

SCI L103 – ENVIRONMENTAL SCIENCE LAB (1 credit)

Contents

Lab 1. Introduction to Lab Safety and The Knowledge of Lab Reports

Place: Science Lab

Outline: Students will learn how to write a scientific lab paper necessary for some weekly lab reports. Reports will be due on Mondays of following week.

Lab 2. The Weather and the Environment

Place: Home lab

Outline: A small meteorological station is available at the downsatirs back courtyard and a cloud chart is located on the Science Lab door. Students will learn how to predict and interpret weather variables for 5 days. A one page overall conclusion must be written in a lab report form.

Lab 3. DVD Session “The State of the Planet”

Place: To be determined (based on number of students)

Outline: An audiovisual session will give a general view of the environmental problems the planet is facing. Students must write a 2 page essay (not a lab report) that must include information following a series of guidelines that will be handed out before the session.

Lab 4. Computer Simulation on Global Warming

Place: Home Lab

Outline: The Computer Simulator program on Global Warming has been installed in all computers on campus. Students must fill in answers in the booklet that will be handed out. A Lab report is not required for this session.

Lab 5. “La China” Water Treatment Plant (Field Trip)

Place: Calle Embajadores s/n (south end of city)

Outline: Students will visit the Plant where the waste waters of the city are treated. Lab report will consist of a one page essay explaining how these facilities work and a series of questions that must be answered in report.

Departure: Lab session will take place during Lecture Course time 12:30 – 15:00 due to length of field trip and classes will take place after arrival. Buses will leave at 12:30 on corner of Calle Viña where the University is located.

Lab 6. Outline of Topic Discussion on Book Reading “Wildlife Wars”

Place: Science Lab

Outline: Book consists of 22 Chapters. Students are expected to have read at least 2/3 of the book by this date to discuss different research projects to develop during Lab 10.

Lab 7. Water Quality Testing

Place: Science Lab

Outline: Water from the Manzanares River will be analyzed in the lab and compared to drinking water. A complete scientific lab report is required.

Lab 8. Soil Analysis

Place: Science Lab

Outline: Different soils will be analysed . A complete scientific lab report is required.

Lab 9. Solid Wastes: Landfill Valdemingomez (Field Trip)

Place: Carretera de Valencia

Outline: Students will visit the landfill and recycling site. Lab report will consist of a one page essay explaining how these facilities work and a series of questions that must be answered in report.

Lab 10. Individual Project Presentation of Book Reading “Wildlife Wars” – Part I

Place: Science Lab

Outline: Students will present individual research projects

Lab 11. Individual Project Presentation of Book Reading “Wildlife Wars” – Part II

Place: Science Lab

Outline: Remaining students will present individual research projects.