Geology Minor 2013-2014

326 Beury Hall (215) 204-7172
Chairperson: Dr. Jonathan Nyquist
Faculty Advisor: Dr. Allison Tumarkin-Deratzian

☐ Geology 2001 with lab
☐ Chemistry 1021/1023 or Chemistry 1031/1033
☐ Math 1022 or Math 1041 or higher
☐ Geology elective (numbered above 2001)
☐ Geology elective (numbered above 2001)
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To obtain a minor in Geology, students must complete 20 hours of courses in Geology. Geology 2001 with lab is required. The remaining courses above 2001 are chosen with the approval of the Undergraduate Geology Adviser.

Digital Media Technologies Minor 2013-2014

Department of CIS
Chairperson: Dr. Jie Wu
Faculty Advisor: Sally Kyvernitis
303 Wachman Hall (215) 204-2030

Department of Media Studies and Production (MSP)
205 Annenberg Hall (205) 204-3876
Chairperson: Dr. Patrick Murphy
Faculty Advisor: Dr. Patrick Murphy

☐ Intro to Media Technologies (MSP 1701)
☐ Intro to Web Tech & Programming (CIS 1052)
☐ Advanced Web Tech & Programming (CIS 1056)
☐ Intro to Cybermedia (MSP 2741)
☐ Elective *
☐ Elective *

Digital Media Technologies Minor Electives:

Cybermedia Workshop (BTMM 4741)
Regulation & Public Policy (BTMM 4252)
Advanced Topics in Media Telecom. (BTMM 4890)
Creating a Media Business (BTMM 4614)
Entrepreneurship in Sci & Tech (CST 4321)
Computer & Information Sciences courses (numbered above 2000)

*Please note: MSP students must complete (1) CIS elective; CIS students must complete (1) MSP elective; all other students must complete (1) MSP and (1) CIS elective. Please refer to the online bulletin for additional rules applying to electives used for this minor: www.temple.edu/bulletin
**MINORS 2013-14**

**Colleges of Science and Technology**

**MATHEMATICS**
638 Wachman Hall  
Chairperson: Dr. Edward Letzter  
Faculty Advisor: Dr. Boris Datskovsky

- Introduction to Academics in Computer Sci (1001)
- Introduction to IS&T (CIS 1048)
- Program Design & Abstraction (CIS 1068)
- Database & File Management Systems (CIS 2109)
- Selected one elective from:
  - Object-Oriented Programming (CIS 2168) or
  - Operating Systems and Networking (CIS 2229)
- Select a 3000-level course related to IT from a Temple department. Needs IS&T advisor approval.

**BIOLOGY**
255 Biology Life Sciences Bldg.  
Chairperson: Dr. Shohreh Amini  
Advisor: Dr. Joel Sheffield & Ms. Evelyn Vleck

- Introduction to Biology (Bio 1111)
- Introduction to Biology (Bio 2112)
- Biology Elective (2200 or above)*
- Biology Elective (2200 or above)*
- Biology Elective (2200 or above)*

*At least one of these electives must be a course with a laboratory. See course descriptions for exceptions to Biology electives. Note that Chemistry 1031 and 1032 (with labs) are the co- or pre-requisites for Biology 1111 and 2112. (Minimum of 18 credits)

**INFORMATION SCIENCE & TECHNOLOGY**
303 Wachman Hall  
Chairman: Dr. Jie Wu  
Faculty Advisor: Ms. Wendy Urban

- Introduction to Academics in Computer Sci (1001)
- Introduction to IS&T (CIS 1048)
- Program Design & Abstraction (CIS 1068)
- Database & File Management Systems (CIS 2109)
- Selected one elective from:
  - Object-Oriented Programming (CIS 2168) or
  - Operating Systems and Networking (CIS 2229)
- Select a 3000-level course related to IT from a Temple department. Needs IS&T advisor approval.

**COMPUTER SCIENCE**
303 Wachman Hall  
Chairman: Dr. Jie Wu  
Faculty Advisor: Prof. Sally Kyvernitis

- Program Design and Abstraction (CIS 1068)
- Mathematical Concepts in Computing I (CIS 1166)
- Computer Systems and Low-Level Programming (CIS 2107)
- Data Structures (CIS 2168)
- CIS Independent Study (CIS 4282) or
  - an approved 2000 or 3000 level CIS course*

*Select from: CIS Independent Study, CIS 2033, CIS 2166, CIS 2308, CIS 3207, CIS 3219, CIS 3319

**PHYSICS**
A116 Barton Hall  
Chairperson: Dr. Rongjia Tao  
Faculty Advisor: Dr. Zbigniew Dziembowski

- Elementary Classical Physics I (Physics 1061)
- Elementary Classical Physics II (Physics 1062)
- Introduction to Modern Physics with Lab (Physics 2796)
- Electricity & Magnetism with Lab (Physics 3301) or Intro. to Electromagnetic Fields & Waves (EE 3712)
- Physics Elective (2000 or above)*
- Physics Elective (2000 or above)*

* Electives must be approved by the Undergraduate Physics Adviser