

Bachelor of Arts Degree Mathematics Major 2005-2006

Department of Mathematics

638 Wachman Hall
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Chairperson: Dr. Omar Hijab
Faculty Advisor: Dr. Boris Datskovsky
<http://math.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
- Minimum of 2 courses numbered 100 or above in the College of Liberal Arts (CLA) _____ _____
- The following requirements for the Mathematics Major:

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

First Year

- Calculus I (Math C085 or H095) ♦
- Calculus II (Math 0086 or H096) ♦
- Programming (CIS C061, 0067, 0068, or C071) ♦

Second Year

- Calculus III (Math 0127) [prereq: Math 0086 w/ "C" or better]
- Basic Mathematical Concepts (Math W141) **must be taken before Math W205 or 0247 [prereq: Math C085 & 0086 **or** Math Elective (200+) **or** choose from list below*♦
- Linear Algebra (Math 0147) [prereq: Math C085, 0086]
- Differential Equations I (Math 0251) [prereq: Math 0086 w/ "C" or better; co-req: Math 0127]

Third Year

- Modern Algebra (Math W205) [prereq: Math 0147 or 0148]
- Advanced Calculus I (Math 0247) [prereq: Math 0127]
- Advanced Calculus II (Math 0248) [prereq: Math 0247]
- Topics in Modern Algebra (Math 0305) [prereq: Math W205]

Fourth Year

- Senior Problem Solving (Math W363) [prereq: Math W141 or W205, & 0248]
- Intro to Functions of a Complex Variable (Math 0347) [prereq: Math 0247, 0248]
- Topology (Math 0365) [prereq: Math 0247, 0248] or Differential Geometry (Math 0377) [prereq: Math 0127]
- Math Elective (200+) or choose from list below*♦

***Actuarial Science** 0305, 0306, **Chem** 0231, 0232, **CIS** 0211, 0242, **Econ** 0241, **Physics** 0187, 0188, 0201, 0202, 0211, 0231, 0306
♦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 C050 _____
- American Culture _____
- The Arts _____
- Individual and Society _____
- Studies in Race _____
- Foreign Language 2nd level _____*
- Foreign Language 3rd level _____*
- International Studies _____*
- International Studies (non western) _____*
- Science and Technology (SA) _____
- Science and Technology (SB) _____
- Quantitative Reasoning (QA) _____
- Quantitative Reasoning (QB) _____
- 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.A.

- 2nd level of a language + 2 IS (1 non western) or
- 3rd level/ Exempt[^] + 1 IS

Core 45 +

For students receiving 45 credits or more in transfer.

- English C050 _____
- American Culture _____
- The Arts _____
- Individual and Society _____
- Studies in Race _____
- Science and Technology (SA or SB) _____
- Quantitative Reasoning (QA or QB) _____
- Intellectual Heritage X051 or X052 _____
- Writing Intensive Elective (Must be taken at Temple) _____
- Writing Intensive in Major (Must be taken at Temple) _____
- Foreign Language 2nd level* _____
- Foreign Language 3rd level* _____
- International Studies* _____
- International Studies (non western)* _____

*B.A.

- 2nd level of a language + 2 IS (1 non western) or
- 3rd level/ Exempt[^] + 1 IS

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

Core to Core

B.A. follow traditional core foreign language/IS requirement

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

Library Skills (TILT) www.library.temple.edu
(Must be taken in order to graduate)

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