

Aquatic Insects (WATR 488/688), Fall 2020

Location: Lab 351 TNR, + other rooms **Lecture:** online **Lab:** Section 1: T 2:00-3:50 pm
Instructor: Dr. Jered Studinski **Email:** jered.studinski@uwsp.edu Section 2: T 4:00-5:50 pm
Office: TNR 184 **Phone:** (715) 346-2832
Office Hours: M 1-3 pm and T 11 am-1 pm via a persistent Zoom meeting room, but also online or in person upon request

Description: Life histories, ecology, behavior, taxonomy, and identification of lotic and lentic aquatic insects. Field collections of aquatic insects and discussions of habitat preferences and water quality influences.

Learning outcomes: After completing this course, students will be able to: 1) identify all aquatic insect orders without the use of a taxonomic key and common families of Wisconsin using a dichotomous key, 2) describe the collection methods and collect aquatic insects from major habitat types, 3) describe the general ecology, behavior, food habits, life cycles, and water quality factors affecting the distribution of aquatic insect groups, and 4) construct a scientific collection of aquatic insects.

Required Course Materials: "Guide to Aquatic Invertebrates of the Upper Midwest" by R. W. Bouchard Jr. (text rental).

Recommended Course Materials: Waders, rubber boots, and a collecting buddy.

Grading: Lecture exams 1, 2, and 3: 280 points total
 Lab practicals 1 and 2: 100 points total
 Aquatic insect collection: 140 points

Letter grades: Grades are rounded to the nearest 1%. For example, an 89.51% = A-, while an 89.49% = B+.

100-92% = A	89-88% = B+	79-78% = C+	69-68% = D+	59-0% = F
91-90% = A-	87-82% = B	77-72% = C	67-62% = D	
	81-80% = B-	71-70% = C-	61-60% = D-	

Topics covered: This course covers the evolution, ecology, and resource management implications of the common orders and families of aquatic insects, with some coverage of other important invertebrate groups. For more details, see the schedule.

Attendance policy: Attendance is expected, and you will not do well if you miss class. Missed lectures and labs will translate into missed points on quizzes, exams, assignments, and activities. If you must be absent, please tell me why *before* the absence, unless it is an emergency. Only with an excused absence (e.g. death of a family member, serious illness, hospitalization) will I allow you to make up or nullify any missed quizzes, exams, activities, etc.

Graduate students: Grades for the course follow the above guidelines. In addition, a 40-minute seminar on a selected and approved topic will be required. The seminar will be worth 40 points.

Electronic devices: Do not use them in class. Be considerate, or you will be asked to leave. Taking notes on tablets and laptops is discouraged, as research suggests it harms your performance and the performance of those around you. However, if you must take notes electronically, please sit along the sides or in the back of the room.

Tentative schedule:

