**Course Syllabus**

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**Summary**

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| **Course Title** | Water Resources Planning |
| **Course No.** | PLAN31384 |
| **CRN** | 42097 |
| **Start/End Dates** | 9/1/20 - 12/14/20 |
| **Term/Module** | Fall 2020 |

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| --- | --- |
| **Delivery Method** | **Number of Face-to-Face Meetings** |
| Online | 0 |

**Course Description**

Water and water resources are critical issues for the sustenance of nearly every society. This course examines the occurrence, use, management, and conservation of water and water resources in the U.S. and around the world. It further discusses the environmental, economic, and social implications of floods, droughts, dams, and water usage as well as current issues in water quality, water pollution, and water resource regulation. Students will gain an understanding of the environmental, societal, and political impacts of water, water resources, and changes in water supply and availability, and they will be introduced to current and emerging trends in water resource issues, development, and technology

This course is designed to (1) acquaint students with the history and practice of water resources planning and management; (2) provide examples of water resources planning protocols employed by various agencies and levels of government: (3) address the role of analytic methods in water resources planning processes; (4) illustrate the roles of interdisciplinary teamwork, partnerships, and public involvement in planning and management processes;(5) differentiate the roles of planners and decision makers; and (6) present the elements of integrated water resources planning and management.

News articles may be sourced worldwide and must involve a topic dealt with in class. Sources may include academic journals, blogs and other forums, newspapers and magazines.

**Instructor**

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|  |  |
| --- | --- |
| **Name** | Charles McGlynn |
| **Email** | mcglynn@rowan.edu  |
| **Phone** |  |
| **Virtual Office Hours** | Post questions and comments for the instructor to the Office Hours board (in **Discussions** Area). The instructor will respond within approximately 48 hours. For faster or more private correspondence, use email or phone. |

**Objectives**

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* To develop an appreciation of the role water has played in the development of agriculture and the growth of towns, cities in America and around the world.
* To understand the fundamentals of water supply and treatment systems.
* To understand aquifers and the of role groundwater in the hydrologic cycle
* To know the risks of surface and groundwater contamination and explore remediation efforts.
* To know the types of rivers and lakes and the role geography plays in these systems.

**Prerequisites**

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* None

**Materials and Texts**

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**Required Texts**: Principles of Water Resources, 3rd Ed. – Cech 2010

**Required Materials:** Access to a globe in week 7 is needed (*an inflatable globe may be used for this exercise*)

**Schedule**

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**The following schedule is tentative and may be changed with prior notification from the instructor.**

|  |  |  |
| --- | --- | --- |
| **Weeks** | **Start Date** | **Readings, Activities & Assignments** |
| **1 & 2** | 9/1/20 | **Readings:*** Read chapters 1 and 2 of Principles of Water Resources

**Lectures:*** Lecture 1

**Discussions:*** DQ 1

**Assignments:*** Assignment 1
* Begin Group Assignment
 |
| **3 & 4** | 9/15/20 | **Readings:*** Read chapters 3 and 4 of Principles of Water Resources

**Lectures:*** Lecture 2

**Discussions:*** DQ 2

**Assignments:*** Assignment 2
 |
| **5 & 6** | 9/29/20 | **Readings:*** Read chapter 5 of Principles of Water Resources

**Lectures:*** Lecture 3

**Discussions:*** DQ 3

**Assignments:*** Assignment 3
 |
| **7 & 8** | 10/13/20 | **Readings:*** Read chapters 6 and 7 of Principles of Water Resources

**Lectures:*** Lecture 4

**Discussions:*** DQ 4

**Quizzes/Exams:*** Exam 1

**Assignments:*** Assignment 4
 |
| **9 & 10** | 10/27/20 | **Readings:*** Read chapters 8 and 9 of Water Resources Planning

**Lectures:*** Lecture 5

**Discussions:*** DQ 5

**Assignments:*** Assignment 5
 |
| **11 & 12** | 11/10/20 | **Readings:*** Read chapters 10 and 11 of Principles of Water Resources Planning

**Lectures:*** Lecture 6

**Discussions:*** DQ 6

**Assignments:*** Assignment 6
 |
| **13 & 14** | 11/24/20 | **Readings:*** Read chapters 12 and 13 of Water Resources Planning

**Lectures:*** Lecture 7

**Discussions:*** DQ 7

**Assignments:*** Assignment 7
* Group Assignment due
 |
| **15** | 12/8/20 | **Readings:*** Read chapters 14 and 15 in Principles of Water Resources

**Lectures:*** Lecture 8

**Videos:*** Watch “How We Got to Now: Episode 1: The Story of Clean” available on Netflix

**Discussions:*** DQ 8

**Quizzes/Exams:*** Exam 2

**Assignments:*** Assignment 8
 |

**Assignment Outline**

**Weekly discussions and weekly assignments: 34% of grade**

Each week at least one assignment involving a reading selection, video, map and / or digital handout will be assigned. You will answer questions related to them. There will also be at least one weekly question for the class discussion board.

**Students will adopt a major world river (first come first serve) and be responsible to provide weekly updates to the class on it via the class discussion board**. This may include water supply and pollution issues, wildlife management, transportation, dams and boundaries. Keep abreast of current events along your river (major cities located along it are a good place to start) and be prepared to share your insights with the class.

**Major Group Assignment: 33% of grade**

Your project will involve working with a partner and telling the story of a major world river in an essay and well done video trailer. The written essay should be about 750 words – no bloviating! (include a list of your sources) Tell the river’s story including essential facts, legends and famous battles or incidents. An example is here:

<http://www.irishcentral.com/roots/Irelands-five-longest-rivers-and-their-mythic-stories-PHOTOS--.html>

You will also provide a two-minute video trailer of your documentary that is to be uploaded to YouTube.

Some professional examples are here:

<https://www.youtube.com/watch?v=1C8lpBJaYaY>

<https://www.youtube.com/watch?v=_TiHfYWhDmo>

<https://www.youtube.com/watch?v=4b9j683d2rc>

**Exams: 33% of grade**

Two exams will be required. A midterm exam and a final exam will cover each ½ of the semester (not cumulative) Questions may be randomized and will come from the textbook, lectures, videos and assigned readings. The format may include any/all of the following question types: multiple choice, fill-in, matching, short answer and essay questions.

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**Grading**

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**Final Grade Breakdown**

|  |  |
| --- | --- |
| **Grading Criteria/Assignment** | **Points/Percentage** |
| Weekly discussions and weekly assignments | 100 pts each/ 34% |
| Major Group Assignment* Essay - 40
* Video - 40
* Weekly Updates - 20
 | 100 pts/ 33% |
| Exams | 100 pts each / 33% |
| **Total** | **100%** |

 **Grading Scale**

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | 93 and Up | **C** | 74 – 76 |
| **A-** | 90 – 92 | **C-** | 70 – 73 |
| **B+** | 87 – 89 | **D+** | 67 – 69 |
| **B** | 84 – 86 | **D** | 64 – 66 |
| **B-** | 80 – 83 | **D-** | 60 – 63 |
| **C+** | 77 - 79 | **F** | 59 and Below |

**Rowan Global Standard Policies (addendum)**

The current version of Rowan Global Standard Policies, which are an addendum to this syllabus, are found in the [Rowan Global Standard Policies Document](https://docs.google.com/document/d/1o5XB4J2W8h52egi5-CnrpupqDMeN9LyFXRM8xiUj8Lk/edit#heading=h.ovkmxcofmaz1).

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