Computer Science Department Courses 2020-2021

All these courses are appropriate for grades 9-12. *All these courses meet the Computer Technology Requirement. Each meets on an elective schedule (5x / 2 wks) for one semester.*

Creative Computing -

This is a good course for a student who wants a general exposure to computers and applications. Students work with spreadsheets and presentation software, and are introduced to computer programming.

Introduction to Programming

This course introduces students to programming concepts, and enables them to make simple but useful (and fun) programs, using the Python programming language. Students create a final project of their own design.

Game Programming

Introduces students to programming concepts through the creation of simple computer games and the study of more complex ones.

The following course is open to students in grades 10-12. It contains challenging material at an introductory level and is appropriate for beginners. AP CS Principles meets the Computer Technology Requirement. It meets on a full schedule (8x / 2wks) for the full year.

AP Computer Science Principles

Using a curriculum provided by Harvard University called CS50, students will explore aspects of computer science using the C and Python programming languages. Students will prepare to take the AP Computer Science Principles exam, and will complete two major projects as part of the AP assessment.

The following courses are for grades 10-12, with a previous programming course or permission of the department. They will be offered when demand allows. These courses meets the Computer Technology Requirement. They meet on a full schedule (8x / 2wks) for the full year.

Mobile App Development

Students will learn to make apps for iOS and Android using a variety of tutorials and online courses. Students should be prepared to work and learn independently, guided by the instructor.

Java Programming

Students will learn advanced programming techniques, including Object Oriented Programming, using the Java Programming language.

More information at https://www.lsrhs.net/academics/departments/computer_science