**Brief Syllabus**

***Day 1–August 28. Introductions and biodiversity***

9.00-10.00. (Jon) Introduction to course

10.00-12.00. Introductions

12.00-13.30 Lunch

13.30-14.00 (Jon) Introduction to ‘Field work’

14.00-17.00 Field data collection, summarize data for presentation tomorrow

***Day 2–August 29. Biodiversity definitions and measurements***

9.00-11.00. Discussion of biodiversity data and analysis

11.00-12.00 (Jon). Lecture: Measuring and comparing biodiversity

12.00-13.30 Lunch

13.30-14.00. (Jon) Introduction to “lab” experiment. Measuring scale-dependent effect sizes

14.00-16.00. Data collection on lab experiment.

16.00-17.00. Discussion about lab results

***Day 3–August 30. Comparing biodiversity within and across studies (synthesis)***

9.00-12.00. (Shane) Computer lab: Biodiversity measurements and metrics

12.00-14.00. Lunch

14.00-15.00. (Jon) Lecture: ‘Biodiversity Synthesis’

15.00-16.00. Find and summarize a biodiversity synthesis

16.00-17.00. Group discussion

***Day 4–August 31. How to ask questions and develop hypotheses for biodiversity synthesis***

9.00-11.00 (Shane) Computer lab–Meta-analysis and its limitations; towards some solutions

11.00-12.00 (Jon) Lecture on questions and hypotheses

12.00-13.30 Lunch

13.30-14.30 (Jon) Lecture: Examples of biodiversity syntheses (questions, hypotheses)

14.30-16.30 (Minghua). Computer lab–literature search for synthesis

16.30-17.00 (Jon) Introduce task for tomorrow (group projects)

***Day 5–September 1. Putting it all together***

9.00-9.30. (Jon). Overview of group projects (proposal preparation)

9.30-12.00. Work on proposal

12.00-13.30. Lunch

13.30-15.00. Work in groups on proposal

15.00-17.00. Proposal presentations/discussion