This course will serve as an introduction to the botany, agronomy, and end-use potential of industrial hemp. Industrial hemp is defined as having 0.3% THC or less. The use of high THC Cannabis as a drug crop will not be covered in this course. This course serves as an authoritative introduction for those students interested in knowing more about this renewable material that is an excellent source of food, fiber and building products.
This course provides students with an introduction to agriculture with a strong emphasis on the ecological, social, economic issues surrounding the production of food. We will cover a broad variety of topics related to agriculture and the environment in local, national, and international contexts. The course analyzes factors driving current agricultural production systems, the problems associated with an industrial agriculture model, and a variety of approaches and practices for producing food in an ecologically sound manner.
Forage and Pasture Management

PSS 143 / ASCI 143

Forage crops and grasslands play a central role in sustainable, diversified agriculture. PSS 143/ASCI 143, Forage and Pasture Management, covers the scientific principles and practical applications of the production, management, and utilization of perennial and annual forage crops used by ruminant and equine livestock. The course will involve a combination of lectures, reading assignments, "hands-on" activities, farm visits, problem solving exercises, quizzes and exams.

• **Instructor:**
  Juan Alvez, CALSX, Center for Sustainable Agriculture & Plant and Soil Science 105 Jeffords Hall  
  Email: Juan.Alvez@uvm.edu

• **Location and Time**
  Lecture  Mondays 1:10pm to 4:50pm, 17 Hills Building. Labs Wed/Fri 9:40-11:10.  
  We will often be going outside on one or both of these days.

• **Prerequisites:**
  BIOL 001 or 002, or BCOR 011 or 012, or PBIO 004 or 006.
Soils in Society: From Mud Pie to Compost
PSS 095 Lecture Thurs 1:15-4:15
Instructor Josef Görres

Soil Morphology Class and Land Use
PSS 261 Lecture/Lab
Fridays 1:10—4:10
Instructor Andrew Gerlicz

* Understand the interaction between civilization and soils

* The class is suitable for all students who are interested in environmental issues, food system, ecology and agriculture. There are no prerequisites.

* Learn soil morphology, taxonomy, genesis, mapping, land use & conservation, GIS.

* Interpret basic soil information from field observations and surveys for various land uses.

* Participate in a field-based project.
Instructor Mark Starrett

PSS 010 Provides students with basic horticultural knowledge enabling them to have a better understanding of the care and use of plants in and around the home, including ornamentals, vegetables, turf grass and home garden fruit plants. The course is designed for beginners and incorporates plenty of hands on examples brought into the classroom.
PSS 095 Living Landscapes  Instructor- Annie White
This course explores conservation and design strategies for restoring biodiversity to the landscapes around us, from urban backyards to rural agroecosystems. Students will be introduced to opportunities within environmental and design fields to design, and manage landscapes that maximizing plant diversity and habitat.
3 Credits Jeffords 112  Thurs 1:15-4:15

PSS 012 Weed Ecology  Instructor– Kirsten Workman
Weeds! They take up nutrients, impact natural areas, are invasive and crowd out native species. Learn weed biology and ecology and learn to apply that knowledge for developing cropping or landscape systems that incorporates integrated weed management.
Hybrid Course OL, Meets Fridays for outdoor labs 1:10-5:00

Full Listing of PSS Courses here:
https://serval.uvm.edu/~rgweb/batch/
Entomology and Pest Management focuses on the biology and ecology of insects, and how use of this knowledge has given rise to different approaches for pest management. Students will examine how different pest management approaches vary in terms efficacy in managing pests and non-target environmental impacts, both of which need to be considered for long-term sustainability. Students will also develop skills including insect identification, damage identification, estimating damage, and field scouting.