

## COURSE SYLLABUS

<b>COURSE TITLE:</b>	<b>BIOL 466.3 - Aquatic Insects</b>	<b>TERM:</b>	Fall 2018
<b>COURSE CODE:</b>	CRN 86664	<b>DELIVERY:</b>	Lecture/Lab/Field Trips
<b>COURSE CREDITS:</b>	3 cu	<b>START DATE:</b>	September 7, 2018
<b>CLASS SECTION:</b>	01	<b>LAB LOCATION:</b>	213 Biology Bldg.
<b>CLASS LOCATION:</b>	213 Biology Bldg.	<b>LAB TIME:</b>	1:30-4:20 Fridays
<b>CLASS TIME:</b>	1:30 – 4:00, Mondays		
<b>WEBSITE:</b>	<a href="http://dennislehmkuhl.com">dennislehmkuhl.com</a>		

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<b>LECTURER:</b>	<b>D.M. Lehmkuhl</b> <b>Rm. 308 Biology</b> <b>306-966-4408</b> <a href="mailto:dennis.lehmkuhl@usask.ca">dennis.lehmkuhl@usask.ca</a>	<b>LABS:</b>	<b>D.M. Lehmkuhl</b> <b>Rm. 213 Biology</b> <b>306-966-4415</b>
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### COURSE DESCRIPTION:

Lectures on aquatic insects based on ecology, taxonomy, identification; practical applications, also library and field work, and special reports by students. Demonstration material will be examined in the lectures/labs. Students will make a large personal collection, identified and curated. The collection is a major part of the course.

**PREREQUISITES:** BIOL 121 and 224 (formerly BIOL 203) and BIOL 228 (formerly BIOL 253); or permission of the instructor.

### LEARNING OUTCOMES:

By the completion of this course, students will be expected to:

1. Become familiar with the families and major genera of aquatic insects of Saskatchewan and North America; Ecological topics and conservation will be emphasized.
2. Be able to recognize Orders and identify with confidence Families and selected Genera using appropriate taxonomic keys;
3. Develop skills in field collecting and sampling;
4. Learn library search skills and be familiar with major publications.

### COURSE OVERVIEW:

Weekly 3 hour labs and lectures will be devoted to identification of student-collected specimens and supplementary material to build a personal collection, which is a major requirement of the course.

Lecture/Lab periods: involve lectures, demonstration materials, reference publications techniques plus several field trips.

Students will each present a project or report on a topic of special interest to themselves.

### **CLASS SCHEDULE:**

Exact dates of field trips will depend on weather, vehicle availability and class progress.

Weekly lab periods will be devoted to keying and identification of specimens for the individual required collection. (Fridays, 1:30 – 4:30 p.m.)

**Lecture/Lab periods** (Mondays, 1:30 – 4:30) will include the following:

- Introductory lecture on objectives, requirements; survey of Saskatchewan biodiversity, major ecological and taxonomic studies, important reference works and keys.
- Field trips, 3 or 4, dates dependent on weather, vehicle availability & class progress;
- Lectures on Saskatchewan biodiversity, literature and sources relevant to Western Canada;
- Student discussion.

### **Important Dates – 2018**

- September 7, 2018            First class meeting( Rm 213 Biol) (Friday)
- September 10<sup>th</sup>            First Field Trip (Monday) (depending on weather)
- September 14<sup>th</sup>            First Lab (Friday)
- September 17<sup>th</sup>            Second Field Trip (Monday) (depending on the weather)
- October 8, 2016            Thanksgiving (Monday)
- November 12-16, 2018    MIDTERM BREAK
- December 6, 2018        Last Day of Classes (Thursday)

### **REQUIRED RESOURCES:**

**Readings/Textbooks:**            Aquatic Insects of North America, Fourth Edition, Merritt, Cummins & Berg

### **EVALUATION OF REQUIRED COURSEWORK:**

Lecture & Laboratory		
Oral Report <sup>1</sup>	10%	
Student Collection of Insects <sup>2</sup>	40%	(Due December 6th, 2018)
Midterm Examination <sup>3</sup>	10%	(October 26, 2018)

Final Examination<sup>4</sup>

40% to be determined.

<sup>1</sup>*Oral Report:* To be determined.

<sup>2</sup>*Collection:* A collection gathered by each student, properly identified and curated, suggest gotaxa (families or Ferrera)

<sup>3</sup>*Midterm Exam:* The midterm will be a closed-book exam on identification of Orders

<sup>4</sup>*Final Exam:* The final exam will be an open book keying exam, including selected Families, Genera and Species. Date to be determined.

\* Suggested topics for Oral Report: (students should provide a short, approximately 3 page, bibliography and summary to other class members and their professors)

Aquatic insects and concept of Biodiversity (or distribution and Biogeography)

Special topic in physiology that relates specifically to aquatic insects

Classification and phylogeny within a particular taxon of aquatic insects

Insect faunas in unique habitats (saline lakes, tree holes, pitcher plants, interstitial environment, temporary ponds)

Aquatic insects as pests or vectors of disease.

or an approved topic of your choice.

## EXAMINATIONS WITH DISABILITY SERVICES FOR STUDENTS (DSS):

Students who have disabilities (learning, medical, physical, or mental health) are strongly encouraged to register with Disability Services for Students (DSS) if they have not already done so. Students who suspect they may have disabilities should contact DSS for advice and referrals. In order to access DSS programs and supports, students must follow DSS policy and procedures. For more information, check <http://www.students.usask.ca/disability/> or contact DSS at 306-966-7273 or [dss@usask.ca](mailto:dss@usask.ca)

Students registered with DSS may request alternative arrangements for mid-term and final examinations. Students must arrange such accommodations through DSS by the stated deadlines. Instructors shall provide the examinations for students who are being accommodated by the deadlines established by DSS.

## ACADEMIC HONESTY

Academic honesty is a matter that the University and the Department of Biology take very seriously. Students must familiarize themselves with the rules regarding academic honesty. Ignorance of the rules regarding or the nature of academic dishonesty is not a defense against a charge. Potential punishments include expulsion from the University or revocation of a degree or diploma.

Many cases of plagiarism result from confusion or ignorance rather than from genuine intent to deceive. **Note, however, that these are not excuses:** "The critical consideration is the impression created in the mind of the others, not the subjective intent of the student. This determination involves an objective evaluation of the manuscript. No intent to deceive is required to establish plagiarism." (University Council policy on [Student Academic Misconduct](#))

The [University Guidelines for Academic Conduct](#) describes the University's expectations for both student and faculty conduct.

The definition of academic dishonesty that follows is copied from the University of Saskatchewan Council's policy document on [Student Academic Misconduct](#). **Note especially the definition of [plagiarism](#).**