CROP & SOIL SCIENCE (CSS)

CSS 205, *SOIL SCIENCE, 4 Credits
Introduction to the chemical, physical and biological nature of soils. Examines the functions of soil as a medium for plant growth, a recycling system for nutrients and wastes, a modifier of atmospheric chemistry, a habitat for soil organisms, a system for water purification, and an engineering medium. Field and laboratory projects provide an understanding of fundamental soil science principles and the impact of human activities on soil quality and sustainability. Lec/lab. (Bacc Core Course) Taught via Ecampus only.
Attributes: CPBS – Core, Pers, Biological Science; CPPS – Core, Pers, Physical Science
Equivalent to: CSS 305, SOIL 205
Available via Ecampus

CSS 305, PRINCIPLES OF SOIL SCIENCE, 4 Credits
Origin, formation, classification, physical, chemical, and biological characteristics; ecosystem functions of soils; effects of soil management on agricultural and forest crop production. Field trips. Taught at EOU LaGrande campus only.
Equivalent to: CSS 205, SOIL 205
Recommended: Two quarters of college chemistry and CSS 306

CSS 306, PROBLEM SOLVING: SOIL SCIENCE APPLICATIONS, 1 Credit
Problem solving for, and in-depth exploration of, Principles of Soil Science (CSS 305). Real-world problems requiring knowledge of soil physical, chemical, and biological properties. Taught at EOU LaGrande campus only.
Corequisites: CSS 305

CSS 315, *NUTRIENT MANAGEMENT AND CYCLING, 4 Credits
Nutrient forms, transformations, and plant availability as influenced by chemical and biological reactions in soils; soil pH and management of acid and alkaline soils; characteristics and use of fertilizers, soil amendments and organic wastes. Labs include routine soil testing procedures, computer applications for soil fertility management, and field trips. Lec/lab. (Writing Intensive Course) Taught at EOU LaGrande campus only.
Attributes: CWIC – Core, Skills, WIC
Prerequisite: CSS 305 with D- or better
Recommended: CH 122 and courses in computers

CSS 320, PRINCIPLES OF OIL AND FIBER CROP PRODUCTION, 1 Credit
An overview of production practices and characteristics of oil seed, essential oil, and fiber crops. Taught at EOU LaGrande campus only.
Recommended: CSS 300 and CSS 305

CSS 321, PRINCIPLES OF CEREAL CROP PRODUCTION, 1 Credit
An overview of the principles underlying small grain production practices in the Pacific Northwest. Taught at EOU LaGrande campus only.
Recommended: CSS 300 and CSS 305

CSS 322, PRINCIPLES OF POTATO PRODUCTION, 1 Credit
Principles and practices governing all aspects of potato production, storage and use. Taught at EOU LaGrande campus only.
Recommended: CSS 300 and CSS 305