

# Aquatic Insects (WATR 488/688), Fall 2019

**Location:** Lec. 352 TNR, Lab 351 TNR    **Lecture:** T/R 10:00– 10:50 am    **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:** TBA

**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 practical 1, 2, and 3: 140 points total  
 Aquatic insect collection: 170 points  
 Various assignments, projects, field trips, and activities: ~25 pts

**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:** Note that assignments, quizzes, and activities are not shown, but will occur throughout the semester.

Week	Date	Lecture	Date	Lab	Date	Lecture
1	3-Sep	Introduction	3-Sep	Collection requirements, distribute supplies	5-Sep	Lec. 1 Non-insect aquatic invertebrates
2	10-Sep	Lec. 1 Non-insect aquatic invertebrates	10-Sep	<i>Field trip (Schmeckle Reserve)</i>	12-Sep	Lec. 2 Class Insecta overview
3	17-Sep	Lec. 2 Class Insecta overview	17-Sep	Collection methods, work on collection	19-Sep	Lec. 3 Orders of Insecta
4	24-Sep	Lec. 3 Orders of Insecta	24-Sep	Review orders, work on collection	26-Sep	Review, example questions
5	1-Oct	<b>Lecture exam 1, 80 pts</b>	1-Oct	<b>Lab practical 1, 40 pts</b>	3-Oct	Go over exam, Lec. 4 Ephemeroptera
6	8-Oct	Lec. 4 Ephemeroptera	8-Oct	<i>Field trip (wetland or stream)</i>	10-Oct	Lec. 5 Odonata
7	15-Oct	Lec. 6 Plecoptera	15-Oct	Review orders, work on collection	17-Oct	Lec. 7 Hemiptera
8	22-Oct	Lec. 7 Hemiptera	22-Oct	<i>Field Trip (wetland or stream)</i>	24-Oct	Lec. 8 Coleoptera
9	29-Oct	Lec. 8 Coleoptera	29-Oct	Review orders, work on collection	31-Oct	Review
10	5-Nov	<b>Lecture exam 2, 100 pts</b>	5-Nov	<b>Lab practical 2, 50 pts</b>	7-Nov	Go over exam, Lec. 9 Mega./Neur./Lepid.
11	12-Nov	Lec. 9 Mega./Neur./Lepid.	12-Nov	Review orders, work on collection	14-Nov	Lec. 10 Trichoptera
12	19-Nov	Lec. 11 Diptera	19-Nov	Review orders, work on collection	21-Nov	Lec. 11 Diptera
13	26-Nov	Lecture converted to lab	26-Nov	Review orders, work on collection	28-Nov	<b>No class (Thanksgiving)</b>
14	3-Dec	Lec. 12 Bioassessment	3-Dec	<b>Lab practical 3, 50 pts</b>	5-Dec	Lec. 13 Drift
15	10-Dec	Lec. 14 Spatial and temporal factors	10-Dec	<b>Collection due at the end of the lab (170 pts)</b>	12-Dec	Flex time, review
16	18-Dec (Wednesday)	<b>Final Exam (Lecture exam 3) 100 pts (12:30-2:30 pm TNR 352)</b>				

## 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](mailto: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](mailto: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 1<sup>st</sup> 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/dfsca.aspx>

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