This course introduces the computer-oriented problem-solving methods and algorithm development; object oriented programming concepts; concepts of abstract data types; simple data structures; illustrative applications. The C++ programming language will be used.

Grade Descriptor:

EXCELLENT – exceptionally good performance and far exceeding expectation in all or most of the course learning outcomes; demonstration of superior understanding of the subject matter, the ability to analyze problems and apply extensive knowledge, and skillful use of concepts and materials to derive proper solutions.

GOOD – good performance in all course learning outcomes and exceeding expectation in some of them; demonstration of good understanding of the subject matter and the ability to use proper concepts and materials to solve most of the problems encountered.

FAIR – adequate performance and meeting expectation in all course learning outcomes; demonstration of adequate understanding of the subject matter and the ability to solve simple problems.

MARGINAL – performance barely meets the expectation in the essential course learning outcomes; demonstration of partial understanding of the subject matter and the ability to solve simple problems.

有關等級說明的資料，請參閱英文版本。
有关等級說明的資料，請參閱英文版本。

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FAILURE – performance does not meet the expectation in the essential course learning outcomes; demonstration of serious deficiencies and the need to retake the course.

Equivalent Offering:
Units: 3 (Min) / 3 (Max) / 3 (Acad Progress)
Grading Basis: Graded
Repeat for Credit: N
Multiple Enroll: N
Course Attributes:

Topics:

COURSE OUTCOMES

Learning Outcomes:
1. Be able to write, understand, compile and debug C++ programs
2. Be able to write programs using the basic programming elements such as variables, data types, selection and looping control structures, functions, and arrays;
3. Be able to perform dynamic memory allocation and manage pointers;
4. Be able to implement and instantiate classes, and invoke methods;
5. Understand the basic concept of data encapsulation, polymorphism, and inheritance;

Course Syllabus:
This course introduces the computer-oriented problem-solving methods and algorithm development; object-oriented programming concepts; concepts of abstract data types; simple data structures; illustrative applications. The C++ programming language will be used.

Assessment Type:
Others : 30%
Short answer test or exam : 70%
Feedback for Evaluation:
1. Midterm and final course evaluation;
2. Midterm exam and final exam;
3. In-class informal survey;

Required Readings:
nil

Recommended Readings:

OFFERINGS
1. CSCI1120 Acad Organization=CSD; Acad Career=UG

COMPONENTS
LEC : Size=30; Final Exam=Y; Contact=3
TUT : Size=30; Final Exam=N; Contact=1

ENROLMENT REQUIREMENTS
1. CSCI1120

   Enrollment Requirement Group:
   Not for students who have taken AIST1110 or CSCI1020 or CSCI1110 or CSCI1130 or CSCI1510 or CSCI1520 or CSCI1530 or CSCI1540 or ESTR1100 or ESTR1102

   New Enrollment Requirement(s):
   Exclusion = no change

CAF
   eLearning hrs for blended cls  0
   No. of micro-modules  0
   Research components (UG)  0%

<END OF REPORT>