

## **EFFECTIVE: SEPTEMBER 2004 CURRICULUM GUIDELINES**

A.	Division:	Science & Technology		Effective Date:			September 2004		
В.	Department / Program Area:	Sport Science		If I Re Da	vision  Revision, Section(s) vised: te of Previous Revision te of Current Revision:	):	New Course April 5, 2004	X	
C:	SPSC 1151	D: Bio	mechanics			E			
	Subject & Cou	rse No.	Descriptiv	/e Tit	le	Semes	ter Credits		
F:	Calendar Description: This course utilizes the application of elementary principles of physics and math to analyze human movement. This analysis also focuses on the development of forces within muscles and their effect on initiating and controlling human movement.								
G:	Allocation of Contact Hours to Type of Instruction / Learning Settings  Primary Methods of Instructional Delivery and/or Learning Settings:  Lecture/Practice			Н:	Principles of Mathematics 11 or equivalent strongly recommended.				
				I: Course Corequisites:					
				None					
	Number of Contact Hours:		,	J:	Course for which this	Course i	s a Prerequisite		
				K:	Maximum Class Size	:			
					30				
L:	PLEASE INDICATE:  Non-Credit								
	College Credit Non-Transfer								
	X College C	eur mansier							

- M: Course Objectives / Learning Outcomes Upon completion of this course, students will be able to:

  - Describe the science principles that are applicable to the analysis of human movement.
     Understand and use the concept of a free-body diagram as it applies to human movement.
  - 3.

It is expected that students will analyze EMG measurable output during selected activities. Specifically, it is expected that students will:

Demonstrate an understanding of the elements of the human musculo-skeletal system and how their properties interact during human movement Be able to use the concepts of force-length,