

ATH 911 – Cross-Training for Sports

Independent Study Course Syllabus

Number of Units: 3 Graduate Semester Units

Target Grade Level: 4th through 14th grade

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Course Description

- Excelling in any sport requires the athlete to achieve and maintain high level conditioning without over-training. All athletes need strength, power, quickness, and flexibility in order to successfully compete, but most don't know how to achieve this year-round. This course will explore how to add new training methods into the athlete's current program. The best aerobic, anaerobic, strength, power, speed, endurance, agility, balance, and flexibility exercises for many sports will be illustrated and fully explained. This course will assist coaches and fitness enthusiasts in creating new and improved sport programs that will allow them to develop personalized training programs to target areas for improvement. Finally, the participant will learn about the training principles involved in cross-training along with the energy needs for various sports.
- Course assignments encourage participants to integrate specific national standards for physical education. Objectives for each lesson are modeled around standards-based learning as identified by SHAPE America. Evidence of learning is tied directly to stated objectives and is assessed via analysis and application papers, training programs, testing programs, reflective evaluations and peer learning. The course is designed for teachers and coaches of 4th through 14th grade students.

Required Course Materials

- **Course Packet:** The packet is divided into the following six sections: Section 1: General Information, Section 2: Course Information, Section 3: Course Readings, Section 4: Course Assignments, Section 5: Course Bibliography / Supplemental Readings, and Section 6: Instructor Biography and Course Evaluation.
- **Grade Request** – After you have completed all your coursework, you will need to request your grade via the instructions in the Course Packet.

Course Dates

- This course is self-paced; students may enroll at any time and take up to one year to complete assignments.
- You have up to one year from the date of registration, and no less than three weeks (one week per credit), to complete the course.

Course Requirements

Students will be expected to:

- Read and apply all material from your course packet to selected assignments.
- Complete the Analysis and Application Papers based on the Course Readings from your course packet.
- Create a Cross-Training Program for a student athlete based on the information in your course packet.
- Implement the Cross-Training Program designed for at least 4 weeks, and write a brief reflection on the positive and negative aspects of the program.
- Interview an athletic coach about his/her current training program and ways he/she could enhance it with cross-training principles.
- Implement the cross-training program you designed. During the program, chart the progress for as many of the cross-training elements as appropriate for the sport.
- Complete all assignments within the allocated timeframe – 1 year from enrollment date.
- Submit all typed coursework in the organized format described within the Schedule of Topics and Assignments section.
- Keep a copy of their coursework in the event something gets lost or destroyed.
- Complete the designated assignments for either the B grade / Credit or A grade option.

Student Learning Objectives (SLOs)

Student Learning Outcomes in this Course Student will be able to:	SHAPE America National Standards Addressed*	Continuing Education Program Student Learning Outcomes Addressed**
1. Identify and integrate standards into many aspects of their teaching and coaching as demonstrated through their coursework.	2, 3, 4	1, 2, 3, 4, 5
2. Describe their role in shaping their student athletes to become “physically	1, 2, 3, 4, 5	1, 2, 5

educated students”.		
3. Comprehend the benefits and popularity of cross-training.	2, 3, 4, 5	1, 2, 3, 4, 5
4. Understand how cross-training can enhance strength, speed, and power while preventing boredom, over-training, and burnout.	1, 2, 3	2, 3, 4, 6
5. Establish sport-specific goals after assessing your student athlete’s strengths and weaknesses.	1, 2, 3	2, 4, 6
6. Apply the steps and principles to develop a sport-specific and year-round cross-training program for your student athlete.	2, 3, 5	1, 2, 4, 6
7. Appreciate the human body and its ability to perform physical activity.	1, 2, 3, 4, 5	2, 3, 4, 5

* Please refer to the section on **National Standards Addressed in This Course**

** Please refer to the section on **Continuing Education Program Student Learning Outcomes**

National Standards Addressed in This Course

“Standards are an enduring commitment, not a passing fancy.”

