**PT 6725: Clinical Examination and Evaluation I**
**Oakland University**
**Physical Therapy Department**

**Course Syllabus**
**Winter 2018**

**Course Description**: In this foundational course, students will learn the basics skills of clinical examination and evaluation. The class will focus on patient history taking, test and measures which include; posture, range of motion (goniometry), manual muscle testing, special tests, symptom localization, neurologic and vascular testing, gait, palpation, and systems review. This course consists of a lecture and lab component where skills of evaluation, diagnosis and prognosis are developed.
**Prerequisites:** PT 515, 517, 519, 531, HS 501

| | | |
|---|---|---|
| **Hours**: | Mondays | 8:00am -12:00pm |
| | Wednesdays | 8:00am – 12:00 pm |
| **Location**: | 5002 Human Health Building | |
| **Credit Hours** | 4 | |
| **Contact Hours:** | (34 hours lecture, 78 hours lab) | |


| | |
|---|---|
| **Instructor**: | Bryan J. Kuhlman, PT, DPT, OMPT |
| **Office**: | Human Health Building |
| **Phone**: | |
| **E-mail:** | kuhlman@oakland.edu |


**Office Hours:** Hours available by appointment

**Instructional Methods:** Students will participate in readings, lectures, demonstrations, independent study, and laboratory experiences. The course will provide a problem-solving approach to learning. Laboratory experiences and case studies will reinforce the theoretical knowledge and provide hands on experience and learning.

**Lab Assistants:**
Johnaton Miller, DPT, OMPT (Monday)
Beth Puruski DPT, OMPT (Monday)
Melissa Walters, DPT (Monday)
Leah Rust DPT (Monday)
Brian Venglar, DPT (Wednesday)
Alea Woloszyn (Wednesday)

**Textbooks and Readings**:

**Required Textbooks:**
- Kendall FP, McCreary EK. Muscles: Testing and Function, 5th Ed., Williams & Wilkins. Baltimore, 2005.
- Magee DJ. Orthopedic Physical Assessment. 6th edition, Saunders, 2013. ISBN: 978-1455709779
- Norkin CC, White DJ. Measurement of Joint Motion: A Guide to Goniometry. 5th edition, F.A. Davis, 2009. ISBN: 978-0803620667
- Moodle PowerPoint presentations and other materials

**Encouraged Textbooks:**
- Helen J. J. Hislop, Jacqueline Montgomery, Jacqueline Montgomery. Daniels and Worthinghams's Muscle Testing: Techniques of manual examination, 9th edition, Saunders, 2008. ISBN: 0721692990

**Course Objectives**

At the completion of this course the student will have achieved objectives in the following categories:

1. List, describe and organize the components of an examination/ evaluation into the PT-CISE model.

2. Conduct a concise, thorough and timely subjective history using both open and closed ended questions.

3. Demonstrate the ability to effectively communicate with a patient in a culturally competent manner during an examination.

4. Recognize red flags and know when to refer back to the physician.

5. Employ information gained in the subjective history to guide the examination process.

6. Demonstrate or describe accurate performance of tests and measures such as: observation, posture, gait, ROM, goniometry, joint play, manual muscle tests, special tests, symptom localization, neurological and vascular tests, and palpation skills.

7. Obtain accurate readings & observations from above test and measures through practice.

8. Explain the use, rationale, and interpret findings for each test and measure learned during the class.

9. Knowledge of when symptom localization is accurately reproducing symptoms. Understand when it is appropriate to apply.

10. Choose and modify tests and measures to accommodate a patient's impairments/ disability, stage of healing, irritability, age, preferences and culture.

11. Demonstrate safe and orderly sequencing of a patient examination. This includes using good body mechanics and joint protection techniques.

12. Describe and contrast test and measure findings commonly associated with select pathologies.

13. Synthesize data from the examination to either confirm or reject probable impairments from Differential Diagnosis list from the PT-CISE Template, then assess what is the most relevant impairment based diagnosis based on functional limitations.

14. Give appropriate and constructive feedback to fellow classmates regarding their performance of techniques.

15. Report examination/evaluation findings in a systematic, logical and orderly fashion.

16. Perform or describe the performance of a system review in the areas of Cardiovascular/ Pulmonary, Integumentary, Musculoskeletal, and Neuromuscular conditions.

