

Mathematics B.S. Degree Check Sheet (UTeach)

Course Number	Course Name	Prerequisites	Semesters Offered	≥ C
MATH 2325	Functions & Modeling	2413	Fall	<input type="checkbox"/>
MATH 2413/2113	Calculus I / Lab	1314 or 1316	Fall, Spring, Summer	<input type="checkbox"/>
MATH 2414/2114	Calculus II / Lab	2413	Fall, Spring, Summer	<input type="checkbox"/>
MATH 3404/3104	Multivariate Calculus / Lab	2414	Fall, Spring	<input type="checkbox"/>
MATH 3305	Ordinary Differential Equations	2414	Fall, Spring	<input type="checkbox"/>
MATH 3380	Algorithms in Applied Mathematics	2414	Spring	<input type="checkbox"/>
MATH 3425	Foundations of Mathematics	2414	Fall, Spring	<input type="checkbox"/>
MATH 3315	Linear Algebra and Matrix Theory	2414, 3425	Fall	<input type="checkbox"/>
MATH 3336	Abstract Algebra I	3425	Spring	<input type="checkbox"/>
MATH 3345	Analysis I	3425	Fall	<input type="checkbox"/>
MATH 3365	Geometric Systems	3425	Spring	<input type="checkbox"/>
MATH 3373	Applied Math I	3305, 3315, 3425	Spring	<input type="checkbox"/>
MATH 4350	Probability Theory	3425	Fall	<input type="checkbox"/>
MATH 4160	Senior Seminar I	Must be taken in final year.	Fall, Spring	<input type="checkbox"/>
MATH 4161	Senior Seminar II	4160	Fall, Spring	<input type="checkbox"/>

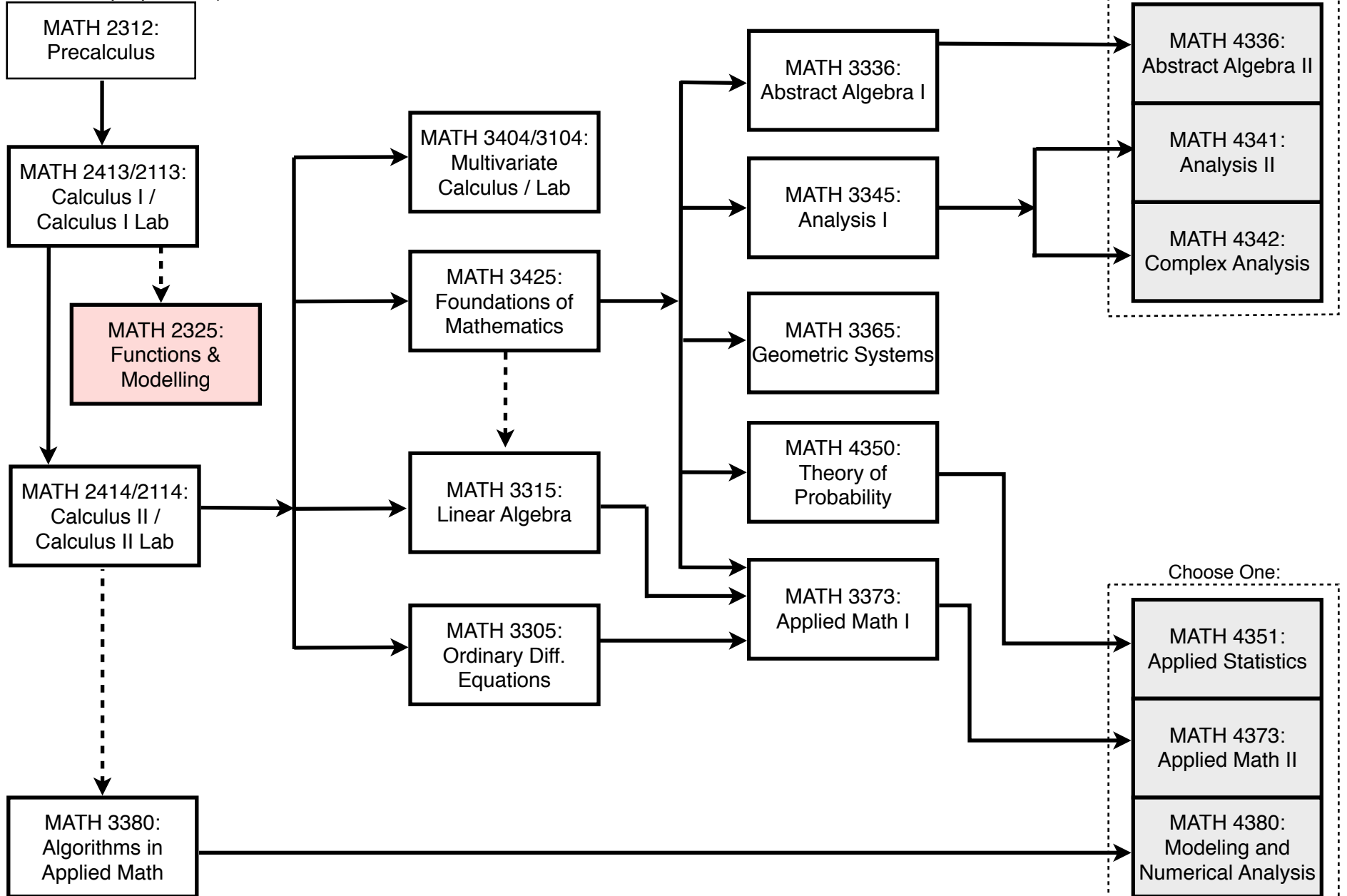
In addition, you must take at least two courses from the following. One must be from the first block of three courses, one must be from the last block of three courses.

