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