COURSE OUTLINE: MTH145 - 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: |
| This course is a <br> pre-requisite for: <br> Essential Employability <br> Skills (EES) addressed in <br> this course: <br> Course Evaluation: <br>  <br> Assessment Requirements: |

## MTH145: MATHEMATICS <br> 4039: MECH. ENG. TN-MANUFA <br> MATHEMATICS <br> 19F, 20W

This first level mathematics course for engineering technology programs begins with a review of fundamental concepts including arithmetic operations and concepts in measurement. This is followed by several algebra topics including linear equations, factoring, fractions and quadratic equations. A treatment of trigonometry of right triangles, the trigonometric functions of any angle and of oblique triangles is also included.

The goals of this course are, first, to show that mathematics does play a most important role in the development and understanding of the various fields of technology and, secondly, to ensure that students acquire the mathematical and critical thinking skills necessary to analyze and solve engineering technology problems.

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There are no pre-requisites for this course.
There are no co-requisites for this course.
MTH142, MTH612, OEL806

## MTH146

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
Evaluation will consist of four topic tests each contributing a $25 \%$ weight of the final average.
Students with special needs and or circumstances are required to identify their specific needs with the professor.
It is the student's responsibility to notify the professor in advance of any test absences and it will be at the professor's discretion to allow an alternative test time. Failure to do so may result in a zero grade for a missed test.
If a faculty member determines that a student is at risk of not being successful in their academic pursuits and has exhausted all strategies available to faculty, student contact information may be confidentially provided to Student Services in an effort to offer even more assistance with options for success. Any student wishing to restrict the sharing of such information should make

| Books and Required |
| :--- |
| Resources: |

ISBN: | Basic Technical Mathematics with Calculus by Allyn Washington |
| :--- |
| Publisher: Pearson Edition: 11 th |

Calculator -
Sharp EL-520XTB (available in the bookstore)

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|  |  | 5.5 Define the po 5.6 Describe the a geometric plan 5.7 Graphically unknowns by de 5.8 Factor expre difference of squ 5.9 Reduce alge |
| :---: | :---: | :---: |
| Evaluation Process and | Evaluation Type | Evaluation Weight |
|  | Test 1 (outcome 1) | 25\% |
|  | Test 2 (outcome 2 and 3) | 25\% |
|  | Test 3 (outcome 4) | 25\% |
|  | Test 4 (outcome 5) | 25\% |
| Date: | June 19, 2019 |  |
| Addendum: | Please refer to the course outline addendum on the Learning Management System for further information. |  |

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