

Course Outline (*please complete as appropriate*)

COURSE TITLE	C Programming & Practice
NAME OF LECTURER	Paul Doyle

COURSE DESCRIPTION

Topics include the principles, practices, and applications of programming in structured online programming environment. The techniques and language features of C based program design are implemented in programming projects and lab assignments. Emphasis is placed upon development of well-designed, efficient, maintainable software through in lab practice.

RECOMMENDED READINGS

Students are not required to purchase any textbooks, but the following recommended material can be required.

Deitel, 6th Edition, C, How To Program

TEACHING METHODS

In class lectures and tutorials will be used along with flipped learning and blended learning techniques. Some online video material may be used along with practical in-lab problem solving activities with regular feedback sessions with solutions and worked examples provided. The development environment will be an online IDE in a cloud environment and accessible from both in class and from home.

ASSESSMENT METHODS

Continuous Assessment (100)

Project work

Quizzes

Lab work

CLASS TOPICS (*each class is 3 hrs*)

Topic 1: Software development processes and introduction to C using source code control

Topic 2: Structured Programming and decision making

Topic 3: Program Control using Loops and iterations

Topic 4: Using Arrays in C

Topic 5: Multi-dimensional Arrays

Topic 6: Pointers

Topic 7: Strings and Character Arrays

SPECIAL COMMENTS

This course will have blended learning techniques incorporated into it. All material will be available in advance so students can register and prepare as much as possible. The course will be practical programming with sample solutions and worked solutions for each lab.

Students wishing to take this class should have some programming experience, however we will start with the very basics of the language.

해외우수교수초빙강좌 수강 제한 및 유의사항 (Notice for KNU students)

- a. 2018년 8월 졸업예정자(조기졸업자 포함)
- b. 국내 타 대학 교류학생
- c. 재이수의 경우 개강 전 수강취소만 가능(7.4-7.5에 한함)
- d. 해외우수교수초빙강좌 수강과목은 2018.2학기 수강꾸러미로 신청불가