Stephen F. Austin State University  
Dept. of Kinesiology and Health Science  
KIN 467-003 Exercise Testing Field/Clinical  
Spring 2018

Instructor: James Rowe, Ph.D.  
Office: EDAN 107  
Office Hours: MW 12-2:30pm  
Office phone: 936-468-7098  
Other Contact Information: 936-468-3503

Course Time: TR 2:00 – 3:15pm  
Course Location: EDAN 114  
Course Credits: 3  
Email: rowej@sfasu.edu

Prerequisites: KIN 340, KIN 353

I. Course Description:
This course examines the specific testing procedures used to assess fitness levels and physiological responses during bouts of exercise. Emphasis will be given to clinical experiences, data interpretation, and student proficiency in performing and monitoring various assessments.

II. Intended Learning Outcomes/Goals/Objectives (Program/Student Learning Outcomes):
• This course links with SFA Initiative #4: Develop a learner-centered environment.  
• This course links with SFA’s COE Goal and Initiative #2: Prepare educators and industry professionals.  
• This course links with SFA Initiative #5: Create new learning opportunities through additional interdisciplinary, international, service learning, and civic engagement experiences.  
• This course links with the KHS departmental standards for the Fitness and Human Performance Program.

Program Learning Outcomes:
1. The student will demonstrate an understanding of basic principles of physical fitness concepts and the utilization of available technology in assessing fitness levels, performance, and physiological effects during various levels of physical stress.  
2. The student will demonstrate knowledge of kinesiological principles and content.  
3. The student will design and implement physical education learning experiences that are developmentally appropriate, safe, and that utilize principles of effective instruction.

Student Learning Outcomes:
• Students will demonstrate ability to design and implement test batteries appropriate for specific populations. (PLO 1,2,3)  
• Students will be able to identify various exercise tests and demonstrate ability to implement such tests. (PLO 1,3)  
• Students will demonstrate ability to identify both normal and abnormal physiological responses to exercise testing. (PLO 1,3)

Fitness and Human Performance Program Standards
• The student will demonstrate knowledge and abilities in exercise physiology and related exercise science. (PLO 1,2,3)  
• The student will demonstrate knowledge and abilities associated with physiological risk factors. (PLO 1,3)  
• The student will demonstrate knowledge and abilities in fitness and clinical exercise testing. (PLO 1,3)  
• The student will demonstrate knowledge and abilities associated with exercise prescription and programming. (PLO 1,2,3)
* A primary guide for the course is information and skills required for certification through the American College of Sports Medicine as a “Certified Exercise Physiologist” (ACSM EP-C), formerly the “Health and Fitness Specialist” certification.

III. Course Assignments and Activities:

Exams
Cognitive evaluation will consist of 2 – 3 exams and a final exam. Exams will consist of multiple guess, short answer, and practical questions. In addition, students will be assessed based on lab data collection and lab evaluations. Questions will be taken from various sources (review and preparation text) listed in the textbook and resource materials section.

Laboratory Evaluations
Students will work both individually and in groups to complete laboratory evaluations based on data collected in lab in several areas of study (PLO 1,2). The laboratory evaluations will include: 1.) a proper demonstration of data collection specific to the physiological variables of interest (i.e. lab methods), 2.) an explanation of the results collected from the data, and 3.) an evaluation (i.e. pop quiz) of the student’s interpretation and application of the results. Each individual will submit 1 laboratory evaluation for each lab assignment.

Make Up Assignments/Exams – Make up exams/labs will only be granted for EXCUSED absences (according to university policy); make up exams/reports will not be given for any other circumstances. Prior arrangements must be made in critical cases. If a student is absent (unexcused) on exam day he/she will earn a zero for that exam. If a student is absent (unexcused) on days lab assignments are scheduled in class he/she will have 10% deducted for his/her final grade. Any additional assignments given in class will be counted as extra credit towards your final grade.

