

HORT 300
M70

Syllabus - Spring 2022, 2nd Mini-
semester

Mon Mar 14 to Fri May 06

Urban Water Issues & Society

Instructor Information

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(575) 646-3297

Office Hours by appointment

Course Description

Global study of water science, development, law and use for agriculture, manufacturing, landscaping, home use and other urban uses This course allows students to become familiar with important issues concerning the interaction between water use and humans. Topics include the water cycle, water chemistry, human-water relations, plant-water relations, water users, water-dependent population placement and growth, water regulation and the future of water.

Course Objectives

By the end of this course, you will be able to:

1. Define and describe Earth's water sources and the water cycle.
2. Describe the chemical processes associated with water and analyze the composition of several water sources.
3. Summarize the interactions of water with the human body.
4. Explain the use of water in agricultural and other plants on both a regional scale and cellular level.
5. Identify, explain and compare all water users and categorize their demand and availability for water.
6. Analyze the interconnection of the human societies and water while discussing locations of civilizations and communities.
7. Analyze, from a historical perspective, the interrelationships of all water users and all water decision makers. Describe the history of US and world water regulation and analyze its success rate.
8. Predict and recommend how water will be used and distributed in the future.

Course Organization

This Urban Water Issues and Society course is organized in modules. Due to the short 8 week timeframe of this course, we will move rapidly through the material with assignment deadlines every Monday at 3pm. In addition to these Monday module deadlines, Modules 0 and 8 will be due on Fridays. This deadline ensures I will be able to respond to any questions or Canvas errors on my part. Assignments will include readings, videos, homework, quizzes, exams, discussions, papers, and a term paper. See section later in the Syllabus for policies on Late Submissions. Below are the 8 learning modules. For each of the modules in the list below, additional information can be located in the title. Each item provides the module title, due date and estimated student effort (hours) required to complete the module. Estimated times are not firm times, but they should be used as a planning guide. Times may vary by student.

- [0: Introduction \(Due Fri Mar 18 3pm; 5 hr. of effort\)](#)
- [1: Earth's Water \(Due Mon Mar 21 3pm; 14 hr. of effort\)](#)
- [2: Water Chemistry \(Due Mon Mar 28 3pm; 14 hr. of effort\)](#)
- [3: Water and Plants \(Due Mon Apr 04 3pm; 21 hr. of effort\)](#)
- [4: Water Users \(Due Mon Apr 11 3pm; 16 hr. of effort\)](#)
- [5: Water & Civilizations \(Due Mon Apr 28 3pm; 17 hr. of effort\)](#)
- [6: Water Wars \(Due Mon Apr 25 3pm; 10 hr. of effort\)](#)
- [7: Future Water Use \(Due Mon May 02 3pm; 17 hr. of effort\)](#)
- [8: Final Module \(Due Fri May 06 3pm; 10 hr. of effort\)](#)

Expectations of Effort

At NMSU a 3-credit course has an expectation that students will complete a total of 127.5 hours of in-class activities and assessments, in addition to out-of-class reading, studying and preparation. See [NMSU Policy 4.23](#) [↗] (<https://arp.nmsu.edu/4-23/>). In a 8 week class, 127.5 hours equates to approximately 2.3 hours of effort per day, including weekends. Or about 3.2 hours per weekday day, not including weekends. This Urban Water Issues & Society course will follow those expectations of effort.

Canvas Information

Canvas is the where course content, grades, and communication will reside for this course.

- learn.nmsu.edu [↗] (<http://learn.nmsu.edu>)
- For help with Canvas, please read the Required Technical Skills section below.

Prerequisites

No prerequisites are required for this course. You must be eligible to take 300 level courses to enroll in this course.

Grading Policies

Below are listed the assignments from which your grade will be derived. See [Course Map](#) ↓ (https://nmsu.instructure.com/courses/1436167/files/193071215/download?download_frd=1) for timings and alignment to course objectives.

