## STATISTICS AND MATH COURSE PREP

Many programs will have a statistics or mathematics requirement. If you're taking Business, Economics, Science, Physics, or Computer Science you will have additional math course requirements. To prepare for these courses, you can explore the Khan Academy links below. If you're not sure about your program requirements, review Brock's web course calendar or contact your program Academic Advisor. A-Z Learning Services also offers prep courses like BU101 in August that you can take and offer Drop-In Assignment support throughout the year. (Currently online. See Experience BU for drop-in dates and times.)

| Topic | Concept | Details | Khan Academy Link |
| :---: | :---: | :---: | :---: |
| Introduction to Statistics |  | For a complete review of Statistics. | https://www.khanacademy.org/ma th/statistics-probability |
| Relevant for <br> First-Year <br> Statistics <br> Courses | 1. Quantitative Data | Topic includes lessons on Measures of Centre and Measures of Variation. | https://www.khanacademy.org/ma th/statistics-probability/summarizing-quantitative-data |
|  | 2. Probability | Topic includes lessons on Theoretical \& Experimental Probability, Sample Spaces, and Independent versus Dependent Events. | https://www.khanacademy.org/ma th/statistics-probability/probability-library |
|  | 3. Permutation \& Combination | Topic includes lessons on Factorials, Permutations, Combinations, and Probability Counting. | https://www.khanacademy.org/ma th/statistics-probability/counting-permutations-and-combinations |
|  | 4. Modeling Data Distributions | Topic includes lessons on Percentiles, Z-scores, and Normal Distributions. | https://www.khanacademy.org/ma th/statistics-probability/modeling-distributions-of-data |
|  | 5. Idea of Significance Tests (first section of unit only) | Topic includes lessons on Simple Hypothesis Testing, Null and Alternative Hypotheses, and P-values. | https://www.khanacademy.org/ma th/statistics- <br> probability/significance-tests-one- <br> sample\#idea-of-significance-tests |

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$\left.\begin{array}{|l|l|l|l|l|}\hline \begin{array}{l}\text { Mathematics } \\ \text { Review }\end{array} & \text { Algebra and Functions } & \text { For a complete review of Algebra and Functions. } & \begin{array}{l}\text { Basic: } \\ \text { https://www.khanacademy.org/ma } \\ \text { th/algebra } \\ \text { Advanced: }\end{array} \\ \text { https://www.khanacademy.org/ma } \\ \text { th/algebra2 }\end{array}\right]$

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|  7. Rational Functions Topic includes lessons on Simplifying Rational <br> Expressions, Asymptotes, and Graphing Rational <br> Functions. https://www.khanacademy.org/ma <br> th/algebra2/x2ec2f6f830c9fb89:rat <br> ional <br>  8. Trigonometry Topic includes lessons on Trigonometric Ratios, SOH CAH <br> TOA, and Pythagorean Theorem. https://www.khanacademy.org/ma <br> th/trigonometry/trigonometry- <br> right-triangles <br>  9. Composite Functions <br> (first section of unit <br> only) Topic includes lessons on Finding Composite Functions <br> and Evaluating Composite Functions. https://www.khanacademy.org/ma <br> th/precalculus/x9e81a4f98389efdf: <br> composite\#x9e81a4f98389efdf:co <br> mposing |
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