

AgroEcology

The future is GREEN...

AgroEcology is a one year program for students who want to learn by doing real work with the natural world, like growing food to eat and sell, exploring landscaping, greenhouse management, forest systems, restoring ecosystems, plant and animal farming, and more. Students will do real work solving real problems and gain a strong foundation in environmental, plant, soil and insect sciences. Activities will use a holistic system approach to meeting our needs to feed, cloth, shelter and entertain ourselves in a way that our land, society, and ecosystem can sustain. Plant identification, growing mediums, seed beds, necessary plant environments and eco-friendly pest control are all part of the program. There will be projects in landscape design and rehabilitation which will require learning plant, tree, shrub, and flower maintenance.

For students in grades: 11-12

Credits: Three credits per year

Graduation Requirements:

Science- Completing both AGROECOLOGY 1 and 2, will fulfill one science credit requirement.

Prerequisite: Above a 70 in science plus pre-algebra and/or one of three PTF classes-Plants and Flowers, Water Resources or Agriscience.

Suggested Preparation: 9th grade reading level; Biology or Agriscience and Water and Your Environment.



Agriculture Education

FFA - Agriculture Education

The National FFA Association is dedicated to making a positive difference in the lives of students by developing their potential for premier leadership, personal growth and career success through agriculture education. FFA is an integral part of the agricultural education program, providing leadership training to supplement classroom education and hands-on career exploration. FFA programs and activities help members develop public speaking skills, conduct and participate in meetings, manage financial matters, strengthen problem solving abilities and assume civic responsibilities. Nearly 450,000 members participate on local, state and national levels in approximately 7,275 chapters.

Agro Ecology Students Study:

- Standards of effective (organic) fertilizers
- Mapping landscapes
- History of agriculture
- Water resources and management
- Field ecology
- Professional horticulture business
- Soil Science
- Integrated (organic) Pest Management
- Greenhouse management and energy usage
- Ethno botany
- Hydroponics
- GPS tools & GIS
- Transplanting techniques
- Propagation, genetics, and grafting
- Land legalities: Conservancies & Land Trusts
- Sustainable agriculture practices
- Fuel & fiber (Harnessing Microbial Magicians)

Green Eco Science

Water and Your Environment

Introductory Course

Water and Your Environment is a pre-tech foundation course focused on investigating issues surrounding water resources, quality, pollution, conservation and protection. Water is a basic human essential need and the availability of fresh water is becoming scarce. This course analyzes how you can take control of your local, regional, and global impact on water resources. Topics will include identifying watersheds, point and no-point source pollution, discussing public policy and laws governing water resources, participating in community efforts to protect water resources, and learning about other chemical, physical, biological, and environmental aspects of water resources. Pre-requisites include 9th grade unified science and pre-algebra. This course is a research and lab intensive course.

For students in grades: 10-12

Credits: 1 elective credit

Scheduling: 90 mins.

Plants and Flowers

Introductory Course

Plants and Flowers is a pre-tech foundation class for the SVCDC Agro-ecology program focused on greenhouse management and an introduction to botany. Botany is a sub-science of biology focused on the life cycle of plants, flowers, trees and bushes. Over the course of this semester, students will come to understand flower and plant families, plant anatomy, plant identification, plant growth and usage. This class is designed to introduce students to the skills and knowledge needed to pursue a career in Agriculture and Ecological sciences. In addition we will learn greenhouse and horticulture safety, survey the areas of germination to harvesting of plants and flowers, fertilizing techniques, integrated pest management, garden design, as well as nursery and greenhouse management. This class is activity based with minimal reading. You will be responsible for marketing and sales of our plants using a standard business model for a greenhouse and nursery business. There is no final exam. A herbarium will be required as the final project.

Credits: 0.5 Elective Credits

Scheduling: 1 semester. 50 minutes

Agriscience

Introductory Course



Agriscience is a Pre-Tech Foundation course designed to support literacy in basic biology, chemistry, ecology, botany and entomology as it pertains to agriculture sciences taught with the use of experiments, projects, and research. This course requires basic algebra skills and knowledge from unified sciences.

