

Mathematics Major Requirements

<p><u>Core Courses</u></p> <p>CSCI 100: Scientific Computing (or CSCI 110) MATH 111: Calculus I (or Math 108) MATH 112: Calculus II MATH 211: Linear Algebra MATH 212: Multivariate Calculus MATH 215: Transition to Advanced Mathematics MATH 451/452: Senior Independent Study</p>
<p><u>Elective Courses</u></p> <p>Five full-credit MATH courses above 215* For class of 2020 & 2021, these must include at least two 3xx</p>

* DATA 231 and DATA 325 may count toward the five electives

<p>Mathematics Minor</p> <p>MATH 111 (or 108), MATH 112, MATH 211, and three other full-credit MATH courses above 211*</p>

* DATA 231 and DATA 325 may count toward the three electives

<p><u>Offered EVERY semester</u></p> <p>MATH 111: Calculus I (or take MATH 107 fall & MATH 108 spring)</p> <p>MATH 112: Calculus II MATH 211: Linear Algebra MATH 212: Multivariate Calculus MATH 215: Transition to Advanced Mathematics</p> <p>CSCI 100: Scientific Computing CSCI 110: Imperative Problem Solving</p>	
<p style="text-align: center;"><u>FALL only</u></p> <p>MATH 221: Differential Equations DATA 231: Applied Stat Methods[#] MATH 227: Operations Research MATH 329: Probability & Statistics II* MATH 334: Abstract Algebra</p> <p>[#]Offered every fall starting F2020 [*]Offered fall of odd years only</p>	<p style="text-align: center;"><u>SPRING only</u></p> <p>MATH 223: Combinatorics and Graph Theory[#] MATH 229: Probability & Statistics I DATA 325: Applied Data Science^{§@} MATH 327: Numerical Analysis[%] MATH 330: Topology^{**} MATH 332: Real Analysis MATH 336: Functions of Complex Variables^{**}</p> <p>[#]Offered F2019, then spring of odd years (S2021, S2023) [§]Equivalent to old MATH 225 (Math Modeling) [@]Intended primarily for juniors [%]Offered spring of even years only (S2020, S2022) ^{**}Offered periodically on an as-needed basis.</p>

- Mathematics majors may not double major in Statistical and Data Sciences, but may minor in it.
- Statistical and Data Sciences majors may minor in math, but extra math courses are required.
- A score of 3+ on the AP Calculus AB exam (or 3+ AB subscore on the BC exam) gives MATH 111 credit.
- A score of 4+ on the AP Calculus BC exam gives credit for both MATH 111 and MATH 112.

Mathematics Major Prerequisites

