

SUMA PS5140 – Sustainability Science

Instructor: Jenna Lawrence

Session 1: Intro to Sustainability Science

Reading: Ch. 1

Supplemental reading:

[Millennium Ecosystem Assessment synthesis reports \(Links to an external site.\)](#)[Links to an external site.](#)
[Sustainable Development Goals \(Links to an external site.\)](#)[Links to an external site.](#)

[Session 1](#) 

Session 2: Fundamentals: Biodiversity

(Thu Jan 25, 2018 06:10 PM - 08:00 PM)

Readings: Ch. 6

[Session 2](#) 

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

(Thu Feb 01, 2018 06:10 PM - 08:00 PM)

Reading: Ch. 4

[Session 3](#) 

Session 4: Fundamentals: Population ecology II

(Thu Feb 8, 2018 06:10 PM - 08:00 PM)

QUIZ 1

[Session 4](#) 

Session 5: Fundamentals: Evolution

(Thu Feb 15, 2018 06:10 PM - 08:00 PM)

PAPER TOPIC DUE

Reading: Ch. 4

[Session 5](#) 

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

(Thu Feb 22, 2018 06:10 PM - 08:00 PM)

Readings: Ch. 4, 5

[Session 6](#) 

[Sample Outline 1](#) 

[Sample Outline 2](#) 

Session 7: Fundamentals: Community ecology II and ecosystem ecology

(Thu Mar 01, 2018 06:10 PM - 08:00 PM)

QUIZ 2

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

[Jargon to avoid \(Links to an external site.\)Links to an external site.](#)
<http://www.filmsforaction.org/watch/how-wolves-change-rivers/> (Links to an external site.)[Links to an external site.](#)

[Session 7](#) 

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

(Thu Mar 8, 2018 06:10 PM - 08:00 PM)

Readings: Ch. 20.1, 20.3

[Session 8](#) 

Session 9: NO CLASS - Spring Break

(Thu Mar 15, 2018 06:10 PM - 08:00 PM)

Session 10: Sustainability of marine resources II: Overfishing

(Thu Mar 22, 2018 06:10 PM - 08:00 PM)

PAPER OUTLINE DUE

Reading: Ch. 7.4

[Session 10](#) 

Session 11: Sustainability of agriculture

(Thu March 29, 2018 06:10 PM - 08:00 PM)

QUIZ 3

Reading: Ch. 12 (also relevant material about pesticides in Ch. 13)

[Session 11](#) 

Session 12: Human populations and water issues

(Thu Apr 05, 2018 06:10 PM - 08:00 PM)

Readings: Ch. 8-10

[Session 12](#) 

Session 13: Energy issues

(Thu Apr 12, 2018 06:10 PM - 08:00 PM)

Readings: Ch. 14-16

[Session 13](#) 

[Unreadable Keystone slide](#)

Session 14: Climate change

(Thu Apr 19, 2018 06:10 PM - 08:00 PM)

Reading: Ch. 18

[Session 14](#) 

[Unreadable 2015-climate-anomalies slide](#)

Session 15: Class discussion

(Thu Apr 26, 2018 06:10 PM - 08:00 PM)

QUIZ 4

Assignment: by noon on Saturday, choose one popular-press article published since April 2018 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 DUE MAY 3