

Spokane Falls Community College  
**COURSE LEARNING OUTCOMES**

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**Prefix and Course Number:** Math&254  
**Course Title:** Multivariable Calculus  
**Version Date:** 04/12/2019

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**Course Learning Outcomes**

Upon successful completion of the course, the student will be able to:

1. Differentiate and integrate vector-valued functions
2. Find and Interpret Partial Derivatives and Gradients of Functions of Two or Three Variables
3. Find the Extrema of Functions of Two Variables and Solve Optimization Problems Using Lagrange Multipliers
4. Integrate functions of two or three variables over rectangular and nonrectangular regions
5. Evaluate line and surface integrals
6. Apply Green's Theorem and Stokes' Theorem to vector fields