17. Exhibit professional behavior in the classroom and in laboratory, including the following (based on the Generic Abilities, UWM, 1996):
    A. Identify/locate appropriate resources to complete course assignments
    B. Demonstrate a positive attitude toward learning
    C. Offer thought and ideas in class
    D. Prioritize information needs
    E. Maintain a professional demeanor in all classes
    F. Respect cultural and personal differences of others
    G. Communicate with others in a respectful manner
    H. Respect the personal space of others
    I. Maintain confidentiality in all classroom interactions
    J. Assume responsibilities/ ownership for one's own actions
    K. Use existing resources and unscheduled time effectively
    L. Complete assignments in a timely fashion
    M. Actively seek feedback and help when necessary in timely manner
    N. Demonstrate a positive attitude toward feedback
    O. Develop a plan of action in response to feedback
    P. Assess one's own performance accurately
    Q. Abide by the APTA Code of Ethics
    R. Demonstrate dependability and punctuality

S. Accept constructive feedback in an appropriate manner
T. Provide constructive feedback to classmates in a diplomatic manner
U. Participate actively in group projects & class discussions
V. Consistent attendance in class
W. Prompt for the start of class and after breaks
X. Prepared for class discussions and activities

**Student Evaluation / Grading**

| | |
|---|---|
| Mid-term Written Exam | 15% |
| Mid-term Practical Exam | 15% |
| Final Written Exam | 15% |
| Final Practical Exam | 20% |
| Quizzes | 10% |
| Class Participation/Case Examples | 10% |
| In Class Review | 15% |

**Exams (15% mid-term, 15% final)**

- Exams consist of 50 multiple choice questions
- Exam questions will be written and administered in preparation for the NPTE licensing examination.
- Please bring a ParScore Scantron and No. 2 pencil to all written examinations.
- Book bags must be left at the front of the room. No hats will be allowed. You may not leave the room during the examination.

**Practical Exam (15% mid-term, 20% final)**

- Two practical exams will be given during the semester. The mid-term practical is a laboratory examination following an OSCE (Objective Structured Clinical Examination) format. Students will be asked to perform evaluation tools on subjects (proctors). In addition, be prepared to answer related questions. The final practical will be performed on a simulated patient examination / evaluation.
- Each student must pass each practical exam with a minimum of 80 points in order to pass this class.
- If a score of less than 80 is achieved, or if a student fails due to a safety reason, one re-take is permissible.
- If a student fails any retake, it means **automatic failure** of the class.
- If a student re-takes the practical and passes, the final score for the practical **will not be greater than 80 points.**

**Quizzes (10%):**

- Quizzes (consisting of 10-15 multiple choice questions) will be throughout the semester.
- Please bring a ParScore Scantron and No. 2 pencil to all written examinations.
- Book bags must be left at the front of the room. No hats will be allowed. You may not leave the room during the examination.

**Class Participation/Case Examples (10%)**

- For this assignment you will be divided up into groups. The groups will be assigned a patient with a real pathology. Each region of the body will be covered with each group assigned to one patient designated to a region of the body. The groups will first start with the subjective history after the lecture on how to take a history is covered. Each group will continue the objective with their patient after the topic has been discussed. Each patient will present with a specific pathology that is relative to this course.
- The professor will be the one performing the objective testing due to profession liability. The groups will dictate and develop specific objective tests (AROM, PROM, Goniometry, Sx Localization, MMT, and Special Tests) related to the patient's pathology.
- The groups are responsible for uploading a completing algorithm into Moodle. An algorithm is a sequence of steps to accomplish a task. The material provided in the algorithm is the source of information for the other students, the more detailed the groups are, the more other students get out of it. Information covered during group discussion should also be included into the algorithm.
- The goal of this assignment is to start learning how to build a patient case.

| **Participation grading rubric (must meet all criteria in a given block)** | |
|---|---|
| 5 | The student is always freely conversing and sharing ideas during discussion of classroom assignments to help foster a better understanding of course material. Has an appreciation for what it means to be a learner and thinker. The student is always participating, learning, and listening to others' ideas, comments, and |

| | |
|---|---|
| | questions. |
| 4.5 | The student is regularly conversing and sharing ideas during discussion of classroom assignments to help foster a better understanding of course material. The student is regularly participating, learning, and listening to others' ideas, comments, and questions without being asked. |
| 4 | The student constructively converses and shares ideas during discussion of classroom assignments to help foster a better understanding of course material. The student is participating, learning, and listening to others' ideas, comments, and questions about 50%. |
| 3.5 | The student is participating, learning, and listening to others' ideas, comments, and questions about 25% or when asked. The student is often not prepared for participation. |
| 3 | The student is participating, learning, and listening to others' ideas, comments, and questions only when asked. The student is often not prepared for participation. |
| 1-2 | The student is not participating, learning, and listening to others' ideas, comments, and questions. The student is not prepared for participation. |
| 0 | The student has unacceptable behavior and is not participating. |

**In Class Review (15%)**

- Students will be responsible for reviewing all material covered in class.
- Each week 3-5 random students will be asked questions that have been covered in previous classes. This will be specific techniques followed by additional questions if necessary.
- Each student will go 2 times throughout the semester. The student has to perform the technique correctly in order to receive the points. This will be graded out of 100%.

