

APPROVED

# 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.

*Julia Herb College of Education*  
College\* Health Science & Human Service

Course Alpha/Numeric\* PhyT - 505

Contact Person\* Catherine Hornbeck Phone 530-6678  
catherine.hornbeck@utoledo.edu

Administrative Use Only	
Code*: CM	<input type="text"/>
Date Received:	<input type="text"/> / <input type="text"/> / <input type="text"/> (mm/dd/yyyy)
Effective Date:	<input type="text"/> / <input type="text"/> / <input type="text"/> (mm/dd/yyyy)
CIP Code (if changed):	<input type="text"/>
Subsidy (if changed):	<input type="text"/>

Dept/Academic Unit\* --Select a Department--

*Dept of Rehab Sciences / Physical Rehabilitation*  
(XXX - XXXX) Email *Therapy*

### 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

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 curricular 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 )

### Proposed

Fill in appropriate blanks only where entry differs from first column

Course Title\* Analysis of Movement

Credit Hours. 4

CrossListings

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)

PhyT 500

Catalog Description (*only if changed*)

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

- Univ Core    Engl    Hum    Math    Sci    Soc Sci
- US Culture    Non-US Culture
- Transfer Module    Arts & Humanity    Engl    Math
- Social Science    Natural Science & Physics

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

*See attached*

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

Approval: *Beck Ann Hultquist* Date *10/31/2011* 10 / 31 / 2011

Department Curriculum Authority *Catherine D. Humber* Date Month / Day / Year

Department Chairperson *Nick Mast* Date *10/21/11* 10 / 21 / 2011

College Curriculum Authority *Samir G...* Date Month / Day / Year

College Dean *Barbara J. Gray* Date *11/07/11* 11 / 07 / 2011

After college approval, submit the original signed form to the Faculty Senate (UH 3320) for undergraduate-level courses, for graduate-level courses submit the original signed form to the Graduate School (UH3240). For undergraduate/graduate dual-level courses, submit the proposals to each office

UUCG or Graduate Council Curriculum Chair *[Signature]* Date *12/13/2011* 12 / 13 / 2011

Faculty Senate Core Curriculum Committee Chair. \_\_\_\_\_ Date Month / Day / Year

Office of the Provost \_\_\_\_\_ Date Month / Day / Year

Registrar's Office \_\_\_\_\_ Date Month / Day / Year

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](mailto:ProvostWebMaster.utoledo.edu). Thanks.

University of Toledo  
Department of Rehabilitation Sciences  
Doctor of Physical Therapy Program

**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

Department of Rehabilitation Sciences  
Doctor of Physical Therapy Program  
University of Toledo

**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