2. General Information

Date
09/13/2016

Department
Computing Sciences

Course Prefix:
CSC

Course Number:
190

Course Title:
Cs2: Object-oriented Software Development

3. Course Information

Credit Hours
4

Lecture Contact Hours
4

Laboratory Contact Hours
1

Other Contact Hours

Catalog Description
CS2: Object-Oriented Software Development covers algorithm development and object-oriented design and development for large-scale software and graphical user interfaces (GUIs). This course is the second in a series of three required programming courses for a traditional computer science degree. Topics to be covered include objects and classes, procedural vs. object-oriented programming, reference data types, class libraries, class design, class abstraction and encapsulation, inheritance and polymorphism, exception handling, abstract classes, graphical user interfaces (GUIs), and event-driven programming.

New Analysis Question

Prerequisites
CSC-115 CS1: Introduction to Programming and Computational Thinking, with a grade of C or higher

Co-requisites
### Grading Scheme

**Letter Grade**

### This course can be taken more than once for credit

### This course is designated as satisfying a requirement in the following SUNY Gen Ed category

**First Year Experience**

**Capstone**

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#### 4. FLCC Values

**College Learning Outcomes Addressed by the Course**

- Inquiry
- Interconnectedness
- Perseverance

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#### 5. Course Learning Outcomes

**Course Learning Outcomes**

1. Identify and implement elementary data structures for the manipulation of data
2. Develop more complex algorithms for solving problems using an object-oriented approach
3. Identify and implement object classes from existing object-oriented collection libraries.
4. Design, develop and implement new object classes to solve complex problems.

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#### 6. Program Affiliation

**This course is required as a core program course in the following program(s)**

- AS Computer Science
- AS Information Systems
- AS Game Programming and Design

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#### 8. Outline of Topics Covered

**Outline of Topics Covered in Course**

- [CSC190TopicsOutline.docx](CSC190TopicsOutline.docx)

**New Analysis Question**

**Outline of Topics Covered**