

FORM 400

CURRICULUM PROPOSAL

Fern Ridge School District 28J

1. Name of Course or Activity ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES
School EHS Department SCIENCE/CTE
2. Check One: ☐ Change in old course ☒ New Course
3. Implementation Dates: Begin 9.8.26 End _____
(if short term)
4. Target Group: 2ND YEAR CS STUDENTS
5. Course Description: Attach the completed "Planned Course Statement".
6. Rationale: (What problem or need will this proposal resolve? How will this goals be accomplished? Use additional pages if necessary.)

Exploing computer science is the only CS class being offered currently. APCSP will provide an opportunity for advanced CS pursuit.

7. Budget Estimate:

	Amount	Explanation
Personnel	<u>0</u>	<u>NO CHANGE IN CURRENT FTE</u>
Supplies	<u>0</u>	<u>OPEN SOURCE CURRICULUM</u>
Equipment	<u>0</u>	<u>STUDENTS HAVE COMPUTERS</u>
Travel	<u>0</u>	<u>NO FIELD TRIPS PLANNED YET</u>
Other	<u>TBD</u>	<u>AP TEST FEES</u>
Total:	<u>0</u>	

Initiator(s) CHRISTOPHER DOSCHER Position SCIENCE/CTE
School EHS Date 9.10.26

FORM 401

SIGNATURES REQUIRED FOR A PROPOSED CHANGE IN THE CURRICULUM

Fern Ridge School District

PROPOSAL IDENTIFICATION: AP CSP

INITIATOR: CHRISTOPHER DOSCHER

1. Submitted to: _____ Date: _____
(Curriculum Associate)

Signature: _____ Date: _____

2. Submitted to: Cydney Vandercau Date: 09/15/2026
(Supervising Administrator)

Signature: _____ Date: _____

3. Submitted to: _____ Date: _____
(Curriculum Council Chairperson)

Recommendations of the Curriculum Council: _____

Signature: _____ Date: _____

4. Submitted to: _____
(Superintendent)

Final action taken: _____ Implementation as submitted is authorized

_____ Implementation with specified modification is authorized

_____ Implementation is not authorized

Explanation: _____

Signature: _____ Date: _____

Fern Ridge School District 28J

Elmira High School

COURSE SYLLABUS: Advanced Placement Computer Science Principles

SEMESTER: A

INSTRUCTOR: John Christopher Doscher

EMAIL: cdoscher@fernridge.k12.or.us

PHONE: 541.935.8200 (2117)

LOCATION: RM17

PERFORMANCE TASK: Friday, April 30, 2027

EXAM: Friday, May 14, 2027

COURSE OBJECTIVE:

Exploring Computer Science teaches the creative, collaborative, interdisciplinary, and problem solving nature of computing with instructional materials that feature an inquiry-based approach to learning and teaching. As part of this course, students will delve into real world computing problems that are culturally relevant, and address social and ethical issues while delivering foundational computer science knowledge to students. Students will engage in several in-depth projects to demonstrate the real-world applications of computing.

OVERVIEW:

Advanced Placement Computer Science Principles is a 0.5 credit class that will meet according to the Elmira High School Bell Schedule. The College Board approved curriculum employed by this course will be Code.org - AP Computer Science Principles in Python. The course is based upon five Big Ideas in Computer Science identified by the College Board:

- ★ Creative Development
- ★ Data
- ★ Algorithms and Programming
- ★ Computer Systems and Networks
- ★ Impact of Computing

COURSE RESOURCES:

- ☐ MyAP
- ☐ Code.org
- ☐ CANVAS
- ☐ VEXcode VR
- ☐ VEXcode V5
- ☐ MIT App Inventor
- ☐ Exploring Computer Science - Oregon
- ☐ Scratch
- ☐ Python
- W3 Schools
- ☐ Deepnote
- ☐ Google Read&Write

MATERIALS:

- FRSD 28J Laptop Computer (Charged ⚡ ⚡ ⚡)
- Graphing Composition Laboratory Notebook or Electronic Equivalent
- 1" 3-ring binder
- Graphite Pencil

REQUIREMENTS:

Successful course completion will be achieved through accurate completion of assigned work as well as class participation. All assigned work will be submitted through Canvas unless otherwise indicated.

COURSE EVALUATION CATEGORIES:

Notebook	50%
Formative	30%
<u>Professionalism</u>	10%
Final Exam	10%

NOTEBOOK:

The science and engineering notebook will function as a portfolio for the written work that a student generates during the course. Ideally, a versatile space for students to demonstrate participation and understanding. Students will submit their notebook periodically as directed at unit or term breaks to establish engagement in the course. Notebooks may be handwritten in a Graphing Composition Laboratory Notebook, maintained electronically, or in a hybrid electronic/handwritten format as the course requires. Examples of notebook entries may include but are not limited to sketches, journal entries, calculations, coding and class notes relevant to the course content.

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PROFESSIONALISM:

Student professionalism will be evaluated based on details prescribed by the Oregon Employability Skills Curriculum.

FINAL EXAM:

A cumulative summative assessment will be administered during the scheduled final examination period.

ELECTRONIC WORK:

*****All electronic work will be submitted with student first initial and last name followed by an underscore in front of the original filename provided*****

ENGLISH LANGUAGE LEARNERS:

(Spanish) *Si necesita más información en Español sobre esta clase, por favor comuníquese con*

GRADING SCALE: A: > 87% B: > 62% C: > 37% D: > 25% F: < 25%

GRADING POLICY FOR ABSENCES:

Communication. Make-up work will only be permitted for excused absences or due to student participation in FRSD 28J sponsored activities. If work is to be missed for voluntary reasons e.g. family vacation, athletic event, the student is responsible for communicating the absence in advance to make alternate arrangements for assignment completion.

PROGRESS AND COMMUNICATION:

Progress and grade reports will be made at the middle and end of each quarter respectively. Progress and grade information can be accessed via the web through Home Access Center. Communication with families for extracurricular opportunities, recognition, academic and conduct concerns will be made through Parent Square.

CLASSROOM NORMS:

- Respect self and others.
- Be on time and prepared for class.
- Be motivated to learn.
- No electronic device use.
- Stay hydrated by drinking water.

~ If you are struggling with the classroom norms please reflect on Maslow's hierarchy of needs and consult a teacher, counselor or administrator for support to feel prepared and motivated for learning ~

- Elmira High School Student Handbook

SAFETY:

An electronic signature indicating acknowledgement of the science laboratory safety rules is required in order to participate in laboratory activities.

RESPONSE TO INTERVENTION:

If not resolved by teacher-parent-student communication or restorative process, students will be referred to administration for repeated violation of classroom, school, and FRSD 28J rules.

STUDENT ELECTRONIC SIGNATURE:

By providing an electronic signature the requirements and contents of the syllabus for Advanced Placement - Computer Science Principles are acknowledged and accepted.

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COURSE TOPICS:

Unit 1	Digital Information
Unit 2	The Internet
Unit 3	Intro to App Design
Unit 4	Variables, Conditionals, and Functions
Unit 5	Data
Unit 6	Lists, Loops, and Traversals
Unit 7	Parameters, Return, and Libraries
Unit 8	Cybersecurity and Global Impacts
Unit 9	Create PT Prep
Unit 10	Algorithms
Unit 11	CS Principles Post Course Survey