



SULTAN QABOOS UNIVERSITY

COURSE OUTLINE

PROGRAM:

1. Course Code	SWAE2003	
2. Course Title	Water in Arid Environments	
3. Credits	2 CR, 8 CP, 4 ECTS	
4. Pre-requisite Course (s)	N/A	
5. Co-requisite Course (s)	N/A	
6. Equivalent Course (s)	-	
7. Course Category (Specify either as Elective or Requirement and appropriate level: College, Department, etc.)	<input type="checkbox"/> University Requirement	<input checked="" type="checkbox"/> University Elective
	<input type="checkbox"/> College Requirement	<input type="checkbox"/> College Elective
	<input type="checkbox"/> Department Requirement	<input type="checkbox"/> Department Elective
	<input type="checkbox"/> Other (specify):	
8. Course Owner	College: CAMS	Department: SWAE
9. Course Type	Lecture	
10. Language of Instruction	Arabic	
11. Course Description		
This introductory 2-credit University Elective is offered in Arabic and aims at instilling the awareness of water shortage problems in Oman, The blessing of having clean water and the need for water conservation.		
12. Teaching/Learning Strategies		
The students will be provided with weekly lecture notes, with classroom discussions using Moodle. Students will also be charged with assignments and reports on Global and local water issues		
13. Evaluation Methods		
Evaluation of outcomes will be assessed based on the following:		
Test 1	[25%]	
Test 2	[25%]	
Final examination	[50%]	
14. Required Course Core Material		
Lecture Notes		
15. Matching Course Objectives with the Program Outcomes and with SQU Graduate Attributes		
* Click here to view a list of action verbs use in developing objectives		
SQU Graduate Attributes		

A. SQU graduates should be able to: <ol style="list-style-type: none"> 1. apply the knowledge and skills relevant to the specialization 2. communicate effectively and use information and communication technologies 3. critically analyze complex information and present it in simple legible manner 	B. SQU graduates possess <ol style="list-style-type: none"> 1. interpersonal communication skills and alignment with culture of international labour market to assist them in practical life and in living successfully 2. skills and motivation for independent learning and engagement in lifelong learning and research 3. work ethics and positive values, and enjoy intellectual independence and autonomy 4. teamwork skills and display potential leadership qualities 	C. SQU graduates should relish good citizenship qualities, conscious of their national identity and socially responsible, engage in community affairs and mindful of contemporary issues.
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#	Course Learning Objective	Relevant Program Outcome(s)	Applicable Attribute(s)
1.	The objectives of this course are to give the student a fundamental knowledge of:	Better understanding of the importance of water in our lives	
2.	The Aquatic Ecosystem and the hydrologic Cycle	The blessing of having clean water	
3.	The nature and properties of water	The problems associated with water shortage and quality deterioration	
4.	Characteristics of Arid Regions and Water Management in Arid Environments	Water shortage in Oman and the need for water conservation	
5.	Major Water conflicts in the World		
6.	Water Quality Parameters and Regulations		
7.	Water Pollution and Sea-water Intrusion in Oman		
8.	Water Resources in Oman: Balance, Management and Legislations		
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16. Student Responsibilities

It is the student's responsibility to know and comply with all University Academic Regulations relevant to participation in this course. These regulations specifically include the Attendance and Student Academic Misconduct policies.

For attendance, it is the student's responsibility to be punctual and to attend all classes.

Students are expected to perform their work with honesty and avoid any academic misconduct, which is defined as the use of any dishonest or deceitful means to gain some academic advantage or benefit. This can take many forms, including but not limited to, the following: copying, plagiarism, collusion and forging documents. For full details please refer to the Undergraduate Academic Regulations and to the Student Academic Misconduct Policy.

Additionally, this course requires that you:

COURSE INFORMATION				
Course Code	SWAE2003	Course Title	Water in Arid Environments	
Year/Semester	2018/Fall	Section	20	
Day, Time, and Place	As scheduled			
Course Coordinator	Mansour Al.Haddabi			
Office Location	016	Office Hours	As posted	
Office Ext.	1266	Email	mans99@squ.edu.om	
Tentative Schedule				
Week	Lecture/Topic	Material to be Covered	Assignment /Exam	Weight (%)
1	Introduction: Nature and Properties of Water, The Hydrologic Cycle	Chapter 1		
2	Global Water Resources: The Aquatic Ecosystem, Global Water Distribution, Global Water Conflicts, Conventions and Treaties	Chapter 1		
3	Water In Arid Environments: Characteristics of Arid Regions, Desertification, Seawater Intrusion, Coastal Pollution, Water Management in Arid Regions	Chapter 2		
4	Global Climatic Changes and Water: Elements of Climatology, Global Warming, Drought, floods, desertification and Acid Rains	Chapter 3		
5	Water Quality and Treatment: Water Quality Parameters and Regulations, Wastewater Treatment and Reuse, Desalination	Chapter 4		
6	Water Resources Of The Sultanate: Water Resources Institutions in Oman, The Aflaj Systems of Oman, Water Balance in Oman, Augmentation and Conservation, Water Legislations	Chapter 5		
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APPENDIX A: INSTRUCTORS OF MULIPLE SECTIONS

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APPENDIX B: ADDITIONAL INFORMATION