TUteach
Mathematics & Technology with Teaching 2016-2017

Department of Mathematics
638 Wachman Hall  215-204-7841

Content Advisors: Dr. Boris Datskovsky & Dr. Maria Lorenz (Math) Dr. Dennis Silage (Engineering)

Program Director:
Dr. Susan Varnum

Master Teacher/Faculty Advisor:
Ms. Kathleen McKinley

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http://www.temple.edu/mathematics

The B.S. with Teaching in Mathematics & Technology provides broad training in Mathematics & Engineering, 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: __________________________

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.

Recommended Sequence of Major Courses for Bachelor of Science:

☐ Calculus I: Math 1038* or 1041 or 1941H ______
☐ Physics I: Phys 1061 or 1961H or 2021 or 2921H
OR General Chem I & lab: Chem 1031/1033 or 1951H/1953H ______
☐ TUteach Step 1 & 2: SCTC 1389 ______

☐ Calculus II: Math 1042 or 1942H ______
☐ Physics II: Phys 1062 or 1962H or 2022 or 2922S
OR General Chem II & lab: Chem 1032/1034 or 1952S/1954S ______
☐ Intro to Engineering: ENGR 1101 or 1901 ______

☐ Schedule PAPA Exam
☐ Linear Algebra: Math 2101 or 2103F ______
☐ Calculus III: Math 2043 or 2943H ______
☐ Engineering Graphics: ENGR 1117 ______
☐ TUteach Knowing and Learning: Ed 2179 ______

☐ Basic Concepts of Math: Math 2111 ______
☐ Probability Theory I: Math 3031 ______
☐ TUteach Functions & Modeling: Math 2021S ______
☐ TUteach Special Ed 2231 ______

☐ Make an Appointment for Candidacy Review
☐ Theory of Numbers: Math 3003 ______
☐ Real & Complex Analysis I: Math 3137F ______
☐ Engineering Concentration Elective**: ______
☐ TUteach Diff Lit. Instr. in the Dis., 7-12: Sec Ed 3796 ______
☐ TUteach Persp. On Science & Math: Phil 2196 OR History of Science: SCTC 3001 ______

☐ Real & Complex Analysis II: Math 3138S ______
☐ Intro to Modern Algebra: Math 3096 ______
☐ Engineering Concentration Elective**: ______
☐ TUteach Classrm Interact: MAES 2189 ______
☐ TUteach in the Classroom SCTC 3485 ______
☐ TUteach Research Methods: Bio/Chem/EES/Phys 3091S ______
☐ Make an Appointment for a Graduation Review

☐ Modern Geometry I: Math 3061F ______
☐ Math Elective: Math (3000+) ______
☐ Senior Problem Solving: Math 4096 ______
☐ TUteach Project-Based Instruction: MAES 4189F OR Integrating STEM Practice SCTC 4485 ______

☐ TUteach Apprentice Teaching: Ed 4388 ______
☐ TUteach Apprentice Teaching Sem: Ed 4802 ______

Placement: Math: ______________  English: ______________  FL: ______________

Suggested Courses: __________________________
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Notes: __________________________
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TUID: __________________________

Office Use Only: CR Path_________________

The Undergraduate Bulletin is the official source for elective course options. The Undergraduate Bulletin is the official source for major requirements: http://bulletin.temple.edu

Notes: * 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

**Please refer to the Undergraduate Bulletin for elective course options.
### University Requirements 2016-2017

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#### Gen Ed Curricular

**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)**____________
- □ Science and Technology (GS)**____________

**Note:** Students who complete TUteach 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

**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.

Date: __________ Date: __________

Advisor: __________ Advisor: __________

Student: __________ Student: __________

Date: __________ Date: __________

Advisor: __________ Advisor: __________

Student: __________ Student: __________

**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.