



EFFECTIVE: SEPTEMBER 2007 CURRICULUM GUIDELINES

A. Division: **Education** Effective Date: September 2007

B. Department / Program Area: **Science and Technology / Sport Science** Revision New Course

If Revision, Section(s) Revised:
Date of Previous Revision:
Date of Current Revision:

C: SPSC 4256 **D: Advanced Sport Analysis** **E: 3**

Subject & Course No.	Descriptive Title	Semester Credits
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<p>F: Calendar Description:</p> <p>This course focuses on qualitative and quantitative analysis of human movement by using an interdisciplinary approach applying principles from major sub-disciplines of kinesiology, biomechanics and motor learning. Four tasks of an integrated qualitative analysis are applied to all fields of human movement. Using various modes of sport analysis instrumentation will provide practical quantitative experience.</p>	
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<p>G: Allocation of Contact Hours to Type of Instruction / Learning Settings</p> <p>Primary Methods of Instructional Delivery and/or Learning Settings:</p> <p>Lecture / Practice</p>	<p>H: Course Prerequisites:</p> <p>SPSC 1151 and SPSC 1164 (or permission of the instructor).</p>
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Number of Contact Hours: (per week / semester for each descriptor)

<p>2 hours lecture classroom per week 2 hours lecture practical per week</p> <p>Number of Weeks per Semester:</p> <p>15</p>	<p>None</p> <hr/> <p>K: Maximum Class Size:</p> <p>30</p>
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L: PLEASE INDICATE:

- Non-Credit
 College Credit Non-Transfer
 College Credit Transfer:

M: Course Objectives / Learning Outcomes

Following successful completion of this course, students shall be able to:

1. Apply their knowledge to effectively analyze human movement in everyday practice.
2. Analyze movement patterns and select, create, and implement strategies for improving performance.
3. Discuss, conclude and demonstrate the ability to perform quantitative movement analysis by utilizing available technology.
4. Relate their knowledge about basic biomechanics and motor control concepts to the model of qualitative movement analysis.

6. Practical applications using instrumentation of qualitative analysis to sport specific skills:
 - 6.1. Video technology
 - 6.2. Computer technology
 - 6.3. Use of instrumentation to evaluate performance intervention and improve performance.

7. Practical applications using instrumentation of qualitative analysis to sport specific skills:
 - 7.1. Video technology
 - 7.2. Computer technology
 - 7.3. Use of instrumentation to evaluate and improve kinetics and kinematics of specific sport related human movements.

DOUGLAS COLLEGE SIGNATURE ELEMENTS:Core Competencies:

- a. Oral, written and interpersonal communication:
 - Students will interact during group learning.
 - Students will present an article critique.
 - Students will present a complete movement analysis in oral and written formats.

- b. Computational and Information Technology:
 - Students will apply computer skills (word processing, spreadsheets, and presentations) throughout the course.
 - Students will become proficient in utilizing video and computer technology
 - Students will demonstrate proficiency in completing computer labs

- c. Critical and Creative Thinking:
 - Throughout the course, the critical thinking model by Roland Case (SFU) will be applied by the instructor as well as the students.

- d. Teamwork:
 - Emphasis is on partner, small group, and team work when preparing and completing various assignments.

Academic Signature

P: Textbooks and Materials to be Purchased by Students

Will be decided by course instructors. Potential resources include:

Knudson, D.; Morrison, C.S. (2002). Qualitative Analysis of Human Movement. 2nd Edition. Human Kinetics Pu-4(y)lis-4(a