|  |  |  |
| --- | --- | --- |
| **Mathematics and Statistics - MTH** | | |
| **Placement exams and other placement tools** | Mathematics and Statistics does not offer a placement exam. Guidelines will be given during Conversations. | |
| **AP credit** | Placement: In general, a student who has a score of 4 or 5 on the AB Calculus Examination may enter MTH 112, 153 or 220. A student with a 4 or 5 on the BC examination may enter MTH 211, 212, 153, or 220, among others.  Degree credits (subject to College guidelines): A student who receives credit for taking MTH 111 cannot apply AP Calculus credits toward her degree. A student with 8 AP Calculus credits (available to students with a 4 or 5 on the AP Exam for BC Calculus) may apply only 4 of them if she also receives credit for MTH 112. | |
| **Courses appropriate for entering first-year students** | Preparation | Courses (f=Fall,s=Spring) |
| Less than 3 yrs HS math (Or some Adas) | * 101f: Math Skills Studio (permission only) |
| No prerequisites  (3 years HS math) | * 102f: Elementary Functions * 105: Discovering Mathematics   (not offered in 2021-22) |
| Precalculus or equiv.  (4 years HS math) | * 111f,s: Calculus I |
| AP AB Calc or equivalent  or IB math SL  or A levels | * 112f,s: Calculus II * 153f,s: Discrete Mathematics * SDS 220f,s: Introduction to Probability and Statistics |
| AP BC calc or equivalent  or IB math HL | * 211f,s: Linear Algebra * 212f,s: Multivariable calculus * Other courses, including 153f,s and SDS 220f,s |
| 4 or 5 on AP statistics or equivalent  (see SDS for guidelines) | * SDS 291f,s: Multiple Regression * SDS 290s: Research Design and Analysis |
| **Courses for non-majors** | MTH 101, 102, 105 are courses accessible to all. Students are also encouraged to take other courses. | |
| **Additional Information** | Department website <https://www.smith.edu/academics/mathematics-statistics>  (in particular “Choosing your First Course”) | |
| **Dept. Advising Liaison** | Christophe Golé [cgole@smith.edu](mailto:cgole@smith.edu) | |