IV. Evaluation and Assessment

Grading & Evaluation

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<tr>
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<th>Grading Scale</th>
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<tr>
<td></td>
<td>Percent</td>
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<tr>
<td>Laboratory Evaluations</td>
<td>20% of course grade</td>
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<tr>
<td>Quizzes (Lab – Based)</td>
<td>20% of course grade</td>
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<tr>
<td>Exams (2 – 4)</td>
<td>60% of course grade</td>
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Tentative Course Outline/Calendar:

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Day</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>1/16</td>
<td>T</td>
<td>Introduction/Syllabi</td>
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<tr>
<td></td>
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<td></td>
<td><strong>Ch. 1: Health-Related and Physical Fitness Concepts</strong>&lt;br&gt;Discuss terminology and concepts associated with evaluation of physical fitness. Risks and Benefits of Physical Activity</td>
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<tr>
<td>1</td>
<td>1/18</td>
<td>R</td>
<td><strong>Ch. 2 (3,4) Pre-Participation Health Screening</strong>&lt;br&gt;How to identify risk factors for CVD prior to exercise testing? Contraindications to Exercise Testing; Clinical vs. Diagnostic Tests</td>
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<tr>
<td>2</td>
<td>1/23</td>
<td>T</td>
<td><strong>LAB # 1- Ch. 3 (4) Cardio/Pulmonary</strong>&lt;br&gt;Blood Pressure Responses (Rest vs. Exercise) Principles of Exercise Testing</td>
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<tr>
<td></td>
<td>1/25</td>
<td>R</td>
<td><strong>LAB # 1- Ch. 3 (4) Cardio/Pulmonary</strong>&lt;br&gt;Blood Pressure Responses (Rest vs. Exercise)</td>
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<tr>
<td>3</td>
<td>1/30</td>
<td>T</td>
<td><strong>LAB # 1- Ch. 3 (4) Cardio/Pulmonary</strong>&lt;br&gt;Blood Pressure Responses (Rest vs. Exercise)</td>
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<tr>
<td></td>
<td>2/1</td>
<td>R</td>
<td><strong>Ch. 3 (4) Principles of Cardiorespiratory Fitness Testing</strong>&lt;br&gt;Review CV responses and the influence on VO₂max</td>
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<td>Week</td>
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<tr>
<td>4</td>
<td>2/6</td>
<td>T</td>
<td>Ch. 3 (4) Principles of Cardiorespiratory Fitness Testing&lt;br&gt;Predicting VO$_2$max with submaximal testing; Discuss prediction protocols</td>
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<tr>
<td>2/8</td>
<td>R</td>
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<td>LAB # 2 – Submaximal Exercise Testing&lt;br&gt;YMCA Protocol</td>
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<tr>
<td>5</td>
<td>2/13</td>
<td>T</td>
<td>LAB # 2 – Submaximal Exercise Testing&lt;br&gt;YMCA Protocol</td>
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<tr>
<td>2/15</td>
<td>R</td>
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<td>LAB # 2 – Submaximal Exercise Testing&lt;br&gt;Treadmill Protocols</td>
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<td>6</td>
<td>2/20</td>
<td>T</td>
<td>LAB # 2 – Maximal Exercise Testing&lt;br&gt;Predicting VO$_2$max with Maximal testing</td>
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<tr>
<td>2/22</td>
<td>R</td>
<td></td>
<td>Make-Up Day; Exam Review</td>
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<tr>
<td>7</td>
<td>2/27</td>
<td>T</td>
<td>EXAM # 1</td>
</tr>
<tr>
<td>3/1</td>
<td>R</td>
<td></td>
<td>No Class – TACSM Meeting in Austin, TX</td>
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<tr>
<td>8</td>
<td>3/6</td>
<td>T</td>
<td>Ch. 4 (4) Body Composition Assessment&lt;br&gt;Discuss various body composition assessment methods - BMI, skinfold circumference, waist circumference, bio-electrical impedance.&lt;br&gt;Discuss calculation of body fat%, lean mass, fat mass, ideal body weight.</td>
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<td>R</td>
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<td>LAB # 3 – Body Composition Assessment</td>
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<td>9</td>
<td>3/13</td>
<td>T</td>
<td>No Class – Spring Break</td>
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<td>3/15</td>
<td>R</td>
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<td>No Class – Spring Break</td>
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<td>10</td>
<td>3/20</td>
<td>T</td>
<td>LAB # 3 – Body Composition Assessment</td>
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<td>3/22</td>
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<td>Lab # 4 Ch. 3 (4) Cardio/Pulmonary Principles of Pulmonary Function Testing</td>
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<td>11</td>
<td>3/27</td>
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<td>Ch.5 (4) Muscular Fitness Testing/Flexibility Evaluation&lt;br&gt;Discuss strength vs. endurance; procedures for strength/endurance testing; Percentiles for ranking strength and endurance</td>
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<td>3/29</td>
<td>R</td>
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<td>No Class – Easter Holiday</td>
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<tr>
<td>12</td>
<td>4/3</td>
<td>T</td>
<td>Lab # 5 – Assessing Muscular Fitness/Flexibility (Lab is due today).</td>
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<td>4/5</td>
<td>R</td>
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<td>Make-Up Day; Exam Review</td>
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<tr>
<td>13</td>
<td>4/10</td>
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<td>EXAM # 2</td>
</tr>
<tr>
<td>4/12</td>
<td>R</td>
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<td>Ch. 3 (5) Electrocardiogram (ECG) Defining the ECG components; the pathway of the heart contraction; the association of heart contraction with blood flow.</td>
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<tr>
<td>14</td>
<td>4/17</td>
<td>T</td>
<td>Ch. 3 (5) Electrocardiogram (ECG) Review ECG basics and interpreting heart rhythm</td>
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<tr>
<td>4/19</td>
<td>R</td>
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<td>LAB # 5 - ECG Interpretation</td>
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<tr>
<td>15</td>
<td>4/24</td>
<td>T</td>
<td>LAB # 5 - ECG Interpretation</td>
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<tr>
<td>4/26</td>
<td>R</td>
<td></td>
<td>LAB # 5 - ECG Interpretation</td>
</tr>
<tr>
<td>16</td>
<td>5/1</td>
<td>T</td>
<td>Review for Final Exam</td>
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*Schedule is an approximation and could change*

