

# Analysis of Liquid Biofuels

BOT 5110.364 (2 credits, days/time TBA)

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For nearly a century, the world has relied almost entirely on petroleum as a source for liquid fuels for transportation. Biofuels are one potential substitute for oil that also should reduce CO<sub>2</sub> emissions. Emphasis will be group discussions and reviews of the literature, culminating in written reports that compare the life cycle pros/cons of selected types of biofuels (e.g., ethanol vs. biodiesel) and feedstocks (e.g., cellulose from plants such as switchgrass vs. oils from algae). For diverse perspectives and expertise, students spanning the natural/social sciences and engineering are welcome.