Agriscience Students Study:

Safety (tools, equipment, and chemicals)

The history and types of agriculture

Sustainability (i.e. soil and water conservation, climate/weather forecasting, wind and solar, energy, pest management and optimal land use)

The business of agriculture (i.e. cash crops and commodities, and value-added conversion of products)

Greenhouse and Nursery management

Pest Management

Soil Sciences (pH and Essential Nutrients)

Plant Reproduction, Anatomy, and Growth

Local Community Farming

Organic Fertilizing Methods

Hydroponics

Current Issues, Trends, & Careers in agriculture

For students in grades: 10 & 11

Prerequisite: Above a 69 in Unified Science

Graduation Requirements:

Science- Completing AGRISCIENCE will fulfill one science credit requirement.

Scheduling: One semester, 90 minutes

Southwest Vermont Career Development Center Schedule FY 2012

SEMESTER ONE						
Block 1 (90 min)	Block 2a	Lunch	Prep	Block 3b	Block 4 (90 min)	
7:50-9:20	9:25-10:20	Prep	Lunch	11:35-12:30	12:35-2:05	
Accounting & Finance 1 & 2	Marketing 2			Business Basics	Marketing 1	
Business Mgt 1 & 2				Culinary Arts Intro		
Culinary Arts 1				Computer Aided Design	Culinary Arts 1	
Engineering & Design 2				Creative Computing	Engineering & Design 1	
Design & Fabrication 2				Architecture & Construction Auto Maintenance	Design & Fabrication 1	
Computer / Networking Academy 1 & 2					Artificial Intelligence 1 & 2	
Building Trades 2					Building Trades 1	
Auto Technology 2					Auto Technology 1	
Forestry & Heavy Equipment 2					Forestry & Heavy Equipment 1	
Water & Your Environment				Plants & Flowers	AgroEcology 1 & 2	
Video Productions 1	Video Productions 2			Stagecraft	Theater Arts 1 & 2	
					Communications Tech 1 & 2	
Law Enforcement 1	Intro to Print Publishing: Yr Bk				Law Enforcement 2	
Pre-Law 1 & 2				Forensic Investigations	Business & Personal Law	
Cosmetology 1				Cosmet. Intro.		
Human Services 2				Cosmetology 2		
Medical Professions 2				Emergency Medicine Intro.	Human Services 1	
					Medical Professions 1	

SEMESTER TWO						
Block 1 (90 min)	Block 2a	Lunch	Prep	Block 3b	Block 4 (90 min)	
7:50-9:20	9:25-10:20	Prep	Lunch	11:35-12:30	12:35-2:05	
Accounting & Finance 1 & 2	Business Basics					
Marketing 2				Marketing 1		
Business Mgt. 1&2						
Culinary Arts 1	Culinary Arts Intro				Culinary Arts 1	
Engineering & Design 2	Computer Aided Design				Engineering & Design 1	
Design & Fabrication 2					Design & Fabrication 1	
Computer/Networking Academy 1&2	Creative Computing					
					Artificial Intelligence 1 & 2	
Building Trades 2					Building Trades 1	
Auto Technology 2					Auto Technology 1	
Forestry & Heavy Equipment 2					Forestry & Heavy Equipment 1	
Agri Science	Plants & Flowers				AgroEcology 1 & 2	
Video Productions 1 & 2						
					Theater Arts 1 & 2	
					Communications Tech 1 & 2	
Law Enforcement 1	Forensic Investigations				Law Enforcement 2	
Pre-Law 1 & 2					Forensic Investigations Adv.	
Cosmetology 1				Cosmet. Intro.		
Human Services 2				Cosmetology 2		
Medical Professions 2					Human Services 1	
					Medical Professions 1	



