OBTAIN CHAIR AND CLUSTER COORDINATOR SIGNATURES BEFORE SUBMITTING TO UNIVERSITY STUDIES OFFICE

DEPARTMENT
CHAIR(S) ________________________________

DATE: ___________ DATE: ___________

CLUSTER COORDINATOR ________________________________

DATE: __________

All changes to Clusters must be approved by PSU’s Senate Curriculum Committee.

THE ORIGINAL + 3 COPIES OF THE PROPOSAL MUST BE RECEIVED AT UNIVERSITY STUDIES (CH 117) BY NOVEMBER 7 2008.

Proposals submitted by this due date will be reviewed for inclusions in clusters beginning in AY 2009 - 2010.
COURSE APPROVED FOR CLUSTER INCLUSION

CHAIR, CLUSTER COORDINATORS: __________________________

DATE: 12/1/06

CHAIR, UNST COMMITTEE: __________________________

DATE: 12/04/06
Cluster Proposed for: ___ TBD  Could fit into:

Freedom, Privacy and Technology (Jamie P. Ross)

Popular Culture (Grace Dillen)

Title of course: ___ Digital Media and Society _________

Course Number: ___ CS 348 ________________________________

Proposing Faculty: ___ Wu-chi Feng __________

Cluster Coordinator: _____ See above __________________________

Proposal Type:

___ Cluster Course to New Cluster

_X_ New Course to Cluster

___ Removal

Other clusters this course is assigned to:

Proposals are due to the University Studies office (CH 117) with 12 duplicate copies by Friday, November 9, 2007 so that they may be reviewed and forwarded to the UCC Committee for final approval.
University Studies New Cluster Course Addition

Adding a previously unapproved course to a cluster

(When addressing questions, please attach a separate sheet)

PROPOSING FACULTY (Name, signature, and department)

PROPOSED CLUSTER(S)  Tentative
  Freedom, Privacy, and Technology
    Media Studies
    Popular Culture

1. THE COURSE

A. COURSE TITLE, NUMBER, AND CATALOG DESCRIPTION

Course title: Digital Media and Society

Course number: CS348

Catalog description: This course covers the transition of society from a primarily paper-based society to one that is digital, with particular focus on the use of digital media such as audio, images, and video. The course will provide an understanding of (i) what is digital media and how did it come about, (ii) what are some of the technical limitations of digital media, (iii) the impact of copyright and digital rights management, (iv) digital media and the Internet, and (v) the impact this will have on future society. The course may not be used as one of the upper-division CS Electives for the BS degree in Computer Science.

B. DEVELOPMENT Is the course based upon an existing course, or is it a new course under development?

This is a new course. Some of the materials are derived from the CS 410/510 Introduction to Multimedia Networking and CS 305 Computer Ethics. It is intended for non-CS majors.

C. AVAILABILITY
   With what regularity has the course been—or will the course be—offered?

Initially, it is expected to be offered once a year. If demand is high, more sections may be added
D. PREREQUISITES
List any course prerequisites beyond the cluster Sophomore Inquiry course.

2. COURSE OUTLINE. Provide a detailed outline of the proposed course, also including its preliminary reading list, and the name(s) of instructor(s) committed to teaching the course.

No prereqs. Outline below:
Name of instructor:  Wu-chi Feng (tentatively)
Book: TBD

Week 1:  Digital History
Understanding the transition between analog and digital society
Terminology and background for digital media society
What is digital media
Audio – analog and digital representations
Images – analog and digital representations
Video – analog and digital representations

Week 2:  Compression and limitations of Audio Media
CD-audio
MP3 compression
Limitations of audio compression

Week 3:  Compression and limitations of Image Media
Popular image compression formats (GIF, JPEG, TIF, etc)
Limitations and uses of image compression
Explore the history of the development of image formats
Explore why some formats are better at some things vs. others

Week 4:  Compression and limitations of Video Media
Popular video compression formats (MPEG-1, MPEG-2, AVI, MOV)
Limitations and uses of video compression
Explore the history and development of video formats
Explore the limitations of such formats

Week 5:  From 8-track, LPs, and tape to CDs and MP3
Explore the impact on society and commerce with the change
Explore the impact of new Internet sharing mechanisms

Week 6:  Mid term
The impact of networked video on society
Youtube and iTunes phenomena

Week 7:  The impact of networked video on society
Video distribution
Video conferencing
Week 8: Protecting Digital Media
   Techniques to prevent illegal copy and theft of digital media
   Watermarking technologies
   Encryption technologies

Week 9: Managing Digital Media Distribution
   Digital rights management
   Region encryption
   Convergence of cable, telephony, and the Internet

Week 10: The Future of Digital Society
   Explore issues relating to a society based solely on digital media
3. GENERAL EDUCATION GOALS.

A. COURSE CONTENT & SUITABILITY FOR CLUSTER

Discuss the course content in relationship to the thematic focus of the cluster.

TBD: It could fall under:

- Freedom, Privacy, and Technology
- Popular Culture

B. UNST GOALS Indicate what materials and assignments will address those University Studies goals appropriate to the course content and cluster theme (the goals are Inquiry and Critical Thinking, Communication, Diversity of Human Experience, and Ethical Issues & Social Responsibility).

This course will explore the limitations of digital media in graphics communications and computer literacy. The course will also stimulate critical thinking, focusing on the understanding and analysis of the analog to digital conversion society is currently going through. Students will also learn about the ethical and social aspects of digital media on society. In particular, it will focus on digital copyright and digital rights management for media.

This course will directly address the “Inquiry and Critical Thinking” and “Ethical Issues and Social Responsibility goals”. In particular, we will spend a fair bit of time talking about the technological choices that are implemented by companies to secure their media and the impact it has on our privacy. We will also explore the ethical and social responsibility of users that own content.

C. CLASSROOM ENVIRONMENT Discuss the teaching strategies employed in the course and how they articulate with the student-centered, active-learning strategies characteristic of University Studies courses.

There will be many in class activities The students will be expected to participate in discussion-oriented sessions.