

Course Objectives/Course Outline
Spokane Community College

Course Title: Ruby on Rails

Prefix and Course Number: CIS 284

Learning/Performance Expectations (e.g., outcomes, performance objectives, competencies, etc.)

By the end of this course, a student should:

- Demonstrate competency in Ruby programming
- Understand model-view-controller architecture
- Know how to research and find items in Ruby and Rails API
- Know how to develop, deploy, and maintain a Rails application
- Setup a database and use Active Record to interact with database
- Write Unit and Functional tests
- Write code that follows the Don't-Repeat-Yourself (DRY) philosophy

Course Outline:

- A. The Architecture of Rails Applications
- B. Basic Rails Application
- C. Connecting to Database
- D. Validation
- E. Custom model methods
- F. Using Layouts
- G. Sessions
- H. Database Table Relationships
- I. Handling Errors
- J. View Helpers
- K. Rails Form Helper methods
- L. Rendering Components
- M. Partial Templates
- N. Authentication and Role-based security
- O. Unit and Functional Testing
- P. Adding AJAX to your applications