Agriculture Plant Science–AST

**Required**
- HORT 110 Introduction to Horticulture and Plant Science
- BUS 240 Business Statistics or MATH 142 Elementary Statistics with Probability or MATH 144 Statway II
- ECON 221 Principles of Microeconomics
- CHEM 108 Introductory Chemistry
- CHEM 120** General College Chemistry I
- CHEM 121** General College Chemistry II
- HORT 120** Soil Science and Management
- HORT 121** Soil Science and Management Laboratory
- CHEM 226** Organic Chemistry I

**Take at least 3 units**
- HORT 111** Plant Propagation and Production: Winter and Spring*
- HORT 112** Plant Propagation and Production: Summer and Fall*
- HORT 113** Plant Materials and Their Uses: Winter and Spring*
- HORT 114** Plant Materials and Their Uses: Summer and Fall*

**IGETC category**
- IGETC 2
- IGETC 2
- IGETC 2
- IGETC 4
- IGETC 5
- IGETC 5
- IGETC 5
- IGETC 5

**Pre req**
- HORT 110
- BUS 240
- MATH 142
- MATH 144
- ECON 221
- CHEM 108
- CHEM 120
- CHEM 121
- CHEM 226

**Notes**
- Must take both as equivalent to C-10 AG-EH 116L
- This course has prerequisites.

**Program Learning Outcomes**
Students completing this program will be able to:
1. Recognize and remediate soil properties in terms of chemistry, plant growth requirements, erosion, organic content, pore space and carbon sequestration.
2. Produce plants using sexual and asexual methods of propagation, identifying water, nutrient, light, pH and temperature requirements per crop to produce crop production cost estimates.
3. Evaluate, formulate, and apply needed nutrients for specific crops grown on given soils on a seasonal basis.
4. Demonstrate pest problem solving skills through data analysis of biological and environmental factors.
5. Describe how markets function as applied to plant science.

**Careers in**
- Landscape installation
- Maintenance of plants
- Plant propagation
- Nurseries
- Preparation for transfer for BA in horticulture, plant science, or agriculture

Complete 60 degree applicable units along with completion of all required general education requirements. It is highly recommended that you see a counselor for specific courses that will best meet your educational plan/goals. Not all courses on the map are offered every term. Consult the Catalog and the Schedule of Classes for more details.

For information about transferring, see: https://www.dvc.edu/enrollment/transfer/index.html

For information on careers in this field see: https://www.dvc.edu/enrollment/career-employment/index.html

4-25-2021