

## COMPUTER PROGRAMMING 2

*This course reviews and builds on the concepts introduced in Computer Programming 1. This course introduces students to more complex data structures and their uses, including sequential files, arrays, and classes. Students will learn to create more powerful programs within a specific programming language such as Java, Python, C++, C#, or Swift.*

- Become familiar with and use a programming environment
- Employ accepted programming methodology
- Properly use language-fundamental commands and operations
- Properly employ control structures
- Demonstrate knowledge of current ethical issues dealing with computers and information in a global society using 21<sup>st</sup> Century Skills
- Be aware of career opportunities in the Computer Programming/Software Engineering industry and of its history
- Employ static (array) and dynamic (vector, ArrayList, etc.) list structures and strings
- Properly employ object-oriented programming techniques
- Use sequential files
- Apply appropriate programming skills as an effective member of a team demonstrating the ability to collaborate with others ([www.p21.org](http://www.p21.org))

