

# Computer Science Department Courses 2021-2022

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.

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*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.

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*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 meet 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](https://www.lsrhs.net/academics/departments/computer_science)