

Agriculture and Natural Resources

Sustainable Agriculture Credential: Associate in Applied Science in Sustainable Agriculture A15410

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. Students learn the fundamentals of sustainable agriculture, focusing on crop production and farm business. Emphasis is placed on entrepreneurial and practical field training. Students will complete a business plan and an agricultural internship in marketing and farming. Graduates are qualified for employment in a variety of positions associated with sustainable agriculture, including horticultural and livestock operations, wholesale and retail management, nursery operations, and environmental and agricultural education.

Program Length: 5 semesters

Career Pathway Options: Associate in Applied Science in Sustainable Agriculture

Program Sites: Chatham Main Campus - Day Program

Course Requirements for Sustainable Agriculture Degree C-L-SHC

1. General Education Requirements (15 SHC)

ENG 111	Writing and Inquiry	3-0-3
	Humanities/Fine Arts Elective	3-0-3
	Social/Behavioral Science Elective	3-0-3
	Communications; take one course:	
ENG 112	Writing/Research in the Discipline	3-0-3
ENG 114	Professional Research and Reporting	3-0-3
COM 110	Introduction to Communication	3-0-3
	Mathematics (Take 1 course)	
MAT 110	Math Measurement & Literacy	2-2-3
MAT 143	Quantitative Literacy	2-2-3

2. Major Requirements (28 SHC)

AGR 111	Basic Farm Maintenance	1-3-2
AGR 121	Biological Pest Management	3-0-3
AGR 139	Introduction to Sustainable Agriculture	3-0-3
AGR 160	Plant Science	2-2-3
AGR 170	Soil Science	2-2-3
AGR 214	Agricultural Marketing	3-0-3
AGR 268	Adv. Organic Crop Production	2-6-4
ANS 110	Animal Science	3-0-3
WBL 111	Work-Based Learning I	0-10-1
	Take 3 credits from:	
AGR 265	Organic Crop Production: Spring	2-2-3
AGR 266	Organic Crop Production: Fall	2-2-3

3. Other Major Requirements (24 SHC)

AGR 212	Farm Business Management	3-0-3
AGR 220	Agriculture Mechanization	2-2-3
AGR 267	Permaculture	2-2-3

ANS 111	Sustainable Livestock Management	2-2-3
BUS 280	REAL Small Business	4-0-4
CIS 111	Basic PC Literacy	1-2-2
HOR 168	Plant Propagation	2-2-3

Electives (Take 3 credits)

HOR 130	Greenhouse Design	3-0-3
AGR 221	Farm Structures	2-2-3

4. Other Requirements (Take 1 credit)

ACA 111	College Student Success	1-0-1
ACA 115	Success and Study Skills	0-2-1
ACA 122	College Transfer Success	1-0-1

Total Semester Hours Credit Required for Graduation: 68

Sustainable Agriculture Credential: Certificate in Agricultural Sustainability C1541010

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 includes classroom study and practical application of skills and concepts in the field. An understanding of the fundamental principles and practices of sustainable agriculture are emphasized. This certificate is appropriate for individuals interested in adding knowledge and skills in sustainability for employment in areas such as agriculture education, farmer advocacy work, non-profit organizations with agricultural missions in developing countries.

Program Length: 2 semesters

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

Program Site: Chatham Main Campus – Day Program

Course Requirements for Agriculture Sustainability Certificate

AGR 121	Biological Pest Management	3-0-3
AGR 139	Introduction to Sustainable Agriculture	3-0-3
AGR 170	Soil Science	2-2-3
AGR 265/6	Organic Crop Production (Spr or Fall)	2-2-3
AGR 267	Permaculture	2-2-3
AGR 265/6	Organic Crop Production (Spr or Fall) OR	2-2-3
ANS 111	Sustainable Livestock Management	2-2-3

Total Semester Hours Credit Required for Graduation: 18

**Sustainable Agriculture
 Credential: Certificate in Sustainable Livestock
 Systems
 C1541020**

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 includes fundamental sustainable agriculture concepts, study of the soil systems as they relate to pasture fertility and livestock health and marketing practices typical of small-scale, local food systems. Appropriate breed selection, pasture management and direct marketing are emphasized. This certificate is appropriate for individuals interested in integrating sustainable livestock production into their current agricultural system, agriculture educators, and individuals interested in working in the food and fiber industry.

Program Length: 2 semesters
 Career Pathway Options: Associate in Applied Science in Sustainable Agriculture
 Program Site: Chatham Main Campus – Day Program

**Course Requirements for Sustainable Livestock Systems
 Certificate**

AGR 139	Introduction to Sustainable Agriculture	3-0-3
AGR 170	Soil Science	2-2-3
AGR 214	Agricultural Marketing	3-0-3
ANS 110	Animal Science	3-0-3
ANS 111	Sustainable Livestock Management	2-2-3

Total Semester Hours Credit Required for Graduation: 15

**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 Main Campus – Day Program

**Course Requirements for Sustainable Vegetable
 Production Certificate**

AGR 121	Biological Pest Management	3-0-3
AGR 139	Introduction to Sustainable Agriculture	3-0-3
AGR 170	Soil Science	2-2-3
AGR 214	Agricultural Marketing	3-0-3
AGR 265/6	Organic Crop Production: (Spr or Fall)	2-2-3

Total Semester Hours Credit Required for Graduation: 15