KIN269: Evidence-Based Research in the Practice in Management and Assessment of Injuries to the Upper Extremity
Section 1, Wednesday, 7:00-8:45, SPX 75

COURSE DESCRIPTION:
The course emphasizes current practices in the orthopedic assessment and care of upper extremity and injuries to overhead athletes. The course will take a multidisciplinary approach with scientific and clinical outcomes. Also, the orthopedic assessment and care of the elbow and wrist are discussed.

PREREQUISITE: This course is intended for graduate students who have completed CAATE undergraduate programs and successfully passed the board of certification examination (ATC) or equivalent. All other students are required instructor's permission.

GRADUATE PROGRAM LEARNING OBJECTIVES (PLOs)
Upon successful completion of the kinesiology graduate program, students will be able to:

(1) conduct and critique research using theoretical and applied knowledge.
(2) interpret and apply research findings to a variety of disciplines within Kinesiology.
(3) effectively communicate essential theories, scientific applications, and ethical considerations in Kinesiology.
(4) acquire skills to become agents of change to address issues in Kinesiology through the application of knowledge and research.

COURSE-SPECIFIC STUDENT LEARNING OBJECTIVES (SLOs)
Upon successful completion of the course requirements, students will be able to:

(1) increase one’s knowledge of functional anatomy, physiology, neurophysiology, biomechanics and injury prevention, assessment and treatment regarding upper extremity.
(2) develop an appreciation of appropriate research publications and current clinical research in the field of athletic training/sports medicine.
(3) gain further appreciation for the multidisciplinary nature of the athletic training/sports medicine profession.
(4) apply recognition and assessment skills of shoulder disease, such as frozen shoulder to diverse populations: various age groups, disabled individuals, sport populations, etc.
(5) gain knowledge of the elbow injury in baseball players, so called Tommy John surgery...
and the rehabilitation process.

REQUIREMENTS


(2) Selected reading articles available on Canvas

CLASS STRUCTURE

This course will be conducted using a combined lecture and seminar format. Lecture material will be integrated with class discussion and research presented by students. All students should be prepared to discuss and exchange information during each class session. Students will sign up to present information from published research reports, and students will present and exchange information from their review papers.

EVALUATION & GRADING

(1) Midterm Exam: 30%
(2) Short Paper (Written Critique): 30%
(3) Final Exam (comprehensive): 20%
(4) Surgery Observation Report: 10%
(5) Dissection Reports: 10%

The course is based on a percentage scale (100%). The breakdown is as follows:

- A: 100-93%, A-: 92-90%
- B+: 89-87%, B: 86-83%, B-: 82-80%
- C+: 79-77%, C: 76-73%, C-: 72-70%
- D+: 69-67%, D: 66-63%, D-: 62-60%
- F: <60%
Midterm and Final Exams

- Exams provide the opportunity to demonstrate mastery of course content. Exams may include true-false, multiple choice, matching, and essay questions that require integration and synthesis of knowledge. Excellent responses will demonstrate advanced and in-depth understanding of neurophysiological systems, factors limiting the effects of therapeutic interventions on the healing process. Responses should include material from assigned readings, class discussions.

- Exams are to be taken on the dates scheduled. Make-up exams are permitted only for illness and emergency (truly extraordinary circumstances). The student is responsible for notifying the instructor and making arrangements at the earliest possible time. In most cases, the midterm exam must be completed before the next class meeting. All requests for make-up exams will be evaluated on an individual basis.

Short Paper (Written Critique)

- This short paper provides an opportunity to develop analytic and critical reading skills. Each student will submit a written critique of the articles selected by the instructor. The student will search and choose at least one article relative to the assigned article, which supports your critique. The article must be a peer-reviewed article. You will first summarize the assigned article; then, critique the findings and methods with the article that you found. Grading will be based on quality of content, identification of understanding of the study and quality of writing (syntax, grammar, and spelling).

- Each paper should be typed, single-spaced, using a 12-point (or easily readable) font and 1" margins. Each paper should not exceed one page. However, less than 3/4 pages are considered too short.

Reading Articles  Due Date
(1) Hinterwimmer 2003  WED, April 2
(2) Bitter 2007  WED, April 9
(3) Oyama 2010  WED, April 16
(4) Cools 2007  WED, April 23
(5) De Mey 2013  WED, April 30

Surgery Observation

- You will write a one page surgery observation report. You will be expected to observe a surgery that helps you improve the knowledge of injuries in athletics. You will write about the surgical process, thoughts, and reflection on what you observed and learned and how it all relates to the research.

- You may ask the Bay Area Surgery Group Inc. for an opportunity to observe a surgery. Dr. DH Haber, Team Orthopedist of Sports Medicine, SJSU will welcome you to observe his surgery. You may also seek an opportunity of surgery observation at your clinical site.
Dissection Reports

- You will write a one page reflection on each of the dissections. You have dissection labs with the shoulder and forearm specimens for this class. You will be expected to observe such specimens performed by an orthopedist to improve your professional knowledge and skills.

Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester’s adding and dropping classes at http://slisweb.sjsu.edu/current-students/registration-and-enrollment/adding-and-dropping-classes

GENERAL INFORMATION

- Because this course uses a lecture/seminar format, all students are expected to actively participate in, and contribute to, each class. This requires that students are prepared to discuss assigned readings, respond to material presented, and contribute their unique thoughts and knowledge. The most effective class results when EACH class member makes an INDIVIDUAL COMMITMENT to be an active participant in the teaching/learning process. Individual contributions and differing viewpoints will be appreciated and respected.

- Academic integrity is essential to the mission of San José State University. Students are responsible for understanding and upholding the university’s academic integrity policy (policy S04-12). Academic integrity statement (from the Office of Student Conduct and Ethical Development): “Your own commitment to learning, as evidenced by your enrollment at San José State University, and the University’s Academic Integrity Policy requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the Office of Student Conduct and Ethical Development.” The policy on academic integrity can be found at http://sa.sjsu.edu/judicial_affairs/faculty_and_staff/academic_integrity/index.html

- All assignments submitted for a grade must be original and the work of the student.

- All written assignments are due on the scheduled date. Late work may be graded down as follows: Papers submitted Thursday through Friday drop 10% of the original scores (e.g., 20 pts → 18 pts, 18 pts→ 16.2 pts). Papers turned in Friday through Tuesday drop 20% of the original scores (e.g., 20 pts→ 16 pts). Papers turned in one week late drop 30% (e.g., 20 pts → 14 pts). Students should talk with the instructor if a paper cannot be completed within more than one week of the due date.

- In most cases, oral presentations will not be rescheduled, and students will receive a 0 score if unable to present when scheduled. Truly extraordinary circumstances should be discussed with the instructor at the earliest possible moment.

- Campus policy in compliance with the Americans with Disabilities Act: “If you need
course adaptations or accommodations because of a disability, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 requires that students with disabilities requesting accommodations must register with DRC to establish a record of their disability.” DRC: Admin 110, 924-6000

- February 4 is the last day to drop this course without a “W” being assigned. According to University policy, dropping this course after Feb 4 “is permissible only for serious and compelling reasons. Unsatisfactory performance in coursework is not a serious and compelling reason in itself for requesting permission to drop” (SJSU 2008-2010 Catalog, p. 480). The last day to add is February 11; however, students who receive add codes should use them as soon as possible.

PLAGIARISM

"Plagiarism in student writing is often unintentional, as when an elementary school pupil, assigned to do a report on a certain topic, goes home and copies down, word for word, everything on the subject in an encyclopedia. Unfortunately, some students continue to use such ‘research methods’ in high school and even in college without realizing that these practices constitute plagiarism. You may certainly use other persons’ words and thoughts in your research paper, but you must acknowledge the authors" (Gibaldi & Achttert, 1988, p. 22).

Writing research papers requires that you use the work and ideas of others; however, these ideas are the property of the original author -- the original author MUST be indicated by a reference citation [e.g., (author, year), footnote, or (#) corresponding to the citation in the reference list]. Every source listed in the reference list must be cited in your paper, and every source cited in your paper must be included in the reference list. (Exception: Personal communications are cited in the paper, but are not included in the reference list.) It is not necessary to cite sources of common knowledge; common knowledge is what any knowledgeable person in the field would know (Corder & Ruszkiewicz, 1989). However, any information that is not common knowledge MUST be cited whether or not it is a direct quotation. If in doubt, credit your source.

To avoid unintentional plagiarism, read the reference, then SET IT ASIDE while you summarize what you read IN YOUR OWN WORDS. You may THEN go back to the reference to check the accuracy of your notes and to ensure that you have not inadvertently taken direct quotes from the reference. DO NOT TAKE NOTES DIRECTLY FROM THE REFERENCE and DO NOT WRITE YOUR PAPER DIRECTLY FROM YOUR REFERENCES -- plagiarism frequently results from these practices.

When taking notes, you may paraphrase the author's words or you may summarize the author's words. In both cases, you MUST cite the original author. "If you merely rearrange a few words in an original passage, or include a few words of your own, and then pass the idea along as yours, you have committed plagiarism" (Bingham, 1982, p. 163).

If you do not sufficiently understand what you have read to summarize and integrate it into your paper, do NOT use that reference. It is NOT acceptable to use a direct quotation in place of understanding the ideas.
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***NOTE:*** The course outline of topics is tentative and subject to change with fair warning; we will cover topics as time permits and according to guest speaker availability. Once all guest speakers and facilities have confirmed, the instructor will issue a course schedule.***

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