Block	Course Number	Course Name	Prerequisites	Semesters Offered	≥ C
Pure	MATH 4336	Abstract Algebra II	3336	Fall	<input type="checkbox"/>
	MATH 4341	Analysis II	3345	Spring (odd)	<input type="checkbox"/>
	MATH 4342	Introduction to Complex Analysis	3345	Spring (even)	<input type="checkbox"/>
Applied	MATH 4351	Applied Statistics	4350	Spring	<input type="checkbox"/>
	MATH 4373	Applied Math II	3373	Fall (odd)	<input type="checkbox"/>
	MATH 4380	Modeling and Numerical Analysis	3380	Fall (even)	<input type="checkbox"/>

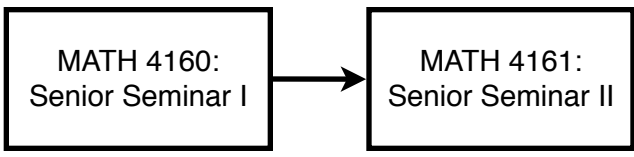
Note: Summer courses must meet a minimum enrollment (~10 students) in order to be offered.

Mathematics BS with UTeach Flowchart

(If needed for preparation)



Prerequisite \longrightarrow
 Pre- or Corequisite $- - - \longrightarrow$



Math Major Core Curriculum Check Sheet

Discipline	Choose From	Hours Required	C or Better
English	ENGL 1301, ENGL 1302	6	<input type="checkbox"/>
World/European Literature	ENGL 2322, ENGL 2323, ENGL 2362, ENGL 2363	3	<input type="checkbox"/>
Humanities	PHIL 1301, PHIL 2306, ENGL 2310, ENGL 2350, ENGL 2322, ENGL 2323, ENGL 2362, ENGL 2363, SPCM 1315	3	<input type="checkbox"/>
Social and Behavioral Sciences	ANTH 2346, ECON 1301, ECON 2301, ECON 2302, GEOG 1313, HIST 2321, HIST 2322, JOUR 2307, PSYC 1301, PSYC 1349, SOCI 1301, SOCI 1306	3	<input type="checkbox"/>
Arts	ART 1301, ART 2303, ART 2304, MUSI 1306, THTR 1301, THTR 1356	3	<input type="checkbox"/>
History	HIST 1301, HIST 1302	6	<input type="checkbox"/>
Government	POLS 2305, POLS 2306	6	<input type="checkbox"/>
Lab Science	CHEM 1311/1111, CHEM 1312/1112, PHYS 2325/2125, PHYS 2326/2126, BIOL 1306/1106, BIOL 1307/1107	8	<input type="checkbox"/>
Mathematics	MATH 2413, MATH 2414	6	<input type="checkbox"/>

Core Curriculum Notes:

- (1) Students transferring to UT Tyler as “core complete” do not have to satisfy the core curriculum requirements.
- (2) In the Mathematics category, there are several other options for students who are not math majors (such as college algebra, statistics, trigonometry, etc), but **math majors must take MATH 2413 and MATH 2414.**
- (3) Students planning to focus on applied mathematics are encouraged to take PHYS 2325/2125; PHYS 2326/2126 for their Lab Science.

The University of Texas at Tyler
 College of Education and Psychology
 School of Education

UTeach Course Sequence Chemistry, Computer Science, Life Science or Mathematics Grades 8-12

Year 1	Course Number	Hours
Step 1 – Inquiry Approaches to Teaching	EDUT 1170	1
Step 2 - Inquiry Based Lesson Design	EDUT 2170	1
TOTAL		2

Year 2	Course Number	Hours
Knowing and Learning in Mathematics and Science	EDUT 3370	3
(Perspectives)	HIST 3360/PHIL3360	3
TOTAL		6

Year 3	Course Number	Hours
Classroom Interactions	EDUT 3371	3
(Research Methods)	BIOL 3360/CHEM 3360/PHYS 3360	3
TOTAL		6

Year 4	Course Number	Hours
Project-Based Instruction	EDUT 4370	3
Student Teaching	EDUC 4640	6
Apprentice Teaching Seminar	EDUT 4170	1
TOTAL		10

TOTAL HOURS		24
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