-California State Board of Education

National Board for Professional Teaching Standards (NBPTS) (www.nbpts.org)

NBPTS was created in 1987 after the Carnegie Forum on Education and the Economy’s Task Force on Teaching as a Profession released A Nation Prepared: Teachers for the 21st Century.

The five core propositions form the foundation and frame the rich amalgam of knowledge, skills, dispositions and beliefs that characterize National Board Certified Teachers (NBCTs).

Course assignments have been designed so students can demonstrate excellence against these professional teaching standards whenever possible.

- Teachers are committed to students and their learning
- Teachers know the subject they teach and how to teach those subjects to students
- Teachers are responsible for managing and monitoring student learning
- Teachers think systematically about their practice and learn from experience
- Teachers are members of learning communities

National Physical Education Standards by SHAPE America (www.shapeamerica.org/standards/pe/index.cfm)

The following content standards defined by SHAPE America specify what students should know and be able to do as result of a quality physical education program. States and local school districts across the country use the National Standards to develop or revise existing standards, frameworks and curricula. Participants are asked to apply these standards in their teaching practices and demonstrate them within their coursework.

- SHAPE 1 - The physically literate individual demonstrates competency in a variety of motor skills and movement patterns.
- SHAPE 2 - The physically literate individual applies knowledge of concepts, principles, strategies and tactics related to movement and performance.
- SHAPE 3 - The physically literate individual demonstrates the knowledge and skills to achieve and maintain a health-enhancing level of physical activity and fitness.
- SHAPE 4 - The physically literate individual exhibits responsible personal and social behavior that respects self and others.
- SHAPE 5 - The physically literate individual recognizes the value of physical activity for health, enjoyment, challenge, self-expression and/or social interaction.

Common Core State Standards (www.corestandards.org)

The Common Core State Standards provide a consistent, clear understanding of what students are expected to learn, so teachers and parents know what they need to do to help them. The standards are designed to be robust and relevant to the real world, reflecting the knowledge and skills that our young people need for success in college and careers. With American students fully prepared for the future, our communities will be best positioned to compete successfully in the global economy.

College and Career Readiness Anchor Standards for Reading

The grades 6–12 standards on the following pages define what students should understand and be able to do by the end of each grade span. They correspond to the College and Career Readiness (CCR) anchor standards below by number. The CCR and grade-specific standards are necessary complements—the former providing broad standards, the latter providing additional specificity—that together define the skills and understandings that all students must demonstrate.

Key Ideas and Details

- Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.
- Determine central ideas or themes of a text and analyze their development; summarize the key supporting details and ideas.
- Analyze how and why individuals, events, or ideas develop and interact over the course of a text.

Craft and Structure

- Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative meanings, and analyze how specific word choices shape meaning or tone.
- Analyze the structure of texts, including how specific sentences, paragraphs, and larger portions of the text (e.g., a section, chapter, scene, or stanza) relate to each other and the whole.
- Assess how point of view or purpose shapes the content and style of a text.

Integration of Knowledge and Ideas

- Integrate and evaluate content presented in diverse formats and media, including visually and quantitatively, as well as in words.
- Delineate and evaluate the argument and specific claims in a text, including the validity of the reasoning as well as the relevance and sufficiency of the evidence.
- Analyze how two or more texts address similar themes or topics in order to build knowledge or to compare the approaches the authors take.
- Read and comprehend complex literary and informational texts independently and proficiently.

Continuing Education Program Student Learning Outcomes

- CE 1 - Demonstrate proficient written communication by articulating a clear focus, synthesizing arguments, and utilizing standard formats in order to inform and persuade others, and present information applicable to targeted use.
- CE 2 - Demonstrate comprehension of content-specific knowledge and the ability to apply it in theoretical, personal, professional, or societal contexts.
- CE 3 - Reflect on their personal and professional growth and provide evidence of how such reflection is utilized to manage personal and professional improvement.
- CE 4 - Apply critical thinking competencies by generating probing questions, recognizing underlying assumptions, interpreting and evaluating relevant information, and applying their understandings to the professional setting.
- CE 5 - Reflect on values that inspire high standards of professional and ethical behavior as they pursue excellence in applying new learning to their chosen field.
- CE 6 - Identify information needed in order to fully understand a topic or task, organize that information, identify the best sources of information for a given enquiry, locate and critically evaluate sources, and accurately and effectively share that information.

