

Canyon Crest Academy: Exploring Computer Science

| Level of Difficulty | Estimated Homework | Prerequisites |
|--|--------------------|-------------------|
| <input checked="" type="checkbox"/> Moderate | 0-30 minutes | <u>District</u> |
| <input type="checkbox"/> Difficult | | None |
| <input type="checkbox"/> Very Difficult | | <u>Department</u> |
| | | None |

Course Description

This course will provide students with foundational knowledge of computer science. Students will explore topics in human computer interaction, web design, problem solving, programming, data modeling, and robotics. Throughout the course students will understand algorithm development related to computer applications and gain technical expertise using computational tools.

1. Unit Project: Human Computer Interaction
2. Unit Project: Problem Solving
3. Unit Project: Web Design
4. Unit Project: Programming
5. Unit Project: Data Modeling
6. Unit Project: Robotics

Grading

Projects (40%), Participation (15%), and Lab Assignments & Quizzes (30%), Final Exam (15%).

Syllabus Link

Contact Teacher

Supplemental Information

- 10 credits
- Meets high school graduation requirement for Practical Art or elective credits
- Meets CSU/UC subject area "g" requirement