



# COMPU**Scholar**, Inc.

Computer programming courses for kids and teens!

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Proudly featuring **KidCoder™** and **TeenCoder™**  
computer science curriculum for middle and high school students

## CompuScholar Professional Development

*April, 2015*

In this document you will find:

- An overview of the CompuScholar Professional Development program
- A description of the Professional Development delivery options
- An outline of topics covered in each development module

For further discussion, please contact:

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## Professional Development Overview

Our country has a shortage of software engineers, and the computer science job market is projected to have excellent growth over the next decade. CompuScholar is committed to encouraging students and teachers to engage in computer science topics and help fill our critical need for quality computer programmers.

Not only do we need to attract students with fun, hands-on curriculum, but we also need to equip computer science teachers with the tools and training needed to run a classroom. Some districts have a hard time finding or employing a full-time computer science teacher, so computer science classes may be administered by technically inclined volunteers from other subject areas.

The CompuScholar online Learning Management System (LMS) is designed to take as much of the logistical burden away from teachers and allow them to focus on classroom instruction. Our turn-key, step-by-step KidCoder and TeenCoder course material has a track record of success in environments where a full-fledged computer science expert may not be available to teach the course.



Our **Professional Development** program will train teachers in the fundamental use of the LMS and in the particulars of each course. Both experienced and novice computer science teachers will enjoy the convenience and content provided by our instructional system.

## Professional Development Cost

**Professional Development is free** with your adoption. We provide a number of delivery options (described below) to best meet the logistical needs of your district.

## Continuous Improvement

We encourage feedback and may change, adapt, or improve any part of our Professional Development program as needed to better serve your district.



## Delivery Options

Our Professional Development (PD) modules can be delivered in three ways:

- **Online / Automated** - All teachers will automatically receive access to PD modules related to their course(s) with their teacher login. Each PD module is fully implemented within our LMS and can be accessed at any time throughout the adoption lifecycle. The PD content will be primarily video-driven with supplemental documents as needed. This automated training should be sufficient to meet the needs of many districts and teachers.
- **Online / Live** - Districts who prefer an interactive training experience can request a live (virtual) training session during the first adoption year. Online / Live training is available to districts that meet certain minimum student volume requirements. Our staff will establish a virtual webinar with shared desktop and audio bridge. We can then walk groups of online teachers through the same PD material found in the automated PD modules and answer live questions. Online / live training is our recommended option where the interactive experience is desired, because it removes nearly all logistical obstacles (physical classroom equipped with computers and network, teacher & staff travel, etc).
- **In-Person / Live** – Districts who prefer a live, face-to-face training session can request to be put on our in-person training tour during the first adoption year. In-person training is available to districts that meet certain minimum student volume requirements. The same PD modules available in online/automated or online/live formats can be administered face-to-face in a classroom that has sufficient computer and logistical support. Districts will be responsible for providing computers, audio-visual support, and high-speed Internet connection for the classroom.

In each case the training (covering core system and one or two specific courses) should take approximately one half-day.



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## Integrated Online Delivery

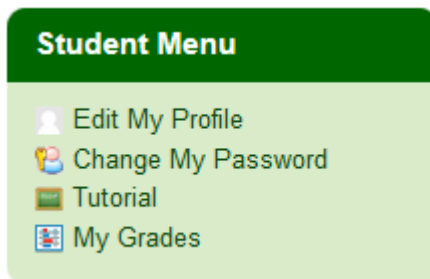
Our online / automated Professional Development modules are integrated into our core Learning Management System. Teachers can easily access material for initial training or review at their convenience throughout the adoption lifecycle.

## Student & Teacher Tutorial

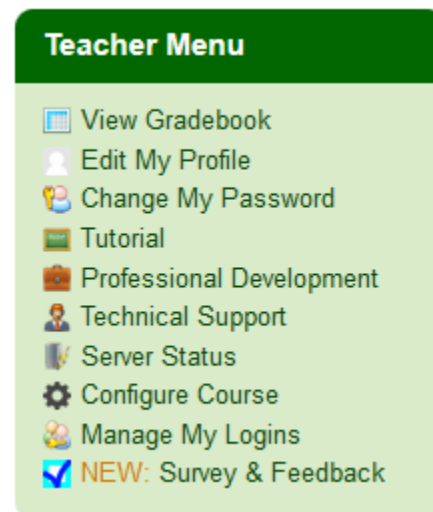
Both students and teachers may benefit from fundamental training on how to use our LMS. The Student Menu or Teacher Menu will contain a link to common “Tutorial” material once logged in as a student or teacher. Tutorial material covers tasks such as basic navigation, grade review, project submission, file management, and profile editing.

## Teacher Professional Development

Teacher training is available through a “Professional Development” link in the Teacher Menu once logged in with a teacher role. Simply click on the link to access the teacher’s PD material.



Sample Student Menu  
with "Tutorial" link.



Sample Teacher Menu  
with both “Tutorial” and  
“Professional Development” links.



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## Module Topics

CompuScholar PD material is incorporated into two modules. The first “Tutorial” module is intended for both students and teachers and covers fundamental usage of our online system. The second “Professional Development” module for teachers only covers administrative tasks and course-specific information.

### Student & Teacher Tutorial – “Taking CompuScholar Courses”

This module, available from the Student Menu or Teacher Menu, covers topics such as: understanding the CompuScholar course tracks and relationships, getting help, minimum system requirements, logging in and forgotten passwords, basic course navigation, managing your profile, taking quizzes and tests, managing project files, reviewing your grades, and the private files area.

The image below shows the front page of the Tutorial.

Module Title	Link
Understanding the CompuScholar Course Tracks	
Getting Help for Students	
Minimum System Requirements	
Logging in and Forgotten Passwords	
Basic Course Navigation	
Managing Your Profile	
Taking Quizzes and Tests	
Managing Project Files	
Reviewing Your Grades	
Using the Private Files Area	



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## Teacher Professional Development - “Teaching CompuScholar Courses”

This series for teachers contains one module covering common administrative tasks and other modules specific to each of our online courses.






### Module 1 – Common Administrative Features

- Giving quizzes and tests
- Receiving and grading student projects
- Using the electronic gradebook (adding, changing, exporting grades)
- Getting help and support

### Common Administrative Features

Teachers for all CompuScholar courses should start here to learn about the common features available through our online Learning Management System (LMS).

**Please click on the links below to access each training module.**

Module Title	Link
Giving Quizzes and Tests	
Grading Student Projects	
Using the Electronic Gradebook	
Texas TEKS, ELPS, and CCRS Citations	
Getting Help and Support for Teachers	



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## Sample Module for one course (TeenCoder: Java Programming)

Each course-specific module will include topics such as a course overview, course syllabus and pacing, installation instructions for 3<sup>rd</sup> party software, an IDE tutorial and coding demonstration, and a walkthrough of the topics in each chapter.

The image below shows part of the **TeenCoder: Java Programming** training components.

### Computer Science II / AP CS A (TeenCoder: Java Programming)

This module covers the "TeenCoder: Java Programming" course for **Computer Science II / AP CS A**.

Please click on the links below to access each training module.

Module Title	Link
Course Overview	
Course Syllabus and Pacing	
Sample AP CS A Syllabus	
Installation of the JDK	
Building and Running Java Programs from the Command Line (Windows)	
Building and Running Java Programs from the Command Line (Mac OS)	
Installation of Eclipse	
Eclipse Development Environment Tutorial and Coding Demonstration	
Chapter 1 Walkthrough (Understanding Computer Programming)	
Chapters 2 - 5 Walkthrough	