

AP Computer Science (A) Course Syllabus 2014-2015

Curricular Requirements		Page(s)
CR1	The course teaches students to design and implement computer-based solutions to problems.	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
CR2a	The course teaches students to use and implement commonly used algorithms.	12, 13, 16, 17, 18, 19, 20
CR2b	The course teaches students to use commonly used data structures	12, 13, 14, 15, 16, 17, 19, 20
CR3	The course teaches students to select appropriate algorithms and data structures to solve problems.	17, 19, 20
CR4	The course teaches students to code fluently in an object-oriented paradigm using the programming language Java.	10, 11, 14, 15, 17, 19, 20
CR5	The course teaches students of the standard Java library from the AP Java subset in Appendix A of the AP Computer Science A Course Description.	5, 7, 8, 9, 13, 14, 20
CR6	The course includes a structured lab component comprised of a minimum of 20 hours of hands-on lab experiences.	1
CR7	The course teaches students to recognize the ethical and social implications of computer use.	2, 3, 9, 16, 20

Texts

Schram, Leon. *Exposure Java 2014*. Royse City, TX: Leon Schram, 2014.
<http://www.schram.org>

College Board. *AP Computer Science Course Description 2014*. New York: College Entrance Examination Board, 2014.
<http://apcentral.collegeboard.com>

Schram, Leon. *Multiple-Choice & Free-Response Questions in Preparation for the AP Computer Science Examination* 9th Ed. New York: D&S Marketing, 2015
<http://www.dsmarketing.com>

Syllabus at a Glance

Semester 1	Semester 2
- I - Introduction to Computer Science - II - Introduction to Programming in Java - III - Java Primitive Data Types and String - IV - Using Methods and Parameters - V - Control Structures and Boolean Logic - VI - Using Class Methods and Object Methods - VII - Creating Class Methods - VIII - The String Class and the AP Magpie Chatbot Lab - IX - Focus on OOP, Encapsulation - X - Focus on OOP, Inheritance & Composition	- XI - One-Dimensional Static Arrays - XII - One-Dimensional Dynamic Arrays with ArrayList - XIII - Interfaces, Concrete Classes and Abstract Classes - XIV - Focus on OOP, Polymorphism - XV - Two-Dimensional Arrays with the Picture AP Lab - XVI - Focus on OOP, Object Oriented Design - XVII - Recursion - XVIII - Algorithms and Informal Algorithmic Analysis - XIX - Preparation for the AP Computer Science Exam - XX - Post AP Exam I, Sequential Files - XXI - Post AP Exam II, Advanced Graphics Project

Students complete **24 Lab Assignments** in the course prior to the AP Exam. Students know that they will not have sufficient time to complete any major lab assignments during scheduled school lab time. About 8 lab assignments are minor and can be finished in 1-Hour. The remaining 16 major lab assignments take a minimum of 2-Hours and half the major assignments will require 3-4 hours for completion. Students are also required to participate with three Saturday sessions, which are about 50% hands-on labs. A conservative estimate is that students devote a minimum of **20 hours** in hands-on labs during scheduled class-time and roughly **30 hours** in hands-on labs outside school hours for a total minimum of **50 hours** hands-on lab time.

Leon Schram Eighth Edition Computer Science

David Baud



Leon Schram Eighth Edition Computer Science:

Proceedings of the Twenty-seventh SIGCSE Technical Symposium on Computer Science Education John

Impagliazzo, Association for Computing Machinery. Special Interest Group on Computer Science Education, 1996 **Books**

In Print 2004-2005 Ed Bowker Staff, Staff Bowker, Ed, 2004 **Forthcoming Books** Rose Arny, 1990 *Books in Print*

, 1982 Photographic Literature, 1960-1970 Albert Boni, 1972 Books in Print Supplement, 1988 *Photographic*

Literature Albert Boni, 1972 Internationales Verlagsadressbuch, 1979 **Paperbound Books in Print**, 1991 **AB**

Bookman's Weekly, 1988-07

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