

# Bachelor of Science Degree Computer and Information Science

2005-2006

## Department of Computer and Information Sciences

303 Wachman Hall

(215) 204-8450

**Chairperson:** Dr. Paul LaFollette

**Faculty Advisor:** Dr. Billie Stevens

<http://joda.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 CIS Major:

**Math Sequence:** 0045 > C073 > C074 > C085 > 0086

### First Year

- Calculus I (Math C085 or H095)•
- Calculus II (Math 0086 or H096)•
- Laboratory Science A •
- Laboratory Science B •

\*Students are required to complete a 2 semester sequence of a lab science

### Second Year

- Program Design and Abstraction (CIS 0067) [prereq Math C074 with a 'C' or better or two years of high school algebra and one year of trigonometry.]
- Math Concepts in Computing I (CIS 0066) [coreq Math C085] or Basic Mathematical Concepts (Math W141) [prereq One year of calculus or permission of instructor]
- Math Concepts in Computing II (CIS 0166) [prereqs CIS 0066, 0067, & Math C085] or Modern Algebra (Math W205) [prereq Math 147 or 148 with a grade of C- or better or permission of instructor]
- Data Structures (CIS 0068) [prereq CIS 0066, 0067, & Math C085]
- Computer Systems & Low-Level Prog (CIS 0072) [prereqs CIS 0066, 0067, & Math C085]

### Third Year

- Data Structures & Algorithms (CIS 0223) [prereqs CIS 0066, 0067, 0068, 0072 & Math C085 co-req CIS 0166]
- Intro to Systems Programming and Operating Systems (CIS 0207) [prereqs CIS 0066, 0067, 0068, 0072 & Math C085]
- Theory Course—Choose from Math 0133, 0227, 0233, Phil 0211, CIS 0211, 0242•
- CIS elective\* • \_\_\_\_\_
- Communication Course - Choose from English W102, W104, STOC 0065•

### Fourth Year

- Intro to Distributed Systems & Networks (CIS 0307) [prereq CIS 0166, 0207 and 0223]
- Software Engineering (CIS W338) [prereq CIS 0223 co-req CIS 0207]
- CIS elective\* • \_\_\_\_\_
- CIS elective\* • \_\_\_\_\_
- Projects in Computer Science (CIS 0339) [prereqs CIS W338 and senior standing]

\*CIS electives: CIS 0203, 0211(if not taken as theory reqmt.), 0217, 0220, 0242 (if not taken as theory reqmt.), 0305, 0308, 0320, 0324, 0331, 0350, 0397, 0398 - check course descriptions for prerequisites

\*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 50 \_\_\_\_\_
- 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 Level 1 \_\_\_\_\_
- Science and Technology Level 2 \_\_\_\_\_
- Quantitative Reasoning Level 1 \_\_\_\_\_
- Quantitative Reasoning Level 2 \_\_\_\_\_
- 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^

## Core 45 +

For students receiving 45 credits or more in transfer.

- English C050 \_\_\_\_\_
- American Culture \_\_\_\_\_
- The Arts \_\_\_\_\_
- Individual and Society \_\_\_\_\_ } 2 of the 3
- Studies in Race \_\_\_\_\_
- Science and Technology Level \_\_\_\_\_
- Quantitative Reasoning Level \_\_\_\_\_
- 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• \_\_\_\_\_

### •B.S.

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

## 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) (Must be taken in order to graduate) [www.library.temple.edu](http://www.library.temple.edu)

^ If English is your second language, speak with an advisor about possible exemption.

Revised 6/27/05