Assignments in this course:

| Assignments | # | Points each/Total | Weight (approx) |
|---------------------|----|-------------------|-----------------|
| Term Paper | 1 | 100/100 | 10.0% |
| Final Exam | 1 | 100/100 | 10.0% |
| Short Papers | 3 | 60/180 | 18.0% |
| Exams | 2 | 60/120 | 12.0% |
| Video Presentations | 2 | 30/60 | 6.0% |
| Homework | 5 | 30/150 | 15.0% |
| Group Discussions | 6 | 18/108 | 10.8% |
| Class Discussions | 2 | 18/36 | 3.6% |
| Quizzes | 10 | 15/150 | 15.0% |

Grading Scale:

| Percentage | Grade |
|------------|-------|
|------------|-------|

90-100% A

80-89.9% B

70-79.9% C

60-69.9% D

59.9% and F

Below

All grades will be given with straight letter grades; no plus or minus grade will be offered. This course does not offer satisfactory/unsatisfactory grades except for extreme situations and with pre-approval of the instructor.


Late Submissions

All assignments within a learning module are due at the deadline for the module. Students will not be successful in attempts to complete every module assignment at the last minute. I highly recommend that students make daily progress on the module.


Meet every module deadline if you want to be successful in this course. Every assignment received late will be deducted 1% of the graded per minute late. For example, a paper received 20 minutes late that received a 44/50 will be deducted 20% ($44 \times 80\% = 35.2$). Any assignment received 100 minutes late or more will receive a zero.

Students with pre-approved, documented excuses or documented emergency situations may avoid the late penalty at the instructor's discretion and pre-approval. Students must contact the instructor immediately under each circumstance above. Approval requires some sort of document(s) that clearly indicates the situation, the dates involved and student involvement. Undocumented excuses will not be considered or approved for deadline extensions. Always contact the instructor before the deadline to seek approval. An email or phone call after the deadline will not receive approval except under emergencies (usually medical). Work, other class loads, and travel are not considered emergencies.


Incomplete Grades

The grade of "I" may only be assigned if the student is unable to complete the course due to circumstances beyond the student's control that develop after the last day to withdraw from the course. "In no case is an I grade to be used to avoid the assigning of D, F, U or RR grades for marginal or failing work. Examples of appropriate circumstances include documented illness, documented death or crisis in the student's immediate family, unexpected military deployment and similar circumstances. Other job-related circumstances are generally not appropriate grounds for assigning an I grade." [NMSU APR 4.55](https://arp.nmsu.edu/4-55/)  [\(https://arp.nmsu.edu/4-55/\)](https://arp.nmsu.edu/4-55/).

Class Withdrawals

Withdrawing from the course with a "W" is the responsibility of the student. The instructor will not initiate withdrawal. Information on withdraws can be found at the [registrar's website](https://catalogs.nmsu.edu/dona-ana/general-information/academic-advising-registration/)  [\(https://catalogs.nmsu.edu/dona-ana/general-information/academic-advising-registration/\)](https://catalogs.nmsu.edu/dona-ana/general-information/academic-advising-registration/).

Course Schedule

Please note the schedule is subject to change. Should changes be required, you will be notified via Canvas announcements at least 3 days before the due date. More course schedule information about specific course activities, assignments and deadlines can be found in the [Course Map](#)  [\(https://nmsu.instructure.com/courses/1436167/files/193071215/download?download_frd=1\)](https://nmsu.instructure.com/courses/1436167/files/193071215/download?download_frd=1) and individual modules.

Grading and Feedback

Online quizzes and exams will be graded immediately by Canvas. However, your grade will not be posted until after the assignment deadline. Assignments that are not automatically gradable by Canvas will be graded within ten days of the last student submission.

Discussions will be graded within one week of the due date. Specific criterion for earning discussion points will be explained with each discussion posted.

Writing assignments will be graded within ten days of the due date. Grading rubrics for each writing assignment will be posted and you are STRONGLY ENCOURAGED to evaluate your paper against the rubric PRIOR to submission.

