

COURSE OUTLINE: MTH613 - TECHNICAL MATHEMATIC
Prepared: Mathematics Department
Approved: Bob Chapman, Chair, Health

| Course Code: Title | MTH613: TECHNICAL MATHEMATICS |  |
| :---: | :---: | :---: |
| Program Number: Name |  |  |
| Department: | MATHEMATICS |  |
| Semesters/Terms: | 22W |  |
| Course Description: | The course includes topics in Plane Analytic Geometry, introduction to Calculus including derivatives and integration of algebraic functions, applications of integration. |  |
| Total Credits: | 4 |  |
| Hours/Week: | 4 |  |
| Total Hours: | 60 |  |
| Prerequisites: | MTH612 |  |
| Corequisites: | There are no co-requisites for this course. |  |
| Substitutes: | MTH551 |  |
| This course is a pre-requisite for: | MTH626 |  |
| Essential Employability Skills (EES) addressed in this course: | EES 3 Execute mathematical operations accurately. <br> EES 4 Apply a systematic approach to solve problems. <br> EES 5 Use a variety of thinking skills to anticipate and solve problems. |  |
| Course Evaluation: | A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation. |  |
| Books and Required Resources: | Basic Technical Mathematics with Calculus by Washington and Boue Publisher: Pearson Edition: 11 <br> ISBN: 9780134289915 |  |
| Course Outcomes and Learning Objectives: | Course Outcome 1 | Learning Objectives for Course Outcome 1 |
|  | 1. Plane Analytic Geometry: | 1.1 Understand basic concepts and use the distance formula, the midpoint formula, the slope formula. <br> 1.2 Find the equation of a straight line using slope and y-intercept. Graph the line. <br> 1.3 Define the circle, parabola, ellipse and hyperbola. |

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In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2021-2022 academic year.

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