# WATER 777 ECOLOGY AND MANAGEMENT OF THE LAURENTIAN GREAT LAKES SECTION 1

**SPRING SEMESTER 2022, 3 CREDITS** 

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Office Hours (via Zoom): 11-12 Thursdays or email me to setup appointment.

**Zoom Office Hours Link: <b>ZOOM Passcode:** 942867

Format: This course will be taught 100% on-line

Objectives: Students are expected to read both textbooks, participate in online discussions, and

complete all assignments. At the completion of the course, students will have an understanding of important policies related to the management of the Great Lakes, be able to explain how invasive species have negatively affected native flora and fauna and water quality within the Laurentian Great Lakes and understand how species invasions within the Great Lakes have contributed to the spread of invasive species throughout North America. Students will also develop an understanding of the principles of fishery and aquatic sciences, and water rights and management within the ecological, economic, political, and socio-cultural environments within the Laurentian Great Lakes. Discussions will be centered around fisheries and aquatic management, water resources and rights, human users, and relevant policies related to the management of the Laurentian Great Lakes. Students will develop issue briefs and policy resolutions related to contemporary

problems within the Great Lakes.

*Textbooks:* Egan, Dan. 2017. The Death and Life of the Great Lakes.

Annin, Peter. 2018. The Great Lakes Water Wars. Island Press, Washington, D.C.

Supplemental info: Additional peer-reviewed articles, selected book chapters, and important policy

documents will be available on the course Canvas site.

Canvas site: https://uwstp.instructure.com/courses/479432

*Format:* The course is completely online. The course cover topics ranging from the history of the Great Lakes, to major contemporary and historical policy decisions, the effects of invasive species on Great Lakes ecosystems, fisheries management, and working with human users within the Great Lakes.

*Grading:* Assignments will not be accepted if they are turned in after the due date, other than for extenuating circumstances such as a family or health emergency. If you believe your assignment or discussion may be late, please contact Dr. VanDeHey ahead of time. Communication with me is key. Final grades for the course will be awarded as follows:

A	93.0-100%	B+	87.0-89.9%	C+	77.0-79.9%	D+	67.0-69.9%
A-	90.0-92.9%	В	83.0 -86.9%	C	73.0-76.9%	D	60.0-66.9%
		B-	80 0-82 9%	C-	70 0-72 9%	F	<60%

## **Graded Materials**

Class Participation	=	50 points
Policy Resolutions $(n = 2)$	=	100 points
Issue Briefs $(n = 3)$	=	150 points
Discussions $(n = 5)$	=	100 points
Total	=	400 points

#### **Tentative Schedule:**

### Weeks 1-6: Important Policies

**Great Lakes Compact** 

Water Resources Development Act (WRDA)

Riparian Doctrine

Commerce Clause

Great Lakes Charter and Annex

**Discussion** #1 – What is water? A commodity or a natural resource? (Due Feb. 2<sup>nd</sup>)

Supplemental Power Point: The re-plumbing of Lake Michigan

**Discussion #2** – Water Diversions from the Great Lakes; where do we draw the line? (Due Feb. 16<sup>th</sup>)

**Issue Brief** #1 – Water Diversion - City of Racine, Village of Mount Pleasant & Foxconn (Due Feb. 23<sup>rd</sup>)

## Weeks 7-12: Fisheries and Aquatic Management

Recreational and Commercial Fisheries

Consent Decree and the Ceded Territory Management

**Issue Brief** #2 – Consent Decree and tribal fishing (Due Mar 16<sup>th</sup>)

Invasive species

**Discussion #3** – Invasive species; which have been the most harmful to ecosystem and people? (Due Mar. 30<sup>th</sup>)

**Issue Brief** #3 – Ecological and hydrologic separation of Lake Michigan and Mississippi watersheds (Due Apr. 6<sup>th</sup>)

**Policy Resolution** #1 – Invasive species in the Great Lakes (Due Apr.  $13^{th}$ )

## Weeks 13-16: Emerging Issues

## Climate Change

**Discussion #4** – Conveying climate science to the lay audience (Due Apr. 27<sup>th</sup>)

Policy resolution #2 – Effects of Climate Change on Great Lakes Coregonids (Due May

11th) – This policy resolution represents your "Final Exam."

## **COVID – 19 Guidelines**

Face Coverings: • At all UW-Stevens Point campus locations, the wearing of face coverings is mandatory in all buildings, including classrooms, laboratories, studios, and other instructional spaces. Any student with a condition that impacts their use of a face covering should contact the Disability and Assistive Technology Center to discuss accommodations in classes. Please note that unless everyone is wearing a face covering, in-person classes cannot take place. This is university policy and not up to the discretion of individual instructors. Failure to adhere to this requirement could result in formal withdrawal from the course.

Other Guidance: • Please monitor your own health each day using this screening tool. If you are not feeling well or believe you have been exposed to COVID-19, do not come to class; email your instructor and contact Student Health Service (715-346-4646). As with any type of absence, students are expected to communicate their need to be absent and complete the course requirements as outlined in the syllabus. • Maintain a minimum of 6 feet of physical distance from others whenever possible. • Do not congregate in groups before or after class; stagger your arrival and departure from the classroom, lab, or meeting room. • Wash your hands or use appropriate hand sanitizer regularly and avoid touching your face. • Please maintain these same healthy practices outside the classroom.

