

CS-119 Overview

Why Take CS-119?

- Course is transferable to SDSU and UCSD Computer Science major programs.
- Excellent primer course for Java, C++, C# and other programming language classes if you have no prior programming background.
- Low cost compared to a university, extended studies or private training institution course.
- Semester course progresses at a more "civilized" pace.
- Taught by a working professional in the industry.

Instructor

John Gerstenberg

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About The Instructor: Currently, I am a Senior Programmer/Analyst with the City of Chula Vista with over 30 years of experience in the electronics and computer software industry. Work experience includes private sector companies as well as government agency experience. I am an active software and database developer currently using Visual Basic.Net, ASP.Net, C#, MS Access, SQL Server, SQL Server Reporting Services (SSRS), and Geographic Information Systems (GIS) to implement a wide variety of government business solutions. I have also worked for private sector companies on projects for retail inventory and a variety of projects developing cable TV/broadcast automation systems. My industry experience also includes digital design, system design/specification, software design/specification in structured and OOP environments, software development in text based (MS-DOS and UNIX), GUI (MS Windows) environments, web applications, Windows networking, Project Management, multimedia/digital video, user training and product support. Software development background includes Basic/Visual Basic, ASP.Net, Microsoft SharePoint, C/C++, C#, Java, Assembly, and Object Pascal/Delphi. Database experience includes DBase, Paradox, Access, Informix, Btrieve, Oracle and MS SQL Server.

Additionally, I have been a part-time college instructor in the Information Technology and Computer Science disciplines for 20 years teaching Programming Logic and Design, Visual Basic, ASP.Net, SQL Server, Java, operating system theory and object oriented software technology.

Class Description

CS-119 provides a solid introduction to the fundamental concepts of programming. Topics include object oriented software terminology/concepts, decomposing problems into "workable" pieces using techniques such as flowcharts, pseudocode and UML (Unified Modeling Language). Additionally, the course provides an introduction to the Java programming language. Besides being a good primer for the Java programming courses, the Java introduction provides a good foundation for learning languages such as C++ and C#.

Prerequisites

Ideally, completion of CIS-110 or an equivalent introductory computer course is recommended.

No prior programming experience is required. However, you should be comfortable with "typical" Microsoft Windows operations such as copying files, creating directories (folders), installing software,

uploading and downloading files. Experience with Microsoft Office products such as PowerPoint, Word and Excel will help.

Since this is a "blended" (classroom/online) course, you should also be comfortable working independently (online portion of the course), comfortable with using a web browser, accessing e-mail accounts, posting to a discussion board, compressing/uploading files as part of submitting assignments, and taking quizzes/exams online.