

BISC-869, Quantitative Methods, Spring, 2026

Time/Location: Wed, 09:00–11:00, AQ 5014
Wed, 12:00–14:00, Shrum B8218

Instructor: Dr. Leithen M'Gonigle
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Office Location: Shrum Biology B8273
Office Hours: By appointment

Course Website: <https://www.sfu.ca/biology/faculty/M'Gonigle/qm.html>

Grade Breakdown

Assignments	50%
Presenting a talk on a topic/paper	20%
Moderating a discussion on a topic/paper	20%
Participation	10%

Tentative Schedule

Week	Dates	Topic
1	Jan 14	Introduction / Course overview / Introduction to R
		Workshop: Introduction to R
2	Jan 21	Graphics
		Workshop: Displaying data
3	Jan 28	Experimental design
		Workshop: Experimental design
4	Feb 4	Linear models
		Workshop: Linear models
5	Feb 11	Mixed-effects models
		Workshop: Linear mixed-effects models
6	Feb 25	Likelihood
		Workshop: Likelihood
7	Mar 4	Generalized linear models
		Workshop: Generalized linear models
8	Mar 11	Model selection
		Workshop: Model selection
9	Mar 18	Bootstrap
		Workshop: Bootstrap
10	Mar 25	Bayesian methods
		Workshop: Bayesian methods
11	Apr 1	TBD
		Workshop: TBD
12	Apr 8	TBD
		Workshop: TBD