FISH 552 Introduction to R programming

Course overview
Tuesday and Thursday 9:30-11:20pm, room FISH 136 (maximum class size 24). Ten combined lecture/labs from 26 September to 29 October. Followed immediately by 10 lectures of FISH 553 Advanced R Programming.

Instructor: Trevor A. Branch, tbranch@uw.edu, office: FISH 322B.

Teaching assistant: Peter Kuriyama, ptrkrym@uw.edu

Learning objectives
An introduction to the statistical computing language R for graduate students with no prior background in R or programming.

Required readings
Course handouts and lectures. No required textbook, but students may find it useful to borrow a copy of "Getting started with R: an introduction for biologists" by Beckerman and Petchey.

Evaluation and grading
Credit/no credit, 2 credits. Credit awarded based on the completion of all assigned weekly homework exercises, which will average 4 hours per week.

Course schedule
Lecture 1. Why use R? The Rstudio editor
Lecture 2. Working with data I
Lecture 3. Working with data II
Lecture 4. Introduction to plotting
Lecture 5. Data manipulation I
Lecture 6. Data manipulation II
Lecture 7. Data manipulation: An example
Lecture 8. R as a statistical platform
Lecture 9. Linear models
Lecture 10. Organization and saving data