# COMP 7500/7506 Lecture 14: Project 3-1 The AUbatch System

**🟊: >85%, 🟊🟊: 70-85%, 🟊🟊🟊: 55-70%, 🟊🟊🟊🟊: 40-55%, 🟊🟊🟊🟊🟊: < 40%**

**🟊 Exercise 1:** Which sections in the document are the least important?

**🟊🟊 Exercise 2:** Please write at least three programming skills (e.g., synchronization) that enable you to accomplish this project.

**🟊 Exercise 3: What are the two major modules to be implemented in the AUbatch system?**

**🟊🟊 Exercise 4:** What are the six commands offered in the AUbatch system?

**🟊🟊 Exercise 5:** What are micro batch-job benchmarks?

**🟊🟊 Exercise 6:** What are the three parameters to model workload conditions?

**🟊🟊 Exercise 7:** What is an automated performance evaluation process?

**🟊🟊 Exercise 8:** What should you do in the first two steps (Note: There are 10 steps)?

**🟊 Exercise 9:** Which of the following topics should be covered in our future lectures?  
  
(1) Synchronization Problems   
(2) Condition Variables  
(3) Mutexes   
(4) The PThread Library  
(5) The execv () function  
(6) Micro batch-job benchmark

# COMP 7500/7506 Lecture 14: Project 3-2 AUbatch - Data Flow Diagram

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**🟊 Exercise 1:** Please define a list of external entities of AUbatch.

**🟊🟊🟊 Exercise 2:** Please define a list of modules in AUbatch.

**🟊🟊🟊 Exercise 3:** Please define a list of internal data storages in AUbatch

**🟊🟊🟊🟊🟊 Exercise 4 (Data Flow Diagram):** Please design a data flow diagram for AUbatch.

* Mark data on each arrow
* Pay attention to:
  + Input and output
  + Data store
  + Don’t consider the details of data structures
* Do NOT consider controls (i.e., algorithms)

**🟊🟊🟊🟊 Exercise 5 (Program Structure):** Design a program structure diagram from your data flow diagram.