

App Development Flight Path @ Launch

Chad Niedert

App Development Flight Path

@ Launch

General Enrollment Information

- + 2 periods (currently in morning)
- + 8:00 AM start time
- + Grades 11-12 can enroll
- + Prerequisites: Concurrent enrollment in Advanced Geometry, Algebra II, or higher
- + Cannot participate if student has already taken AP CS Principles

App Development Flight Path

@ Launch

AP CS Principles

App Development with Swift

Computational Thinking

Computer Literacy

AP CS Principles

General Enrollment Information

- + Grades 9-12 can enroll
- + Prerequisites: Concurrent enrollment in Advanced Geometry, Algebra II, or higher
- + Can be used for a math credit or elective credit

AP CS Principles

7 Big Ideas

- + Creativity
- + Abstraction
- + Data and Information
- + Algorithms
- + Programming
- + The Internet
- + Global Impact

Essential to studying CS



AP CS Principles

What computer
scientists DO



6 Computational Thinking Practices

- + Connecting Computing
- + Creating Computational Artifacts
- + Abstracting
- + Analyzing Problems and Artifacts
- + Communicating
- + Collaborating

AP CS Principles

AP Exam

- + Explore Task (16%)
- + Create Task (24%)
- + 74-Question Multiple Choice Exam (60%)

App Development w/ Swift

App Development with Swift Certification

- + Swift and Xcode Basics (variables, documentation, etc.)
- + Data types, models, classes and an intro to the UIKit
- + Navigation and workflows (navigation controllers, tab controllers, etc.)
- + Tables and data persistence
- + Working with the web
- + Prototyping and project planning
- + Building AR Apps (if time allows)

Contact

App Development Flight
Path

AP CS Principles

Chad Niedert

chad.niedert@fortthomas.kyschools.us

Questions?