**VI. Required Readings:**
Access to Desire2Learn to download class lectures and handouts – bring lab handouts to class.

Additional Resources

**VII. Course Evaluations:**
“Near the conclusion of each semester, students in the College of Education electronically evaluate courses taken within the COE. Evaluation data is used for a variety of important purposes including: 1. Course and program improvement, planning, and accreditation; 2. Instruction evaluation purposes; and 3. Making decisions on faculty tenure, promotion, pay, and retention. As you evaluate this course, please be thoughtful, thorough, and accurate in completing the evaluation. Please know that the COE faculty is committed to excellence in teaching and continued improvement. Therefore, your response is critical!
In the College of Education, the course evaluation process has been simplified and is completed electronically through MySFA. **Although the instructor will be able to view the names of students who complete the survey, all ratings and comments are confidential and anonymous, and will not be available to the instructor until after final grades are posted.**

**VIII. Student Ethics and Other Policy Information:**
Found at [https://www.sfasu.edu/policies](https://www.sfasu.edu/policies)

Class Attendance and Excused Absence: Policy 6.7
Attendance and participation, and, if indicated in the syllabus, submission of completed assignments are required at all times. Based on university policy, failure of students to adhere to these requirements shall influence the course grade, financial assistance, and/or enrollment status. The instructor shall maintain an accurate record of each student’s attendance and participation as well as note this information in required reports and in determining final grades. University travel, health or family emergencies, and legal obligations will be the only excused absences allowed (written documentation required for all). **Arriving late to class and early departure (unless previously arranged) is unacceptable.** After 2 such occurrences will result in a 2% reduction in the student’s final grade and an additional 1% reduction any additional occurrences. Whether absences are excused or unexcused, a student is still responsible for all course content and assignments. Students with excused absences may be permitted to make up work for up to 3 weeks during a fall/spring semester or 1 week of a summer term, depending on the nature of absence and the work missed. Make up work must be completed as soon as possible after returning from an excused absence. **No exceptions will be made for any of the above policies.**

Academic Accommodation for Students with Disabilities: Policy 6.1 and 6.6
To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004/468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to
Student Academic Dishonesty: Policy 4.1
Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

Definition of Academic Dishonesty
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one’s own work that has been purchased or otherwise obtained from an Internet source or another source; and (2) incorporating the words or ideas of an author into one’s paper without giving the author due credit.

Penalties for Academic Dishonesty
Penalties may include, but are not limited to reprimand, no credit for the assignment or exam, re-submission of the work, make-up exam, failure of the course, or expulsion from the university

Student Appeals
A student who wishes to appeal decisions related to academic dishonesty should follow procedures outlined in Academic Appeals by Students (6.3).

Please read the complete policy at http://www.sfasu.edu/policies/academic_integrity.asp

Withheld Grades Semester Grades: Policy 5.5
Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

Student Code of Conduct: Policy 10.4
Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy D-34.1). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the iCare: Early Alert Program at SFA. Information regarding the iCare program is found at https://www.sfasu.edu/judicial/earlyalert.asp or call the office at 936-468-2703.

