



University of Wisconsin – Stevens Point
School of Physical Education & Athletic Training
Athletic Training Program



Course Title: Athletic Training 435: Research Methods in Athletic Training (3 cr.)

Semester: Fall 2016

Course Time: M: 9-9:50 Th: 9-10:50 HEC 147

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Available between 8am-8pm

Required Textbook—Research Methods in Kinesiology and the Health Sciences, 2014

Course Description: This course is designed for senior students enrolled in the athletic training major. Students should have completed the majority of the required course work and be in their final year on campus. This course will incorporate lecture material, guest speakers, discussions and individual projects to convey information relative to contemporary issues and research in athletic training.

Introduction: The purpose of this course is to provide you with an introduction to injury prevention and risk management principles. A **Letter to the Learner** available on D2L discusses my teaching philosophy and approach for this course. The focus throughout this course will be on evidenced based practice and designing research questions and projects to help that athletic training profession grow. This course will serve as the foundation to developing a research project to complete during your final semester in the athletic training program at UWSP.

- Prerequisites: Admission to AT major, senior standing in program, MATH 355
- Concurrent Practicum: AT 400

Course Expectations:

- **Instructor's Role**
 - Come to class prepared to foster an environment of learning for all students.
 - Respond to all phone calls and e-mails within 48 hours.
 - Make adjustments to the course schedule as necessary for student learning.
 - Treat all students with integrity and respect.
 - Bring the most current information to class.
- **Student's Role**
 - Come to class prepared to engage in class activities and discussions by completing all readings and course preparation listed on the syllabus along with any other information seeking that may enhance individual understanding of course information.
 - Stay on top of all deadlines and assignment due dates.
 - Ask questions to help further understanding the research process.
 - Be open and respectful of others' ideas and challenge previous knowledge.
- **Tips for Success**
 - Communicate early and often regarding class conflicts, assignments, and any questions regarding this course.
 - Take advantage of your resources.
 - Meet with research groups and create a meeting schedule.
 - Utilize the Tutor & Learning Center (<http://www.uwsp.edu/tlc/Pages/default.aspx>)

Enduring Understandings

Students will understand that...

- Academic research is a critical component to the future of athletic training and evidence based practice.
- The process required to complete a reliable and valid research study.
- The hierarchy of evidence in health care research.

Essential Questions (The heart of the course will answer...)

- How do you write a strong research question?
- What is the best research design to answer your question?
- What is evidence based practice and how does it help athletic training?
- What are the steps involved in the research process?
- Where the potential for bias occurs during research?

Knowledge, Skills, and Dispositions

Knowledge (Know)

Students will/can...

- Identify contemporary issues in athletic training research, how it relates to practice and how it helped in establishing clinical practice.
- Understand proper roles and professional responsibilities of the athletic trainer in the research setting.
- Discern the legal, medical, and ethical protocols related to research.

Skills (Able to do)

Students will/can...

- Discuss professional development issues and post-graduate decision-making as related to research.
- Apply basic research designs, methods and processes in athletic training related research.
- Interpret evidence-based research and its application to clinical practice.
- Develop competence in academic writing throughout the semester.

Dispositions (Value/Appreciate)

Students will/can...

- Understand the importance of research, grant writing and professional development.
- Understand and apply academic writing within the profession.
- Gain experience in engaging in accepted formats of academic writing in athletic training.

Learning Activities

Students will...

- Participate in class and small group discussions on academic research in athletic training.
- Create a resume, cover letter, and letter of recommendation.
- Critically analyze current research in athletic training.
- Create of research proposal and appropriate selection of research design including an IRB proposal.
- Engage in peer review process this semester on at least one assignment.
- Students will meet with the instructor on various writing assignments to give more direct feedback on their writing and to discuss further direction for writing improvement.

Assessment Evidence

Assessment Evidence

- Assignments – More details to be provided as assigned...
 - Development of a Group/Individual Research Project reflective of the basic design components discussed throughout this course – 150 pts
 - Design a research question with your research group or on your own – 10pts
 - Create a PICO question that can be answered through a research project.
 - Annotative bibliography – 30 pts
 - Each member of the group will complete an annotated bibliography on a specific topic related to the group research question.
 - IRB Human Subjects Proposal – 40 pts
 - The group will complete the UWSP human subjects per [UWSP Guidelines and Policies for Human Subject Research](#).
 - This will include completing the [Web Tutorial for Human Subjects Protection Training](#).
 - Development of research proposal, essential questions and literature review – 50pts
 - This process must be complete by the end of the semester so that data collection can begin no later than January 2016.
 - Develop and complete a research project by Feb 2017
 - Participation in class discussions and participation in your research team – 20 pts
 - Each week you will be given a minimum of 30 minutes to meet with your research group.
 - Participation of each member is required and will be evaluated by the research group and the class instructor.
 - Write a Critically Appraised Topic of the best available evidence on a question of your choice. – 50 pts
 - Individually perform a literature search and construct a one-page summary and critique of the best evidence.
 - Examples can be found at:
 - <https://cats.uthscsa.edu/>
 - <http://journals.humankinetics.com/jsr-extras/jsr-extras/jsr-critically-appraised-topics-cats>

Grading Scale:

Final letter grades will be awarded as follows:

A: 94-100%	C: 73-76%
A-: 90-93%	C-: 70-72%
B+: 87-89%	D+: 65-69%
B: 83-86%	D: 60-64%
B-: 80-82%	F: 59% or below
C+: 77-79%	