Week	Date	Tues. Lecture (online)	Date	Tues. Lab (2-4 pm or 4-6 pm, incl. practicals)	Date	Thurs. Lecture (online)
1					3-Sep	Introduction to the course, collection
2	8-Sep	Lec. 1 Non-insect aquatic invertebrates	8-Sep	Collect insects, identify insects	10-Sep	Lec. 2 Class Insecta overview
3	15-Sep	Lec. 2 Class Insecta overview	15-Sep	Collect insects, identify insects	17-Sep	Lec. 3 Orders of Insecta
4	22-Sep	Lec. 3 Orders of Insecta	22-Sep	Collect insects, identify insects	24-Sep	Flex time, review
5	29-Sep	Lec. exam 1, all previous material, 80 pts	29-Sep	Collect insects, identify insects	1-Oct	Lec. 4 Ephemeroptera
6	6-Oct	Lec. 4 Ephemeroptera	6-Oct	Collect insects, identify insects	8-Oct	Lec. 5 Odonata
7	13-Oct	Lec. 6 Plecoptera	13-Oct	Collect insects, identify insects	15-Oct	Lec. 7 Hemiptera
8	20-Oct	Lec. 7 Hemiptera	20-Oct	Collect insects, identify insects	22-Oct	Lec. 8 Coleoptera
9	27-Oct	Lec. 8 Coleoptera	27-Oct	Lab practical 1, through Hemiptera, 50 pts	29-Oct	Flex time, review
10	3-Nov	Lec. exam 2, Ephem.-Coleop., 100 pts	3-Nov	Collect insects, identify insects	5-Nov	Lec. 9 Mega./Neur./Lepid.
11	10-Nov	Lec. 10 Trichoptera	10-Nov	Collect insects, identify insects	12-Nov	Lec. 10 Trichoptera
12	17-Nov	Lec. 11 Diptera	17-Nov	Collect insects, identify insects	19-Nov	Lec. 11 Diptera
13	24-Nov	Lec. 12 Bioassessment	24-Nov	Collection due at the end of the lab, 140 pts	26-Nov	No class (Thanksgiving)
14	1-Dec	Lec. 12 Bioassessment	1-Dec	Lab practical 2, Megaloptera-Diptera, 50 pts	3-Dec	Lec. 13 Drift
15	8-Dec	Lec. 14 Spatial and temporal factors	8-Dec	No lab (no in-person classes)	10-Dec	Flex time, review
16	16-Dec (Wednesday), Lec. Exam 3 (final exam), Diptera-end, 100 pts					

Care Team: The University of Wisconsin-Stevens Point is committed to the safety and success of all students. The Office of the Dean of Students supports the campus community by reaching out and providing resources in areas where a student may be struggling or experiencing barriers to their success. Faculty and staff are asked to be proactive, supportive, and involved in facilitating the success of our students through early detection, reporting, and intervention. As your instructor, I may contact the Office of the Dean of Students if I sense you need additional support which individually I may not be able to provide. You may also share a concern if you or another member of our campus community needs support, is distressed, or exhibits concerning behavior that is interfering with the academic or personal success or the safety of others, by reporting here: <https://www.uwsp.edu/dos/Pages/Anonymous-Report.aspx>.

Title IX: UW-Stevens Point is committed to fostering a safe, productive learning environment. Title IX and institutional policy prohibit discrimination based on sex, which includes harassment, domestic and dating violence, sexual assault, and stalking. If you choose to disclose information about having survived sexual violence, including harassment, rape, sexual assault, dating violence, domestic violence, or stalking, and specify that this violence occurred while a student at UWSP, federal and state laws mandate that I, as your instructor, notify the Title IX Coordinator/Office of the Dean of Students. Please see the information on the Dean of Students webpage for information on making confidential reports of misconduct or interpersonal violence, as well as campus and community resources available to students.
Dean of Students: <https://www.uwsp.edu/DOS/sexualassault/Pages/default.aspx>
Title IX page: <https://www.uwsp.edu/hr/Pages/Affirmative%20Action/Title-IX.aspx>

Disability and Accommodations: In accordance with federal law and UW System policies, UWSP strives to make all learning experiences as accessible as possible. If you need accommodations for a disability (including mental health, chronic or temporary medical conditions), please visit with the Disability and Assistive Technology Center to determine reasonable accommodations and notify faculty. After notification, please discuss your accommodations with me so that they may be implemented in a timely fashion.
DATC contact info: datctr@uwsp.edu; 715/346-3365; 609 Albertson Hall, 900 Reserve Street

FERPA: The Family Educational Rights and Privacy Act (FERPA) provides students with a right to protect, review, and correct their student records. Staff of the university with a clear *educational need to know* may also have to access to certain student records. Exceptions to the law include parental notification in cases of alcohol or drug use, and in case of a health or safety concern. FERPA also permits a school to disclose personally identifiable information from a student's education records, without consent, to another school in which the student seeks or intends to enroll.

