problems.
EES 10 Manage the use of time and other resources to complete projects.
Passing Grade: 50\%, D

| Course Outcome 1 | Learning Objectives for Course Outcome 1 |
| :--- | :--- |
| 1. Operations with Whole | 1.1 Solve problems involving whole and decimal numbers |
| Numbers, Fractions, and |  |
| Decinding prime and composite numbers. |  |
| 1.2 Solve problems involving common fractions including |  |
| finding lowest common denominator. |  |
| 1.3 Convert decimal fractions to common fractions and the |  |
| reverse process. |  |
| 1.4 Measure and include its error factors. |  |

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|  | 3. Solving problems involving geometric shapes |  | 3.1 Solve practical problems to find the areas of a triangle or quadrilateral. <br> 3.2 Solve problems involving the circumference, diameter, area or tangent to a circle. <br> 3.3 Compute surface areas and volumes of spheres, cylinders, cones and other solid figures. |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Course Outcome 4 |  | Learning Objectives for Course Outcome 4 |  |
|  | 4. Solving triangles using trigonometric ratios |  | 4.1 Define the trigonometric functions. <br> 4.2 Solve the missing parts of a right angle triangle using trigonometric functions. |  |
| Evaluation Process and Grading System: | Evaluation Type Evaluation Weight Course Outcome Assessed |  |  |  |
|  | Tests (4) $100 \%$ |  |  |  |
| Date: | August 14, 2018 |  |  |  |
|  | Please refer to the course outline addendum on the Learning Management System for further information. |  |  |  |

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