

The University Of Toledo

Existing Graduate Course Modification Form

* denotes required fields

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Present

Proposed

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

Fill in appropriate blanks only where entry differs from first column.

College*: College of Health Sciences
Dept/Academic Unit*: Rehabilitation Sciences
Course Alpha/Numeric*: PHYT 5170

College: College of Health Sciences
Dept/Academic Unit: Rehabilitation Sciences
Course Alpha/Numeric: PHYT 5170

Course Title: Research Design and Measurement

Course Title: Evidence Based Practice I

Credit hours: Fixed: 2 or Variable: to

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CrossListings:

CrossListings:

Insert
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.
Remove

Insert
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.
Remove

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

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

Corequisite(s)(if longer than 50 characters, please place it in Catalog Description):

Corequisite(s)(if longer than 50 characters, please place it in Catalog Description):

Successful completion of all previous semester's coursewo

Catalog Description (only if changed) 75 words max: **Catalog Description** (only if changed) 75 words max:

Introduction to the principles of measurement and research design, with an emphasis on critically evaluating the design of research studies relevant to clinical practice.

Has course content changed?

 Yes

 No

If course content is changed, give a brief topical outline of the revised course below(less than 200 words)

Proposed effective term*: (e.g. 201140 for 2011 Fall)

File Type	View File
Syllabus	View

List any course or courses to be deleted.

Effective Date: 

Effective Date: 

Comments/Notes:


Rationale:

There are two research-related courses in the PT curriculum, each with two distinctly different names. However, the course content of each course is related in a building-block fashion, such that changing the name of each course to more accurately reflect the content is warranted. Further, the new names being proposed for this course and its counterpart more accurately reflect contemporary physical therapist practice as well.

Approval:

Department Curriculum Authority:	Beth Ann Hatkevich	Date	2016/04/01
Department Chairperson:	Michelle Masterson	Date	2016/04/02
College Curriculum Authority or Chair:	Eric Longsdorf	Date	2016/04/20
College Dean:	Barry W. Scheuermann	Date	2016/09/27
Graduate Council:	Constance Schall (GC 10.18.2016)	Date	2016/10/18
Dean of Graduate Studies:	Amanda Bryant-Friedrich	Date	2016/10/26
Office of the Provost :	Marcia King-blandford	Date	2016/10/27

Administrative Use Only

Effective Date:	2017/01/22	 (YYYY/MM/DD)
CIP Code:	<input type="text"/>	
Subsidy Taxonomy:	masters	
Program Code:	<input type="text"/>	
Instructional Level:	<input type="text"/>	

Registrar's Office Use Only

Processed in Banner on:	<input type="text"/>	
Processed in Banner by:	<input type="text"/>	

Banner Subject Code:

Banner Course Number:

Banner Term Code:

Banner Course Title:

**DOCTOR OF PHYSICAL THERAPY PROGRAM
DEPARTMENT OF REHABILITATION SCIENCES
COLLEGE OF HEALTH SCIENCES
THE UNIVERSITY OF TOLEDO**

PhyT 5170: Evidence Based Practice I

Term & Year: Spring 2017

Credit Hours: 2 hour

Contact Hours: 30 hours

Course Coordinator/ TBD

Instructor:

Office Hours:

Course Pre-requisites: Successful completion of all coursework from previous semesters.

Course Description: Introduction to the principles of measurement and research design, with an emphasis on critically evaluating the design of research studies relevant to clinical practice.

Student Learning Objectives: Following the completion of this course, the PT student will be able to:

1. Compare and contrast research with other ways of knowing.
2. Discuss the role of research in clinical practice.
3. Discuss foundational concepts of clinical research, including
 - a. the basic types of research.
 - b. the research process.
 - c. sources of knowledge.
 - d. the role of theory in research.
4. Define plagiarism.
5. Discuss the principles of proper citation.
6. Compare and contrast the properties of nominal, ordinal, interval, and ratio scales of measurement.
7. Describe how measurement error influences the reliability and validity of measurements.
8. Compare and contrast the different types of reliability, including rater (inter- intra-rater), alternate forms, and internal consistency.
9. Compare and contrast the different types of measurement validity, including face, content, criterion-related, and construct validity.
10. Differentiate between a study population and sample.
11. Compare and contrast the ability of probability and non-probability sampling techniques to limit sampling bias.
12. Compare and contrast the following sampling techniques: simple random sample, systematic sampling, stratified random sample (proportional and disproportional), convenience sampling, quota sampling, snowball sampling.
13. Discuss the principles that guide the protection of human subjects.
14. Discuss the characteristics, components, and major types of clinical research questions.
15. Discuss the major threats to internal and external validity, and the procedures used to limit threats to validity.
16. Evaluate the validity of research articles designed to address the following types of research questions:
 - a. Intervention.

- b. Prognosis.
- c. Outcomes.
- d. Clinical tests and measures.
- e. Description of populations.

Course Methods:

Lecture
 Discussion/Class activities/Group work
 Assignments

Required Texts:

Jewell DV (2011). *Guide to Evidence-Based Physical Therapist Practice*, 2nd ed. Jones & Bartlett Learning, Sudbury, MA.

