

Prepared by the Department of Business

Date of Departmental Approval: February 4, 2013

Date approved by Curriculum and Programs: February 13, 2013

Effective: Fall 2013

1. **Course Number:** BIT284
Course Title: JavaScript and JQuery Web Scripting
2. **Description:** Building on HTML, DHTML, and CSS skills, students learn to use JavaScript and JQuery to create dynamic web sites. XML, AJAX, JSON, and Blogger and API's for YouTube, Twitter, and Flickr are introduced.
3. **Student Learning Outcomes:** Upon successful completion of this course, students are able to do the following:
 - Develop JavaScript applications
 - Test and debug JavaScript applications
 - Utilize JavaScript data types and variables
 - Script control statements including conditionals, loops and arrays
 - Script JavaScript functions
 - Utilize JavaScript to script the Document Object Model (DOM)
 - Use JQuery for JavaScript User Interface (UI) development using widgets for interactivity and effects
 - Develop code using JQuery selectors, methods, and event methods
 - Use JQuery to develop slide shows and animations
 - Utilize JQuery to manipulate the DOM and to modify styles and positioning
 - Create and validate forms using JQuery
 - Employ and develop JQuery plugins
 - Describe AJAX and the XMLHttpRequest object and how they work
 - Use JQuery to work with AJAX
 - Employ AJAX APIs for YouTube, Twitter, Google Maps and Flickr connectivity
4. **Credits:** 3 credits
5. **Satisfies General Education Requirement:** No
6. **Prerequisite:** GIT183
7. **Semester Offered:** Varies
8. **Suggested General Guidelines for Evaluation:** Students are evaluated with a combination of quizzes, exams, homework, and a project.