



Santa Rosa City Schools Course Proposal: Earth Science ADP

SRCS New Course ID PH0105	SRCS Course Short Title Earth Science ADP	SRCS New Long Title Earth Science Alternative Diploma Pathway	Default Credits 5
Course Length Year	State Course Code 9321 - Earth and Space Sciences	Standard Grade Range Secondary 9-12	CSU/UC required Not CSU Requirement

Proposal Submitted By:

Needs Statement: Discuss how this course fits into your Site and/or the District’s goals. Attach minutes of meetings where this course was approved at site or district leadership meetings.

Alternative Diploma Pathway Earth Science ADP is a survey course for students with significant cognitive disabilities who are anticipated to earn a high school diploma through the alternative pathway in accordance with California Education Code 51225.31.

This course reviews the California State Content Standards for Earth Science.

Graduation Requirements: Specify which requirement is met. (High School only)

Physical Science

UC a-g Requirements: Specify which requirement is met. (High School only)

Not CSU Requirement

Explain the rationale for course addition or modification. How does this fit in with district/site goals. Is this course replacing a current course, which course is it replacing and why? Will this course require new sections? Be explicit.

To meet Education Code 51225.31 and SRCs Board Policy 6146.4, Students with significant cognitive disabilities must have the option to obtain a modified State of California High Diploma. These new courses are options and determined through the IEP. These courses are “modified” and not “accommodated” as are other courses such as Small Group Instruction (SGI) courses. These courses will NOT require additional sections and can be folded into existing periods within a teacher’s current schedule.

Explain the measurable learning outcomes

Content Themes:

- Mechanics in Motion
- Momentum and Energy
- Waves and Light
- Electricity and Magnetism
- Subatomic Particles

SKILLS:

- Sequencing and Using a Timeline
- Interpreting Graphics (Cartoons, photos, maps, charts, graphs, etc.)
- Determining Cause and Effect
- Identifying Bias and Point of View
- Conducting effective research
- Speaking and listening and interpreting (academic discussion, presentation, etc)
- Collaborating constructively on team and group projects.

Course Description (To be used in the course catalog)

Earth Science ADP is a survey course for students with significant cognitive disabilities who are anticipated to earn a high school diploma through the alternative pathway in accordance with California Education Code 51225.31.

Earth Science ADP, a course based on the Next Generation Science Standards, explores the way in which physical processes govern the universe. Physics is the study of matter, forces, and their interactions. By using evidence from experiments, research, and observations, students will learn how to investigate the natural world.

Detailed Course Design

(Course design should include the objectives, activities, assessments, and standards to be addressed in this course.)

Course Content

Unit 1 Title
Mechanics in Motion
Unit 1 Description and Sample Activities
Representing Motion: Students will learn that motion can be modeled and predicted. Students will demonstrate understanding of gravity, friction, inclined planes, acceleration and inertia. Sample activities may include: <ul style="list-style-type: none">● Launching rockets and measuring distance● Racing balls or similar items on a track and testing variables and documenting and

reflecting on findings

- Studying the solar system and planetary movement

Unit 2 Title

Momentum and Energy

Unit 2 Description

Students will learn that energy comes in many forms, can be transferred or transformed, and is conserved, and that these properties allow humans to use energy. Students will learn about thermal energy, heat, and the role that these concepts play in everyday life.

Sample activities may include:

- Demonstrate collisions and experiment with variables that reduce the impact of the collision
- Experiment with a variety of substances at different temperatures and review results

Unit 3 Title

Waves and Light

Unit 3 Description

Students will learn about and develop an understanding of the basic properties and behaviors of waves, including light waves.

Sample activities may include

- Students will use a mirror to view reflect and refract light
- Students will use colored disks to understand the impact of combining colors
- Students will use a spring toy to explore the concept of light and sound waves

Unit 4 Title

Electricity and Magnetism

Unit 4 Description

Students will learn that electric currents allow for the transfer of energy, which can be transformed into other useful forms of energy. Students will learn that both permanent magnets and electromagnets produce magnetic fields, which can be used in a variety of applications, including motors.

Sample activities may include:

- Exploring magnets and their impact on a variety of substances at different distances and analyzing the data gathered
- Experimenting with closed systems and open systems when transferring electrical

- current
- Researching how magnets are incorporated into common commercial items.

Unit 5 Title
Subatomic Particles
Unit 5 Description
<p>Students will learn about atoms and that atoms are made up of smaller particles</p> <p>Sample activities may include:</p> <ul style="list-style-type: none"> • Creating models of other representations of atoms • Research the universe and its formation

EVALUATION OF STUDENT PROGRESS

Assessment Methods:

A variety of assessments will be used to measure students’ progress including by not limited to formal lab reports, projects, presentations, quizzes, and summative tests and discussions.

Budget- budget figures must be included even if they are an estimate.

Projected Costs	Start-up	Ongoing
Personnel (Not to include classroom instructor unless a new section is needed)	Instructional Assistants (Existing)	Instructional Assistants
Instructional Material Supplies per student (textbooks, software, etc.)	TBD based on Pilot Approval: Est. \$13,000 for software curriculum	\$7,549.90
Services (training, equipment maintenance, contracts, etc.)	No additional costs	N/A
Capital Outlay (remodeling, technology, etc.)	N/A	N/A
Total Projected Costs	Est. \$ 13,000	\$ 7,549.90

Instructional Materials- must include estimate for new materials even if none have been selected. Place in chart above.

Type	Publisher	Title	ISBN	Author	Copyright	# Have/Need
Curriculum	Attainment Company	Core Curriculum Solution: High School, 2nd Edition	Multiple	Multiple	2024	Need: 3
Curriculum	N2y Unique	Unique Learning	N/A	Multiple	2018	Need: 3

	Learning System	System				

Funding Source(s) for Costs and Instructional Materials

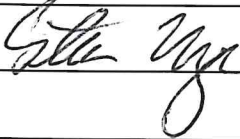
Grants (indicate specific grant and grant timeline)	
Categorical Funds (include related programs)	
Career Technical Education (must be for an approved CTE course)	
Department Funds	Special Services will support specific accommodations as required through the IEP
Other (be specific)	General Fund resources supports the universal curriculum for all state content standards

Appendix of Additional Documents

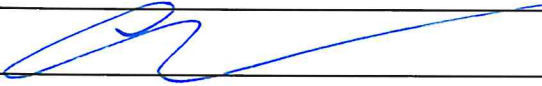
<p><u>* Required additional documents include meeting minutes where the course was discussed and approved</u></p> <p><u>Department Meeting</u> Secondary–High School ESN Meeting Date: December 7th 2024 Location: In-person, SRHS Time: 3:30-4:30</p> <p>Present: Colin Abbot, EAHS, ESN Teacher Noa Lewin, MHS, ESN Teacher Jasmine Clewis, SRHS ESN Teacher Kurt Chapman, SRHS ESN Teacher Amy Fuller, Special Services, Program Manager</p> <p>Overview:</p> <ul style="list-style-type: none"> • Discussed the curriculum advantages • Discussed current programs in use • Discussed next steps of reviewing curriculum samples <p><u>Site Meetings</u> Secondary–High School ESN Date: Monthly Department Meetings Location: In-person, Site Time: Multiple</p>
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Present:
 Site ESN teachers (SRHS, MHS, EAHS)
 Amy Fuller, Special Services, Program Manager
 Overview:
 • Looked through curriculum samples

District Principal Review and Approvals:

Principal's Signatures	Site	Approved / Not Approved
	SRHS	Approved

District Department Chair Review and Approvals:

Department Chair Signatures	Site	Approved / Not Approved
	SRHS	Approved