

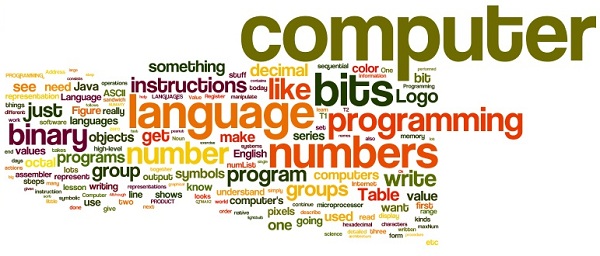
**Department of Engineering, Computer Programming, and Technology**

 Division of Computer Programming and Analysis

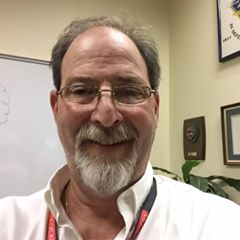
Valencia College Osceola Campus

**COP 1000C-S06**

**Introduction to Computer Programming**



**Course Syllabus**

**Professor: Andrew Eisler   **

**Contact Number:**(321) 427-0938 text/cell

**Course Title:**Introduction To Programming Concepts

**Course Number:**COP 1000C-S06

**Course CRN:**16250

**Course Description:**this course provides the beginning programmer with a solid foundation in programming theory and practice. The course assumes no programming experience. Good programming style and logical thinking are emphasized throughout the semester.

**Specific teaching coverage includes:**

1. An Introduction to Programming
2. Beginning the Problem-Solving Process
3. Variables and Constants Completing the Problem-Solving Process
4. The Selection Structure More on the Selection Structure
5. The Repetition Structure More on the Repetition Structure
6. Value-Returning Functions Void Functions
7. One-dimensional Arrays Two-dimensional Arrays
8. Strings Sequential Access Files
9. Classes and Objects

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**Program Information: Program Outcomes, Sequence,**

**Prerequisites, Post-requisites**

This course is designed as a beginning programming course.

**Course Outcomes**

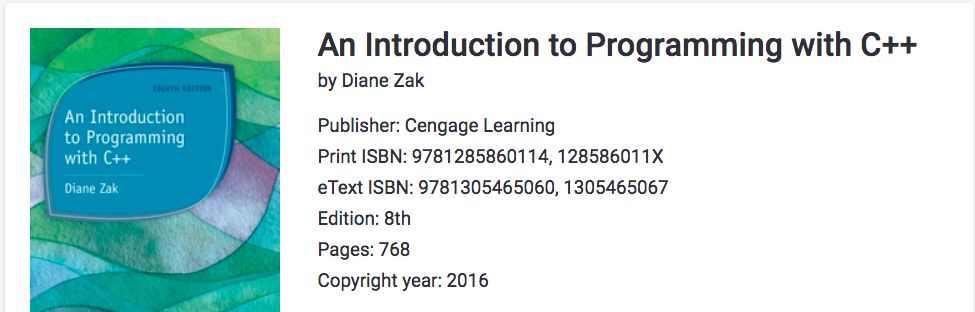
Plan and create well-structured programs

Learn how to write programs using the sequence, selection, and repetition structures

Create and manipulate functions, sequential access files, arrays, strings, classes and objects

**Required Texts and Resources**

Diane Zak, An Introduction to Programming with C++, Eighth Edition. Course Technology, Cengage Learning, 2016, **ISBN 9781285860114**.



**------------------------------------------------**

**Graded Assignments**

|  |  |
| --- | --- |
| **Assessment Type** | **Weight as a Percentage** |
| **Final examination**  This examination is cumulative and is given in a variety of formats. An in-class review will be held prior to the final examination. | 20% |
| **Midterm exams (2)**  The examination is given in a variety of formats. The date of the exam is shown on the Course Outline. An online class review will be held prior to each examination. | 40% |
| **Providing solutions to Exercises at the end of each chapter**  Required Exercises are listed in the Course Outline. | 30% |
| **Online quizzes**  Quizzes are announced one day in advance and may vary from 5-10 questions that may be in any format. | 10% |
| **Total Points** | **100** |

**Course Outline**

The following table outlines the course schedule.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week** | **Chapter**  **Readings** | **Labs** | **Assignments/**  **Homework** | **Exams** |
| **1** | Ch 1 | Exercises: Computer | Review Questions; Exercises: Pencil and Paper |  |
| **2** | Ch 2 | Exercises: Computer | Review Questions; Exercises: Pencil and Paper |  |
| **3** | Ch 3 | Exercises: Computer | Review Questions; Exercises: Pencil and Paper |  |
| **4** | Ch 4 | Exercises: Computer | Review Questions; Exercises: Pencil and Paper |  |
| **5** | Ch 5 | Exercises: Computer | Review Questions; Exercises: Pencil and Paper | **EXAM 1** |
| **6** | Ch 6 | Exercises: Computer | Review Questions; Exercises: Pencil and Paper |  |
| **7** | Ch 7 | Exercises: Computer | Review Questions; Exercises: Pencil and Paper |  |
| **8** | Ch 8 | Exercises: Computer | Review Questions; Exercises: Pencil and Paper |  |
| **9** | Ch 9 | Exercises: Computer | Review Questions; Exercises: Pencil and Paper |  |
| **10** | Ch 10 | Exercises: Computer | Review Questions; Exercises: Pencil and Paper | **EXAM 2** |
| **11** | Ch 11 | Exercises: Computer | Review Questions; Exercises: Pencil and Paper |  |
| **12** | Ch 12 | Exercises: Computer | Review Questions; Exercises: Pencil and Paper |  |
| **13** | Ch 13 | Exercises: Computer | Review Questions; Exercises: Pencil and Paper |  |
| **14** | Ch 14 | Exercises: Computer | Review Questions; Exercises: Pencil and Paper |  |
| **15** | Ch 15 | Exercises: Computer | Review Questions; Exercises: Pencil and Paper | **EXAM 3** |

**Learning Support Services**

Provides students with academic support through tutoring, library services and resources.  Tutoring is offered in most academic disciplines including math, science and coursework specific to each campus. Online tutoring is offered through Smarthinking and can be accessed through Atlas.  Assistance with library research can be accessed in person or online through Atlas.  Students also have access to resources such as calculators, laptops, iPads, group study rooms and quiet study rooms within the Learning Support areas. For campus specific information, please visit the college-wide Learning Support Services website at <http://valenciacollege.edu/learning-support/>.

**DISCLAIMER**

Changes to this syllabus may be made at any time by announcement of the professor in class or as an Announcement in Canvas.

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Andrew Eisler, B.A., M.S., Ed.S.

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