

CHINESE CHRISTIAN SCHOOLS

Computer Science
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Mr. Ran Shen

2010-2011

COURSE DESCRIPTION

1. This course is a one year college-prep course for potential computer science majors and a foundation course for students planning to study in other engineering fields. The course emphasizes object-oriented programming methodology, procedural abstraction, algorithms, data structures, and data abstractions. Coming out of this course, students will be able to apply the programming skills to real-life technical problems as well as to adapt to any new programming language and theory in college.
2. Computer Facilities: Our classroom is also our computer lab. Students need to have access to computer with Java environment both on campus and at home in order to do their homeworks. In order to write, run, and debug Java programs, we will use the Eclipse platform (<http://www.eclipse.org>), which is user-friendly and industrial.
3. Required Textbook:
Brown, Beth. *A Guide to Programming In Java, 2nd Edition*. Lawrenceville Press, 2007
(ISBN : 1-58003-121-8 or 1-58003-122-6).
GridWorld Case Study. The College Board, 2006.

ASSIGNMENTS

1. A homework assignment consists of a written Java program and its design explanation.
2. **Homework is due at 10PM on the due date.** Late homework is reduced 10% for each day after the due date. After one week, the maximum value a late assignment can receive is 50%. Exceptions can be made for major illness or circumstances.
3. In case you are absent, you are encouraged to exchange phone numbers or email addresses with other classmates so that you can receive information regarding the assignments. Homework assignments and grades will also be posted on <http://ccs.powerschool.com/public/>.

TESTS AND PROJECTS

1. There is a 55 minute time limit for all tests. Students may take a make-up test if they receive a non-passing grade (less than 70%) on the original test. A grade of C- (70%) can be earned if the student earns a passing grade on the make-up exam.
2. Students will work in groups on the design and implementation of a large-scale program per semester. Credit of the project is based on students' PowerPoint presentation of the design as well as the implementation in Java.

GRADING

QUARTER		SEMESTER	
Homework	40%	1st Quarter	40%
Tests	60%	2 nd Quarter	40%
		Project	20%

You are expected to be respectful and courteous to other students, staff, and visitors in the classroom. In order to insure that effective learning takes place in the classroom, any activity that disrupts the learning or teaching process will not be tolerated.

We have read and understand the course requirements for Mr. Ran Shen's Computer Science class.

Student (Print)

Parent/Guardian (Print)

Student (Signature)/Date

Parent/Guardian (Signature)/Date