Additional Information

Class Policies

- Daily class attendance and **active participation** in class are required.
 - For every 2 unexcused absences to class will result in the loss of a ½ letter grade. Excused absences must be approved prior to class with verbal approval from the instructor. No electronic communication is accepted. Exams may not be made up unless the instructor gives prior approval.
 - Students are solely responsible for obtaining any course material missed due to absence.
- Students shall come to class on time and prepared to engage in meaningful discussion. Reading and written assignments are to be completed prior to the beginning of each class. If student arrives late it will be counted as an unexcused absences. See above policy regarding unexcused absences.
- Students will be expected to complete all assignments on time based on the syllabus and due dates given by the instructor. Assignments turned in late will be dropped one letter grade per day. Students should expect additional assignments throughout the semester to facilitate learning.
- This course will use Desire 2 Learn (D2L) throughout the semester to distribute materials, conduct online quizzes/discussions, and inform students of syllabus changes become familiar with D2L and make it a point to check the course page on D2L regularly.
- The use of cell phones will not be accepted during class time. Any cell phones used during class will be confiscated until the class time.
- Computers and tablets may be used in class to take notes and as warranted during class activities. Computers may not be used for social media, personal email or other non-class related activities.
- Students are expected to treat everyone with respect and disrespect of any kind will not be tolerated. If anyone feels uncomfortable during class for any reason please feel free to discuss your concerns with the instructors.

University Policies:

- Academic Integrity
 - The board of regents, administrators, faculty, academic staff and students of the university of Wisconsin system believe that academic honesty and integrity are fundamental to the mission of higher education and of the university of Wisconsin system. The university has a responsibility to promote academic honesty and integrity and to develop procedures to deal effectively with instances of academic dishonesty. Students are responsible for the honest completion and representation of their work, for the appropriate citation of sources, and for respect of others' academic endeavors. Students who violate these standards must be confronted and must accept the consequences of their actions.
- Attendance Policy
 - Attend all your classes regularly. We do not have a system of permitted "cuts." If you decide to drop a class, please do so using myPoint or visit the Enrollment Services Center. Changes in class enrollment will impact your tuition and fee balance, financial aid award and veterans educational benefit. During the first eight days of the regular 16 week term, your instructor will take attendance (see [Attendance Roster Reporting](#)). If you are not in attendance, you may be dropped from the class. You are responsible for dropping any of your enrolled classes.
- Drop/Add/Withdrawal Policy
 - You are expected to complete the courses for which you register. If you decide you do not want to take a course, you MUST follow the procedures established by the university to OFFICIALLY DROP the course. If you never attend or stop attending a course and fail to officially drop, you will receive an F in the course at end of the semester.

- Incomplete Policy
 - If you are unable to complete your work in a course due to extenuating circumstances or if you need to extend your research or performance beyond the normal limits of a term, you may ask the instructor for an “incomplete” in the course. You will have until the end of the next semester (excluding summer session) to complete the work unless your instructor gives you an earlier deadline. Failure to complete the work prior to the appropriate deadline will result in a grade of F.
- Students’ Rights and Responsibilities
 - The Office of Student Rights and Responsibilities protects your rights as a student. If you believe that your rights have been violated, or if you have questions concerning your rights, write or visit the office in Room 139 Delzell Hall, or call 715-346-2611.
- Academic Accommodation Policy
 - Individuals seeking accommodations are expected to demonstrate initiative in obtaining and arranging assistance. The Accommodation Request Form needs to be completed for each qualified student with a disability on a one-to-one basis. Students are encouraged to meet with the Disability & Assistive Technology Center staff early in the semester to discuss which accommodations are appropriate (based on disability and documentation) and what accommodations are needed.
- Emergency Procedures
 - “In the event of a medical emergency, call 911 or use red emergency phone. 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 the athletic training facility. Avoid wide-span rooms and buildings.
 - In the event of a fire alarm, evacuate the building in a calm manner. Meet outside the Quandt Gym entrance. 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 www.uwsp.edu/rmgt for details on all emergency response at UW-Stevens Point.”
- **All University Policies can be found in the University Handbook**
<http://www.uwsp.edu/acadaff/Pages/handbook.aspx>

Course Schedule Fall 2016

Date	Topic and Question of Week	Readings	Assignments Due
9/7	Introduction-Course Expectations Research Questions		
9/12	Research Types	Chapter 1	Bring IBR Submission Form
9/14	IRB & Ethics	Chapter 5	CITI Training
9/19	Evidence Based Practice		
9/21	Literature Review	Chapter 3	
9/26	WORK DAY		IRB DRAFT
9/28	WORK DAY		IRB PROPOSAL
10/3	Developing Research	Chapter 4	
10/5	Types of Research	Part II (Chapters 6-9)	
10/10	WORK DAY		
10/12	WORK DAY		ANNOTATED BIBLIOGRAPHY
10/17	Types of Research	Part II (Chapters 6-9)	
10/19	Types of Research		
10/24	WORK DAY		
10/26	WORK DAY		
10/31	Statistical Analysis	Chapters 10-15	
11/2	Statistical Analysis		
11/7	Statistical Analysis		
11/9	WORK DAY		CRITICALLY APPRAISED TOPIC
11/14	Results Section		
11/16	Discussion Section		
11/21	Presenting Research	Chapter 17	
11/23	WORK DAY		
11/28	WORK DAY		
11/30	Presenting Research		
12/5	Poster Presentation		
12/7	FINAL WORK DAYS		
12/12	FINAL WORK DAYS		
12/14	In-Class Presentations		RESEARCH POSTER PRESENTATIONS
12/21	FINAL EXAM 1015-1215		