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|  | AGRICULTURE, FOOD & NATURAL RESOURCES |
| **EARN YOUR BUSINESS & INDUSTRY ENDORSEMENT** |

### ECOLOGY & ENVIRONMENTAL CONSERVATION

### PROGRAM OF STUDY

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| **09704** | Principles of Agriculture, Food & Natural Resources, **1 credit** | **GPA Level: Regular** |
|  | **Grades 9-12** | **Service ID: 13000200** |  |
|  | **Required Prerequisite:** | None |  |
|  | **Endorsement/Career Cluster:** | Business & Industry/ Ag, Food, & Nat Resources |
| This is an introductory course designed to provide an overview of global agriculture. The course topics include leadership, career development, communications, livestock, plant and soil science and food science.  |
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| **09707** | Principles & Elements of Floral Design, 1 credit | **GPA Level: Regular** |
|  | **Grades 9-12** | **Service ID: 13001800** | **FINE ARTS CREDIT** |
|  | **Recommended Prerequisite:** | **Principles of AFNR**  |
|  | **Fee:** | **$20 (per semester)** |  |
|  | **Endorsement/Career Cluster:** | **Business & Industry/ Ag, Food, & Nat Resources** |
| This course is designed to develop students’ ability to identify and demonstrate the principles and techniques related to floral design and horticultural systems as well as develop an understanding of the management of floral business and other career opportunities. Skills in the design and arrangement of flowers, foliage and related plant materials which includes designs for homecoming, weddings and other special event arrangements are emphasized.  |

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| **09710** | Landscape Design & Turf Grass Management, **1 credit, 2 periods (SCC – Fall)** | **GPA Level: Regular** |
|  | **Grades 10-12** | **Service ID: 13001900** |  |
|  | **Recommended Prerequisite:**  | **Principles of AFNR or Floral Design**  |
|  | **Required Prerequisite:** | **Course Application** |
|  | **Advanced Technical Credit\*:** | **Statewide: HALT 1322/1422 or HALT 1324/1424** |
|  | **Endorsement/Career Cluster:** | **Business & Industry/ Ag, Food, & Nat Resources** |
| This is a ***2* *period,******1 semester*** course designed to develop skills in the design, construction and maintenance of planted areas. Both softscape and hardscape designs are explored for the beautification of home grounds & commercial property. *\*See definition of advanced technical credit in the introduction to the CTE section of the course description guide.* |
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| **09709** | Horticulture Science, 1 credit, 2 periods (SCC – Spring)  | **GPA Level: Regular** |
|  | **Grades 10-12** | **Service ID: 13002000** |  |
|  | **Recommended Prerequisite:**  | **Principles of AFNR or Floral Design**  |
|  | **Required Prerequisite:** | **Course Application** |
|  | **Advanced Technical Credit\*:** | **Statewide: HALT 1301/1401** |
|  | **Endorsement/Career Cluster:** | **Business & Industry/ Ag, Food, & Nat Resources** |
| Prepare for a lucrative career in the flower industry!This is *a* ***2 period, 1 semester*** course designed to teach students about the cultivation and management of ornamental and flowering plants, including cut flowers, potted flowering plants, bedding and garden plants. Students will learn how to grow flowers in green houses, how to manage greenhouses and to develop a great career in the horticulture/floriculture industry. *\*See definition of advanced technical credit in the introduction to the CTE section of the course description guide.* |
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| **19710** | Advanced Plant & Soil Science, **1 credit, 2 periods (SCC - Fall)**  | **GPA Level: Regular** |
|  | **Grades 11-12** | **Service ID: 13002100** | **SCIENCE CREDIT** |
|  | **Recommended Prerequisite:**  | **Floral Design, Horticulture Science, Landscape Design**  |
|  | **Required Prerequisite:** | **Course Application** |
|  | **Endorsement/Career Cluster:** | **Business & Industry/ Ag, Food, & Nat Resources****Advanced CTE Credit** |
| Students learn how plant and soil science have influenced a vast body of knowledge and that plant and soil science is the basis for many other fields of science. Investigations, laboratory practices, and field exercises are to be used to develop an understanding of plant and soil science as it relates to the 21st Century world. This course is designed to prepare students for careers in the food and fiber industry.  |
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| **19709** | Practicum in Agriculture, Food & Natural Resources – Plant Science, **1 credit, 2 periods (SCC - Spring)** | **GPA Level: Regular** |
|  | **Grades 11-12** | **Service ID: 13002500** |  |
|  | **Recommended Prerequisite:**  | **2 Plant Systems credits** |
|  | **Required Prerequisite:** | **Course Application** |
|  | **Endorsement/Career Cluster:** | **Business & Industry/ Ag, Food, & Nat Resources****Advanced CTE Credit** |
| The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources cluster. The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations, such as employment, independent study, internships, assistantships, mentorships, or laboratories. |

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