For discussions and writing assignments, most feedback will be provided in a large course announcement that allows all students to learn from common trends witnessed in submissions. When appropriate, individual feedback will be provided using the Canvas Document Annotation tool and Assignments Comments. Here is information on how to access this feedback:

- [View Rubric results](https://community.canvaslms.com/docs/DOC-10491-421267891) ↗ (<https://community.canvaslms.com/docs/DOC-10491-421267891>)
- [Access Document Annotation](https://community.canvaslms.com/docs/DOC-10542-4212352349) ↗ (<https://community.canvaslms.com/docs/DOC-10542-4212352349>)
- [See Assignments Comments](https://community.canvaslms.com/t5/Student-Guide/How-do-I-view-assignment-comments-from-my-instructor/ta-p/283) ↗ (<https://community.canvaslms.com/t5/Student-Guide/How-do-I-view-assignment-comments-from-my-instructor/ta-p/283>)

Course Delivery Method

The course modules will be presented in an asynchronous method, but not self-paced. Students will complete all assignments online, including learning modules, online quizzes, participate in discussions and submit assignments. All assignments need to be turned in on or before the due date (every 4-7 days). See Late Submissions section above for more information on late assignments.

Required Materials

Your required textbook is:

Hornberger, George M. 2019. **Water Resources : Science and Society**. Johns Hopkins University Press. ISBN-13: 978-1421432953. ISBN-10: 1421432951

The Textbook is REQUIRED and will be used for learning material, quizzes, exams and other course assignments. Your learning and course grade will be hampered greatly if you do not use the textbook.

Cost Info

- Amazon 2022 costs are ~\$50 for eTextbook and ~\$60 for Paperback.
- NMSU Bookstore 2022 costs are ~\$60 for digital and ~\$75 for Paperback.

Required (free) videos:

- YouTube videos of various content Interview Videos as they become available

Communication

The majority of my communication will take place through Canvas announcements. Please set your Canvas account profile *New Announcements* in Notifications to *Right Away* (Go to Profile>Notifications, find *Announcements* and set to “ *Notify me right away*”. You may also wish to change the setting on other notifications and can get a daily summary of course interactions.)

I will send announcements to communicate with the class as a whole. Email and Zoom will be used for one-on-one communication, as needed. I will respond to Canvas Inbox correspondence before the end of the next business day. I will not likely respond on weekends and holidays.

Required Technical Skills

Online Readiness

- You may wish to use [this set of questions](https://dacc.nmsu.edu/online-programs/are-you-ready-to-take-online-courses/) to help you determine if you're ready to begin in an online learning format.

Minimum Technical Skills Needed

Taking an online course requires technical skills as well as other soft skills. However, at a minimum you will need to meet certain technology abilities to complete work for this course. To begin in this course, you must:

- Be able to obtain access to an internet connection, preferably broadband, and a working computer for the duration of this course. Please use Google Chrome or Firefox for your internet browser as these work best with Canvas.
- Be proficient with Microsoft® Office applications, especially PowerPoint and Word.
- Be able to send and receive emails and email attachments in and out of class.
- Be able to navigate Canvas and change your Notification settings.
- Be able to maintain backups of all work you create for this course.
- Be able to watch YouTube Videos.
- Be able to comment and respond to discussion posts.
- Be able to submit assignments and complete quizzes in Canvas.

Canvas Resources for Students

Students who are new to using Canvas can take the [Canvas Student Tour](https://resources.instructure.com/courses/32), read the [Student Quickstart Guide](https://community.canvaslms.com/docs/DOC-2036), or search the comprehensive [Canvas Student Guide](https://community.canvaslms.com/docs/DOC-4121).

Students can also contact NMSU Help Desk at 575-646-1840 or help@nmsu.edu, OR the NMSU Student Technology Advisor at 575-646-4857 or ict_st@nmsu.edu for assistance with Canvas.