Schedule of Topics, Assignments, and Activities

This section of the syllabus describes exactly what material the participant must cover and in what sequence. Assignments and activities are integrated with the topics to show the relationship between learning and practice within a standards-based learning environment.

- **Analysis and Application Readings and Papers**

The “Analysis and Application” papers address the ways to improve physical conditioning and performance as presented in your course packet. Each paper will be 3 to 4 pages and include two sections: analysis (discussing the major points presented in the reading) and application (applying the major points to a training program).

The Analysis and Application papers are the primary mechanism by which you will provide evidence of the following: a) You have read and understood the major points of each specific reading assignment, b) You are able to apply what you have learned in a practical way to implement a Cross- Training Program, and c) You are able to integrate the course material with your own personal experiences involving sport training programs.

- **Cross-Training Program**

Based on the information learned from the course, design a personal cross-training program for a student athlete or athletic team. You will need to assess your student athlete’s strengths and weaknesses in their sport or activity. Working with the athlete, establish some sport-specific goals based on their strengths, weaknesses, and sport. Consider the information outlined in the course and develop an off-season Cross-Training Program. Most sport training is divided into three seasons: Off-season, pre-season, and in-season. This assignment only requires you to create a comprehensive off-season program.

The Cross-Training Program will serve as a tool for you to put the principles presented in this course into practice. This exercise is extremely valuable for any coach who truly desires to improve the strength, power, speed, and agility of his/her athletes. After reading the course readings, you will know the five variables involved in designing a safe and effective cross-training program: a) frequency, b) intensity, c) duration, d) mode of activity, and e) progression. Now is the time to design and implement your sport-specific cross-training program.

- **Coach’s Interview**

Interview an active coach focusing on his/her current training program. You will develop a list of questions that will address his/her current training program and his/her interest in integrating some of the cross-training principles covered in this course into his/her own training program.

This assignment will help you gain a deeper understanding of another coach’s perspective on cross-training programs. Not all coaches believe that cross-training can improve athletic performance. Some (even well educated) coaches believe that time would be better spent on skill development.

- **Training Program Reflection**

Implement the Cross-Training Program you designed above for at least 4 weeks. After 4 weeks, write a brief reflection addressing positive and negative aspects of the program.

This exercise is useful for evaluating your training program and gathering ideas that will make your future programs successful. By taking a little time to reflect, you should objectively see principles/steps that worked well and those that need modifications. This process will allow you to develop a greater appreciation for your cross-training improvement program.

- **Charting Progress**

The benefit of maintaining a training log comes in gaining feedback on how well your efforts are working to help you accomplish your performance goals. This exercise is useful for evaluating your training program and for gathering ideas that will help you make your cross-training programs more successful.

It's relatively easy for athletes to measure progress by simply comparing times and performances from race to race and from training session to training session. Nevertheless, every athlete realizes that a time for a 100-mile cycling race with a 15 mph tailwind cannot be accurately compared to the same distance race with a strong headwind. The same is true for running and swimming events. No course is the same on any given day (given no environmental controls). This being the case, competitors who want to chart their course and progress must develop a number of objective and subjective measures of evaluation. All levels of athletic ability can profit from the same evaluation methods. Because we don't all think the same way, we shouldn't attempt to chart our progress in exactly the same way. Both objective and subjective measures are beneficial in the charting and evaluation process. The chart below lists some of the more common objective and subjective measures that can be focused on.

Technology Requirements

Email Communication

I encourage email communication, but require that the subject line of all emails contain the course number/name and your name. For example: "ATH 911 - Andy Herrick". For security purposes, emails sent without any subject in the subject line will not be opened.

