

BISC-869, Quantitative Methods, Spring 2022

Time/Location: Tues, 10:30–12:30, BLU 10031
Wed, 10:30–12:30, B9242 (except March 30 in B8271)
Click [here](#) to connect via Zoom

Instructor: Dr. Leithen M’Gonigle
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Office Hours: By appointment

Course Website: <https://www.sfu.ca/~lmgonigl/qm.html>

Grade Breakdown

Assignments	50%
Presenting a talk on a topic/paper	20%
Participation / Moderating a discussion on a topic/paper	30%

Tentative Schedule

Week	Dates	Topic
1	Jan 18	Introduction / Course overview / Introduction to R
	19	Workshop: Introduction to R
2	25	Graphics
	26	Workshop: Displaying data
3	Feb 1	Experimental design
	2	Workshop: Experimental design
4	8	Linear models
	9	Workshop: Linear models
5	15	Mixed-effects models
	16	Workshop: Linear mixed-effects models
	22	Reading week
	23	
6	Mar 1	Likelihood
	2	Workshop: Likelihood
7	8	Generalized linear models
	9	Workshop: Generalized linear models
8	15	Model selection
	16	Workshop: Model selection
9	22	Bootstrap
	23	Workshop: Bootstrap
10	29	Bayesian methods
	30	Workshop: Bayesian methods
11	Apr 5	Mark-recapture models
	6	Workshop: Introduction to JAGS, Mark-recapture