

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

Course: CSCI3280 **Course ID:** 002598 **Eff Date:** 2022-07-01 **Crse Status:** Active **Apprv. Status:** Approved **【Course Rev】**
Introduction to Multimedia Systems 多媒體系統導論

This course covers the design and implementation of modern multimedia systems. Topics include multimedia systems design, multimedia data representation, multimedia hardware and software, multimedia communication and networking, multimedia programming and multimedia information systems.

本科覆蓋現代多媒體系統的設計與實現。專題包括多媒體系統之設計，多媒體數據之表達法，多媒體硬件及軟件，多媒體通信及網絡，多媒體程序設計以及多媒體信息系統。

Grade Descriptor: A

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.

有關等級說明的資料，請參閱英文版本。

B

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.

有關等級說明的資料，請參閱英文版本。

C

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.

有關等級說明的資料，請參閱英文版本。

D

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。

F

FAILURE – performance does not meet the 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:

1. Be able to understand the fundamental technologies used in modern multimedia systems;
2. Be able to understand how different media are digitally represented;
3. Be able to understand the popular audio, image, and video standards;
4. Be able to understand the basic algorithms used in multimedia standards;
5. Be able to know the capabilities and limitations of these technologies;
6. Be able to work collaboratively on interesting multimedia project.

Course Syllabus:

This course covers the design and implementation of modern multimedia systems. Topics include multimedia systems design, multimedia data representation, multimedia hardware and software, multimedia communication and networking, multimedia programming and multimedia information systems.

Assessment Type:

Essay test or exam : 50%
Others : 50%

Feedback for Evaluation:

1. The course will be evaluated by course evaluation done by the students;
2. Results of assignments;
3. Results of project;
4. Results of examination;

Required Readings:

1. Fundamentals of Multimedia, by Ze-Nian Li, Mark S. Drew, Prentice Hall;
2. Multimedia Communications: Applications, Networks, Protocols and Standards, by Fred Halsall, Addison Wesley;
3. Networked Multimedia Systems, by Raghavan and Tripathi, Prentice Hall;
4. Other supplementary reading will be determined by the course instructor;

Recommended Readings:

OFFERINGS

1. CSCI3280 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

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 >