Plagiarism and Academic Honesty

All people participating in the educational process at Fresno Pacific University are expected to pursue honesty and integrity in all aspects of their academic work. Academic dishonesty, including plagiarism, will be handled according to the procedures set forth in the Fresno Pacific University Catalogue. URL <http://www.fresno.edu>

Evidence of Learning

Evidence that the student achieved the course objective includes:

- Course instructor observed evidence of understanding of course objectives as demonstrated through student's analysis and reflective writing assignments.
- Course instructor observed evidence of understanding of course objectives as demonstrated through student's presentation of a cross training program.
- Student demonstrated insightful thinking by analyzing the strengths and weaknesses of their cross training program.
- Student demonstrated a deeper understanding of cross-training programs by interviewing another coach and developing a reflective response.
- Student included the use of higher level thinking skills to make connections to professional coaching and teaching standards from SHAPE America.
- Student demonstrated how they might use professional coaching and teaching standards from SHAPE America in their future strategies, techniques, and course content.

Grading Policies and Rubrics for Assignments

Course participants have the option of requesting a letter grade (A-grade or B-grade) or a Credit / No Credit when submitting the online grade form. Students will submit their grade request when all coursework has been completed.

The participant's grade will be determined by the quality and number of assignments they choose to complete. Each assignment outlined in the course packet includes a rubric which clearly describes the expectations for the course assignment. The discernment between an A or a B grade is at the discretion of the instructor based on the quality of work submitted. Any assignment falling below the "B-grade" or "Credit-grade" quality (below 80%) threshold will be returned to the participant with further instructions.

Outlined below are the assignment requirements for each type of grade option.

- Four assignments - All coursework must receive "B-grade" or better for participants who are working for the "B letter grade" or "Credit" option.
- Six assignments - All coursework must receive "A-grade" or better for participants who are working for the "A letter grade" option.

B letter grade / Credit - (All coursework must receive B-grade or better for this option)

- Complete two (2) Analysis and Application Readings and Paper(s)
- Complete the Cross-Training Program
- Complete only one (1) of the following:
 - Coach's Interview
 - Training Program Reflection
 - Charting Progress

A Letter Grade - (All coursework must receive A-grade or better for this option)

- Complete three (3) Analysis and Application Readings and Paper(s)
- Complete the Cross-Training Program
- Complete only two (2) of the following:
 - Coach's Interview
 - Training Program Reflection
 - Charting Progress

Final Grading and Transcripts

- Upon completion of all course assignments and activities, students will need to submit an online request for final course grade by logging into <http://ce.fresno.edu/cpd>.
- Transcripts may be ordered online after you receive your blue official computer-generated Grade Report. Refer to the current Independent Study Policy Statement provided to you by your instructor, or on the CPD website (<http://ce.fresno.edu/cpd>) for further information.

References - Books/Articles

Brown, L.E. & Ferrigno, V.A. (2005). Training for Speed, Agility, and Quickness. (2nd ed.). Champaign, IL: Human Kinetics.

Delavier, F. (2010). Strength Training Anatomy. (3rd ed.). Champaign, IL: Human Kinetics.

Dintiman, G., & Ward, B. (2003). Sports Speed. (3rd ed.). Champaign, IL: Human Kinetics.

Gambetta, V. (2007). Athletic Development. Champaign, IL: Human Kinetics.

Jeukendrup, A. & Gleeson, M. (2010). Sport Nutrition - An Introduction to Energy Production and Performance. (2nd ed.). Champaign, IL: Human Kinetics.

Lancaster, S. (2008). Athletic Fitness for Kids. Champaign, IL: Human Kinetics.

Moran, G. & McGlynn, G. (1997). Cross-training for sports. Champaign, IL: Human Kinetics.

National Strength and Conditioning Association. (2008). Essentials of Strength Training and Conditioning. (3rd ed.). Champaign, IL: Human Kinetics.

National Strength and Conditioning Association. (2008). Exercise Technique Manual for Resistance Training. (2nd ed.). Champaign, IL: Human Kinetics.

Newton, H. (2006). Explosive Lifting for Sports – Enhanced Edition. Champaign, IL: Human Kinetics.

Pire, N. (2006). Plyometrics for Athletes at All Levels: A Training Guide for Explosive Speed and Power. Berkeley, CA: Ulysses.

