

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: Pittsboro Campus - Day Program

Course Requirements for Sustainable Agriculture Degree

A. General Education Courses (15 SHC)		C-L-SHC
ENG 111	Expository Writing	3-0-3
ENG 114	Professional Research and Reporting	3-0-3
	Humanities/Fine Arts Elective	3-0-3
MAT 140	Survey of Mathematics	3-0-3
	Social/Behavioral Science Elective	3-0-3

B. Required Major Core Courses (19 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
BUS 280	REAL Small Business	4-0-4
COE 111	Co-op Work Experience I	0-10-1

C. Other Major Hours Required (33 SHC)		
AGR 212	Farm Business Management	3-0-3
AGR 214	Agricultural Marketing	3-0-3
AGR 220	Agriculture Mechanization	2-2-3
AGR 221	Farm Structures	2-2-3
	OR	
HOR 130	Greenhouse Design	3-0-3
HOR 168	Plant Propagation	2-2-3
AGR 265	Organic Crop Production: Spring	2-2-3
	OR	
AGR 266	Organic Crop Production: Fall	2-2-3
AGR 268	Adv. Organic Crop Production	2-6-4
AGR 293	Selected Topics in Sustainable Agriculture	3-0-3
ANS 110	Animal Science	3-0-3

ANS 111	Sustainable Livestock Management	2-2-3
CIS 111	Basic PC Literacy	1-2-2

Student Success – Select One *Effective 2014 Fall		
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: 67

Semester Curriculum for Sustainable Agriculture Associate Degree

1st Semester (Fall)		
AGR 111	Basic Farm Maintenance	1-3-2
AGR 139	Introduction to Sustainable Agriculture	3-0-3
AGR 170	Soil Science	2-2-3
ANS 110	Animal Science	3-0-3
CIS 111	Basic PC Literacy	1-2-2
	Social/Behavioral Science Elective	3-0-3
	Student Success Course	1-0-1
		14-7-17

2nd Semester (Spring)		
AGR 121	Biological Pest Management	3-0-3
AGR 160	Plant Science	2-2-3
ANS 111	Sustainable Livestock Management	2-2-3
ENG 111	Expository Writing	3-0-3
	Humanities/Fine Arts Elective	3-0-3
		13-4-15

3rd Semester (Summer)		
COE 111	Co-op Work Experience I	0-10-1

4th Semester (Fall)		
AGR 214	Agricultural Marketing	3-0-3
AGR 220	Agriculture Mechanization	2-2-3
AGR 266	Organic Crop Production	2-2-3
AGR 221	Farm Structures	2-2-3
	OR	
HOR 130	Greenhouse Design	3-0-3
ENG 114	Professional Research and Reporting	3-0-3
HOR 168	Plant Propagation	2-2-3
		14/15-6/8-18

5th Semester (Spring)		
AGR 212	Farm Business Management	3-0-3
AGR 268	Adv. Organic Crop Production	2-6-4
AGR 293	Special Topics in Sustainable Agriculture	3-0-3
BUS 280	REAL Small Business	4-0-4
MAT 140	Survey of Mathematics	3-0-3
		15-2-16

Total Semester Hours Credit: 67

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 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 (Spring or Fall)	2-2-3
AGR 293	Selected Topics in Sustainable Agriculture	3-0-3
AGR 265/6	Organic Crop Production (Spring or Fall) OR	2-2-3
ANS 111	Sustainable Livestock Management	2-2-3

Total Semester Hours Credit Required for Graduation: 18

**Semester Curriculum for Agricultural Sustainability
Certificate**

1st Semester (Fall)		C-L-SHC
AGR 139	Introduction to Sustainable Agriculture	3-0-3
AGR 170	Soil Science	2-2-3
AGR 265/6	Organic Crop Production (Spring or Fall)	2-2-3
		7-4-9
2nd Semester (Spring)		
AGR 121	Biological Pest Management	3-0-3
AGR 265/6	Organic Crop Production (Spring or Fall) OR	2-2-3
ANS 111	Sustainable Livestock Management	2-2-3
AGR 293	Selected Topics in Sustainable Agriculture	3-0-3
		8-2-9

Total Semester Hours Credit: 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 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

**Semester Curriculum for Sustainable Livestock Systems
Certificate**

1st Semester (Fall)		C-L-SHC
AGR 170	Soil Science	2-2-3
AGR 214	Agricultural Marketing	3-0-3
ANS 110	Animal Science	3-0-3
		8-2-9
2nd Semester (Spring)		
AGR 139	Introduction to Sustainable Agriculture	3-0-3
ANS 111	Sustainable Livestock Management	2-2-3
		5-2-6

Total Semester Hours Credit: 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 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: (Spring or Fall)	2-2-3

Total Semester Hours Credit Required for Graduation: 18

Semester Curriculum for Sustainable Vegetable Production Certificate

1st Semester (Fall)		C-L-SHC
AGR 139	Introduction 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

Allied Health Technologies

**Associate Degree Nursing
Credential: Associate in Applied Science in
Associate Degree Nursing
A45110**

The Associate Degree Nursing curriculum provides knowledge, skills, and strategies to integrate safety and quality into nursing care, to practice in a dynamic environment, and to meet individual needs which impact health, quality of life, and achievement of potential.

Coursework includes and builds upon the domains of healthcare, nursing practice, and the holistic individual. Content emphasizes the nurse as a member of the interdisciplinary team providing safe, individualized care while employing evidence-based practice, quality improvement, and informatics.

Graduates of this program are eligible to apply to take the National Council Licensure Examination (NCLEX-RN). Employment opportunities are vast within the global health care system and may include positions within acute, chronic, extended, industrial, and community health care facilities.

Limited Enrollment Curriculum:

1. In the nursing programs, applicants are accepted based upon a merit-based, selective admissions process.
2. Enrollment is limited to the number of approved spaces allocated by the North Carolina Board of Nursing.
3. Admission criteria for the nursing program are reviewed annually and are subject to change.
4. Nursing is a practice discipline with cognitive, sensory, affective, and psychomotor performance requirements. Further information regarding the physical and cognitive expectations of a student nurse and CORE performance standards (critical thinking, interpersonal, communication, mobility, motor skills, hearing, visual, and tactile) may be found in the Nursing Student Guideline Handbook.
5. Students who enroll in the nursing program should be aware that the application for licensure at the completion of the program might be denied or restricted by the North Carolina Board of Nursing. As the regulatory agency, the Board of Nursing does not become involved in reviewing the applicant's conviction record until such time as application is made to take the national licensure examination. Denial or restriction can be for the following reasons:
 - a) The student practiced fraud or deceit in attempting to procure a license to practice nursing;
 - b) The student has been convicted of a misdemeanor/felony (excluding a minor traffic violation);
 - c) The student is mentally or physically incompetent or uses any drug to a degree that interferes with fitness to practice