

# Mathematics and Computer Science

2009-2010

## Department of Mathematics

638 Wachman Hall

(215) 204-7841

Chairperson: Dr. Omar Hijab

Faculty Advisor: Dr. Boris Datskovsky

<http://math.temple.edu>

## Department of Computer Science

309 Wachman Hall

(215) 204-6439

Chairperson: Dr. Jie Wu

Faculty Advisor: Dr. Anthony Hughes

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

Name: \_\_\_\_\_

TU ID: \_\_\_\_\_

## Bachelor of Science

### Recommended Sequence of Major Courses:

- Calculus I: Math 1041 \_\_\_\_\_
- Program Design and Abstraction: CIS 1068 \_\_\_\_\_
- Calculus II: Math 1042 \_\_\_\_\_
- Data Structures: CIS 2168 \_\_\_\_\_
  
- Mathematical Concepts in Computing I: CIS 1166 \_\_\_\_\_
- Calculus III: Math 2043 \_\_\_\_\_
- Linear Algebra: Math 2101 \_\_\_\_\_
- Computer Systems & Low-Level Programming: CIS 2107 \_\_\_\_\_
- Mathematical Concepts in Computing II: CIS 2166 \_\_\_\_\_
- Introduction to Probability Theory: Math 3031 \_\_\_\_\_
  
- Introduction to Systems Programming & Operating Systems: CIS 3207 \_\_\_\_\_
- Theory of Numbers: Math 3003<sup>F</sup>  
**OR** Modern Algebra: Math 3098<sup>F</sup> \_\_\_\_\_
- General Chemistry I/Chemistry I Lab: Chem 1031/1033  
**OR** Elementary Classical Physics I: Physics 1061 \_\_\_\_\_
- Data Structures and Algorithms: CIS 3223 \_\_\_\_\_
- General Chemistry II/ Chemistry II Lab: Chem 1032/1034  
**OR** Elementary Classical Physics II: Physics 1062 \_\_\_\_\_
- Math Elective: Math 3000 or above\* \_\_\_\_\_
  
- Numerical Analysis I: Math 3043<sup>F</sup> \_\_\_\_\_
- Math Elective: Math 3000 or above\* \_\_\_\_\_
- CIS Elective: CIS 3000 or above\* \_\_\_\_\_
- CIS Elective: CIS 3000 or above\* \_\_\_\_\_
- Projects in Computer Science: CIS 4398  
**OR** Senior Problem Solving: Math 4096<sup>S</sup> \_\_\_\_\_

### **CST Credit Requirements:**

A minimum of **123** total credits

A minimum of **45** Upper Level (UL) within  
CST/CLA (College of Science & Technology/College of Liberal Arts)

A minimum of **90** credits within CST/CLA

- Please remember you must schedule an appointment for an official **graduation review** when you reach 90 completed credits.

**Math Placement Results:**    Math 701    Math 1021    Math 1022    Math 1041

### NOTES:

<sup>F</sup> = Fall Only    <sup>S</sup> = Spring Only

Students must check the pre- and co-requisites for all courses before registering.

\*Please refer to the bulletin for information on electives at [http://www.temple.edu/bulletin/Academic\\_programs/academic\\_programs.shtm](http://www.temple.edu/bulletin/Academic_programs/academic_programs.shtm)

The Undergraduate bulletin is the official source of major requirements at [www.temple.edu/bulletin](http://www.temple.edu/bulletin)

### Suggested Courses:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Appt Date: \_\_/\_\_/\_\_ Time: \_\_: \_\_  
1810 Liacouras Walk, Suite 203

Revised Date: \_\_\_\_\_  
Advisor Initials: \_\_\_\_\_

Revised Date: \_\_\_\_\_  
Advisor Initials: \_\_\_\_\_

Revised Date: \_\_\_\_\_  
Advisor Initials: \_\_\_\_\_

Revised Date: \_\_\_\_\_  
Advisor Initials: \_\_\_\_\_

Revised on April 23, 2008

# University Requirements

Appropriate University Curriculum: Gen Ed Freshman Traditional Core Core 45+ Core-to-Core

