

# Software Engineering (PLTW)

**8470 36 weeks**

Copyright © 2017

## Course Description

**Suggested Grade Level:** 11 or 12

**Prerequisite:** 8473

This Project Lead the Way course aims to develop students' computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cyber security, and simulation.

## Curriculum Framework

Project Lead The Way (PLTW) curriculum guides and course competencies are only available to PLTW affiliated schools through agreement with PLTW. To obtain additional information contact: Project Lead The Way 3939 Priority Way South Drive, Suite 400 Indianapolis, IN 46240 Toll Free: 877.335.PLTW (7589) Local: 317.669.0200 <https://www.pltw.org>

## Appendix: Credentials, Course Sequences, and Career Cluster Information

**Industry Credentials: Only apply to 36-week courses**

- College and Work Readiness Assessment (CWRA+)
- Computer Programming Assessment
- Project Lead the Way End-of-Course Assessments
- Workplace Readiness Skills for the Commonwealth Examination

**Concentration sequences:** *A combination of this course and those below, equivalent to two 36-week courses, is a concentration sequence. Students wishing to complete a specialization may take additional courses based on their career pathways. A program completer is a student who has met the requirements for a CTE concentration sequence and all other requirements for high school graduation or an approved alternative education program.*

- Software Engineering Essentials (PLTW) (8473/36 weeks)

<b>Career Cluster: Science, Technology, Engineering and Mathematics</b>	
<b>Pathway Title</b>	<b>Occupations</b>
<b>Engineering and Technology</b>	<b>Computer Programmer Computer Software Engineer Statistician Systems Analyst</b>