

**Central Carolina Community College
Program Planning Guide**

**Sustainable Agriculture Credential:
Certificate in Sustainable Vegetable Production (C1541030)**

The Sustainable Agriculture curriculum is designed to provide the entrepreneurial and technical skills necessary to manage a profitable, environmentally sound, community based small farm or agricultural business. Coursework in the sustainable vegetable production certificate program focuses on the foundational principles for sustainable vegetable production from soil preparation to marketing a premium quality product. Graduates are prepared to work in vegetable production systems and related fields, such as farm market manager, produce manager or garden technician in retail settings.

Program Length: 2 semesters

Career Pathway Options: Associate in Applied Science in Sustainable Agriculture.

Program Site: Chatham Campus – Day Program

| Suggested Course Schedule: | | HOURS | | | Grade | Semester | Notes |
|-----------------------------------|----------------------------------|--------------|------------|---------------|--------------|-----------------|--------------|
| | | Class | Lab | Credit | | | |
| 1st Semester (Fall) | | | | | | | |
| AGR 139 | Intro to Sustainable Agriculture | 3 | 0 | 3 | | | |
| AGR 170 | Soil Science | 2 | 2 | 3 | | | |
| AGR 214 | Agricultural marketing | 3 | 0 | 3 | | | |
| AGR 266 | Organic Crop Production: Fall | 2 | 2 | 3 | | | |
| | | 10 | 4 | 12 | | | |
| 2nd Semester (Spring) | | | | | | | |
| AGR 121 | Biological Pest Management | 3 | 0 | 3 | | | |
| AGR 265 | Organic Crop Production: Spring | 2 | 2 | 3 | | | |
| | | 5 | 2 | 6 | | | |

Total Semester Hours Credit: 18

COURSE DESCRIPTIONS:

AGR 121 Biological Pest Mgmt 3-0-3

This course will emphasize the building and maintaining of healthy soil, plant, and insect biological cycles as the key to pest and disease management. Course content includes study of major pests and diseases, including structure, life cycle, and favored hosts; and biological and least toxic methods of chemical control. Upon completion, students should be able to identify and recommend methods of prevention and control of selected insects and diseases.

AGR 139 Intro to Sustainable Ag 3-0-3

This course will provide students with a clear perspective on the principles, history, and practices of sustainable agriculture in our local and global communities. Students will be introduced to the economic, environmental, and social impacts of agriculture. Upon completion, students should be able to identify the principles of sustainable agriculture as they relate to basic production practices.

AGR 170 Soil Science 2-2-3

This course covers the basic principles of soil fertilizing. Topics include liming, fertilization, management, and plant nutrients. Upon completion, students should be able to give nutrient and liming recommendations for soils.

AGR 214 Agricultural Marketing 3-0-3

This course covers basic marketing principles for agricultural products. Topics include buying, selling, processing, standardizing, grading, storing, and marketing of agricultural commodities. Upon completion, students should be able to construct a marketing plan for an agricultural product.

AGR 265 Organic Crop Prod: Spring 2-2-3

This course includes a study of spring organic crop production practices, including vegetables, cut flowers, and culinary and medicinal herbs. Topics include variety selection, production methods, and record keeping procedures for certification. Upon completion, students should be able to demonstrate a knowledge of organic crop production appropriate for the spring season.

AGR 266 Organic Crop Prod: Fall 2-2-3

The course includes a study of spring organic crop production practices, including vegetables, cut flowers, and culinary and medicinal herbs. Topics include variety selection, production methods, and record keeping procedures for certification. Upon completion, students should be able to demonstrate a knowledge of organic crop production appropriate for the fall season.