Radcliffe, J.C. (2007). Functional Training for Athletes at All Levels: Workouts for Agility, Speed and Power. Berkeley, CA: Ulysses

Wrisberg, C.A. (2007). Sport Skill Instruction for Coaches. Champaign, IL: Human Kinetics.

References - Websites

The Internet contains a wealth of information. By accessing the Internet you can gain a new perspective on many topics. The following web sites will help you explore the world of cross-training.

National Strength and Conditioning Association

www.nscs.com

As the worldwide authority on strength and conditioning, we support and disseminate research-based knowledge and its practical application to improve athletic performance and fitness.

SHAPE America

www.shapeamerica.org

The vision of SHAPE America is "Healthy People – Physically Educated and Physically Active!" SHAPE America is the largest organization of professionals involved in school-based health, physical education and physical activity, who are dedicated to teaching and promoting active, healthy lifestyles. Founded in 1885, SHAPE America provides a comprehensive array of resources, leadership in the development of standards and guidelines, professional development and advocacy for its members as well as the general public. SHAPE America's mission is to advance professional practice and promote research related to health and physical education, physical activity, dance, and sport.

Sports Fitness Advisor

www.sport-fitness-advisor.com

Sport Fitness Advisor's endeavor is to deliver, usable sports training tips, programs and workouts for enthusiastic athletes. On this website you'll find a section on each of the major components of fitness: strength training, power training, speed training, plyometrics, body composition, endurance training, and flexibility training.

Athletics' Acceleration

www.completespeedtraining.com

Athletes' Acceleration is a performance enhancement company whose mission is to improve the knowledge base of motivated coaches and athletes in order to improve athletic performance. Through articles, DVDs, manuals, interviews with top specialists in the sports performance industry, this website provides coaches with the most up-to-date training principles required to successfully develop and maximize the overall athletic ability of each athlete.

Human Kinetics

www.humankinetics.com

Human Kinetics is an information leader in delivering innovative books, DVDs, and programs for coaching and fitness professionals. Human Kinetics is committed to providing quality informational and educational products in the physical activity and health fields that meet the needs of their diverse customers. We are committed to not only providing information, but whenever possible to providing solutions that help our customers practice their professions better and live healthier, more enjoyable lives.

FRESNO PACIFIC UNIVERSITY STUDENT LEARNING OUTCOMES

Student Learning Outcomes Oral Communication: Students will <i>exhibit</i> clear, engaging, and confident oral communication – in both individual and group settings – and will critically <i>evaluate</i> content and delivery components.
Written Communication: Students will <i>demonstrate</i> proficient written communication by <i>articulating</i> a clear focus, <i>synthesizing</i> arguments, and utilizing standard formats in order to <i>inform</i> and <i>persuade</i> others.
Content Knowledge: Students will <i>demonstrate</i> comprehension of content-specific knowledge and the ability to apply it in theoretical, personal, professional, or societal contexts.
Reflection: Students will <i>reflect</i> on their personal and professional growth and <i>provide evidence</i> of how such reflection is utilized to manage personal and vocational improvement.
Critical Thinking: Students will <i>apply</i> critical thinking competencies by <i>generating</i> probing questions, <i>recognizing</i> underlying assumptions, <i>interpreting</i> and <i>evaluating</i> relevant information, and <i>applying</i> their understandings to new situations.
Moral Reasoning: Students will <i>identify</i> and <i>apply</i> moral reasoning and ethical decision-making

skills, and *articulate* the norms and principles underlying a Christian world-view.

Service: Students will *demonstrate* service and reconciliation as a way of leadership.

Cultural and Global Perspective: Students will *identify* personal, cultural, and global perspectives and will employ these perspectives to *evaluate* complex systems.

Quantitative Reasoning: Students will accurately *compute* calculations and symbolic operations and *explain* their use in a field of study.

Information Literacy: Students will *identify* information needed in order to fully understand a topic or task, *explain* how that information is organized, *identify* the best sources of information for a given enquiry, *locate* and critically *evaluate* sources, and accurately and effectively *share* that information.