

**The Chinese University of Hong Kong**  
**Department of Systems Engineering and Engineering Management**  
**SEG3430 Information Systems Analysis and Design**  
Semester 1, 2008-2009

**Project Phase III – Data Modeling**

**1. General Information**

This is a group project, and is worth of 30% of the total assessment. The aim of this project is to help you get familiarize with writing specifications/documentations on data modeling.

In previous phase, you have completed process model for the credit card management system of CBSH. For the data model of CBSH, please refer to Tutorial notes 9 (Case Study). In Phase III, you are required to draw a data model for a different system – University Student & Course Management System. *Note that this is a different story from previous phases.*

Note: this phase of the project is due on or before **November 28 2008 (Friday) at 5:00pm**. No late submission is allowed.

**Please Note the Departmental Guideline for Plagiarism:** If a student is found plagiarizing, his/her case will be reported to the Department Examination Panel. If the case is proven after deliberation, the student will automatically fail the course in which he/she committed plagiarism. The definition of plagiarism includes copying of the whole or parts of written assignments, programming exercises, reports, quiz papers, mid-term examinations and final examinations. The penalty will apply to both the one who copies the work and the one whose work is being copied, unless the latter can prove his/her work has been copied unwittingly. Furthermore, inclusion of others' works or results without citation in assignments and reports is also regarded as plagiarism with similar penalty to the offender. A student caught plagiarizing during tests or examinations will be reported to the Faculty office and appropriate disciplinary authorities for further action, in addition to failing the course.

**2. Specification of Requirements**

The University Student & Course Management System provides the following functions:

- (1). A student must have an account to use this system. To open a computer account, a new student needs to fill in a student information form. The following items are provided in the form: student name, sex, residential, correspondent addresses, telephone number, mobile number, HKID or passport number, name and the contact number of an emergency contact person.
- (2). When the registration is done, the Registration and Examination Section will immediately provide a notification letter to that student, which includes the student ID, name, major, minor (if any), e-mail address and password of the computer account.
- (3). Departments need to submit the course information forms and timetable to the Registration and Examination Section for the classroom assignment before a new academic year start. The following items are provided in the course information forms: course code, section (if any), course title, name of the lecturer, size of the class, credit of the course, course code of pre-requisite course(s) (if any). A single timetable should provide the time slot of all the courses of that Department.

(4). A student can perform online course selection during an assigned period (with date and time information). To perform online course selection, the student needs to input the student ID and password of the computer account so as to login to the system. The student needs to input the course code and section (if any) of the courses that he/she plans to take. The result (a list of accepted courses with course information) can be checked afterwards.

(5). Departments can then receive the course selection report from the Registration and Examination Section. The report includes the following items: the list of student (with the student ID, name, and major, minor (if any), sex, year of study), number of student enrolled and revision date.

(6). Students who do perform the course add/drop need to fill an add/drop form, which provides the following information: the name and student ID, course code and section (if any) of the courses they want to add; and the course code and section (if any) of the courses they want to drop.

(7). After the final examination, students can receive a student transcript. The transcript includes the following items: student ID, name, and major, minor (if any), grade of the courses (submitted by the lecturers in Departments) and the overall GPA.

### **3. Tasks**

You are required to draw a fully attributed data model, i.e. a fully attributed entity relationship diagram based on the information provided above:

### **4. Submission**

This phase is due on **November 28, 2008 (Friday) at 5:00pm**. It is a hard deadline and no late submission will be accepted. Please submit your solution to **the mail box #B09 on 5th floor of ERB**.