

Honors Math Education Track Requirements

This requires an ASC Honors contract

Part A: Required Prerequisites

Math 1151*	Calculus I*	5
Math 1152*	Calculus II*	5

Choose **ONE** of the following three:

CSE 1222	Introduction to Computer Programming in C++ for Engineers and Scientists	3
CSE 1223	Introduction to Computer Programming in Java	3
CSE 2221	Software I: Software Components	3

Part B: Major Program (Minimum grade of C- and GPA of 2.0)

Core Requirements -- At most 2 of the following Honors math can count toward the "5 Honors eligible courses":

Math 2153* or 2182H*	Calculus III* or Honors Calculus II*	Prereq: Math 1152 or 1181H	4-5
Math 2568* or 2568H	Linear Algebra*	Prereq: Math 2153	3
Math 3345* or 3345H	Foundations of Higher Mathematics*	Prereq: Math 2153	3

Core Requirements

Math 4530 or Stat 4201	Probability or Introduction to Mathematical Statistics I	Prereq: Math 2153	<u>3-4</u>
Stat 4202	Introduction to Mathematical Statistics II	Prereq: Math 4530 or Stat 4201	4

Optional

Math 2255	Differential Equations and Their Applications	Prereq: Math 2153	3
OR Math 5520H	Honors Linear Algebra and Differential Equations	Prereq: Math 4182H or (Math 2182H & 3345)	5

Required Courses -- At least one of the **sequences** must be **Honors**

Math 4547 & 4548	Introductory Analysis I & II	Prereq: Math 3345	3,3	
OR Math 4181H & 4182H	Honors Analysis I & II	Prereq: Permission	5,5	
Math 4580* & 4581	Abstract Algebra I* & II	Prereq: Math 2568 & 3345	3,3	
OR Math 5590H & 5591H	Honors Abstract Algebra I & II	Prereq: Math 5520H	5,5	
Math 4504*	History of Mathematics*	Prereq: Math 2568	3	
Math 4507*	Geometry*	Prereq: Math 2568 & 3345	3	
Math 4578*	Discrete Mathematical Models*	Prereq: Math 2568 & 4530	4	
Note: Honors math eligible courses are bolded.			Total Hours	43-54

*Math courses required for admissions into the OSU MEd program

Additional courses required for admissions to the MEd program

ESEPSY 5401 or Psych 3551	Adolescent Learning/Development	3
EDUTL 5442	Teaching Reading Across the Curriculum	3
ESSPED 5650	Intro to Exceptional Children	3

Honors Math Education Track Sample Schedule

	Autumn		Spring		
Year 1	Math 1181H	5	Math 2182H	5	
	ARTSSCI 1100.01	1	Math 3345 or 3345H	3-5	
	CSE 1222, 1223 or 2221	3	English 1110	3	
	GE	3	GE	3	
	GE	3			
		15		14-16	
Year 2	Math 4547 or Math 4181H	3-5	Math 4548 or Math 4182H	3-5	
	<u>Math 4530</u> or Stat 4201	3-4	Stat 4202	3	
	GE	3	GE	3	
	GE	3	GE	3	
			12-15		12-14
Year 3	Math 2568 or Math 2568H	3	Math 4504 (SP only)	3	
	Math 2255 or Math 5520H	3-5	GE	3	
	GE	3	GE	3	
	GE	3	GE	3	
			12-14		12
Year 4	Math 4580 or Math 5590H	3-5	Math 4581 or Math 5591H	3-5	
	Math 4507 (AU only)	3	Math 4578 (SP only)	4	
	GE	3	GE	3	
			9-11		10-12

Additional hours may be necessary depending on course selection.

ASC Honors Contract: Students pursuing such a contract must complete at least "**5 honors math eligible courses**" selected in consultation with an honors math advisor. At most 2 courses can count from 2182H, 2568H, or 3345H. For the remaining 3 courses, one needs to complete one of the listed sequences available for each track, and select another course from a list of approved courses at the 4000-5000 level (see honors math advisor).