Capital University of Economics and Business
Overseas Chinese College
Course Syllabus

Year and Semester	2018 Fall (September 3, 2018 - Jan 4, 2019)
Course Name	Programming In C
Course Code	MIS221
Course Type	☐ General Education (Required) ☐ General Education (Elective) ☑ Professional Course (Required) ☐ Professional Course (Elective) ☐ Basic Disciplinary Course
Course Credits	3
Course Hours	48
Prerequisite Course	None
Instructor	Prof. Smith
Contact Information	Office: C217, Email: skippersmith66@gmail.com (all email correspondence must have in the Subject field: MIS221Y0X EnglishName ID reason)
Office Hours	Mon: 10:00-12:00; Thu: 10:00-12:00 Fri: 10:00-12:00;
Learning Center Hours	Tue: 18:00-20:00; Wed: 10:00-12:00
Grade/Section	2017 Y01/Y02
Course Time/Place	Y01 Mon 10:10-12:00 & Fri. 9:00-9:50; 5#111 Y02 Tue 10:10-12:00 & Wed 8:00-8:50; 5#210
Textbook	Gary Bronson, A First Book of ANSI C, 4th edition, *Cengage;* ISBN: 978-7-121-34326-1

Course Description

C programming is the fundamental computer programming language. After completing the course, students will be able to understand how to use C language to develop a program, understand how to use the commands to build their program, and develop an understanding of program designed. At last, students should finish their project independently.

Student Learning Objectives

Learners are exposed to:

- The process of developing software
- The four major types of coding structures: Sequential/Selection/Repetition/Invocation.
- The use of an IDE (Integrated Development Environment) for writing and debugging code.

After completing the course, students will be able to:

- Understand the steps to designing a program.
- Be able to write a modestly complex program involving multiple functions
- Be able to design and test each function

Teaching methods

This course consists of lectures, individual and group practice, and group presentations. Students must be prepared to discuss the assigned cases before class.

Grade Criterion

Component	Weight	Description
Final Exam	20%	A cumulative final examination will be given based on all of the contents of the class. A minimum of 25% of the exam (5 of the 20%) will consist of questions utilizing the application of critical thinking.
Mid-Term Test	20%	A cumulative midterm test will be given based on all of the contents of the first half of the class. A minimum of 25% of the test (5 of the 20%) will consist of questions utilizing the application of critical thinking.
Homework	20%	Homework assignments will be given throughout the semester, which are due at class time on the dates specified by each assignment requirement. You should be very serious about the homework for two reasons. First, you will not get credit if you do not turn in the assignment. Second, problems in the exams will be very similar to those in the assignments. In general, each assignment should take no more than 2-3 hours and should be prepared as described in class. Hand-written assignments will not be accepted.
Participation	10%	Individuals will be asked to participate in coding during the semester. Students are required to meet with their teachers every other week. Their performance should be graded in their participation.
Presentation	20%	Refer to the handouts.
Attendance	10%	Refer to attendance policy listed below.
Total	**100%**	

Detailed Grade computation

	Before Midterm	After Midterm
Attendance	5%	5%
Participation	5%	5%
Homework	5%	5%
Quiz	5%	5%
Presentation		20%
Midterm test	20%	
Final exam		20%
Total	40%	60%

Grading Policy

A+ 97-100	A 93-96	A- 90–92	B+ 87-89	B 83-86	B- 80–82
C+ 75-79	C 70-74	C- 67–69	D+ 63–66	D 62-60	F 0- 59

Exam Schedule

- Midterm: Oct.29- Nov.2, 2018; Final Exam: Jan.2-11, 2019

Assessment of student performance

- ***Homework***
  - Students should finish their homework (except for group assignments) by themselves. Copying from others or from any other sources without clear quotation will be treated as cheating. Students should hand in all assignments promptly and on time. Late assignment will be accepted at the discretion of the instructor (i.e., when the student was ill or had an excused absence). Assignments turned in late without proof of illness or with an excused absence will be reduced in score by 50%.
  - Assignments should be printed out. Printing requirements are as followed: single space between lines, double space between paragraphs, font size is 12 (maximum). Grammar error can reduce 20% of your score.

- ***Attendance***

Attendance in class is required for all students taking courses at the Capital University of Economics and Business Overseas Chinese College.

  - Being late for 15 minutes or more is considered an unexcused absence.
  - Five hours or above of unexcused absences will result in the lowering of the final grade by one grade band (e.g. from C – to D +). Any excused absence must be discussed directly with the teacher.
  - **16 class hours** of any kind of absences will result in a failing grade (F), but students are welcome to continue attending classes.
  - An incomplete grade (I) will be considered in case of medical or family emergencies.