Course Requirements:

1. Attendance as per policy discussed below
2. Participation – active participation in class discussion, seeking to clarify complex material for better understanding, raising questions that reflect critical thinking
3. Preparation - completion of reading assignments prior to class
4. Appropriate professional behavior in all class sessions
5. Adherence to all standards of conduct outlined in the Handbook for Physical Therapy Students (8/10) and the College of Graduate Studies

Grading Procedure:

Quizzes	5%
Assignment 1a-1d (combined)	15%
Assignment 2	10%
Assignment 3	15%
Assignment 4	15%
Mid-term exam	20%
Final Exam	20%

1. **Quizzes** will be on material assigned in preparation for classes and/or material covered in previous classes.
2. **Assignments: All assignments are to be completed independently.** The details of each will be posted on blackboard.
 - a. **Assignment 1** will consist of 4 brief parts that will help to reinforce fundamental concepts we learn in class.
 - b. **Assignment 2, 3 and 4** are designed to help you develop your evidence based practice skills.
3. **Exams**
 - a. The **mid-term exam** will be taken in class, and will consist of true/false, multiple choice, and short answer questions
 - b. The **final exam** will be take-home. Due to the nature of the material, the final exam will be cumulative.

Contesting exam/assignment items: Despite the instructor’s efforts to be clear on exam and assignment questions, some questions may be open to multiple interpretations. If you lost points on an exam or assignment, but feel that the answers you provided were correct based on your interpretation of the question, you are encouraged to contest the item. *Within 48 hours of receiving the graded exam or assignment*, you must submit, in writing, 1) the question you are contesting, 2) your original answer, 3) your argument for why feel your answer should be given full credit. The instructor will consider your argument, and points will be added to your grade on the exam/assignment if the argument is convincing.

Item on final assignments and exams cannot be contested, as these items are final and are not returned during the semester.

Grading Scale:

The final course grade will be consistent with the grading policy of the Doctor of Physical Therapy Program of the University of Toledo and will be assigned as follows:

A = 90-100%

B = 80-89%

C = 70-79%

D = 60-69%

F = < 60%

Course Policies:

Class attendance/participation:

- **General Appearance:** Personal appearance should conform to acceptable standards of the environment. The Doctor of Physical Therapy Program is designed to prepare students for the role of a professional, thus a more professional standard of dress is required. Refer to the most current edition of the *Handbook for Physical Therapy Students*.
- **Classroom and Clinical Behaviors:** Behaviors consistent with public situations are required at all times. Course instructors will identify expectations regarding behavior during classroom and lab activities for each course. Refer to the most current edition of the *Handbook for Physical Therapy Students*.
- **Electronic Communication:** The primary means by which faculty will communicate electronically with students is through their designated UT e-mail addresses. It is the responsibility of the student to check his/her UT e-mail account frequently and respond accordingly.
- **Absence/Illness:** Attendance is required unless there is an unanticipated, excused absence. Per departmental policy, unanticipated, excused absences include: illness of self or a dependent, jury duty or death of an immediate family member. Students are asked to notify the Administrative Assistant (419-530-6670) and/or the faculty member prior to the absence. Refer to the most current edition of the *Handbook for Physical Therapy Students*. For illness that results in a change in health status, please refer to the most current edition of the *Handbook for Physical Therapy Students*.
- **Chronic Health Condition Not Requiring Accommodations:** Students are responsible for notifying the instructor of their inability to participate in a lab activity or activities that are potentially harmful due to a pre-existing physical condition, acute or chronic, that places them at risk for injury.
- **Inclement Weather:** The Physical Therapy Program's policy is that classes will be canceled only in the event that the University of Toledo cancels classes due to inclement weather. Students are asked to use discretion regarding attending class in the case of severe weather conditions. Refer to the most current edition of the *Handbook for Physical Therapy Students*.

Group Work: In some instances, students may work together in small groups (2-4 individuals) to complete certain aspects of an assignment (i.e. data collection or analysis). However, unless explicitly stated by the faculty member in writing, each student is expected to submit a document that reflects his or her own synthesis of the assignment. For example, in a lab assignment that requires data collection, analysis, and a summary of the project, the students may work together to complete the data collection and analysis portions of the assignment. However, the written summary should serve as evidence of one's own thoughts and clinical reasoning.

Assignment Due Dates: Assignments are due by 11:59PM on the date posted in the class schedule unless otherwise explicitly stated by the faculty member in writing. Unless prior arrangements have been made with the instructor, *one letter grade (10 percentage points) will be deducted for each day that the assignment is late.*

Essential Functions and Accommodations: Students with need for accommodation due to disability or illness should refer to the most current edition of the *Handbook for Physical Therapy Students*.

Academic Integrity: All course work is to be the student's own with exceptions for assigned group work. Students are encouraged to access and read the University of Toledo policy for academic dishonesty at: http://www.utoledo.edu/policies/academic/graduate/pdfs/3364_77_01.pdf

Use of Technology: Personal laptop computer or similar device use is allowed for course related activities during class time. Students are asked not to review email, access social networking sites, or engage in other non-course related activity (e.g. web browsing) during class time. Cell phone use during class time is prohibited with exception for emergency use.

Diversity: In concert with the University of Toledo's values and expectations, the faculty within the College of Health Sciences upholds the tenets pledged by the University to respect and value personal uniqueness and differences. Specifically, we will actively participate in the initiatives of the University to attract and retain diverse faculty, staff, and students; to challenge stereotypes; and to promote sensitivity toward diversity and foster an environment of inclusion in all curricular and extra-curricular activities.

Hence, all students enrolled in this course will be expected to:

- Be considerate of the thoughts and ideas of others
- Demonstrate accountability, integrity and honor in all course-related activities
- Promote a collaborative and supportive educational environment
- Treat every individual with kindness, dignity, and respect regardless of:
 - Gender,
 - Race/ethnicity,
 - Religion,
 - Sexual orientation,
 - Impairment(s)/Disability(ies),
 - Political views, and
 - Other element(s) of uniqueness