

# Bachelor of Science Degree Information Science and Technology

2005-2006

## Department of Computer and Information Sciences

303 Wachman Hall

(215) 204-8450

**Chairperson:** Dr. Paul LaFollette

**Faculty Advisor:** Dr. Gary Baram

<http://www.cis.temple.edu>

- **123** credits, **90** of which must be in CST/CLA courses
- **45** credits must be upper level (UL) coursework in either CST/CLA or UL course(s) that can be credited towards the major or declared 2nd major/minor chosen in consultation with an advisor.

- Appropriate Core Curriculum requirements:
  - Traditional  Core 45  Core to Core

- The following requirements for the IS&T Major:

**Math Sequence: 0045 > C073 > C077**

### First Year

- Differential & Integral Calculus (Math C077) [pre-req Math C073 w/ "C" or better]
- Science A\* \_\_\_\_\_
- Computers & Applications (CIS C055)\* (Science B)
- Higher Level Languages (CIS C081) [pre-req Math C073 w/ "C" or better]

### Second Year

- Probability and Statistics (Math 0133) [pre-req Math C077]
- Sophomore Problem Solving (Math 0163) [pre-req Math C077]
- Object Oriented Programming (CIS 0083) [pre-req CIS C081]
- Database & File Management Systems (CIS 0109) [pre-req CIS C081, co-req CIS 0083]
- Component-Based Software Development (CIS 0209) [pre-reqs CIS 0083 & CIS 0109]
- Operating Systems & Networking (CIS 0230) [pre-reqs CIS 0083 & CIS 0109]

### Third Year

- Net-Centric Computing (CIS 309) [pre-reqs CIS 0209 & 0230]
- Network Architectures (CIS 330) [pre-reqs CIS 0209 & 0230]
- Networked Application Systems (CIS 0342) [pre-reqs CIS 0209 & 0230]
- Information Systems Analysis and Design (CIS W281) [pre-reqs CIS 0209 & 0230]
- Information System Implementation (CIS W381) [pre-req CIS W281]

### Fourth Year

- IS&T elective\*♦ \_\_\_\_\_
- IS&T elective\*♦ \_\_\_\_\_
- IS&T elective\*♦ \_\_\_\_\_
- IS&T elective\*♦ \_\_\_\_\_

\*IS&T elective courses can be selected from any department at Temple, must be 100-level or above, IS&T related, and approved by an advisor (CIS 288, 308, 344, 345, 350, 362, 372, 382, 386).

♦Courses have pre- and/or co-requisites, consult course descriptions for details

## Traditional Core

For students starting as freshmen or transferring with fewer than 45 credits.

- English C050 \_\_\_\_\_
- American Culture \_\_\_\_\_
- The Arts \_\_\_\_\_
- Individual and Society \_\_\_\_\_
- Studies in Race \_\_\_\_\_
- Foreign Language 2<sup>nd</sup> level\* \_\_\_\_\_
- Foreign Language 3<sup>rd</sup> level\* \_\_\_\_\_
- International Studies \_\_\_\_\_
- International Studies (non western)\* \_\_\_\_\_
- Science and Technology (SA) \_\_\_\_\_
- Science and Technology (SB) \_\_\_\_\_
- Quantitative Reasoning (QA) \_\_\_\_\_
- Quantitative Reasoning (QB) \_\_\_\_\_
- Intellectual Heritage X051 \_\_\_\_\_
- Intellectual Heritage X052 \_\_\_\_\_
- Writing Intensive Elective \_\_\_\_\_
- Writing Intensive Elective (Must be taken at Temple) \_\_\_\_\_
- Writing Intensive in Major (Must be taken at Temple) \_\_\_\_\_

### \*B.S.

- 2 International Studies (IS) 1 non western or
- 2<sup>nd</sup> level of a language + 1 IS or
- 3<sup>rd</sup> level of a language /Exempt<sup>^</sup>

## Core 45 +

For students receiving 45 credits or more in transfer

- English C050 \_\_\_\_\_
  - American Culture \_\_\_\_\_
  - The Arts \_\_\_\_\_
  - Individual and Society \_\_\_\_\_
  - Studies in Race \_\_\_\_\_
  - Science and Technology (SA or SB) \_\_\_\_\_
  - Quantitative Reasoning (QA or QB) \_\_\_\_\_
  - Intellectual Heritage X051 or X052 \_\_\_\_\_
  - Writing Intensive Elective (Must be taken at Temple) \_\_\_\_\_
  - Writing Intensive in Major (Must be taken at Temple) \_\_\_\_\_
  - Foreign Language\* \_\_\_\_\_
  - International Studies\* \_\_\_\_\_
- } 2 of the 3

### \*B.S.

- 1 International Studies (IS) or
- 2<sup>nd</sup> level of a language/Exempt<sup>^</sup>

## Core to Core

For students who have completed an approved Associate's degree from a college that has an established transfer agreement with Temple.

- Writing Intensive Elective (Must be taken at Temple) \_\_\_\_\_
- Writing Intensive in Major (Must be taken at Temple) \_\_\_\_\_

- Library Skills (TILT) [www.library.temple.edu](http://www.library.temple.edu) (Must be taken in order to graduate)

<sup>^</sup>If English is your second language, speak with an advisor about possible exemption.  
Revised 7/7/05