Revised May 2024 The Plant Science program of study focuses on occupational and educational opportunities associated with the science, research, and business of plants and other living organisms. This program of study includes the application of biology and life science to real-world life processes of plants and vegetation, either in laboratories or in the field. Secondary Courses for High School Credit Principles of Agriculture, Food, and Natural Resources Level 2 Landscape Design and Management Turf Grass Management Greenhouse Operation and Production Greenhouse Operation and Production + Agricultural Laboratory and

- Field Experience
- Entrepreneurship I

Level 3

- Viticulture
- Horticultural Science
- Horticultural Science + Agricultural Laboratory and Field Experience
- Floral Design + Agricultural Laboratory and Field Experience

Level 4

- Advanced Plant and Soil Science
- Advanced Floral Design
- Career and Technical Education Project-Based Capstone
- Practicum i/MCID 38 95 ID 358-4PT5595 (Ca)-2.005 (pst)-3.997 (D5.99 (an), i)-on Aligned Advanced Academic Courses

AP Biology

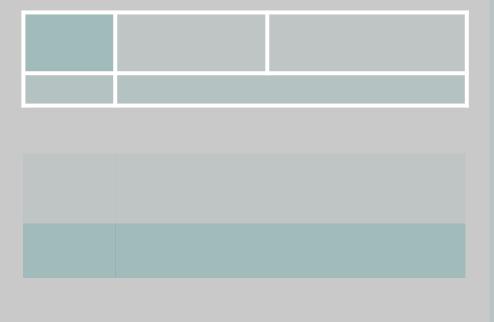
AP Environmental Science AP or IB

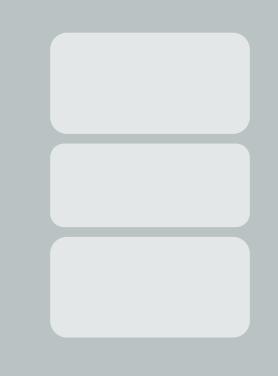
IB Biology SL IB Biology HL AP Chemistry

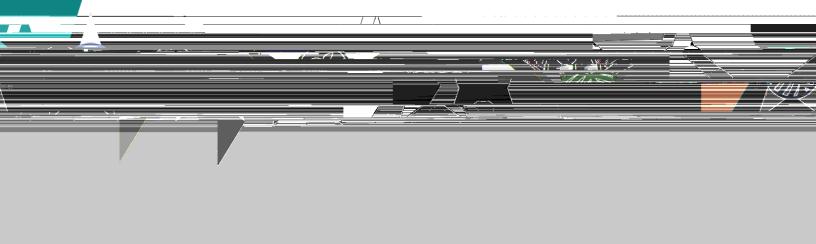
IB Chemistry SL IB Chemistry HL

Dual credit offerings will vary by local education agency. **Dual Credit**

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards concentrator/completer status for this program of study.







Agriculture, Food, and Natural Resources Career Cluste

Course Information

Course	Prerequisites Corequisites	Career Clusters
Horticultural Science 13002000 (1 credit)	Prerequisites: At least one credit in a course from the AFNR career cluster Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
Horticultural Science + Agricultural Laboratory and Field Experience 13002010 (2 credits)	Prerequisites: At least one credit in a course from the AFNR career cluster Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
Floral Design 13001800 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
Floral Design + Agricultural Laboratory and Field Experience 13001810 (2 credits)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	1. Agriculture, Food atural Resources

Course	Prerequisites Corequisites	Career Clusters
Advanced Plant and Soil Science 13002100 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: Biology, Integrated Physics and Chemistry, Chemistry, or Physics and a minimum of one credit in a course from the AFNR career cluster Recommended Corequisites: None	
Advanced Floral Design N1300270 (1 credit)	Prerequisites: Floral Design Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	1. Agriculture, Food Agricultural Resources
Career and Technical Education Project-Based Capstone* First Time Taken: 12701101 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	

C.



^{*} Indicates course is included in more than one program of study

C.

Agriculture, Food, and Natural Resources Career Cluste

Course Information

Course Prerequisites | Corequisites Career Clusters

Practicum in Agriculture, Food, and Natural Resources* First Time Taken: 13002500 (2 credits) Second Time Taken: 13002510 (2 credits)

Prerequisites: A minimum of two credits with at least one course in a Level 2 or higher course from the AFNR career cluster
Corequisites: None

Recommended Prerequisites: None Recommended Corequisites: None



Practicum in Agriculture, Food, and Natural Resources + Extended Practicum in Agriculture, Food, and Natural Resources* First Time Taken: 13002505 (3 credits) Second Time Taken:

Prerequisites: A minimum of two credits with at least one course in a Level 2 or higher course from the AFNR career cluster
Corequisites: None

Recommended Prerequisites: None Recommended Corequisites: None



Practicum in Entrepreneurship* First Time Taken: 13011111 (2 credits)

13002515 (3 credits)

Prerequisites: None Corequisites: None Recommended Prerequisites:

Entrepreneurship I and
Entrepreneurship II or successful
completion of at least two courses in a

CTE program of study

Recommended Corequisites: None



Practicum in
Entrepreneurship +
Extended Practicum in
Entrepreneurship*
First Time Taken:
13011121 (3 credits)

Prerequisites: None Corequisites: None

Recommended Prerequisites: Entrepreneurship I and Entrepreneurship II or successful completion of at least two courses in a

CTE program of study

Recommended Corequisites: None



Career Preparation for Programs of Study* First Time Taken: 12701121 (2 credits) Prerequisites: At least one Level 2 or higher CTE course Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None



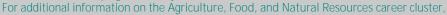
Career Preparation for Programs of Study + Extended Career Preparation* First Time Taken: 12701141 (3 credits)

Prerequisites: At least one Level 2 or higher CTE course Corequisites: None

Recommended Prerequisites: None Recommended Corequisites: None



^{*} Indicates course is included in more than one program of study.



Agriculture Food and Natural Resources Career Cluster Course Information