

Course Discipline Code & No: BIO 110 Title: Introduction to Exercise Science Effective Term Winter 2009  
 Division Code: MNBS Department Code: LIF Org #: 12100  
 Don't publish:  College Catalog  Time Schedule  Web Page

Reason for Submission. Check all that apply.  
 New course approval  Reactivation of inactive course  
 Three-year syllabus review/Assessment report  Inactivation (Submit this page only.)  
 Course change

Change information: Note all changes that are being made. Form applies only to changes noted.

<input type="checkbox"/> Consultation with all departments affected by this course is required.	<input type="checkbox"/> Total Contact Hours (total contact hours were: _____)
<input type="checkbox"/> Course discipline code & number (was _____)* *Must submit inactivation form for previous course.	<input type="checkbox"/> Distribution of contact hours (contact hours were: lecture: _____ lab _____ clinical _____ other _____)
<input type="checkbox"/> Course title (was _____)	<input type="checkbox"/> Pre-requisite, co-requisite, or enrollment restrictions
<input type="checkbox"/> Course description	<input type="checkbox"/> Change in Grading Method
<input type="checkbox"/> Course objectives (minor changes)	<input type="checkbox"/> Outcomes/Assessment
<input type="checkbox"/> Credit hours (credits were: _____)	<input type="checkbox"/> Objectives/Evaluation
	<input type="checkbox"/> Other _____

Rationale for course or course change. Attach course assessment report for existing courses that are being changed.  
 Required course for new Exercise Science Program

Approvals Department and divisional signatures indicate that all departments affected by the course have been consulted.

Department Review by Chairperson  New resources needed  All relevant departments consulted

Print: Marvin Boluyt Faculty/Preparer Signature *Marvin Boluyt* Date: 1/8/08

Print: Esta Grossman/William Nevers Department Chair Signature *Esta Grossman* Date: 1/12/08  
*William Nevers* Date: 1/15/08

Division Review by Dean  
 Request for conditional approval  
 Recommendation  Yes  No *M. Showatts* Date: 1/15/08  
 Dean's/Administrator's Signature

Curriculum Committee Review  
 Recommendation  Tabled  Yes  No *Dina Veasy* Date: 1/29/08  
 Curriculum Committee Chair's Signature

Vice President for Instruction Approval  
*Roger M. Pelay* Date: 1/30/08  
 Vice President's Signature

Approval  Yes  No  Conditional

Do not write in shaded area.  
 Log File 1/15/08 Copy  Banner 2/4 C&A Database 2/4 C&A Log File 2/4 Basic skills  Contact fee

Please return completed form to the Office of Curriculum & Assessment and email an electronic copy to [sjohn@wccnet.edu](mailto:sjohn@wccnet.edu) for posting on the website.





	<p>constructs relevant to motor learning</p> <p>b. identify and/or explain the function of a motor unit</p> <p>c. identify and/or explain neural changes that occur during a single skilled movement and in response to chronic skill training</p> <p>Outcome 3. Biomechanics</p> <p>a. use correct terminology when referring to movements, anatomical landmarks, and physics principles that govern the mechanics of movement</p> <p>b. identify and use the correct mathematical equation to solve various movement problems</p> <p>c. identify and/or explain mechanical changes that occur during a single skilled movement and in response to chronic skill training</p> <p>Outcome 4. Career plan</p> <p>a. create a detailed career plan with alternate plans for various scenarios</p> <p>b. interview or shadow individuals in relevant careers</p>	<p>Performance on quizzes and exams containing multiple choice, mathematical calculation, and short answer questions.</p> <p>Career plan</p>
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**List all new resources needed for course, including library materials.**  
**Several small pieces of equipment and software to measure reaction time and other neural and biomechanical features of movement: ~\$5,000**

**Student Materials:**

<p><b>List examples of types</b></p> <p>Texts</p> <p>Supplemental reading</p> <p>Supplies</p> <p>Uniforms</p> <p>Equipment</p> <p>Tools</p> <p>Software</p>	<p>Text: The Biophysical Foundations of Human Movement by Abernethy et al., 2<sup>nd</sup> edition, 2005</p> <p>Course pack by Marvin Boluyt</p>	<p><b>Estimated costs</b></p> <p>\$ 54</p> <p>\$15</p>
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**Equipment/Facilities:** Check all that apply. (All classrooms have overhead projectors and permanent screens.)

<p>Check level <u>only</u> if the specified equipment is needed for <u>all</u> sections of a course.</p> <p><input type="checkbox"/> Level I classroom Permanent screen &amp; overhead projector</p> <p><input type="checkbox"/> Level II classroom Level I equipment plus TV/VCR</p> <p><input checked="" type="checkbox"/> Level III classroom Level II equipment plus data projector, computer, faculty workstation</p>	<p><input type="checkbox"/> Off-Campus Sites</p> <p><input type="checkbox"/> Testing Center</p> <p><input type="checkbox"/> Computer workstations/lab</p> <p><input type="checkbox"/> ITV</p> <p><input type="checkbox"/> TV/VCR</p> <p><input type="checkbox"/> Data projector/computer</p> <p><input type="checkbox"/> Other _____</p>
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**Assessment plan:**

Learning outcomes to be assessed (list from Page 3)	Assessment tool	When assessment will take place (semester & year)	Course section(s)/other population	Number students to be assessed
1. Identify basic principles of exercise physiology	Departmentally designed questions.	Winter 2009 and every 3 years thereafter	All sections	All students
2. Recognize the basic principles of motor learning	Departmentally designed questions.	Winter 2009 and every 3 years thereafter	All sections	All students
3. Identify the basic principles of biomechanics	Departmentally designed questions.	Winter 2009 and every 3 years thereafter	All sections	All students
4. Create a career plan with multiple endpoints	Career plan	Winter 2009 and every 3 years thereafter	All sections	Random subset of 10 career plans

**Scoring and analysis of assessment:**

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, external evaluation, other). Attach the rubric/scoring guide.

Questions will be scored against the answer sheet.

2. Indicate the standard of success to be used for this assessment.

For outcomes 1-3, a cluster of representative exam questions will be designated in advance for assessment. The class average percent of correct responses will be calculated. The minimum level for a successful outcome is 70% for each question. For outcome 4, 70% of students will achieve a score of 2 (average) or better on each item.

3. Indicate who will score and analyze the data (data must be blind-scored).

Life Sciences faculty will collect the data from the instructor and analyze the performances.

4. Explain the process for using assessment data to improve the course.

The assessment data gathered as described above will provide information for syllabus review and revision. The department will review the data to determine what content areas should receive more emphasis or whether changes should be made to the core outcomes.