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| cid:1521B904-3EEF-49BF-9FA3-55BDA2C84CB0 |  | EDUCATIONAL SERVICES  NEW COURSE PROPOSAL |

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| **Course Title** | Farm to Fork Sustainability |
| **Subject Area** | Horticulture & Agriculture |
| **Pre-requisite (if applicable)** | Biology |
| **Course Length** | X Term X Year-Long Other: |
| **Course Description** | Sacramento is the Farm to Form Capital in the nation, possibly in the World. With several Farm to Fork businesses established in West Sacramento and across the river, we will have a support system to further this movement in the education of our students. The students in this class will get a hands on experience growing vegetables, fruits, flowers and trees from seeds to transplanting and to harvest with the ultimate goal of feeding the students, staff of RCHS, and possibly the district with a healthy a “home grown” crop of food. Economics and sustainability will also be incorporated into the growing experience. Composting healthy balanced soil will be an ongoing activity and a foundation for our class success. Understanding of organic versus non-organic crops will be taught and experienced as well. Life skills will be taught at every opportunity to encourage understanding of Farm to Fork Sustainable Agriculture. |

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| **Course Outline**  Showing Units  and  Sub Units | **UNIT 1 How to Build Healthy Soil**  **UNIT 2 Seasonal Crops & Greenhouse gardening**  **UNIT 3 Cycles of Nature**  **UNIT 4 Too much of a good thing: Eutrophication**  **UNIT 5 Sustainability**  **UNIT 6 Economics**  **UNIT 7 Organic vs. Inorganic Crops**  **UNIT 8 Synthetic vs. Organic Fertilizers**  **UNIT 9 How can we feed the world?** |
| **Standards Addressed** | Students will learn the nitrogen cycle, carbon cycle, water cycle, and phosphorus cycle as well as review photosynthesis and how abiotic and biotic factors cycle through an ecosystem. Erosion and eutrophication will be an important aspect of student understanding for gardening success. Decomposition and recycling of nutrients will also be a fundamental lesson experienced. Biodiversity, conservation and sustainability will also be taught in an interactive way. This course will address the Common core standards which will facilitate the English & math courses in combination with Next Generations Science standards. |
| **Key Assignments** | Growing crops of food to eat and enjoy. Advertising future crops for harvest using Microsoft Publisher. Students will present what has been learned each semester in a public speaking forum. Team building skills and collaborating with fellow classmates during Back to School Night activities, and Science is Awesome night to demonstrate our Farm to Fork movement and sustainability . |
| **Textbook** | None needed |
| **Price of Text** | N/A |
| **Price of Materials** | Greenhouse – 60’ x 20’ = $50,000 & Irrigation system, stands |
| **Recurring Costs** | Fertilizer, Soil, Seeds, wood, marking pens $1000/ year |
| **Comments from Curriculum Council:** |  |
| **ACTION:** |  Approved  Approved Pending Edits  Rejected |

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Department Chair Date Site Principal Date

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Director of Curriculum & Instruction Date Assistant Superintendent – Ed. Services Date