

## ENVS2710: Environmental Control Practice

PSB Singapore

Trimester 1 - 2024 (Singapore)



THE UNIVERSITY OF  
NEWCASTLE  
AUSTRALIA

## OVERVIEW

<b>Course Description</b>	Overviews sources of and control strategies for air, water, and soil pollution; waste management and waste minimisation; drainage and flood control; pests and pest control, and sanitation. Relevant legislation is referred to in context.
<b>Requisites</b>	This course is only available to students enrolled in the Bachelor of Environmental & Occupational Health & Safety program.
<b>Contact Hours</b>	<b>PSB Singapore</b> <b>Integrated Learning Session</b> Face to Face On Campus 40 hour(s) per Term Full Term Contact hours are not regular or on a weekly basis, since delivery will take place on some week-ends and evenings, i.e., there will be some intensive block teaching. Total face to face contact will be 40 hours.
<b>Unit Weighting Workload</b>	10 Students are required to spend on average 120-140 hours of effort (contact and non-contact) including assessments per 10 unit course.

# COURSE OUTLINE

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# CONTACTS

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Consultation:

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**PSB Academic Enquiries**      **Questions / Requests can be logged through:**  
[http://psbacademy.force.com/case/CM\\_LogcaseForm](http://psbacademy.force.com/case/CM_LogcaseForm)

# SYLLABUS

<b>Course Content</b>	<ol style="list-style-type: none"><li>1. Outline of relevant environmental and public health legislation in Singapore;</li><li>2. Air pollution - prevention and control;</li><li>3. Water pollution - prevention and control;</li><li>4. Soil pollution - prevention and control;</li><li>5. Environmental noise pollution - prevention and control;</li><li>6. Outline of the biology of major pests - mosquitoes, houseflies, rats; and Pest Control</li><li>7. Food Hygiene, Infectious organisms and sanitation measures;</li><li>8. Renewable energy and low carbon technologies</li><li>9. Waste minimisation and management;</li><li>10. Management of stormwater and drainage systems.</li></ol>
<b>Course Learning Outcomes</b>	<p><b>On successful completion of this course, students will be able to:</b></p> <ol style="list-style-type: none"><li>1. Identify sources of air, water and land pollution associated with major industries, understand the impacts to the environment and devise strategies to control and prevent pollution.</li><li>2. Identify relevant legislation for environmental control and advise on strategies for compliance;</li><li>3. Understand and manage environmental risks of chemicals and hazardous substances;</li><li>4. Assess and manage environmental noise problems;</li><li>5. Assess environmental health issues such as vector-borne disease and food-borne disease and devise appropriate vector control and food hygiene measures;</li><li>6. Systematically address waste production and strategies to minimise and manage the waste stream; and</li><li>7. Understand the different sources of low carbon, renewable and clean energy and other mitigating measures to address climate change.</li></ol>
<b>Course Materials</b>	<p><b>Required Reading:</b> Course notes and supplementary notes provided.</p>

# SCHEDULE

Week	Dates	Topic	Learning Activity	lecturer
1	11 Jan	Environmental Concerns Singapore Environmental Legislation	Lecture #1	Anita
2	15 Jan	Air Pollution 1	Lecture #2	Anita
2	17 Jan	Air Pollution 2	Lecture #3	Anita
3	22 Jan	Water Pollution 1	Lecture #4	Anita
3	24 Jan	Water Pollution 2 and Drainage System	Lecture #5	Anita
3	25 Jan	Boundary Noise	Lecture #6	Anita
5-6	Feb 9-18	CNY and Trimester Break Mid-term week		
7	22 Feb	Management of Ecotoxic Chemicals and Hazardous Substances	Lecture #7	Anita
8	28 Feb	Renewable Energy Sources	Lecture #8	Anita
8	29 Feb	Waste Management	Lecture #9	Anita
9	5 Mar	Soil and Land Pollution	Lecture #10	Anita
11	21 Mar	Vector Control and Food Hygiene	Lecture #11	Anita
12	28 Mar	Climate Change, Health Impacts and Sustainability	Lecture #12	Anita
12	31 Mar	<b>Written Assignment Due</b>		
13	5 Apr	Course Review	Lecture #13	Anita
<b>Week of April 8 - Study Break</b>				
<b>Week of April 15, 2024 – Final Examination</b>				

# ASSESSMENTS

This course has 3 assessments. Each assessment is described in more detail in the sections below.

	Assessment Name	Due Date	Involvement	Weighting	Learning Outcomes
1	Class Test - Progress Test	21 Feb 2024 (Wed)	Individual	25%	1, 2, 3, 4,
2	Written Assignment	31 March 2024 (Sun)	Individual	35%	1, 2, 3, 4, 5, 6, 7
3	Examination: Formal	Examination Week	Individual	40%	1, 2, 3, 4, 5, 6, 7

## Late Submissions

The mark for an assessment item submitted after the designated time on the due date, without an approved extension of time, will be reduced by 10% of the possible maximum mark for that assessment item for each day or part day that the assessment item is late. Note: this applies equally to week and weekend days.

