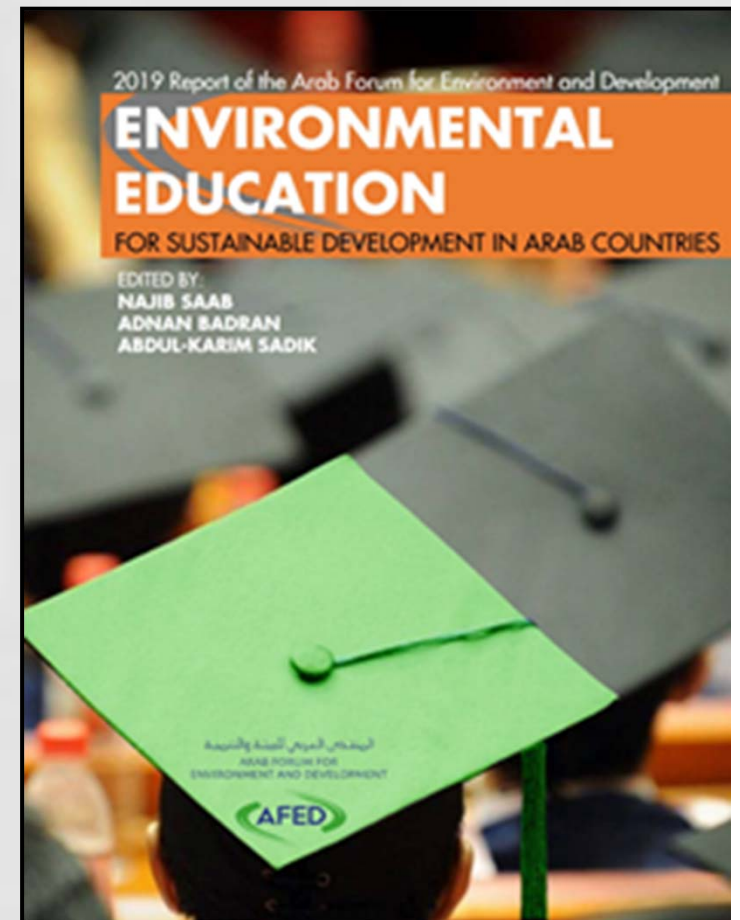




2019 Report

Introduction to Environment and Sustainable Development

Proposed Course Syllabus



Basic Criteria for Syllabus Design

- Students background (multidisciplinary).
- Regional environmental priorities.
- Global environmental priorities (global issues, Global environmental governance).
- The needs of Arab countries for qualified human resources on environmental management.

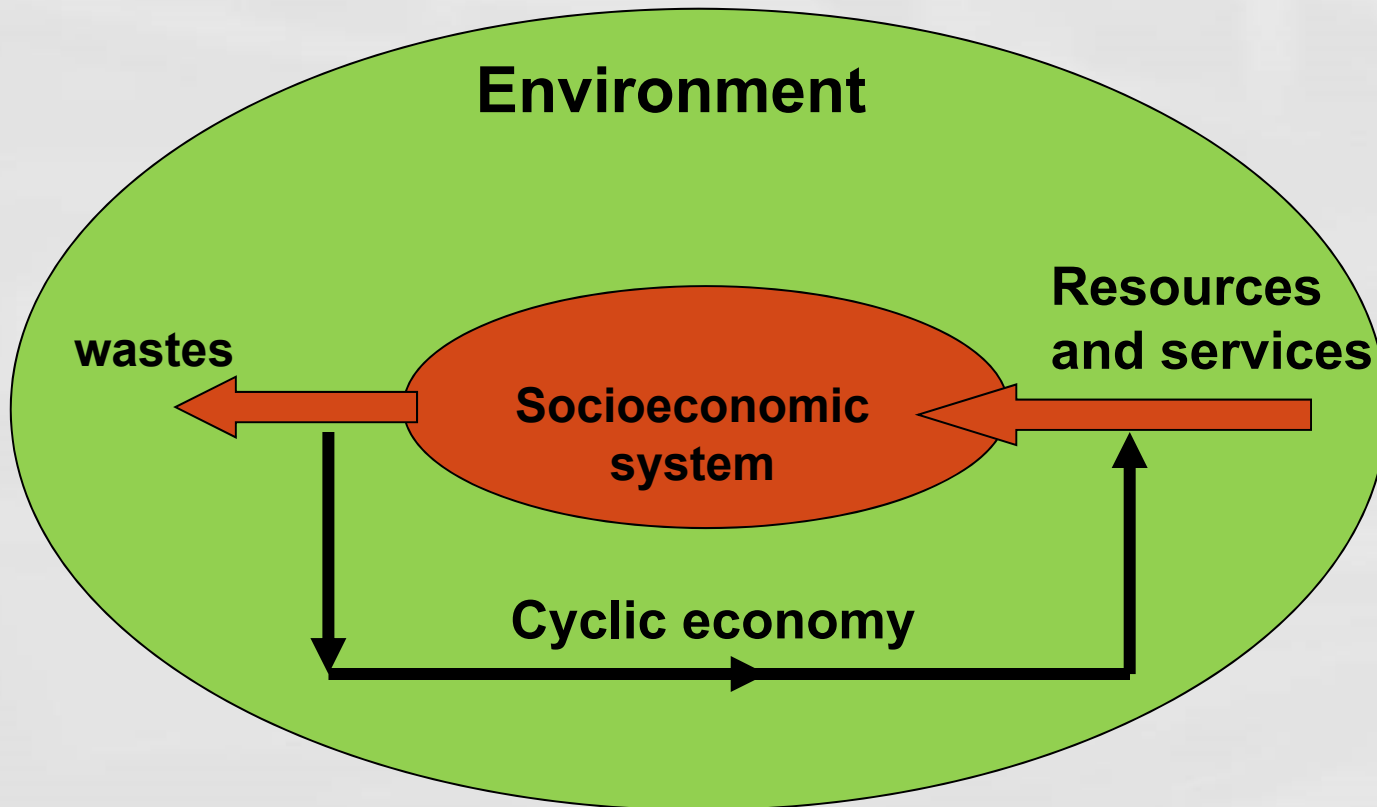
Course Objectives and Learning Outcomes

- Understand the basic concepts of ecology and environment.
- Understand challenges facing the environment and means to achieve sustainable development, and green growth.
- Understand and appreciate the services provided by ecosystems.
- Analyze the complex relationships between the socioeconomic systems and the environment.
- Identify the human impacts on ecosystems.
- Understand the evolution and importance of sustainability.
- Gain basic academic skills (research, technical writing and presentations in environment-related subjects).

Environment-Society Interactions

"If you can't explain it simply, you don't understand it well enough."

Einstein



Natural Resources

- Energy Sources
- Water Sources and Management
- Water-Energy-Food nexus
- Agriculture, and Food Security
- Land-use and Urbanization

Waste Management

- Solid wastes types, sources and management
- Hazardous materials definition, types, sources and management
- Wastewater types, sources and management
- Air emissions and air quality Issues

Global environmental issues

- Climate change and its impacts
- Ozone depletion
- Desertification
- Biodiversity
- Oceans and international waters

Environmental Policy and Governance

- Environmental institutions and governance
- Environmental laws and regulations
- Regional and global environmental conventions
- Environmental Management System- ISO 14001