- ***Participation***
  - Students should participate in classes actively. Half of participation grade is determined by their presentation in class. They are encouraged to ask questions relevant to the subject and express their own opinions. Every student should respect the ideas, opinions, and questions of their classmates.
  - Students should also use office hour to ask questions or talk with the instructor for good communication and effective learning. Any misbehavior and non-class related activities in class will result in the lowering of the participation grade, including ringing beepers and **cell phones.**
  - All above behaviors will be solely evaluated by the instructor for scoring.

Topical Course Outline

Week	Date	Topics
1	0903-0907	Syllabus Chapter 1 Introduction to Computer Programming • History and hardware • Programming languages • Algorithms • The software development process
2	0910-0914	Chapter 2 Getting Started in C Programming • Programming style • Data types • Arithmetic operations • Variables and declarations
3	0917-0921	Chapter 3 Processing and interactive input • Assignment

		• Mathematical library functions • Interactive input • Formatted input • Symbolic constants

4	0924-0928	Chapter 4 Flow of control
		• Relational expressions
		  • The if and if-else statements
		  • The if-else chain
		  • The switch statement

5	1001-1007	**National Holiday**
6	1008-1012	Quiz I
7	1015-1019	Chapter 5 Repetition • Basic loop structure • The while statement
8	1022-1026	• Computing sums and averages using a while loop • The for statement • Nested loops • The do-while statement
9	1029-1102	**Midterm Test**
10	1105-1109	Chapter 6 Modularity using functions Part I • Function and parameter Declarations • Returning a value • Standard library functions
11	1112-1116	Chapter 7 Modularity using Functions Part II • Variable scope • Variable storage class • Pass by reference • Recursion
12	1119-1123	Chapter 8 Arrays • One-dimensional arrays • Array initialization • Array as function arguments • Two-dimensional arrays*
13	1126-1130	Chapter 9 Character strings • String fundamentals • Library functions • Input data validation • Formatting strings
14	1203-1207	Quiz II
15	1210-1214	Chapter 10 Data files • Declaration • Reading from and writing to text files
16	1217-1221	Chapter 10 Data files (or **Presentations**) • Random file access • Passing and returning filenames • Chapter 11 Arrays, addresses, and pointers *
17	1224-1228	**Presentations**
18	1231-0104	**Final Exam**
19	0107-0111	**Final Exam**

Teacher's Office Hours

- The instructor's office hours are shown at the front of the office door.
- Students are required to use the instructor's office hours to ask questions or talk with the instructor at least once per week for good communication and effective learning, which is recorded in the students' participation.
- The time can be scheduled by instructors or students, or both.

Study Group：

- Students are encouraged to form the study group in order to help doing the self-study and review the knowledge points, teacher may use group as unit to do the assessment and other study tasks distribution.

Cheating and Plagiarism

- **Cheating is not tolerated**. Any student caught cheating on a quiz; test or exam will be given a mark of zero (0) for the particular work.
- At the beginning of the semester the definition of plagiarism will be carefully explained, when any thoughts or writings of another person are used, they must be clearly identified (usually one uses quotation marks) and the source notes.

Presentations:

Developing presentation skills is important for everyone, plus it's a good way to share information. Each student will prepare and present one individual presentation and help with the group project presentations. The individual presentations must include at least three outside references, noted in footnotes and a reference page. Hand in a hard copy of your presentation notes, including a bibliography, or include the information in your handouts/visuals, if you plan to use any. We will brainstorm potential topics in class. Presentations will be evaluated based on content, delivery, and audience response.

Important Dates

Fall Semester, 2018	**August 31, 2018— January 13, 2019**
Aug. 31	Registration
Sep.3	Classes Begin
Sep.7 - 20	Freshmen's Military Training
Sep.24	Classes Begin（Freshmen）
Sep.24	Mid-Autumn Festival (tentative)
Oct.1 - 5	National Day Holiday (tentative)
Oct. 29 - Nov. 2	Mid-term Test
Jan.1, 2019	New Year's Day Holiday (tentative)
Jan.2-11	Final Exam Period
Jan.14	Winter Vacation Begins

Note: *This syllabus is tentative and may be changed or modified throughout the semester. All students will be notified and a new syllabus will be given.*

Instructor: Prof. Skipper Smith **Department Head： Prof. Jingning Li**