## Assessment 1 - Class Test - Progress Test

<b>Assessment Type</b>	In Term Test
<b>Purpose</b>	Test knowledge on all materials delivered prior to the test date
<b>Description</b>	Mid Semester Test
<b>Weighting</b>	25%
<b>Due Date</b>	21 Feb 2024 (Wed)
<b>Submission Method</b>	Face-to-face
<b>Assessment Criteria</b>	According to test marking scheme
<b>Return Method</b>	Not Returned
<b>Feedback Provided</b>	Online

## Assessment 2 - Written Assignment

<b>Assessment Type</b>	Written Assignment
<b>Purpose</b>	To evaluate the students' understanding of the environmental impacts in an industry of their choice, and the control strategies to address the significant impacts.
<b>Description</b>	The assignment requires students to identify existing or potential aspects and the associated impacts in the industry of their choice, and thereafter, recommend control measures to address the significant environmental impacts. The assignment question will be distributed on 2nd lesson. Report shall be submitted by the stipulated due date (electronic copy via TURNITIN on Canvas).
<b>Weighting</b>	35%
<b>Length</b>	See assessment booklet
<b>Due Date</b>	31 March 2024 (Sunday)
<b>Submission Method</b>	Online via Turnitin
<b>Assessment Criteria</b>	According to marking scheme
<b>Return Method</b>	Online
<b>Feedback Provided</b>	In Class

## Assessment 3 - Examination: Formal

<b>Assessment Type</b>	Formal Examination
<b>Purpose</b>	Formal Examination
<b>Description</b>	Final Examination on all topics covered by the Course
<b>Weighting</b>	40%
<b>Length</b>	2 hours
<b>Due Date</b>	Examination Week
<b>Submission Method</b>	Face-to-Face
<b>Assessment Criteria</b>	According to marking scheme
<b>Return Method</b>	Not Returned
<b>Feedback Provided</b>	No Feedback

# ADDITIONAL INFORMATION

## Grading Scheme

This course is graded as follows:

Range of Marks	Grade	Description
85-100	High Distinction (HD)	Outstanding standard indicating comprehensive knowledge and understanding of the relevant materials; demonstration of an outstanding level of academic achievement; mastery of skills*; and achievement of all assessment objectives.
75-84	Distinction (D)	Excellent standard indicating a very high level of knowledge and understanding of the relevant materials; demonstration of a very high level of academic ability; sound development of skills*; and achievement of all assessment objectives.
65-74	Credit (C)	Good standard indicating a high level of knowledge and understanding of the relevant materials; demonstration of a high level of academic achievement; reasonable development of skills*; and achievement of all learning outcomes.
50-64	Pass (P)	Satisfactory standard indicating an adequate knowledge and understanding of the relevant materials; demonstration of an adequate level of academic achievement; satisfactory development of skills*; and achievement of all learning outcomes.
0-49	Fail (FF)	Failure to satisfactorily achieve learning outcomes. If all compulsory course components are not completed the mark will be zero. A fail grade may also be awarded following disciplinary action.

\*Skills are those identified for the purposes of assessment task(s).

## Communication Methods

Communication methods used in this course include:

- Canvas Course Site: Students will receive communications via the posting of content or announcements on the Canvas course site.
- Email: Students will receive communications via their student email account.

## Course Evaluation

Each year feedback is sought from students and other stakeholders about the courses offered in the University for the purposes of identifying areas of excellence and potential improvement.

## Oral Interviews

As part of the evaluation process of any assessment item in this course an oral examination may be conducted. The purpose of the oral examination is to verify the authorship of the material submitted in response to the assessment task. The oral examination will be conducted in accordance with the principles set out in the [Oral Examination Guidelines](#). In cases where the oral examination reveals the assessment item may not be the student's own work the case will be dealt with under the [Student Conduct Rule](#).

## Academic Misconduct

All students are required to meet the academic integrity standards of the University. These standards reinforce the importance of integrity and honesty in an academic environment. Academic Integrity policies apply to all students of the University in all modes of study and in all locations. For the Student Academic Integrity Policy, refer to <https://policies.newcastle.edu.au/document/view-current.php?id=35>.

## Adverse Circumstances

The University acknowledges the right of students to seek consideration for the impact of allowable adverse circumstances that may affect their performance in assessment item(s). Applications for special consideration due to adverse circumstances will be made using the online Adverse Circumstances system where:

1. the assessment item is a major assessment item; or
2. the assessment item is a minor assessment item and the Course Co-ordinator has specified in the Course Outline that students may apply the online Adverse Circumstances system;

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3. you are requesting a change of placement; or
  4. the course has a compulsory attendance requirement.
- Before applying you must refer to the Adverse Circumstance Affecting Assessment Items Procedure available at:  
<https://policies.newcastle.edu.au/document/view-current.php?id=236>

**Important Policy  
Information**

The 'HELP for Students' tab in UoNline contains important information that all students should be familiar with, including various systems, policies and procedures.

*This course outline was approved by the Head of School. No alteration of this course outline is permitted without Head of School approval. If a change is approved, students will be notified and an amended course outline will be provided in the same manner as the original.*

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