# Mathematics and Computer Science with Teaching 2012-2013

## Department of Computer & Information Sciences
303 Wachman Hall  215-204-8450

**Program Directors:**
- Dr. Tom Walker & Dr. Doug Baird

**Master Teacher/Faculty Advisor:**
- Dr. Herbert Green

**Content Advisors:**
- Dr. Boris Datskovsky (Math)
- Dr. Anthony Hughes (Computer Science)

**Academic Advisor:** Lisa Mathason
www.temple.edu/cis

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**CST Credit Requirements:**
- 124 minimum total credits
- 90 minimum CST/CLA credits
- 45 minimum upper-level (2000+) CST/CLA credits

**Backtracking rule:** Credit for courses 2 or more levels below previously completed coursework cannot be used towards the degree.

Admission to candidacy is required to complete this degree. This includes, but is not limited to, a 3.0 minimum GPA and a passing score in the PRAXIS I/PAPA Teacher Certification Exam.

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**The B.S. with Teaching in Mathematics & Computer Science provides broad training in Mathematics & Computer Science, and prepares students for a career in secondary school teaching. Please note: PA Certification requires passing scores in the PRAXIS I/PAPA and PRAXIS II Teacher Certification Exams.**

## Name:

## TUID:

**Recommended Sequence of Major Courses for Bachelor of Science:**

- Calculus I: Math 1041
- TUtCh Step 1: CST 1189
- Program Design & Abstraction: CIS 1068
- Calculus II: Math 1042
- Elementary Classical Physics I: Physics 1061
- TUtCh Step 2: CST 1289
- Data Structures: CIS 2168
- Schedule PAPA Exam
- Calculus III: Math 2043
- Elementary Classical Physics II: Physics 1062
- TUtCh Knowing and Learning: Ed 2179
- TUtCh Recommended: Special Ed 2231
- Linear Algebra: Math 2101
- Math Concepts in Computing: CIS 1166
- Comp Sys & Low-Level Prog: CIS 2107
- TUtCh Classrm Interact: Math or Sc Ed 2189
- Make an Appointment for Candidacy Review
- TUtCh Functions & Modeling: Math 2021
- Real & Complex Analysis I: Math 3137
- Theory of Numbers: Math 3003
- TUtCh Persp. On Science & Math: Phil 2196
- Data Structures & Algorithms: CIS 3223
- Real & Complex Analysis II: Math 3138
- Intro to Modern Algebra: Math 3096
- TUtCh Research Methods: Phys 3091
- TUtCh Diff Lit. Instr. in the Dis., 7-12: Sec Ed 3796
- Make an Appointment for a Graduation Review
- Intro Sys Programming & OS: CIS 3207
- Modern Geometry I: Math 3061
- TUtCh P.B.I: Math or Science Ed 4189
- Independent Research in CS: CIS 4397, or Math 3000+ Elective, or Sr Prob Solving: Math 4096
- TUtCh Apprentice Teaching: Ed 4388
- TUtCh Apprentice Teaching Sem: Ed 4802

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**Placement:** Math:  
**English:**  
**FL:**

**Notes:**
- Fall Only  
- Spring Only

Please check all pre- and co-requisites for courses before registering.

*Please refer to the online bulletin for elective course options.

The Undergraduate Bulletin is the official source for major requirements: www.temple.edu/bulletin.

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**Suggested Courses:**

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**Revised Date:**  
**Advisor Initials:**  

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**Revised Date:**  
**Advisor Initials:**  

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**Revised Date:**  
**Advisor Initials:**  

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**Revised Date:**  
**Advisor Initials:**  

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Notes:
## University Requirements 2012-2013

### Appropriate University Curriculum: Gen Ed Traditional Gen Ed 45+ Gen Ed-to-Gen Ed

### Gen Ed Curriculum

#### Gen Ed Traditional:
- □ Analytical Reading & Writing: Eng 0802
- □ Mosaic I: Intel Heritage 0851
- □ Mosaic II: Intel Heritage 0852
- □ US Society
- □ Human Behavior
- □ Arts
- □ Diversity and Race
- □ Global/World Society
- □ Quantitative Literacy
- □ Science and Technology
- □ Science and Technology

* May be waived based on major courses

#### Bachelor of Arts (BA) Only
- □ 2nd level of a Language

#### Gen Ed 45+ (45 or more transfer credits):
- □ Analytical Reading & Writing: Eng 0802
- □ Mosaic I or II: Intel Heritage 0851 or 0852
- □ US Society
- □ Human Behavior
- □ Arts
- □ Diversity and Race
- □ Global/World Society
- □ Quantitative Literacy
- □ Science and Technology

* 2 of the 3

#### Gen Ed-to-Gen Ed:
Transfer students with a pre-approved Associate’s degree from an institution that has an established transfer agreement with Temple have satisfied their GenEd requirements, with the following exception for BA students:

**Bachelor of Arts (BA) Only**
- □ 2nd level of a Language

#### Gen Ed online:
- [www.temple.edu/gened](http://www.temple.edu/gened)
- [www.temple.edu/vpus/transfer/TransferGenEd.htm](http://www.temple.edu/vpus/transfer/TransferGenEd.htm)

#### University Core:
Students who were admitted as freshmen prior to fall 2008, or were admitted as transfers prior to fall 2010, follow the University Core curriculum instead of the Gen Ed curriculum.

#### Undergraduate Bulletin:
The Undergraduate Bulletin is the official reference for University Requirements at:
- [www.temple.edu/bulletin](http://www.temple.edu/bulletin)

#### Note:
No more than two courses from the same department may be used to satisfy GenEd requirements. GenEd courses may not be used to satisfy major requirements.

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**Note:** Students must complete at least 2 Writing-Intensive (WI) courses within the major, to be taken at Temple. These must be specific courses or course combinations within the major, or electives required for the major. These courses must be taken at Temple University. Writing-Intensive courses are numbered XX96, XX97, or XX98