Academic Integrity: Academic Integrity is an expectation of each UW-Stevens Point student. Campus community members are responsible for fostering and upholding an environment in which student learning is fair, just, and honest. Through your studies as a student, it is essential to exhibit the highest level of personal honesty and respect for the intellectual property of others. Academic misconduct is unacceptable. It compromises and disrespects the integrity of our university and those who study here. To maintain academic integrity, a student must only claim work which is the authentic work solely of their own, providing correct citations and credit to others as needed. Cheating, fabrication, plagiarism, unauthorized collaboration, and/or helping others commit these acts are examples of academic misconduct, which can result in disciplinary action. Failure to understand what constitutes academic misconduct does not exempt responsibility from engaging in it. For more information on UWS chapter 14 visit: <https://www.uwsp.edu/dos/Pages/Student-Conduct.aspx>

Reporting Incidents of Bias/Hate: It is my intent that students from all diverse backgrounds and perspectives be well-served by this course, that students' learning needs be addressed both in and out of class, and that the diversity that the students bring to this class be viewed as a resource, strength and benefit. It is my intent to present materials and activities that are respectful of diversity: gender identity, sexuality, disability, age, socioeconomic status, ethnicity, race, nationality, religion, and culture. Your suggestions are encouraged and appreciated. Please let me know ways to improve the effectiveness of the course for you personally, or for other students or student groups.
If you have experienced a bias incident (an act of conduct, speech, or expression to which a bias motive is evident as a contributing factor regardless of whether the act is criminal) at UWSP, you have the right to report it: <https://www.uwsp.edu/dos/Pages/Anonymous-Report.aspx>. You may also contact the Office of the Dean of Students directly at dos@uwsp.edu. Diversity and College Access is available for resources and support of all students: <https://www.uwsp.edu/dca>.

Clery Act: The US Department of Education requires universities to disclose and publish campus crime statistics, security information, and fire safety information annually. Statistics for the three previous calendar years and policy statements are released on or before October 1st in our Annual Security Report. Another requirement of the Clery Act is that the campus community must be given timely warnings of ongoing safety threats and immediate/emergency notifications. For more information about when and how these notices will be sent out, please see our Jeanne Clery Act page at <https://www.uwsp.edu/dos/clery>.

The Drug Free Schools and Communities Act (DFSCA) requires institutions of higher education to establish policies that address unlawful possession, use, or distribution of alcohol and illicit drugs. The DFSCA also requires the establishment of a drug and alcohol prevention program. The Center for Prevention lists information about alcohol and drugs, their effects, and the legal consequences if found in possession of these substances.
Center for Prevention – DFSCA: <https://www.uwsp.edu/dos/aoda-ipv/Pages/dfsc.aspx>

Copyright infringement is the act of exercising, without permission or legal authority, one or more of the exclusive rights granted to the copyright owner under section 106 of the Copyright Act. Each year students violate these laws and campus policies, putting themselves at risk of federal prosecution. For more information about what to expect if you are caught, or to take preventive measures to keep your computing device clean, visit our copyright page at <http://libraryguides.uwsp.edu/copyright>.

Online teaching: Lecture materials and recordings for this course are protected intellectual property at UW-Stevens Point. Students in this course may use the materials and recordings for their personal use related to participation in this class. Students may also take notes solely for their personal use. If a lecture is not already recorded, you are not authorized to record my lectures without my permission unless you are considered by the university to be a qualified student with a disability requiring accommodation. [Regent Policy Document 4-1] Students may not copy or share lecture materials and recordings outside of class, including posting on internet sites or selling to commercial entities. Students are also prohibited from providing or selling their personal notes to anyone else or being paid for taking notes by any person or commercial firm without the instructor's express written permission. Unauthorized use of these copyrighted lecture materials and recordings constitutes copyright infringement and may be addressed under the university's policies, UWS Chapters 14 and 17, governing student academic and non-academic misconduct.

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.