## FACULTY OF SCIENCE <br> Department of Mathematics and Statistics

## MATHEMATICS 253 "CALCULUS II"

## Calendar Description: H(3-1T-1)

Inverses of trigonometric functions. Methods of integration, improper integrals. Separable differential equations, first and second order linear differential equations, applications.
Prerequisite: Mathematics 249 or 251 or 281 or Applied Mathematics 217.
Note: Credit for more than one of Mathematics 253, 263, 283 and Applied Mathematics 219 will not be allowed.

## Syllabus

## Topics

## Number of

Hours
5
Techniques of integration, numerical integration, improper integrals
Applications of integrals (area, volumes)
Taylor polynomials
5
Differential equations: separable, linear first and second order, constant 12 coefficients, undetermined coefficients, variation of parameters

## 98:01:12 Effective: Winter 1998

VS.jlong
Calendar description change Fall 2001

