

FACULTY OF SCIENCE 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

<u>Topics</u>	Number of Hours
Inverse functions, inverse trigonometric functions	5
Techniques of integration, numerical integration, improper integrals	9
Applications of integrals (area, volumes)	5
Taylor polynomials	5
Differential equations: separable, linear first and second order, constant coefficients, undetermined coefficients, variation of parameters	12
TOTAL HOURS	36

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98:01:12 Effective: Winter 1998

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Calendar description change Fall 2001