



WELLSBORO AREA HIGH SCHOOL  
225 NICHOLS STREET  
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EVERY CHILD,  
EVERY OPPORTUNITY,  
EVERY DAY...  
STRIVING FOR SUCCESS

## INDEPENDENT STUDY PROPOSAL AP Computer Science A

Student: Cameron Clark  
Teachers: John Davis, Andy Borzok  
2023-2024 School Year

The **PURPOSE** of this independent study is to provide the student with an opportunity to complete an introductory level college computer science course. The College Board AP Computer Science A course introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language.

The **TOPICS** covered in this course will include:

- Program Design and Algorithm Development - Determine required code segments to produce a given output.
- Code Logic - Determine the output, value, or result of given program code given initial values.
- Code Implementation - Write and implement program code.
- Code Testing - Analyze program code for correctness, equivalence, and errors.
- Documentation - Describe the behavior and conditions that produce the specified results in a program.
- Ethical Computing - Understand the ethical and social implications of computer use.

**ASSESSMENT** will be accomplished through both written evaluations and labs. The student will be required to complete the online College Board AP Computer Science A assignments and assessments.



The **GRADING SCALE** for this class is the standard high school grading scale:

- 93-100% A
- 85-92% B
- 77-84% C
- 70-76% D
- 0-69% F

If the student successfully completes this independent study, they will receive 1 computer science **CREDIT**.

**MATERIALS/RESOURCES** will be provided online through the College Board AP Computer Science A course.

The **MEETING TIME** will be at least one 40-minute period per day, 5 days a week for the school year.

**REQUIRED SIGNATURES:**

  
\_\_\_\_\_  
Student - Cameron Clark

9-1-2023  
Date

  
\_\_\_\_\_  
Teacher - Mr. John Davis

9/1/23  
Date

  
\_\_\_\_\_  
Teacher - Mr. Andy Borzok

9/1/23  
Date

  
\_\_\_\_\_  
School Counselor - Mrs. Tanya Harmon

9/1/23  
Date

  
\_\_\_\_\_  
Principal - Mr. Jeremy Byrd

9/1/23  
Date