

**Concordia University  
Department of Computer Science  
and Software Engineering**

**Software Process  
SOEN 341 --- Fall 2006 --- Section H**

**Project Deliverable 3 Description**

**1. Third Incremental Code Build**

You have to deliver and demonstrate some code that implements the simulation of Aircraft Carriers and their Aircrafts, as well as Cruisers to fend off enemy Aircrafts. You also must implement supply Bases, as well as their Patrol Aircraft and Patrol Ship. Presented in point form, you have to implement the following features:

1. Aircraft Carrier, including Aircraft and mission control between the two. The Aircraft must implement both “attack” and “patrol” mode. When in “patrol” mode, it must await a mission statement to switch to the “attack” mission plan. Whenever an attack is finished, the aircraft awaits orders to patrol or attack another target. Whenever the Aircraft needs refueling or new weapons, it should go back to base and switch itself to the “re-supply” mode, in which case it should not receive any other mission until it has been re-supplied on board the Aircraft Carrier.
2. Weapons for the Aircraft: Air-air missile, Air-sea missile, and demonstrated ability to enter combat with both.
3. Cruiser and its Sea-air missile, and demonstrated ability to locate and destroy Aircrafts.
4. Supply base, including a supply mechanism to refuel and rearm ships, as well as Patrol aircrafts and Patrol ships to protect the base against attacks.

The evaluation of your build will be based on your ability to effectively demonstrate that a running software is providing the above features, as well as its compliance with the above description and the overall project description. Come prepared to the presentation. Construct various and appropriate test cases that will demonstrate that your code is effectively achieving its duty. You have to proceed with a demonstration of your build. The procedure for the reservation of a time slot for your demonstration is available on the web page. The goal of the demonstration is to effectively demonstrate that you have an application that implements the features as described above. The grading scheme of the demonstration is as follows:

Effectiveness and level of preparation of the demonstration	/2
Effective and complete demonstration that the above features	/5
Compliance with the above mentioned design constraints	/3
Total	/10

## **2. Project Scope and Plan Document**

You have to deliver this document following the template provided on the course web page. A detailed grading scheme and instructions are provided in the template.

## **3. Evaluation**

As stated in the course outline, the code build (1) is worth 10% and the document (2) is worth 5%, for a total of 15% of the final numeric grade.

## **4. Assignment Submission**

All project assignments are to be handed in using the ENCS Electronic Assignment Submission system. A link to this system is available on the course web page. On the day of your build demonstration, you have to submit a zip file containing your document (see section 2 above), as well as your source code for this build. It has to be submitted by midnight on the due date of the assignment. A paper copy of the document also has to be handed in to the instructor (excluding source code).