C++ PROGRAMMING

Eastfield College STEM Division

COURSE SYLLABUS - Spring 2019
Jan 22 – Mar 21

COSC 1436.41850
Tues/Thur 9:30 – 12:20pm L311
Programming Fundamentals I

Instructor: **David Kirk**   Office: **L315**   Phone: **972-860-7679**   Email: **dkirk@dcccd.edu**
Hours Available | Class Web Site

COURSE DESCRIPTION
Introduces the fundamental concepts of structured programming. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course may use instructional examples and assignments from various programming languages, including but not limited to C, C++, C#, and/or Java. COSC 1436 or any higher level COSC course will meet the core curriculum and/or Associate in Arts or Associate in Sciences requirement. This course will fulfill DCCCD''s degree requirements *only* if this course has been successfully completed and the date of completion does not exceed 10 years. (3 Lec., 3 Lab.)

PREREQUISITES
None

TEXTBOOK AND MATERIALS
None – online book available on class web site.

COURSE OUTLINE
All homework and the class schedule is located on the class web site: ecampus.dcccd.edu
Homework assignments are due by the date listed on the class website. Unless otherwise stated, all **homework must be printed** – it will not be accepted by e-mail or other electronic form. Late assignments are accepted, but 5 points will be deducted for each day late. No late assignments will be accepted after **Mar. 20, 2019**.

EVALUATION PROCEDURES

Four exams (lowest will be dropped)	45%			
Ecampus Quizzes	5%			
Seven Homework Assignments	50%			
90 - 100 = A	80 - 89.9 = B	70 - 79.9 = C	60 - 69.9 = D	0 - 59.9 = F

Note: If you miss an exam for any reason, then this will be the one that is dropped. No make-up exams will be given.

CLASS CALENDAR (see ecampus.dcccd.edu for updated calendar)

CORE CURRICULUM INTELLECTUAL COMPETENCIES:
- Reading: the ability to analyze and interpret a variety of printed materials – books, documents, and articles.
- Writing: the ability to produce clear, correct and coherent, and persuasive language appropriate to purpose, occasion, and audience.
- Speaking: ability to communicate orally in clear, coherent, and persuasive language appropriate to purpose, occasion, and audience.
- Listening: analyze and interpret various forms of spoken communication, possess sufficient literacy skills of writing, reading.
- Critical Thinking: think and analyze at a critical level.
- Computer Literacy: understand our technological society, u se computer –based technology in communication, solving problems, acquiring information.

EDUCATIONAL OBJECTIVES:
1. Discuss computer and communication terminology.
2. Evaluate the effects and implications of computers and communication technology on society.
3. Demonstrate knowledge of the impact of technology on the individual's privacy, security, lifestyle, work environment, standard of living, and health.
4. Gather information for decision-making.
5. Participate in global communities using available technology
6. Create quantitative and qualitative data presentation.

STUDENT LEARNING OUTCOMES:
1. Explain the software development lifecycle
2. Demonstrate problem solving and logic techniques
3. Demonstrate use of software development tools
4. Identify error types and explain debugging techniques
5. Demonstrate understanding of variables and arrays
6. Demonstrate ability to solve programming problems using logic statements and iteration
7. Demonstrate the use of functions in structured programming

Attendance Policy
Students are expected to attend regularly all classes in which they are enrolled and to consult with the instructor when an absence occurs.   If a student is unable to complete a course (or courses) in which he/she is registered, it is the responsibility of the student to withdraw; the instructor will assign a performance grade, which is based upon the performance of the student for the entire semester.

Course Drop Date: Feb. 27, 2019

Disclaimer: The instructor has the right to change the syllabus during the semester. If this happens, students will be notified and the new syllabus will be posted.

Institutional Policies: https://www.eastfieldcollege.edu/au/fastfacts/legal/pages/policies-for-syllabi.aspx