



# COURSE OUTLINE

## MTH626

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Prepared: Mathematics Department    Approved: Sherri Smith

<b>Course Code: Title</b>	MTH626: CALCULUS								
<b>Program Number: Name</b>	4061: AVIATION TECHNOLOGY								
<b>Department:</b>	MATHEMATICS								
<b>Semester/Term:</b>	17F								
<b>Course Description:</b>	This course is a continuation of MTH613 and provides the student with a more advanced study of calculus. Topics of study include differentiation and integration of algebraic, trigonometric, exponential and logarithmic functions with an emphasis on applications.								
<b>Total Credits:</b>	4								
<b>Hours/Week:</b>	4								
<b>Total Hours:</b>	60								
<b>Prerequisites:</b>	MTH613								
<b>Substitutes:</b>	MTH577, OEL780								
<b>This course is a pre-requisite for:</b>	MTH654								
<b>Essential Employability Skills (EES):</b>	#3. Execute mathematical operations accurately. #4. Apply a systematic approach to solve problems. #5. Use a variety of thinking skills to anticipate and solve problems. #10. Manage the use of time and other resources to complete projects.								
<b>Course Evaluation:</b>	Passing Grade: 50%, D								
<b>Evaluation Process and Grading System:</b>	<table><tr><th>Evaluation Type</th><th>Evaluation Weight</th></tr><tr><td>Assignments</td><td>30%</td></tr><tr><td>Quizzes</td><td>10%</td></tr><tr><td>Tests (4)</td><td>60%</td></tr></table>	Evaluation Type	Evaluation Weight	Assignments	30%	Quizzes	10%	Tests (4)	60%
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Assignments	30%								
Quizzes	10%								
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<b>Books and Required Resources:</b>	Basic Technical Mathematics with Calculus SI Version with MyMathLab by Washington and Boue								



# COURSE OUTLINE

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Publisher: Pearson Edition: 10  
ISBN: 978-0-13-276283-0

### Course Outcomes and Learning Objectives:

#### Course Outcome 1.

Integrate various functions with applications.

#### Learning Objectives 1.

#### Course Outcome 2.

Differentiate transcendental functions with applications.

#### Learning Objectives 2.

#### Course Outcome 3.

Recognize and use trigonometric identities.

#### Learning Objectives 3.

### Date:

Thursday, August 31, 2017

Please refer to the course outline addendum on the Learning Management System for further information.