The University Of Toledo

Existing Course Modification Form

+ denotes required fields

Please enter the changes below to each existing course. If changes are too extensive for this format, attach a page with all information.

College:* Health Science & Human Service

Course Alpha/Numeral: PhyT 505

Contact Person:* Catherine Hornbeck
catherine.hornbeck@utoledo.edu

Present

Supply all information asked for in this column
(Supply core and transfer module info if applicable)

Course Title*: Analysis of Movement I

Credit Hours*: 3

CrossListings

<table>
<thead>
<tr>
<th>Insert</th>
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<td>Remove</td>
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To add a course, type in course ID and click the Insert button

To remove a course, select the course on left and click the Remove button

Prerequisite(s)(if prerequisite is longer than 50 characters, please place it in Catalog Description)

Catalog Description (only if changed):

☐ Univ Core ☐ Engl ☐ Hum ☐ Math ☐ Sci ☐ Soc Sci

☐ US Culture ☐ Non-US Culture

☐ Transfer Module ☐ Arts & Humanity ☐ Engl ☐ Math

☐ Social Science ☐ Natural Science & Physics

Reason for change:

Sequencing of other courses within the curriculum allows for merging of a series of 2 courses -- PhyT 505 Analysis of Movement I (Fall) and PhyT 506 Analysis of Movement II (Spring), content of PhyT 506 is needed in Fall in order to serve as foundational content for other courses.

Has course content changed? ☐ No ☐ Yes If course content is changed, give a brief topical outline of the revised course below (less than 1500 words)
Content of PhyT 506 added to PhyT 505 to meet the curricular needs as noted above plus 2 other topics were identified as duplicates within the curriculum and were deleted from the revised course (PhyT 505)

Or attach an electronic copy of outline

Has the course changed from a non-core curriculum course to a core curriculum course? ☐ No ☐ Yes If so, explain how this course fulfills the core curriculum/general education guidelines in Faculty Senate Website and submit a course syllabus using the template

List any course or courses to be dropped

PhyT 506: Analysis of Movement II Effective Date 7 / 1 / 2012

Department Curriculum Authority

Department Chairperson

College Curriculum Authority

College Dean

After college approval, submit the original signed form to the Faculty Senate (UI 3320) for undergraduate-level courses, for graduate-level courses submit the original signed form to the Graduate School (UH5240). For undergraduate/graduate dual-level courses, submit the proposals to each office

UUCC or Graduate Council Curriculum Chair

Faculty Senate Core Curriculum Committee Chair

Office of the Provost

Registrar's Office

Submit Course Modification

You will see a confirmation page after you press the submit button. If you do not see the confirmation page, please call x 4320 or send an email to ProvostWebMaster.utoledo.edu. Thanks.

http://curriculumtracking.utoledo.edu/CourseMod.asp 10/19/2011
Existing Course Modification Form: Supplemental Information

Date: October 19, 2011

Course: PhyT 505 – Analysis of Movement

Requested Effective Date of Modification: Fall Semester 2012

Modification(s) Requested: merger of 2 courses (PhyT 505 and PhyT 506)

1) New course title
2) Increase in credit hours by 1 (for net gain of 0 with 1 hour from dropped PhyT 506
3) Semester offered: Fall only

Reason for Change: Re-sequencing of courses within curriculum based on pedagogical principles of Adult Learning:

1) to enhance the articulation among concurrent courses within a given semester;
2) timely presentation of content to serve as foundation for other Year 1 courses
Course Summary Overview

Course: PhyT 505: Analysis of Movement

Credit Hours: 4 semester hour

Contact Hours: 3 hours lecture, 2 hours laboratory/week

Term Offered: 1st Year – Fall

Description:

This course is an integrated study of applied biomechanics, kinesiology, and anatomy as they relate specifically to the analysis of human movement. Observational skills will be emphasized for analyzing human movement, although students will be introduced to the use of other evaluation tools such as EMG, motion analysis, and videography. Progressing from simple movements to those that are more complex and from normal to pathological, students will learn to integrate observational skills with an understanding of musculoskeletal function and neuromuscular control. Using cases of pathological conditions student will practice hypothesis generation and identification of examination data necessary for effective clinical reasoning. PhyT500 Gross Anatomy is a prerequisite and provides a foundation for the objectives this course hopes to achieve.

Content:

1) mechanics, kinematics & kinetics
2) basic joint structure-function types;
3) intro to muscle; biomechanical principles
4) axial skeleton osteology & arthology and muscular interaction
5) hip arthro/osteo-kinematics, muscle/ligament function, & common dysfunction
6) knee arthro/osteo-kinematics, muscle/ligament function, & common dysfunction
7) ankle & foot arthro/osteo-kinematics, muscle/ligament function, & common dysfunction
8) shoulder complex arthro/osteo-kinematics, muscle/ligament function, & common dysfunction
9) elbow forearm complex arthro/osteo-kinematics, muscle/ligament function, & common dysfunction
10) wrist arthro/osteo-kinematics, muscle/ligament function, & common dysfunction
11) hand arthro/osteo-kinematics, muscle/ligament function, & common dysfunction
12) mastication & ventilation
13) EMG: physiologic correlates; clinical use; data interpretation & analysis
14) human gait: mechanics, muscle function, pathophysiology, assessment techniques (observation, videography, motion analysis), clinical correlates
15) neuromuscular patient video analysis