RWFM 662

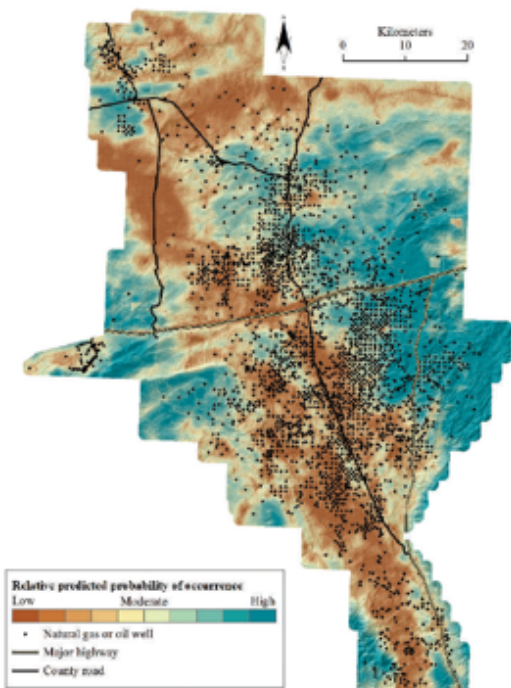# QUANTITATIVE METHODS FOR NATURAL RESOURCES

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TEXAS A&M UNIVERSITY
Rangeland, Wildlife
& Fisheries Management

This in-person (3 hr) course will provide foundational quantitative principles and methods applied to natural resources management. Students will learn how to design field research projects with applied outcomes, how to balance multiple objectives, and how the data and associated analyses impact the applied use of research results. Course objectives will be met through review of principles and methods, in-class discussions, reading assignments, class presentations, and written book reviews.

COURSE TOPICS

- **Sampling and experimental design**
- **Data types and analyses**
- **Hypothesis testing, estimation, and prediction**
- **Use of GIS and remote sensing**
- **Species-habitat associations**
- **Animal movement**
- **Population ecology and dynamics**
- **Occupancy analysis**
- **Biodiversity assessment**

Interested in learning more?

Dr. Stephen Webb
stephen.webb@ag.tamu.edu