## The University of Wisconsin – Stevens Point College of Natural Resources Principles of Professionalism

**Integrity**—Integrity refers to adherence to consistent moral and ethical principles. A person with integrity is honest and treats others fairly.

**Collegiality**—Collegiality is a cooperative relationship. By being collegial you are respecting our shared commitment to student education through cooperative interaction. This applies to all involved in the process: students, staff, faculty, administration and involved community members. You take collective responsibility for the work performed together, helping the group attain its goals.

**Civility**– Civility refers to politeness and courtesy in your interactions with others. Being civil requires that you consider the thoughts and conclusions of others and engage in thoughtful, constructive discussion to express your own thoughts and opinions.

**Inclusivity**-Inclusivity requires you to be aware that perspective and culture will control how communication is understood by others. While many values are shared, some are quite different. These differences in values should be both considered and respected.

**Timeliness**—Timeliness is the habit of performance of tasks and activities, planned in a way that allows you to meet deadlines. This increases workplace efficiency and demonstrates respect for others' time.

**Respect for Property**-Respect for property is the appreciation of the economic or personal value an item maintains. Maintaining this respect can both reduce costs (increase the operable life of supplies and equipment) as well as demonstrate respect for others rights.

**Communication**-Professional norms in communication require that you demonstrate the value of your colleagues, students, professors or others. The use of appropriate tone and vocabulary is expected across all forms of communication, whether that communication takes place face to face, in writing or electronically.

Commitment to Quality-Quality is the ability to meet or exceed expectations. By having a commitment to quality, we intend to provide a learning environment that is conducive to learning. Intrinsic to this commitment to quality is defining expectation (committed to in a syllabus through learning outcomes), implementation (with quality control in place) and assessment (where meeting of learning outcomes is determined).

**Commitment to Learning-**Learning is a lifelong process. By being committed to learning you are providing a model for all to follow. This model is not only professor to student but involves all combinations of people within our university and broader community.

### **Important Links and Information**

UWSP Community Bill of Rights and Responsibilities

UW-Stevens Point values a safe, honest, respectful, and inviting learning environment. In order to ensure that each student has the opportunity to succeed, we have developed a set of expectations for all students and instructors. This set of expectations is known as the *Rights and Responsibilities* document, and it is intended to help establish a positive living and learning environment at UWSP. For more information visit:

http://www.uwsp.edu/stuaffairs/Pages/rightsandresponsibilities.aspx

Academic integrity is central to the mission of higher education in general and UWSP in particular. Academic dishonesty (cheating, plagiarism, etc.) is taken very seriously. Don't do it! The minimum penalty for a violation of academic integrity is a failure (zero) for the assignment. For more information, see the UWSP "Student Academic Standards and Disciplinary Procedures" section of the *Rights and Responsibilities* document, Chapter 14, which can be accessed here:

http://www.uwsp.edu/stuaffairs/Documents/RightsRespons/SRR-2010/rightsChap14.pdf

Americans with Disabilities Act (ADA) Statement

The Americans with Disabilities Act (ADA) is a federal law requiring educational institutions to provide reasonable accommodations for students with disabilities. For more information about UWSP's policies, check here:

http://www.uwsp.edu/stuaffairs/Documents/RightsRespons/ADA/rightsADAPolicyInfo.pdf

If you have a disability and require classroom and/or exam accommodations, please register with the Disability and Assistive Technology Center and then contact me at the beginning of the course. I am happy to help in any way that I can. For more information, please visit the Disability and Assistive Technology Center, located on the 6th floor of the Learning Resource Center (the Library). You can also find more information here:

http://www4.uwsp.edu/special/disability/

**Emergency Events** 

In the event of a medical emergency, call 911 or use red emergency phone located outside TNR room 256. Offer assistance if trained and willing to do so. Guide emergency responders to victim.

In the event of a tornado warning, proceed to the lowest level interior room without window exposure. In this case, stay in TNR 252, it is one of the designated shelter areas.

#### See

 $\frac{https://campus.uwsp.edu/sites/facplan/campus/Evacuation\%20Floor\%20Plans/CNR\%20Sept\%20EMERG}{ENCY\%20SC\%20SECOND\%20FLOOR\%20(1).pdf}$ 

for floor plans showing severe weather shelters on campus. Avoid wide-span rooms and buildings.

In the event of a fire alarm, evacuate the building in a calm manner. Meet at <u>the library</u>. Notify instructor or emergency command personnel of any missing individuals.

Active Shooter – Run/Escape, Hide, Fight. If trapped hide, lock doors, turn off lights, spread out and remain quiet. Follow instructions of emergency responders.

See UW-Stevens Point Emergency Management Plan at <a href="www.uwsp.edu/rmgt">www.uwsp.edu/rmgt</a> for details on all emergency response at UW-Stevens Point."