

STAT 5702 – Modern Applied and Computational Statistics Fall 2021

Instructor: Professor Dave Campbell

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Course Schedule:

Tuesdays and Thursdays: 1:05 pm - 2:25 pm

Office hours: immediately after class.

Grading:

Assignments 50%

Projects 2 x 25%

There will not be a final exam

In order to pass the course you must obtain a cumulative mark of at least 50% and no less than 40% on any one of the above components.

Approximate Course Outline:

Week 1-2: Reproducible research, t-sne, basics of simulation

Week 3: Bootstrap

Week 4: Jack Knife

Week 5: Permutation Tests

Week 6: Text acquisition and manipulation

Week 7: Text cleaning and tokenization

Week 8: Topic Modelling

Week 9: Word Embeddings

Week 10: Smoothing

Week 11-12: Functional Regression Models

Week 13: Student presentations