**Grading Scale**

| GP Numerical | Letter | Percent | | GP Numerical | Letter | Percent | | GP Numerical | Letter | Percent |
|---|---|---|---|---|---|---|---|---|---|---|
| 4.0 | A | 100 – 96 | | 2.9 | C | 79 | | 1.9 | D | 69 |
| 3.9 | A | 95 | | 2.8 | C | 78 | | 1.8 | D | 68 |
| 3.8 | A | 94 | | 2.7 | C | 77 | | 1.7 | D | 67 |
| 3.7 | A | 93 – 92 | | 2.6 | C | 76 | | 1.6 | D | 66 |
| 3.6 | A | 91 – 90 | | 2.5 | C | 75 | | 1.5 | D | 65 |
| 3.5 | B | 89 | | 2.4 | C | 74 | | 1.4 | D | 64 |
| 3.4 | B | 88 | | 2.3 | C | 73 | | 1.3 | D | 63 |
| 3.3 | B | 87 – 86 | | 2.2 | C | 72 | | 1.2 | D | 62 |
| 3.2 | B | 85 – 84 | | 2.1 | C | 71 | | 1.1 | D | 61 |
| 3.1 | B | 83 – 82 | | 2.0 | C | 70 | | 1.0 | D | 60 |
| 3.0 | B | 80-81 | | | | | | 0.0 | E | 59 and below |

**Student Expectations**

**Attendance:**

- Participation required with prompt attendance in class**, daily** participation in class discussions, participation in all lab activities, participation in group work, and professional behavior.
- Each student is expected to be dressed appropriately for lab consisting of athletic shorts, T-shirt and a sports bras or swimsuit for women. (You will lose points for failing to dress in appropriate lab wear). In addition, wear loose, comfortable clothing to all classes as you may be asked to be active even during lecture.
- Students are not permitted to eat or drink in the lab. (Water may be kept on the back counter.)

- Students are expected to be punctual and prepared for each class including reading the assigned chapters. Please notify the instructor if you are late or absent from any class. Unexcused late assignments or unexcused missed examinations or quizzes are graded with a 0. It is the student's responsibility to obtain missed class information.
- It is important that the laboratory and classroom are clean and organized before you leave. This includes removing linens from the tables, returning furniture and equipment to its proper place, and cleaning up your area.
- Practicing on a variety of people is imperative to learning the course material well. Lab partners may be assigned if the class is observed to not switch partners on a regular basis.

**Academic Conduct:** Students are expected to adhere to the procedures for Academic Conduct described in the University Graduate Catalog. Please read and refer to the University Graduate Catalog, Policy on Academic Conduct for descriptions of these policies and procedures.

**Accommodations/Disability Support:** Any student with a documented disability needing academic accommodations is required to speak with the Office of Disability Support Services to make arrangements. The office is located in room 106 North Foundation Hall. For information or to make an appointment, call 370-3266

**Exam Content:** Written tests are considered to be protected evaluation instruments and consequently:
- May not be reproduced in part or in whole, stored in a retrieval system, or transmitted in any form or by any means, electrical, mechanical, photocopying, or otherwise.
- May be reviewed under supervision only. All examination material must be accounted after an exam as well as during review sessions.
- All notes made during an examination must be on the examination or paper provided by the instructor.
- Students found in possession of unauthorized examination content will receive a group of 0.0 for this course.

**Attendance:** Students are expected to be present and punctual for class. In the case of illness or emergency, email me at kuhlman@oakland.edu. It is the student's responsibility to obtain missed information.

**Emergency Preparedness:** All students are encouraged to become familiar with the Oakland University Emergency Preparedness Website, Policies and Procedures.
See: http://www4.oakland.edu/?id=5410&sid=188 In particular, students are strongly encouraged to:
1) Take the 15-minute *Violence Prevention Training Course* available on the site
2) Sign up to receive text message alerts in the event of a major campus emergency by visiting the **Emergency Notification** Web site (Grizz ID and valid OU e-mail address required)
3) Know how to contact the OUPD in the event of an emergency:
- Call **911** from any campus phone
- Call (248) 370-3333 from a cell phone
- Text the dispatch office at **911@oakland.edu**
- E-mail the dispatch office at **911@oakland.edu**

4) Know how to **submit anonymous tips** online in non-emergency situations.