Additional Information:
To complete Certification/Licensing Requirements in Texas related to public education, you will be required to:
1. Undergo criminal background checks for field or clinical experiences on public school campuses; the public school campuses are responsible for the criminal background check; YOU are responsible for completing the information form requesting the criminal background check. If you have a history of criminal activity, you may not be allowed to complete field or clinical experiences on public school campuses. At that point, you may want to reconsider your major while at SFASU.

2. Provide one of the following primary ID documents: passport, drivers license, state or providence ID cards, a national ID card, or military ID card to take the TExES exams (additional information available at www.texes.ets.org/registrationBulletin/ <http://www.texes.ets.org/registrationBulletin/>). YOU must provide legal documentation to be allowed to take these mandated examinations that are related to certification/licensing requirements in Texas. If you do not have legal documentation, you may want to reconsider your major while at SFASU.

3. Successfully complete state mandated a fingerprint background check. If you have a history of criminal activity, you may want to reconsider your major while at SFASU.

For further information concerning this matter, contact Katie Snyder 936-468-1740 or snyderke1@sfasu.edu.

IX. Other Relevant Course Information:

Undergraduate Teacher Certification:

The “Undergraduate Initial Teacher Certification Handbook” contains all policies and procedures related to undergraduate teacher certification. Teacher education candidates are responsible to know and understand the policies and procedures outlined in this handout. (http://www.sfasu.edu/education/departments/educatorcertification/docs/edcert-undergrad_handbook.pdf)

Course Rationale:
Research indicates that daily health/fitness related behaviors determine the quality and longevity of our life. This course is designed to provide information to create awareness of and motivation toward development of positive health and fitness behaviors. The practice of long-term positive health and fitness behaviors are essential to an individual’s physical, emotional, social, occupational, environmental, intellectual, and spiritual well-being.

Insurance:
Physical activity by its very nature may put you at some level of physical risk. It is strongly advised that you carry your own health/accident insurance. You are not covered by a Departmental or University insurance policy.

Cell phone/laptops:
Cell phone use is not permitted during class; this includes texting, recording and/or picture taking. Laptops may be used for NOTE TAKING ONLY.

Professionalism:
You are working towards a degree to be a professional, so you should look and speak that way. No sagging pants. No caps or hats in the classroom and building or unprofessional attire!!!

General Classroom Civility:
Students should be respectful of the instructor and other students during class time. Please do not interrupt your classmates or the instructor when they are speaking, and do not talk when someone else is talking. Students will not be allowed to read the newspaper, complete work from other classes, talk to their neighbors, sleep during class, or engage in other activities that are distracting to the instructor or other students. Any student found violating this code of conduct will be asked to leave the classroom and will be given an unexcused absence for the class period.
Exam Conduct:

- You may not wear sunglasses during an exam.
- You will be asked to remove your hat/jacket.
- You must place all class materials out of sight in a backpack at the front of the classroom.
- Bathroom breaks or leaving the room for any reason will not be allowed during exams (so plan ahead!)
- Students who leave the room for any reason will receive a “0” for the exam.
- No food or drinks will be allowed during exams - this includes water and gum – students will receive a “0”.
- Engagement in suspicious behaviors such as talking with others, roving eyes, tapping your hands or feet repeatedly during exams, etc. may be construed as cheating by the instructor and are grounds for dismissal from the examination and an automatic 0 on the examination as well as further disciplinary action at the discretion of the instructor.
- All cell phones and electronic devices must be turned off and left at the front of the classroom.
- Students who do not bring electronic devices to class MUST still provide proof that he/she is not carrying a device (emptying pocking, etc.).
- Students who DO NOT turn in his/her electronic devices OR provide proof of no electronic device will NOT be permitted to take the exam and will receive a “0”.
- Use of such devices during examination may be construed as cheating and result in associated disciplinary action.

Technical Support:

For D2L technical support, contact student support in the Office of Instructional Technology (OIT) at d2l@sfasu.edu or 936-468-1919. If you call after regular business hours or on a weekend, please leave a voicemail. For general computer support (not related to D2L), contact the Technical Support Center (TSC) at 936-468-HELP (4357) or at helpdesk@sfasu.edu. To learn more about using D2L, visit SFA ONLINE at http://sfaonline.sfasu.edu, where you’ll find written instructions and video tutorials.