

# Software Engineering Essentials (PLTW)

**8473 36 weeks**

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## Course Description

**Suggested Grade Level:** 9 or 10 or 11 or 12

Students will experience the major topics, big ideas, and computational thinking practices used by computing professionals to solve problems and create value for others. This course will empower students to develop computational thinking skills while building confidence that prepares them to advance to Computer Science Principles and Computer Science A.

## 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
- 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 (PLTW) (8470/36 weeks)

| Career Cluster: Science, Technology, Engineering and Mathematics |   |
|--|---|
| Pathway  | Occupations   |
| Engineering and Technology                                       | Computer Hardware Engineer<br>Computer Programmer<br>Computer Software Engineer |
| Science and Mathematics  | Secondary School Teacher  |