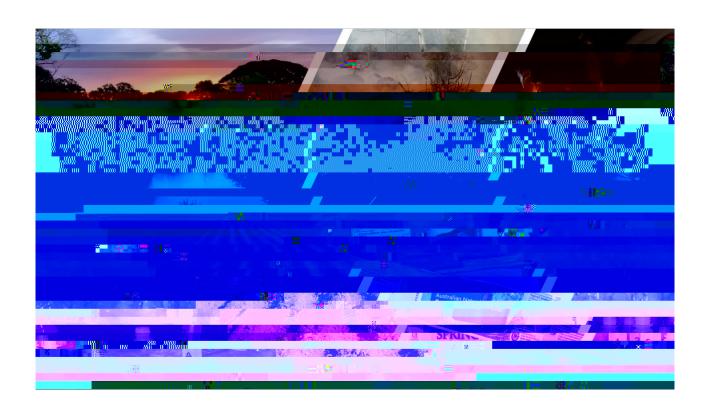


# **FACULTY OF SCIENCE**

# School of Biological, Earth and Environmental Sciences

# **GEOS2291**

Earth's Systems and Sustainability



Term 1 2022

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### **Faculty of Science - Course Outline**

1. Information about the Course NB: Additional course information can be found in the UNSW Handbook: https://www.handbook.unsw.edu.au

Year of Delivery	2022
Course Code	GEOS2291
Course Name	Earth's Systems and Sustainability
Academic Unit	Biological, Earth and Environmental Science
Level of Course	

**Special Details** 

### **Graduate Attributes Developed in this Course<sup>4</sup>**

**Graduate Attribute** 

Select the level of FOCUS 0 = NO FOCUS

### 4. Rationale and Strategies Underpinning the Course

# Teaching Strategies Interactive lectures – engaging discussion forums that place the learning goals and presented information in the context of scientific analysis, societal goals and environmental management. Observations and measurements, report writing. Computer laboratories – problem-based learning (a toolbox of methods for data analysis). Rationale for learning and teaching in this course. Environmental careers are often multidisciplinary and require knowledge from many fields of

### 6. Assessment Tasks and Feedback

Assignment 1 - worth 20%

### 7. Additional Resources and Support

Recommended Reading and Viewing	The reading material at the links below provide useful background knowledge, and provide context about the content taught in the course:  Cohen, A. and Ray, I. 2018. The global risks of increasing reliance on bottled water. Nature Sustainability, 1, 327-329. <a href="https://www.nature.com/articles/s41893-018-0098-9">https://www.nature.com/articles/s41893-018-0098-9</a> Al Atawneh, D. et al 2021. Climate change and its impact on the projected values of groundwater recharge: A review. Journal of Hydrology, 601, 126602 <a href="https://www.sciencedirect.com/science/article/pii/S0022169421006508">https://www.sciencedirect.com/science/article/pii/S0022169421006508</a> Bladon, K.D. et al 2014. Wildfire and the Future of Water Supply. Environmental Science and Technology, 48, 8936-8943. <a href="https://pubs.acs.org/doi/full/10.1021/es500130g">https://www.goutube.com/science/article/pii/S0022169421006508</a> Bladon, K.D. et al 2014. Wildfire and the Future of Water Supply. Environmental Science and Technology, 48, 8936-8943. <a href="https://pubs.acs.org/doi/full/10.1021/es500130g">https://www.goutube.com/science/article/pii/S0022169421006508</a> Bladon, K.D. et al 2014. Wildfire and the Future of Water Supply. Environmental Science and Technology, 48, 8936-8943. <a href="https://jubs.acs.org/doi/full/10.1021/es500130g">https://jubs.acs.org/doi/full/10.1021/es500130g</a> Groundwater <a href="https://jubs.acs.org/doi/full/10.1021/es500130g">https://jubs.acs.org/doi/full/10.1021/es500130g</a> Groundwater <a href="https://jubs.acs.org/doi/full/10.1021/es500130g">https://jubs.acs.org/doi/full/10.1021/es500130g</a> Groundwater <a href="https://jubs.acs.org/doi/full/10.1021/es500130g">https://jubs.acs.org/doi/full/10.1021/es500130g</a> Groundwater <a href="https://jubs.acs.org/doi/full/10.1021/es500130g">https://jubs.acs.org/doi/full/10.1021/es500130g</a> Groundwater-SDG-6-Mar-2017.pdf Air Quality <a href="https://jubs.acs.org/doi/full/10.1021/es500130g">https://jubs.acs.org/doi/full/10.1021/es500130g</a> Groundwater-SDG-6		
	In Moodle there is a link to all lectures on MS Stream.		
Required Readings	Web links to required reading will be provided at the end of each set of lecture slides.		
Additional Readings	Web links to additional reading will be given on the lecture slides.		
Recommended Internet Sites	Links to internet sites will be provided in the lecture slides.		
Societies	- International Association of Hydrogeology (IAH; <a href="http://www.iah.org.au">http://www.iah.org.au</a> ) - American Geophysical Union (AGU; <a href="https://sites.agu.org">https://sites.agu.org</a> ) - European Geosciences Union (EGU; <a href="https://www.egu.eu">https://www.egu.eu</a> )		
Computer Laboratories or Study Spaces	Computer Laboratory will be run online in MS Teams. Much of the data analysis will be done in Excel. There are comprehensive introductory tutorials on Excel here: https://support.microsoft.com/en-us/office/excel-video-training-9bc05390-		

9. Course Evaluation and Development				

### 10. Administrative Matters

Expectations of Students

Attendance at 80% of lectures and laboratories is expected. Both Moodle and MS Teams keep a log of student access.

**Assignment Submissions** 

# 11. UNSW Academic Honesty and Plagiarism

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What is Plagiarism?			
Plagiarism is the presentation of the thoughts or work of another as one's own.  *Examples include: direct duplication of the thoughts or work of another, including by copying material, ideas or concepts from a			
book, article, report or other			