Master of Science in Sustainability Management

**Sustainability Science - PS5140**
3 Credits

**Instructor:** Jenna Lawrence

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**Course Schedule/Course Calendar**

*Session 1: Intro to Sustainability Science*

Reading: Ch. 1

Supplemental reading:

Millennium Ecosystem Assessment synthesis reports (Links to an external site.)
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Session 2: Fundamentals: Biodiversity

Readings: Ch. 6

Session 3: Fundamentals: Population ecology I (interactions within species)

Reading: Ch. 4

Cordyceps video

Session 4: Fundamentals: Population ecology II

QUIZ 1

Session 5: Fundamentals: Evolution (and scientific writing)

PAPER TOPIC DUE

Reading: Ch. 4

Session 6: Fundamentals: Community ecology (interactions between species)

(Thu Feb 28, 06:10 PM - 08:00 PM)

Readings: Ch. 4, 5

Ant-mutualism youtube video

Session 7: Fundamentals: Community ecology II and ecosystem ecology

QUIZ 2

Reading: Ch. 3 (pp. 48-53, 62-70), Ch. 5

Jargon to avoid

http://www.filmsforaction.org/watch/how-wolves-change-rivers/ (Links to an external site.)

Session 8: Sustainability of marine resources I: Eutrophication and invasive species

Readings: Ch. 20.1, 20.3

Session 9: NO CLASS

Session 10: Sustainability of marine resources II: Overfishing

PAPER OUTLINE DUE

Reading: Ch. 7.4

Session 11: Sustainability of agriculture

QUIZ 3

Reading: Ch. 12 (also relevant material about pesticides in Ch. 13)
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Session 12: Human populations and water issues

Readings: Ch. 8-10

Video about Colorado River sustainability issues (by your fellow student!)

Elwha dam removal vid

Session 13: Energy issues

Readings: Ch. 14-16

Session 14: Climate change

Reading: Ch. 18

Session 15: Class discussion

QUIZ 4

Assignment: by noon on Saturday, choose one popular-press article and post it as a reply to the Pinned Discussion. I will choose and post 3-5 of your articles as a separate Pinned Discussion on Monday. Everyone should read these selected articles and come to class prepared to discuss not only the content but also how successful each article was in communicating information to the intended audience. In addition, consider your own reaction and how it might have changed since the beginning of this course.

FINAL PAPER