GLOBAL ENVIRONMENT SUSTAIN-GES (GES)

Courses

GES 101 Foundations of Environmental Sustainability Credits: 3 (3-0-0)
Course Description: Concepts, foundations, and metrics of global environmental sustainability applied to global challenges.
Prerequisite: None.
Registration Information: Sections may be offered: Online.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

GES 130 Introduction to Sustainability Engagement Credit: 1 (1-0-0)
Course Description: Introduction to sustainability engagement via experiential learning.
Prerequisite: None.
Restriction: Must be a: Undergraduate.
Registration Information: Written consent of instructor. Enrolled in Eco-leaders Peer Education Program.
Term Offered: Fall.
Grade Mode: S/U Sat/Unsat Only.
Special Course Fee: No.

GES 141 Introduction to Sustainable Energy Credits: 3 (3-0-0)
Prerequisite: None.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

GES 192 Global Environmental Sustainability Seminar Credits: 3 (0-0-0)
Course Description: Critical interconnections of global environmental sustainability, the environment, economics, and society.
Prerequisite: None.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

GES 330A Sustainability in Practice: Project Credits: 2 (1-0-1)
Course Description: Engages students in real-world sustainability applications and empowers them to design and execute their own program or research project. A) Project. B) Service Learning.
Prerequisite: GES 101 or GES 130.
Registration Information: Credit not allowed for both GES 330A and GES 330B.
Term Offered: Spring.
Grade Mode: S/U Sat/Unsat Only.
Special Course Fee: No.

GES 330B Sustainability in Practice: Service Learning Credits: 3 (1-0-2)
Course Description: Engages students in real-world sustainability applications and empowers them to design and execute their own program or research project. A) Project. B) Service Learning.
Prerequisite: GES 101 or GES 130.
Registration Information: Credit not allowed for both GES 330A and GES 330B.
Term Offered: Spring.
Grade Mode: S/U Sat/Unsat Only.
Special Course Fee: No.

GES 441 Analysis of Sustainable Energy Solutions Credits: 3 (3-0-0)
Course Description: Methods of evaluating sustainable energy technologies, including life cycle assessment, energy return on investment, technoeconomic analysis, and political ecology.
Prerequisite: GES 141.
Registration Information: Sophomore standing.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

GES 450 Global Sustainability and Health Credits: 3 (3-0-0)
Course Description: Impact of anthropogenic environmental change on human, animal and environmental health.
Prerequisite: GES 101.
Registration Information: Junior standing.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

GES 460 Law and Sustainability Credits: 3 (3-0-0)
Course Description: Introduction to the domestic and international laws that influence and interact with the implementation of sustainability in the U.S. and abroad.
Prerequisite: GES 101.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

GES 470 Applications of Environmental Sustainability Credits: 3 (3-0-0)
Course Description: Integration of the dimensions of global environmental sustainability–environment, society, and economy–through case studies and team project.
Prerequisite: GES 101.
Registration Information: Must have completed 12 credits of GES interdisciplinary minor; junior or senior standing. Sections may be offered: Online. Required field trips.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

GES 520 Issues in Global Environmental Sustainability Credits: 3 (3-0-0)
Course Description: Analysis of the different major dimensions/ definitions of sustainability in current issues involving environmental, social and economic systems.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Graduate standing. Sections may be offered: Online.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

GES 542 Biobased Fuels, Energy, and Chemicals Credits: 3 (3-0-0)
Course Description: Science and engineering aspects of biobased fuel, energy, and chemical production, including plant biology, thermochemical conversion, biomass deconstruction, fermentation, and biofuel properties. Aspects of sustainable production and economics will be discussed.
Prerequisite: None.
Registration Information: Junior standing. Required field trips. Credit allowed for only one of the following: AGRI 601, ENGR 601, or GES 542.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.