17/08/2016 Course Information

Home > Programme > Courses Offered

### **Course Information**

## **ENGG1111 Computer Programming and Applications**

	20	12-13		
	Wong Kenneth	(Class A)	No. of credit(s):	
Instructor(s):	Chui C K	(Class B)		6
	Mitcheson George	(Class C)		
Recommended Learning Hours:	Lecture: 27 Lab Session: 12			
Pre-requisite(s):				
Co-requisite(s):				
Remarks:	This course may not be to	aken with CSIS11	17 or ENGG1013 or EN	IGG1014.

### **Course Learning Outcomes**

- 1. Analyze simple problems and derive solutions, providing a logical flow of instructions
- 2. Use and construct functions for structured computer programs
- 3. Demonstrate competency in the use of various data structures in program writing
- 4. Identify and correct different types of programming errors, including data validation
- 5. Demonstrate competency in program testing and debugging

# Syllabus

### Calendar Entry:

This course covers both the basic and advanced features of the C/C++ programming languages, including syntax, identifiers, data types, control statements, functions, arrays, file access, objects and classes, class string, structures and pointers. It introduces programming techniques such as recursion, linked lists and dynamic data structures. The concept and skills of program design, implementation and debugging, with emphasis on problem-solving, will also be covered.

Target students are those who wish to complete the programming course in a more intensive mode in 1 semester. Students with some programming knowledge are encouraged to take this course.

#### **Detailed Description:**

Weeks 1-6 Basic programming.	Mapped to Outcomes
C++ syntax, identifiers, data types, control statements, functions, arrays, file access	1, 2
Program design, implementation and debugging, problem solving	1, 4, 5
Weeks 7-13: Advance features.	Mapped to Outcomes
Class and objects, string, structures and pointers, recursion, linked list, dynamic data structures	1, 2, 3

## Assessment:

Continuous Assessment: 50% Written Examination: 50% 17/08/2016 Course Information

Teaching Plan
Class ENGG1111A
Class ENGG1111B
Class ENGG1111C

PAGE TOP

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