**TUteach**

**Mathematics & Computer Science with Teaching** 2016-2017

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<tr>
<th>Department of Computer &amp; Information Sciences</th>
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<td>304 Science Education &amp; Research Center 215-204-8450</td>
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**Content Advisors:** Dr. Boris Datskovsky & Dr. Maria Lorenz (Math), Dr. Anthony Hughes (Computer Science)

**Program Director:**
- Dr. Susan Varnum

**Master Teacher/Faculty Advisor:**
- Ms. Kathleen McKinley

**Academic Advisor:** Kenneth Ruff

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.

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### Name:

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

- ☐ Calculus I: Math 1038* or 1041 or 1941H _____
- ☐ Elementary Classical Physics I: Phys 1061 or 1961H OR General Physics I: Phys 2021 or 2921FH _____
- ☐ Program Design & Abstraction: CIS 1068 or 1968H __
- ☐ TUteach Step 1 & 2: SCTC 1389 _____
- ☐ Calculus II: Math 1042 or 1942H _____
- ☐ Elementary Classical Physics II: Phys 1062 or 1962H OR General Physics II: Phys 2022 or 2922 3H _____
- ☐ Math Concepts in Computing I: CIS 1166 or 1966H __
- ☐ Schedule PAPA Exam
- ☐ Data Structures: CIS 2168 _____
- ☐ Calculus III: Math 2043 or 2943H _____
- ☐ Linear Algebra: Math 2101 or 2103F ______
- ☐ TUteach Knowing and Learning: Ed 2179 _____
- ☐ Basic Concepts of Math: Math 2111 _____
- ☐ Comp Sys & Low-Level Prog: CIS 2107 _____
- ☐ TUteach Functions & Modeling: Math 2021s _____
- ☐ TUteach Special Ed 2231 _____

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<th>Placement: Math:</th>
<th>English:</th>
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**Notes:**

- F = Fall Only  S = Spring Only  H = Honors Students Only
- Please check all pre- and co-requisites for courses before registering.
- * Students who choose Math 1038 must also take the corresponding section of the linked course Math 1039.
- The Undergraduate Bulletin is the official source for major requirements: [http://bulletin.temple.edu](http://bulletin.temple.edu)

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<th>Suggested Courses:</th>
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**Office Use Only:** CR Path___________
### University Requirements 2016-2017

#### Appropriate University Curriculum:

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<th>Gen Ed Traditional</th>
<th>Gen Ed 45+</th>
<th>Gen Ed-to-Gen Ed</th>
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#### Gen Ed Curriculum

**Gen Ed Traditional:**
- □ Analytical Reading & Writing: Eng 0802
- □ Mosaic I: Intel Heritage (IH) 0851
- □ Mosaic II: Intel Heritage (IH) 0852
- □ US Society (GU)
- □ Human Behavior (GB)**
- □ Arts (GA)
- □ Diversity and Race (GD)
- □ Global/World Society (GG)
- □ Quantitative Literacy (GQ)**
- □ Science and Technology (GS)**

**Note:** Students who complete TTeach majors typically receive a waiver for 1 GB, 2 GS, and 1 GQ courses.

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

#### 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
- 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:
- [http://bulletin.temple.edu](http://bulletin.temple.edu)

**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.