COMP 1011: ADVANCED OBJECT ORIENTED PROGRAMMING USING JAVA

Type of Change:
Minor Course Change

Course Information

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
Advanced Object Oriented Programming using Java

Preferred Short Title
Adv Object Oriented Prog-Java

Academic Level
Post Secondary

Subject Code
COMP - PS Computers

Course Number
1011

Academic Area
Computer Studies

Ministry Reporting Category
Business

Grade Mode
Numeric

Alternate Grade Modes
Challenge Exam
Prior Learning
Pass/Fail
Standard Letter
Transfer credit

PLAR Applicable
Yes

Total Hours
42

Schedule Types
Lab
Combination
Lecture
Remote Delivery
Traditional

Course Description

Building on the concepts from Introduction to Object-Oriented Programming, students utilize techniques that enable the creation of more sophisticated and complex applications. Students explore deeper applications for the Java programming languages, such as mobile applications and Graphical User Interface (GUI) design and construction.

Prerequisites where one of the following fulfills the requirement:

- COMP 1008 Introduction to Object Oriented Programming using Java
  - **or** COMP 1069 Java Intermediate (ODE)

Banner prerequisites – for information only

And/Or	(	Course/Test Code	Min Grade/Score	Academic Level	)	Concurrency
		COMP 1008	50	PS		
Or		COMP 1069	50	PS		

Do you need to remove any of the above listed pre- or concurrent requisites?

No

Transfer Credit Course(s), can be used for credit towards this course

COMP 2065 - Java Advanced (ODE)

Equivalent(s) Courses (Two-Way)

COMP 1087 - Advanced Object Oriented Programming

Course Content

- Reviews of Object Oriented concepts (classes, objects, inheritance and polymorphism)
- Graphical User Interface (GUI)
- Event handling
- Database connections
- Network programming and communication (including JSON)
- Threads
- Streams
- Introduction to Android programming

Course Evaluation

The passing grade for this course is 50% unless otherwise noted below. The evaluation is comprised of:

- Test(s) 60%
- Assignment(s)/Project(s) 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. design computer programs that utilize exception handling;

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

EES4: Approaches to problem solving
EES5: Critical thinking to solve problems
EES7: Application of research and information

Evaluation

Introduced
Reinforced
Assessed

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

2. apply graphical user interface elements, and event handling to build applications that interact with the user;

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
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. create computer applications that utilize connectivity classes to interact with a database system;

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
EES7: Application of research and information

Evaluation

Introduced
Assessed

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

4. describe techniques for establishing connections to Uniform Resource Locators (URLs) and performing data stream operations between URLs;

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
EES7: Application of research and information

Evaluation

Introduced
Assessed

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

5. describe MVC (model, view controller) as it relates to Java and Android development;

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. create an Android application.

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
EES7: Application of research and information

Evaluation

Introduced
Assessed

Research Ethics Board Designation

Courses that involve minimal risk research involving human subjects require Research Ethics Board (REB) designation. By checking "yes" below, you are indicating that all faculty teaching this course must obtain course-based research ethics approval.

No

Sample Syllabus

COMP1011-example-rev A.docx

Key: 3643