

CS&SS Math Camp 2019

September 9-13, 2019

Welcome!

Instructor: Jessica Godwin, MS (PhD Student, Statistics)

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Teaching Assistant: Emily Finchum (PhD Student, Public Policy and Management)

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Website: <https://www.csss.washington.edu/academics/math-camp>

Lecture Location: TBD

Lab Location: TBD

Time: 9am – 3pm (3-4pm optional)

Curriculum Overview:

Day 1:

- Algebra and geometry review
- Functions
- Matrix algebra

Day 2:

- Differential calculus
- Integral calculus

Day 3:

- Introduction to probability
- Probability density functions

Day 4:

- Discrete distributions
- Continuous distributions

Day 5:

- Introduction to statistics & maximum likelihood
- Course review

Daily Schedule:

9:00-9:30 Review of previous day's problems and material (Day 1: intro/overview)

9:30-10:15 Lecture

10:15-10:45 Practice Problems

10:45-11:00 Break

11:00-11:45 Lecture

11:45-12:15 Practice Problems

12:15-1:30 Lunch

1:30-3:00 Introduction to Statistical Computing

3:00-4:00 **OPTIONAL:** Problem solving session with closer guidance