COMP 2068: JAVASCRIPT FRAMEWORKS

Course outlines are reviewed annually as part of continual quality improvement. This course was last updated for the effective term below.

Effective Term
Fall 2020

Full Course Title
JavaScript Frameworks

Academic Level
Post Secondary

Subject Code
COMP - PS Computers

Course Number
2068

Grade Mode
Numeric

PLAR Applicable
Yes

Total Hours
42

Course Description
Students learn to enhance and enrich their web programming skills using the JavaScript programming language. Students learn to develop Web applications that use three-tier architecture, session management, object-oriented techniques, and advanced database interactions. Students develop web applications utilizing concepts such as Model-View-Controller (MVC), authentication, security and an introduction to web Application Programming Interfaces (APIs).

Equivalent(s) Courses (Two-Way)
COMP 1092 - Advanced Web Programming
COMP 2106 - Advanced Server-Side Scripting Using MEAN

Course Content
  • Creating rich interactive Web applications
  • Object-oriented concepts/techniques in Web programming
  • Three-tier architecture in Web programming
  • Session management
  • Writing secure code
  • Non-relational database interactions
  • Data validation techniques
  • Authentication and security in webpages

Course Evaluation

The passing grade for this course is 50% unless otherwise noted below. The evaluation is comprised of:
  • Assignments 35%
  • Project(s) 25%
  • Quizzes/Tests 40%

Tests/examinations/assignments must be written/submitted at the time specified. Requests for adjustments to that schedule must be made before the test/exam/assignment date to the faculty member. Failure to do so will result in a mark of "0", unless an illness/ emergency can be proven with appropriate documentation at no cost to the College.

The passing grade for all courses is 50%, or letter grade of P (Pass) or S (Satisfactory) unless otherwise noted below. The passing weighted average for promotion through each semester of a program is 60% and is a requirement to graduate.

Academic Appeal
Students at Georgian College can appeal the following:
· A mark on an assignment, test, examination or work-integrated learning term
· Missing or incorrect assessment information on a grade report and/or transcript
· A charge of academic misconduct
Note: Students cannot appeal a final grade. It is the academic work that is appealable leading to the final grade i.e. final test, exam or assignment.
Refer to Academic Regulations 9.2 Academic Appeal for further details.

Course Learning Outcomes

Upon successful completion of this course, the student has reliably demonstrated the ability to:

1. apply three-tier architecture concepts and advanced database techniques in web applications;

This learning outcome meets the following Essential Employability Skill(s):

EES4: Approaches to problem solving
EES5: Critical thinking to solve problems

Evaluation

Introduced
Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

2. use object-oriented techniques in Web programming;

This learning outcome meets the following Essential Employability Skill(s):

EES5: Critical thinking to solve problems
EES6: Organization of information
EES7: Application of research and information

Evaluation

Introduced
Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

3. develop rich interactive environments for the Web;

This learning outcome meets the following Essential Employability Skill(s):

EES4: Approaches to problem solving
EES5: Critical thinking to solve problems

Evaluation

Introduced
Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

4. create sites that utilize data validation techniques and secure code;

This learning outcome meets the following Essential Employability Skill(s):

EES5: Critical thinking to solve problems
EES6: Organization of information
EES7: Application of research and information

Evaluation

Introduced

Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

5. implement authentication in a web application;

This learning outcome meets the following Essential Employability Skill(s):

EES4: Approaches to problem solving
EES5: Critical thinking to solve problems

Evaluation

Introduced
Reinforced
Assessed

Upon successful completion of this course, the student has reliably demonstrated the ability to:

6. develop RESTful APIs.

This learning outcome meets the following Essential Employability Skill(s):

EES4: Approaches to problem solving
EES5: Critical thinking to solve problems
EES6: Organization of information

Evaluation

Introduced
Reinforced
Assessed

Key: 3797