

Academic Org: Dept of Computer Sci & Engg – Subject: Computer Science

Course: CSCI4130 **Course ID:** 011916 **Eff Date:** 2022-07-01 **Crse Status:** Active **Apprv. Status:** Approved **【Course Rev】**
Introduction to Cyber Security 網際安全概論

Cyber Security is an important topic in modern information and communication technology. This course introduces students to major areas of Cyber Security, including introductions to cryptography, network security, computer security, and web security.

Advisory: Basic knowledge on Computer Networks are suggested.

網際安全是一個重要的課題在現代信息和通信技術。本科向學生介紹網際安全的主要領域，包括介紹密碼學，網絡安全，計算機安全和網頁安全。

參考意見: 選課者建議具備計算機網絡的基本知識。

Grade Descriptor: A

EXCELLENT - exceptionally good performance 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.

有關等級說明的資料，請參閱英文版本。

B

SATISFACTORY - adequate performance in all course learning outcomes. demonstration of adequate understanding of the subject matter, and the ability to solve straight forward problems.

有關等級說明的資料，請參閱英文版本。

C

REASONABLE - adequate performance in the essential course learning outcomes, reasonable performance, and the ability to solve simple problems.

有關等級說明的資料，請參閱英文版本。

D

MARGINAL – performance barely meet 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。

F

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

有關等級說明的資料，請參閱英文版本。

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:

Upon successful completion of the course, the students will have acquired the ability to:

1. obtain an introductory level of understanding of major areas of cyber security, including cryptography, network security, system security, and web security;
2. gain experiences in wireless network security and web security; and
3. able to apply the learning outcomes of this course towards a potential career in the governance of system, network, and websites.

This course also paves the foundation to deeper studies in cyber security.

Course Syllabus:

Cyber Security is an important topic in modern information and communication technology. This course introduces students to major areas of Cyber

Security, including introductions to cryptography, network security, computer security, and web security.
The course syllabus may be updated from year to year.

Assessment Type:

Essay test or exam : 64%
Others : 36%

Feedback for Evaluation:

Students are encouraged to give comments and make suggestions using the following channels:

1. There are two course evaluations - one before the mid-term, and one at the end of the course. This is a formal channel for students to rate the teacher, the course, and the course tutors. Students can give specific comments or suggestions in addition to the numeric ratings.
2. Students can provide feedback using informal channels, such as email, or simply by discussing with the tutors or the instructor directly.

Required Readings:

1. A. Kahate, "Network Security and Cryptography.", Tata McGraw-Hill Education, 2008

Recommended Readings:

OFFERINGS

1. CSCI4130 Acad Organization=CSD; Acad Career=UG

COMPONENTS

LEC : Size=80; Final Exam=Y; Contact=3
TUT : Size=80; Final Exam=N; Contact=1

ENROLMENT REQUIREMENTS

1. CSCI4130 **Enrollment Requirement Group:**
Not for students who have taken ESTR4306 or IEMS5710 or IERG4130

New Enrollment Requirement(s):
Exclusion = no change

CAF

eLearning hrs for blended cls 0

No. of micro-modules 0
Research components (UG) 0%

< E N D O F R E P O R T >