

MATHEMATICS
Course Name

MTH 367-4
Course Number

PHILOSOPHY/GOALS:

When the student has successfully completed this course he/she will have demonstrated an acceptable understanding of the course material as listed elsewhere.

The student should then be able to apply this knowledge in his/her studies of other courses in the program where there are applications of these mathematical concepts.

Upon graduation, the student should be able to develop a good command of this subject matter through additional practice.

METHOD OF ASSESSMENT (GRADING METHOD):

The student will be assessed by written tests only. There will be periodic topic tests at times mutually agreed upon (usually) by students and instructor. A letter grade will be assigned for the student's progress report based upon a weighted average of the student's test results.

See also the Mathematic's departments annual publication "To The Mathematical Student" which is presented to the students early in each academic year.

TEXTBOOK(S):

CALCULUS FOR ENGINEERING TECHNOLOGY; W.R, Blakeley

ELECTRICAL AND ELECTRONIC TECHNOLOGY

<u>Topic No.</u>	<u>Periods</u>	<u>Topic Description</u>	<u>Reference</u>
1	15	<u>Methods of Integration</u> Substitution, partial fractions, trigonometric identities, trigonometric and hyperbolic substitution, integration by parts, table of integrals-	Blakeley Ch. 13
2	9	<u>Partial Derivatives</u> Functions with more than one independent variable, higher order partial derivatives, total differentials, total derivative and application to rates, electronic application.	Blakeley Ch. 14
3	15	<u>Differential Equations</u> Solution by direct integration, method of superposition, transients in RL and RC circuits, separation of variables, exact equations, use of integrating factors, homogeneous equations, linear equations.	Blakeley Ch. 16

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