Application 2011/2012

LAST NAME: _____ FIRST NAME: _____
 Mailing Address: _____
 Town: _____ State: VT/NY/MA Zip: _____
 Home Phone: _____ Cell Phone: _____
 E-mail: _____

Today's Date: _____
 Date of Birth: _____
 Gender: Male Female
 Current Year in School:
 8th 9th 10th 11th 12th
 Current CDC students put your
 Tech Program's initials here: _____

School Counselor(s) / Contact Person(s)

Arlington Memorial High School Joanna Lederer-Barnes

 Other Advocate: _____
Burr & Burton Academy Phil Anton Maria Bittinger
 Stephanie Fowler Andrea Hogan Melissa Michaud Cristin Rose

 Other Advocate: _____
Mt. Anthony Union High School
 Tonia Bucciero Eric Caron Lisa Harrington-Redding
 Meg Honsinger Dan Lucy Coleen Macksey Nancy Vanderbilt

 Other Advocate: _____
Twin Valley High School Denise Piffard

 Other Advocate: _____
 Other School: _____
 Contact Person: _____ Phone: _____

Tech Programs [Full Year]

(The embedded graduation requirements are listed in parentheses- see Program of Studies for complete information)

- ➔ Mark **2nd & 3rd choices** also in case your **1st** is full.
- Accounting & Finance(cc) (Math, MAU-Tech)
 - Agroecology (Science)
 - Artificial Intelligence(cc) (Math, Sci. & MAU-Tech.)
 - Auto Technology(cc) (Science)
 - Business Management (Math, MAU-Tech)
 - Building Trades (Math)
 - Computer Networking Academy(cc) (Science.)
 - Cosmetology (Science)
 - Culinary Arts (Science)
 - Design & Fabrication (Math, MAU-Tech)
 - Engineering & Design(cc) (Art, MAU-Tech Math,Sci)
 - Forestry & Heavy Equipment(cc) (Science)
 - Human Services(cc) (Social Studies)
 - Law Enforcement(cc) (1 Yr only) (Social Studies)
 - Marketing Education (Math)
 - Medical Professions(cc) (Science)
 - Networking Academy(cc) (Math, Sci. MAU-Tech)
 - Pre-Law(cc) (Social Studies)
 - Theater Arts (Art, English)
 - Video Production(cc) (MAU-Tech)
- Co-op (2nd year students only)

(cc) = College Credit option available. See page 11 of Course Catalogue or www.svcdc.org

Foundation Courses

Short Block (*50 or #60 minutes, 1 Sem.)

- SB Architecture & Construction*
- SB Automotive Maintenance#
- SB Business Basics*
- SB CAD Design & Fabrication#
- SB 3D/CAD*
- SB Creative Computing*
- SB Forensic Investigation#
- SB Plants & Flowers*
- SB Emergency Medical Intro.*
- SB Mental Illness Intro.to*

Long Block (90 Minutes, 1 Semester)

- AgriScience (AgriBio)
- Business & Personal Law
- Business Ownership
- Forensic Investigations Advanced
- Water & Your Environment

Partial Technical Programs

(90 or 150 minutes, 1 Semester)

- Accounting & Finance 1a (90 minutes)
- Accounting & Finance 1b (90 minutes)
- Pre-Law 1a (Semester 1) by teacher permission only.
- Pre-Law 1b (Semester 2) by teacher permission only.
- Theater Arts 1a (Semester 1 only, 90 minutes)
- Theater Arts 1b (Semester 2 only, 150 minutes)

Academic Courses

(One Credit, 90 Minutes, One Semester)

- Tech English I (11-12th grade- Must be in a Tech program)
- Tech English II (12th grade- Must be in a Tech program)

NON DISCRIMINATION STATEMENT:
 The Southwest Vermont Career Development Center is committed to maintaining a learning environment free from discrimination on the basis of race, color, national origin, religion, sex, disability, or sexual orientation. Rev. 12/8/2006 & 2010