

Provider:

Ivy Tech Community College

Course Code:

2544

Content Area:

Mathematics

Course Delivery:

Online

Enrollment Type:

Non Continuous

Enrollment Deadline:

August 9, 2024

Course Description:

Studies the techniques of substitution, integration by parts, trigonometric integrals, partial fractions and trigonometric substitution to evaluate integrals. Applies Simpson's rule and other elementary numerical quadrature methods to approximate integrals. Applies the integral calculus to find arc lengths, areas of surfaces of revolution and to solve force and work problems. Applies the direction field technique to find graphical solutions of differential equations. Applies Euler's technique to approximate the solution of initial value problems. Studies techniques of solving separable differential equations. Studies techniques to determine convergence of sequences and series. Studies techniques to determine the power series representation of functions. (Requires student has already earned MATH 211 credit)

Credit:

4

Credit Type:

Dual Enrollment

NCAA Approved:

No

Contact:

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Cost:

\$785.52 (Prices are subject to change based on the approved Ivy Tech course fee costs.)