Computer Hardware, Software & Web Browsers

Computer Hardware & Software

- Access to a Windows or Macintosh desktop computer or laptop with internet access, sound, and speakers. A camera for recording videos is required.
- Canvas Learning Management System
 - [NMSU Canvas](http://learn.nmsu.edu) [login](http://learn.nmsu.edu)
 - [Canvas student FAQ](https://learning.nmsu.edu/canvas-faq-for-students/)
- [Microsoft Office 365](https://studenttech.nmsu.edu/microsoft-office-365-pro-plus/) (for reading PDF files)
- [Adobe Reader](https://get.adobe.com/reader/) (for reading PDF files)
- Adobe Connect – built into Canvas. No download needed.
- Headset with microphone (optional) depending on your location and background noise.

Web Browsers

Use only the latest version of Google Chrome or Mozilla Firefox for Canvas. Do not use Safari, Internet Explorer, or Microsoft Edge; they have known issues that can interfere with performing basic tasks within Canvas. The links to download the recommended browsers as well as instructions on how to ensure you have the latest version are listed below:

- [Download Google Chrome](https://www.google.com/chrome/?brand=CHBD&gclid=EAlaQobChMI7brQ2_2Q4QIVfh6tBh1g6glsEAAYASAAEgLU4PD_BwE&gclidsrc=aw.ds)
- [How to update Google Chrome](https://support.google.com/chrome/answer/95414?co=GENIE.Platform%3DDesktop&hl=en)
- [Download Mozilla Firefox](https://www.mozilla.org/en-US/firefox/new/)
- [How to update Mozilla Firefox](https://support.mozilla.org/en-US/kb/update-firefox-latest-version)

Mobile Devices

Canvas does not fully support mobile devices; while there is a free Canvas mobile app available through iTunes store, a lot of functionality is unavailable when using a mobile phone. When you take this course, it is assumed you have access to a computer or laptop for full access to functionality in this course. Specifically, previous students have been kicked out of quizzes and exams while trying to access Canvas through their phone.

Accessibility of eLearning Tools

- [Adobe Products: Section 508 VPATs for \(Adobe Connect 9, Adobe Acrobat, and more\)](https://www.adobe.com/accessibility/compliance.html)
- [Microsoft Products: Section 508 VPATs for \(Internet Explorer, Office, Skype, and more\)](https://docs.microsoft.com/en-us/azure/compliance/offerings/offering-section-508-vpats)
- [Google Products: Section 508 VPATs for \(Google Earth, Chrome Web Browser, Google Docs, and more\)](https://www.google.com/accessibility/initiatives-research/)
- [Firefox Web Browser: Section 508 VPAT \(version 3.5 and up\)](https://website-archive.mozilla.org/www.mozilla.org/firefox_vpat/firefox-vpat-3.html)

Netiquette

Online discussions are an integral part of this course. The expectation is that you will conduct yourself in a professional and courteous manner and treat others with respect. Discussions may lead to disagreement and if they do, you are still expected to remain courteous and respectful. You will be required to sign a netiquette pledge that states you will adhere to these rules stated below.

- Don't flame (personally attack) someone. It is possible to disagree with an idea without flaming the person espousing the idea.
- Use emoticons and acronyms (such as smiley, winky faces, or LOL) to convey your emotional intent in order to avoid misunderstandings. However, be very cautious. Emotions and intent are very difficult to interpret in writing. Never assume your communication will be received exactly as you intended.
- Remember that the concept of "politeness" is defined for us by the families and cultures of which we are a part. What is considered polite communication in one family or culture may be impolite in another. Sometimes you may inadvertently seem impolite or feel that someone else was being impolite. Talk it out instead of assuming the person meant to be rude.
- Be a critical thinker by seeking clarity of meaning and understanding not on emotions, heresay, personal bias, or even traditions. If you're presenting a different viewpoint on a scientific topic, use scientific research and reputable websites to support your statements.
- Question ideas, not people.
- Attempt to see things from other perspectives.
- Text alone does not have tone, and intent is often difficult to determine. Be mindful of how your writings may be misconstrued by others.
- If you're uncertain about how to respond to a post, please wait a few minutes before posting a reply; allow yourself time to think about what has been said.
- If you feel you're being attacked, report it immediately to me. I will be monitoring discussions but not 24/7, so I may not be seeing things "live".

