

## **Minor in Digital Media Technologies**

Interdisciplinary Minor between the CIS & BTMM Departments

As of February 5, 2010

We propose the establishment of an intercollegial Digital Media Technologies Minor in the Computer and Information Sciences (CIS) Department within CST and in Broadcasting, Telecommunications, and Mass Media (BTMM) Department within SCT.

The proposed minor is designed to expand students' knowledge of the information age, to empower them to understand how to communicate using emerging media and computer technologies. The ability to tell stories through emerging digital media technologies will be critically and analytically explored as students examine the science of those technologies. The algorithms of communicating via emergent technologies will be at the core of this minor. This program addresses serious gaps in the current curriculum because current students of media have little understanding of the science of digital media and fast evolving interactive web-based information sharing technologies.

This would be the first official experience of a cross disciplinary program in the sciences and arts at Temple University. We seek to create a bridge between the students, faculty and staff where an obvious gap has existed for many years. This is a trend at leading universities across the country.

The proposed minor will:

1. Expand critical thinking and communication skills
2. Build knowledge in the interdisciplinary nature of science and media
3. Promote intellectual inquisitiveness and life-long learning
4. Develop awareness of social and ethical issues
5. Promote collaborative learning and teamwork skills
6. Increase students' ability to analyze and interpret information
7. Refine problem solving skills using emerging technologies

Upon completion of this minor, student should be able to demonstrate the following competencies:

1. Utilization of the hardware, software and technologies for integrating content for computers, the Internet, and mobile devices
2. Critical analysis of decisions made regarding the use of technology specifically in the social and ethical arenas
3. Understand the impact of current and emerging technologies locally and globally
4. Design and implementation of content for various media digitally
5. Ability to evaluate the science of technology as it impacts communications.
6. Develop and refine presentation, analytical, problem solving and writing skills

Although similar programs exist at such institutions as Rensselaer Polytechnic Institute and University of Illinois at Chicago, this would be the first official experience of a cross disciplinary program in the sciences and arts at Temple University. We seek to create a bridge between the students, faculty and staff where an obvious gap has existed for many years. This is a trend at leading universities across the country.

The bridge created by this minor will bring together faculty and students from at least two distinct colleges and several departments within those colleges. The Internet is a public community where students explore the integration of science, technology, and art. We envision this minor as an interdisciplinary exploration of scientific boundaries incorporating fundamental principles as well as emerging technologies.

**REQUIRED (15 credits)**

No	Dept	Course	Description	Credits
1	BTMM	1701	Intro to Digital Media	3
2	CIS	1052	Introduction to Web Technology and Programming	4
3	CIS	1056	Programming for the WWW	4
4	BTMM	2741	Introduction to Cybermedia	4

**ELECTIVES (Select 2 | 6-7 credits) \***

Dept	Course	Description	Credits
BTMM	4741	Cybermedia Workshop	4
BTMM	4252	Law and Ethics	3
BTMM	4890	Advanced Topics(User Generated Contents Mobile Comm Tele Presence)	3
BTMM	4614	Creating a Media Business	3
CST	4321	Entrepreneurship in Science and Technology	3
CIS	2000+	CIS 2000+ level course *	3 or 4

**Total Credits: 21-23.**

\*Implementation Details:

- For BTMM students, at least one (1) CIS elective is required.
- For CIS students, at least one (1) BTMM elective is required.
- For students of other backgrounds, at least one (1) BTMM and one (1) CIS electives are required.
- Example CIS Electives: CIS2109 (Database Systems), CIS3242 (Mobile Computing Workshop). Both courses accept CIS1052-1056 sequence as pre-requisites.