Enquire Teaching Timetable

Return

Course Outcome

ENSC 2270 - Introduction to Environmental Science

Learning Outcome

The students shall be able to understand the basic knowledge in current environmental problems, including natural conservation, pollution control, waste management and problems arisen from environmental deterioration, sustainable development, after taking this course.

完成本科後, 同學應可明白當代環境問題, 包括天然資源保育和污染控制, 廢物管理及環境降格的後續和可持續發展問題.

完成本科后, 同学应可明白当代环境问题, 包括天然资源保育和污染控制, 废物管理及环境降格的后续和可持续发展问题.

Course Syllabus

Course Syllabus:

1. Sustainable Development
2. Population and Resources
3. Climate Change and Energy Policy
4. Environmental Pollution & Health
5. Group Presentations on RESOURCES
6. Environmental Monitoring & Assessment
7. Water Quality Control
8. Sewage Treatment
9. Green Chemistry
10. Biodiversity
11. Conservation
12. Environmental Protection (I): Solid Waste Treatment
13. Environmental Protection (II): Air Pollution and Control
14. Environmental Remediation and Biotechnology

1. 可持續發展
2. 人口和資源
3. 氣候轉變和能源政策
4. 環境污染和健康
5. 各種資源的分組報告
6. 環境的監控
7. 水質管制
8. 污水處理
9. 綠色化學
10. 生物多樣性
11. 保育
12. 環境保護(I): 固廢的處理
13. 環境保護(II): 空氣污染及其控制
14. 環境復育和生物技術

1. 可持续发展
2. 人口和资源
3. 气候转变和能源政策
4. 环境污染和健康
5. 各种资源的分组报告
6. 环境的监控
7. 水质管制
8. 污水处理
9. 綠色化学
10. 生物多样性
11. 保育
12. 环境保护(I): 固废的处理
13. 环境保护(II): 空气污染及其控制
14. 环境复育和生物技术

Assessment Type

	Assessment Type	Current Percent
1	Fieldwork or field study	5
2	Homework or assignment	15
3	Report	20
4	Short answer test or exam	50
5	Selected response test or exam	10

Feedback for Evaluation

1. Course evaluation
2. Informal contact with students
3. Student-staff consultative committee

1. 科目評核

2. 與學生接觸
3. 師生諮詢委員會

1 .科目评核
2. 与学生接触
3. 师生咨询委员会

Required Readings

1. Cunningham WP, Cunningham MA, Saigo B (2008) Environmental Science-A Global Concern. 10th ed., McGraw-Hill, 618p. GE105.C86 2008 (RESERVED at UL)
2. Cunningham WP, Cunningham MA (2009) Environmental Science-A Global Concern. 11th ed., McGraw-Hill, 618p. (Available from university bookstore)

Recommended Readings

1. Masters GM, Ela WP (2007) Introduction to Environmental Engineering and Science, 3rd ed. Prentice Hall, 720p. 145.M33 1998 (second edition available from UL, RESERVED)
2. Miller Jr. GT, Spoolman SE (2009) Living in the Environment. Principles, Connections and Solutions. 16th ed., Brooks/Cole, Belmont, CA, USA GE105.M547 2009 (RESERVED at UL)
3. Spiro, TG, Stigliani WM (2003) Chemistry of the Environment, 2nd Ed., Prentice Hall, New Jersey, 489p. TD193.S7 2003 (RESERVED at UL)