## Gen Ed Curriculum

### For Freshman Beginning Fall 2008 and after:

- Analytical Reading and Writing \_\_\_\_\_
- Mosaic I \_\_\_\_\_
- Mosaic II \_\_\_\_\_
- Quantitative Literacy \_\_\_\_\_
- Arts \_\_\_\_\_
- Human Behavior \_\_\_\_\_
- U.S. Society \_\_\_\_\_
- World Society \_\_\_\_\_
- Race and Diversity \_\_\_\_\_
- Science and Technology \_\_\_\_\_
- Science and Technology \_\_\_\_\_

### Bachelor of Arts (BA) Only

- 2<sup>nd</sup> level of a Language \_\_\_\_\_

**Note:** Gen Ed curriculum applies to all newly admitted freshman in Fall 2008 or after and for all transfer students admitted Fall 2010 and after.

## Core Curriculum

For transfers entering from Fall 2008 through Spring 2010 with 45 or fewer credits.

### Traditional Core:

- English 802/812 \_\_\_\_\_
- American Culture \_\_\_\_\_
- 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\* \_\_\_\_\_
- Science and Technology (SA) \_\_\_\_\_
- Science and Technology (SB/GS) \_\_\_\_\_
- Quantitative Reasoning (QA/GQ) \_\_\_\_\_
- Quantitative Reasoning (QB/GQ) \_\_\_\_\_
- Intellectual Heritage 0851 \_\_\_\_\_
- Intellectual Heritage 0852 \_\_\_\_\_
- Writing Intensive Elective \_\_\_\_\_
- Writing Intensive Elective \_\_\_\_\_
- Writing Intensive in Major \_\_\_\_\_

\* **B.S.**

2 International Studies (IS/GG) or  
2<sup>nd</sup> level of a language + 1 IS/GG or  
3<sup>rd</sup> level of a language or Exemption^

\* **B.A.**

2<sup>nd</sup> level of a language + 2 IS/GG or  
3<sup>rd</sup> level/ Exempt^ + 1 IS/GG

### English Placement Results:

English 701/711 English 802/812 Exempt

### Foreign Language Placement Results:

\_\_\_\_\_ 1001 1002 1003 Exempt

All transfer students are required to complete the **Library Skills Test (TILT)** online at [www.library.temple.edu](http://www.library.temple.edu).

Please consult with your assigned academic advisor if you have questions about the university curriculum you should be following.

The Undergraduate bulletin is the official source of University core or general education requirements at [www.temple.edu/bulletin](http://www.temple.edu/bulletin).

Revised Date: \_\_\_\_\_ Advisor Initials: \_\_\_\_\_

Revised Date: \_\_\_\_\_ Advisor Initials: \_\_\_\_\_

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Revised Date: \_\_\_\_\_ Advisor Initials: \_\_\_\_\_

### Core 45+:

For students receiving 45 or more credits in transfer.

- English 802/812 \_\_\_\_\_
- American Culture \_\_\_\_\_
- Arts \_\_\_\_\_
- Individual and Society \_\_\_\_\_
- Studies in Race \_\_\_\_\_
- Science and Technology (SA or SB) \_\_\_\_\_
- Quantitative Reasoning (QA or QB) \_\_\_\_\_
- Intellectual Heritage 0851 or 0852 \_\_\_\_\_
- Writing Intensive Elective (Must be taken at Temple) \_\_\_\_\_
- Writing Intensive in Major (Must be taken at Temple) \_\_\_\_\_
- Foreign Language 2<sup>nd</sup> level\*\* \_\_\_\_\_
- Foreign Language 3<sup>rd</sup> level\*\* \_\_\_\_\_
- International Studies\*\* \_\_\_\_\_
- International Studies\*\* \_\_\_\_\_

\*\* **B.S.**

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

\*\* **B.A.**

2<sup>nd</sup> level of a language + 2 IS/GG or  
3<sup>rd</sup> level/ Exempt^ + 1 IS/GG

### Core-to-Core:

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

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

**B.A.**—Must follow the traditional core foreign language/IS/GG requirements