Syllabus Modifications Statement

The syllabus is subject to change and notification of changes will be made through course announcements. If there are any due date changes, these will be announced at least 3 business days prior to the new due date.

Plagiarism

Plagiarism is using another person's work without acknowledgment, making it appear to be one's own. Intentional and unintentional instances of plagiarism are considered instances of academic misconduct and are subject to disciplinary action such as failure on the assignment, failure of the course or dismissal from the university. The NMSU Library has more information and help on how to avoid plagiarism at <http://lib.nmsu.edu/plagiarism/> [↗] (<http://lib.nmsu.edu/plagiarism/>). In addition, in Module 0 you will be required to complete a Plagiarism Pledge. Any intentional or unintentional acts of plagiarism will receive a zero for the assignment and will undergo an NMSU student conduct review (<https://studentlife.nmsu.edu/conduct/index.html> [↗] (<https://studentlife.nmsu.edu/conduct/index.html>)).

Academic Misconduct








Academic misconduct will not be tolerated in this class.













Academic and non-academic misconduct: The Student Code of Conduct defines academic misconduct, non-academic misconduct and the consequences or penalties for each. The [Student Code of Conduct](http://studenthandbook.nmsu.edu/student-code-of-conduct/academic-misconduct/) (<http://studenthandbook.nmsu.edu/student-code-of-conduct/academic-misconduct/>) is available in the [NMSU Student Handbook](http://studenthandbook.nmsu.edu/) (<http://studenthandbook.nmsu.edu/>). Additional information can be found with the [Office of Student Conduct and Community Standards](https://studentlife.nmsu.edu/conduct/index.html) (<https://studentlife.nmsu.edu/conduct/index.html>).













NMSU Student Resources & Policies

Please visit <https://provost.nmsu.edu/faculty-and-staff-resources/syllabus/policies> (<https://provost.nmsu.edu/faculty-and-staff-resources/syllabus/policies.html>) for university policies and student services, including COVID-19, Student Accessibility Services, Discrimination and Disability Accommodation, academic misconduct, student services, final exam schedule, grading policies and more.

Course Summary:

| Date | Details | Due |
|------------------|--|------------|
| |  0.08 Syllabus Quiz (#1) (https://nmsu.instructure.com/courses/1436167/assignments/12138801) | due by 3pm |
| |  0.09 Netiquette Pledge (https://nmsu.instructure.com/courses/1436167/assignments/12138807) | due by 3pm |
| |  0.10 Deadline Pledge (https://nmsu.instructure.com/courses/1436167/assignments/12138816) | due by 3pm |
| Fri Mar 18, 2022 |  0.11 Plagiarism Pledge (https://nmsu.instructure.com/courses/1436167/assignments/12138799) | due by 3pm |
| |  0.12 Water Issues Pre-Test (https://nmsu.instructure.com/courses/1436167/assignments/12138808) | due by 3pm |
| |  CW.02 Community Water Group Assignments (https://nmsu.instructure.com/courses/1436167/assignments/12138805) | due by 3pm |
| Mon Mar 21, 2022 |  1.04 Water Sources Quiz (#2) (https://nmsu.instructure.com/courses/1436167/assignments/12138811) | due by 3pm |