**Tentative Schedule**
**PT 551**
**Winter 2016**

| DATE | TOPIC | Quizzes or assignments | Magee Reading | Kendall Reading | Norkin Reading | Hislop Reading |
|---|---|---|---|---|---|---|
| Jan. 3rd (Wed) | Introduction & subjective history & PT-CISE guild & Objective examination & posture | | Chapter 1 | Chapter 1 & Chapter 2 | | |
| Jan. 8th (Mon) | Objective examination & posture | | Chapters 1 & 15 | | Chapter 2 | Chapter 1 |
| Jan. 10th (Wed) | Observation and Motion Examination Shoulder | **Quiz #1** | Chapter 5 | Chapter 6 | Chapter 4 | Chapter 5 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | **(First two lecture days)** | | (pp. 297-337) | | |
| Jan. 15th (Mon) | Martin Luther King Day NO CLASS | | | | | |
| Jan. 17th (Wed) | Motion Examination Shoulder | **Pathology Assignment due** | | | | |
| Jan. 22nd (Mon) | Motion Examination Shoulder | | | | | |
| Jan. 24th (Wed) | Motion Examination Elbow / forearm | | Chapter 6 | Chapter 6 (pp. 279-296) | Chapter 5 | Chapter 5 (pp. 138-155) |
| Jan. 29th (Mon) | Motion Examination Wrist / hand & Muscle Examination Shoulder | | Chapter 7 | Chapter 6 (pp. 258-276) | Chapters 6 & 7 | Chapter 5 (pp. 155 – 202) |
| Jan. 31st (Wed) | Muscle Examination Shoulder & Elbow & pt cases | **Quiz #2 (Shoulder, Elbow, F/arm)** | | | | |
| Feb. 5th (Mon) | Muscle Examination Shoulder & Elbow & pt cases | | | | | |
| Feb. 7th (Wed) | Muscle Examination Wrist/Hand & pt cases & Motion Examination Hip complex | | Chapter 10 and 11 | Chapter 7 (pp. 417 – 437) | Chapter 8 | Chapter 6 (pp. 203 – 239) |
| Feb. 12th (Mon) | Motion Examination Hip complex & Open Lab | | | | | |
| Feb. 14th (Wed) | Written / Practical Exams | | | | | |
| Feb. 19th (Mon) | Winter Recess NO CLASS | | | | | |
| Feb. 21st (Wed) | Winter Recess NO CLASS | | | | | |
| Feb. 26th (Mon) | Motion Examination Knee complex | | Chapter 12 | Chapter 7 (pp. 417– 421) | Chapter 9 | Chapter 6 (pp. 240 – 250) |
| Feb. 28th (Wed) | Motion Examination Knee complex (cont.) | | | | | |
| March 5th (Mon) | Motion Examination Knee complex (cont.) & Ankle / Foot complex | | | | | |
| March 7th (Wed) | Motion Examination Ankle / Foot complex (cont.) & Muscle examination Hip & pt cases | **Quiz #3 (Hip/Knee)** | Chapter 13 | Chapter 7 (pp. 400-415) | Chapter 10 | Chapter 6 (pp. 251-278) |
| March 12th | Muscle examination Hip & Knee pt cases | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| (Mon) | | | | | | |
| March 14th (Wed) | Muscle examination Knee & Ankle/Foot & pt cases | | | | | |
| March 19th (Mon) | Spinal Column AROM & Lumbar Spine | | Chapter 14 | Chapter 7 | Chapter 8,9,10 | Chapter 4 |
| March 21st (Wed) | Lumbar spine, SI & Neurologic screening | | Chapter 9 | Chapter 5 | Chapter 12 | Chapter 4 |
| March 26th (Mon) | Lumbar spine, SI & Neurologic screening (cont.) & pt cases | | | | | |
| March 28th (Wed) | Lumbar spine, SI & Neurologic screening (cont.) & pt cases & Thoracic spine & ribs & pt cases | | Chapter 8 | Chapter 5 | Chapter 12 | Chapter 4 (p. 46) |
| April 2nd (Mon) | Thoracic spine & ribs & pt cases & Cervical spine & UE neurologic screening | **Quiz #4 (Lumbar/SI and Thoracic)** | | | | |
| April 4th (Wed) | Cervical spine & UE neurologic screening (cont.) | | Chapter 3 | Chapter 4 | Chapter 11 | Chapter 3 |
| April 9th (Mon) | Cervical spine & UE neurologic screening (cont.) | | | | | |
| April 11th (Wed) | Cervical spine & UE neurologic screening (cont.) & TMJ / Face & pt cases | **Quiz #5 (Cervical)** | Chapter 2 | Chapter 3 | Chapter 13 | Chapter 7 (pp. 204-307) |
| April 16th (Mon) | Heart Rate / BP (10-12) Guest: Sara Arena | | Chapter 17 | | | |
| April 18th (Wed) | Open Lab & Early Practical Exams | | | | | |
| April 23rd (Mon) | Written / Practical Exams | | | | | |

This is a tentative schedule and may be changed as needed.