THE OHIO STATE UNIVERSITY

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# Math Honors Track 1 Requirements

## This does NOT require ASC GE Honors

**Part A: Required Prerequisites**

| | | |
|---|---|---|
| Math 1181H | Honors Calculus I | 5 |

| **Part B: Major Program (Minimum grade of B- and math GPA of 3.2)** | | | |
|---|---|---|---|
| ***Honors Track Requirements:*** | ***The Math 4181H & 4182H sequence plus at least four from eight 5000H- level math courses:*** | | |
| Math 2182H | Honors Calculus II | Prereq: Math 1181H | 5 |
| Math 3345 or 3345H | Foundations of Higher Mathematics | Prereq: Math 2182H | 3 |
| Math 4530 or Stat 4201 | Probability or Intro to Mathematical Statistics I | Prereq: Math 2153 or 2182H | 3-4 |
| ***OR Math 5530H*** | ***Honors Probability*** | **Prereq: Math 5529H** | 5 |
| Stat 4202 | Intro to Mathematical Statistics II | Prereq: Math 4530 or Stat 4201 | 4 |
| | | | |
| Math 2568 | Linear Algebra | Prereq: Math 2153 | 3 |
| Math 2255 | Differential Equations and Their Applications | Prereq: Math 2153 | 3 |
| **OR Math 5520H** | Honors Linear Algebra & Differential Equations | Prereq: Math 4182H | 5 |
| | | | |
| | | | |
| **Math 4181H & 4182H** | **Honors Analysis I & II** | Prereq: by permission | 5,5 |
| | | | |
| Math 4580 & 4581 | Abstract Algebra | Prereq: Math 2568 & 3345 | 3,3 |
| **OR Math 5590H & 5591H** | **Honors Abstract Algebra I & II** | Prereq: Math 5520H | **5,5** |
| | | | |
| **Minimum two electives (either regular or honors courses):** | | | |
| **Math 5522H** | **Honors Complex Analysis** | Prereq: Math 5520H | **5** |
| ***Math 5529H*** | ***Honors Combinatorics*** | Prereq: Math 4182H | **5** |
| ***Math 5540H*** | ***Honors Differential Geometry*** | Prereq: Math 5520H | **5** |
| ***Math 5576H*** | ***Honors Number Theory*** | Prereq: Math 4182H | **5** |
| | | **Total Hours** | **48-54** |

***NOTE: permission for taking Math 3345/3345H concurrent with Math 2182H ONLY for those who get an A in Math 1181H.**

Revised 07/08/2025

Math Honors Track Sample Schedule : start in Math 1181H

| | Autumn | | Spring | |
|---|---|---|---|---|
| **Year 1 Even AU/Odd SP** | Math 1181H (AU only) | 5 | **Math 2182H** (SP only) | **5** |
| | ARTSSCI 1110.01 | 1 | ***Math 3345/3345H (SP only)** | **3** |
| | GE | 3 | English 1110 | 3 |
| | GE | 3 | GE | 3 |
| | GE | 3 | | |
| | | 15 | | 14 |
| Year 2 odd AU/even SP | **Math 4181H (AU only)** | **5** | **Math 4182H (SP only)** | **5** |
| | ***Math 5576H (odd AU only)*** | **5** | GE Language 1102 | 4 |
| | GE Language 1101 | 4 | GE | 3 |
| | GE | 3 | GE | 3 |
| | | 17 | | 15 |
| Year 3 even AU/odd SP | **Math 5520H (AU only)** | **5** | **Math 5522H (SP only)** | **5** |
| | ***Math 5529H (even AU only)*** | **5** | ***Math 5530H (odd SP only)*** | **5** |
| | GE | 3 | GE Language 1103 | 4 |
| | GE | 3 | GE | 3 |
| | | 16 | | 17 |
| Year 4 odd AU/even SP | **Math 5590H (AU only)** | **5** | **Math 5591 (SP only)** | **5** |
| | Stat 4202 | 4 | ***Math 5540H (even SP only)*** | 5 |
| | GE | 3 | GE | 3 |
| | GE | 3 | GE | 3 |
| | | 15 | | 16 |

| | Autumn | | Spring | |
|---|---|---|---|---|
| **Year 1 Odd AU/Even SP** | Math 1181H (AU only) | 5 | **Math 2182H** (SP only) | **5** |
| | ARTSSCI 1110.01 | 1 | ***Math 3345/3345H (SP only)** | **3** |
| | GE | 3 | English 1110 | 3 |
| | GE | 3 | GE | 3 |
| | GE | 3 | | |
| | | 15 | | 14 |
| Year 2 even AU/odd SP | **Math 4181H (AU only)** | **5** | **Math 4182H (SP only)** | **5** |
| | ***Math 5529H (even AU only)*** | **5** | ***Math 5530H (odd SP only)*** | **5** |
| | GE Language 1101 | 4 | GE Language 1102 | 4 |
| | GE | 3 | GE | 3 |
| | | 17 | | 17 |
| Year 3 odd AU/even SP | **Math 5520H (AU only)** | **5** | **Math 5522H (SP only)** | **5** |
| | ***Math 5576H (odd AU only)*** | **5** | ***Math 5540H (even SP only)*** | **5** |
| | Stat 4202 | 4 | GE Language 1103 | 4 |
| | GE | 3 | GE | 3 |
| | | 17 | | 17 |
| Year 4 even AU/odd SP | **Math 5590H (AU only)** | 5 | **Math 5591 (SP only)** | 5 |
| | GE | 3 | GE | 3 |
| | GE | 3 | GE | 3 |
| | GE | 3 | GE | 3 |
| | | 14 | | 14 |

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