| Date | Details | Due |
|------------------|--|------------|
| |  1.06 Water Cycle Quiz (#3) https://nmsu.instructure.com/courses/1436167/assignments/12138809 | due by 3pm |
| |  CW.03 HW1 Community Water Sources https://nmsu.instructure.com/courses/1436167/assignments/12138828 | due by 3pm |
| |  CW.04 Group Discussion: Community Water Sources https://nmsu.instructure.com/courses/1436167/assignments/12138823 | due by 3pm |
| |  2.04 Water Quality Quiz (#4) https://nmsu.instructure.com/courses/1436167/assignments/12138806 | due by 3pm |
| |  2.06 Water Impacts Human Impacts Quiz (#5) https://nmsu.instructure.com/courses/1436167/assignments/12138810 | due by 3pm |
| Mon Mar 28, 2022 |  CW.05 Class Research Discussion: Water Sources in All Communities https://nmsu.instructure.com/courses/1436167/assignments/12138822 | due by 3pm |
| |  CW.06 Paper #1: Community Water Sources https://nmsu.instructure.com/courses/1436167/assignments/12138829 | due by 3pm |
| |  3.04 HW2 Diagram Plant-Water Relations https://nmsu.instructure.com/courses/1436167/assignments/12138824 | due by 3pm |
| |  3.07 HW3 Water Use Requirements & Production Costs for Student's Week https://nmsu.instructure.com/courses/1436167/assignments/12138825 | due by 3pm |
| Mon Apr 4, 2022 |  CW.07 Group Discussion: Your Community's Water Chemistry https://nmsu.instructure.com/courses/1436167/assignments/12138821 | due by 3pm |
| |  CW.08 Group Discussion: Your Community Water's Impact to Humans https://nmsu.instructure.com/courses/1436167/assignments/12138820 | due by 3pm |
| |  3.08 Paper #2: Comparing three alternative water sources https://nmsu.instructure.com/courses/1436167/assignments/12138826 | |

| Date | Details | Due |
|------|--|-----|
| |  3.09 Plant-Water Relations Quiz (#6) (https://nmsu.instructure.com/courses/1436167/assignments/12138803) | |
| |  4.05 Water Users Quiz (#7) (https://nmsu.instructure.com/courses/1436167/assignments/12138800) | |
| |  5.05 Water & Civilizations Quiz (#8) (https://nmsu.instructure.com/courses/1436167/assignments/12138813) | |
| |  5.06 Paper #3: Civilization Analyses: Big and Little (https://nmsu.instructure.com/courses/1436167/assignments/12138827) | |
| |  6.06 Water Wars Quiz (#9) (https://nmsu.instructure.com/courses/1436167/assignments/12138804) | |
| |  6.07 Group Discussion: Success and Fairness of Current US Water Policy (https://nmsu.instructure.com/courses/1436167/assignments/12138817) | |
| |  7.04 Future of Water Quiz (#10) (https://nmsu.instructure.com/courses/1436167/assignments/12138802) | |
| |  CW.09 Class Research Discussion: Community Water Sources Impacts to Humans (https://nmsu.instructure.com/courses/1436167/assignments/12138819) | |
| |  CW.10 HW4 Community Water Source Users (https://nmsu.instructure.com/courses/1436167/assignments/12138830) | |
| |  CW.11 VP Summarize Your Community's Water Sources, Quality, and Users (https://nmsu.instructure.com/courses/1436167/assignments/12138831) | |
| |  CW.12 Group Discussion: Community Water Source Costs for Residential and Agricultural Use (https://nmsu.instructure.com/courses/1436167/assignments/12138818) | |
| |  CW.13 HW5 Individual Research on Community Alternative Water Sources (https://nmsu.instructure.com/courses/1436167/assignments/12138832) | |

Date

Details

Due

 [CW.14 Term Paper: Urban Water and Society](#)

<https://nmsu.instructure.com/courses/1436167/assignments/12138833>

 [Exam #1 \(Modules 1-3\)](#)

<https://nmsu.instructure.com/courses/1436167/assignments/12138812>

 [Exam II \(Modules 4-6\)](#)

<https://nmsu.instructure.com/courses/1436167/assignments/12138814>

 [Final Exam](#)

<https://nmsu.instructure.com/courses/1436167/assignments/12138815>
