

Systems Analysis & Design COM1012 (CS183)

Lab session 1

UML – Functional Modelling

(adapted from Dennis & Haley Wixom, 2005)

Objectives:**Understand the process used to create Use Case diagrams.**

1. Using Violet, a plug-in for Eclipse, create an overview Use Case Diagram that would illustrate all three (3) major use case descriptions (which are provided) for the following on-line registration system:
 - The system should *enable the staff* of each academic department to *examine* the courses offered by their department, *add* and *remove* courses, and *change* the information about them (e.g., the maximum number of students permitted).
 - It should *permit students* to *examine* currently available courses, *add* and *drop* courses to and from their schedules, and *examine* the courses for which they are enrolled.
 - Department *staff* should be able to *print* a variety of reports about the *courses* and the *students* enrolled in them.

2. Draw a more detailed Use Case Diagram from Use Case Description 1.

HINT: Drawing use case diagrams is a four step process:

1. *Draw the subject boundary*
2. *Add the use cases to the diagram*
3. *Identify the actors*
4. *Add appropriate associations to connect use cases and actors.*

Read carefully “Creating the Use Case Diagram” on page 186 from the main textbook.

There is a tutorial on using Violet on the course website.