

Course Content

Course Title (English)	Multimedia Signal Processing
Course Title (Chinese)	多媒體信號處理
Credit	3
Instructor	Prof. Homer H. Chen 陳宏銘 教授
Outline	<p>Introduction to Multimedia</p> <p>Fundamental Concepts in Image, Video, and Audio</p> <p>Graphics, Image, video, and Audio Data Representations</p> <p>Audio/Video Processing Techniques</p> <p>Audio/Video Compression Algorithms</p> <p>Human Audiovisual Models</p> <p>Perceptual Multimedia Processing</p> <p>Music Emotion Recognition and Its applications to Music retrieval</p> <p>Computer and Multimedia Networks</p> <p>Multimedia Communications and Applications</p>
Goal	<p>Multimedia is an important part of the technological environment in which we work and communicate with others. It involves the study of computer graphics, image processing, audio processing, databases, real-time system, information retrieval, computer networks, computer vision, and so on. A course in multimedia is rapidly becoming a necessity in computer science and electrical engineering curricula, especially now that multimedia touches most aspects of these fields. The goal of this course is to give the students an introduction of the techniques used to represent, analyze, and develop multimedia systems (particularly smart phones).</p>

English Teaching	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Teaching Material	<input checked="" type="checkbox"/> English <input type="checkbox"/> Chinese