

Course Assessment Report
Washtenaw Community College

Discipline	Course Number	Title
Physical Therapist Assistant	180	PTA 180 03/21/2013-Clinical Kinesiology
Division	Department	Faculty Preparer
Math, Science and Health	Allied Health	Patricia Hill
Date of Last Filed Assessment Report		

I. Assessment Results per Student Learning Outcome

Outcome 1: Apply principles of physics and biomechanics to joint and muscle movement.

- Assessment Plan
 - o Assessment Tool: Departmental unit and/or final examination (multiple choice, fill in the blank and short answer)
 - o Assessment Date: Fall 2010
 - o Course section(s)/other population: All
 - o Number students to be assessed: All
 - o How the assessment will be scored:
 - o Standard of success to be used for this assessment:
 - o Who will score and analyze the data:

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2012, 2011, 2010, 2009		

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
190	87

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

Students register for a lecture section and lab section, therefore are counted twice.

The number of students registered for PTA 180 was 95. A total of 87 students actually completed the course and were assessed.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All sections of this course were assessed. This course only meets during the day.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

All students were given a departmental/course written final examination consisting of multiple choice and fill in questions. The examination was scored using an answer key.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: No

Questions on the final written exam addressed minimal aspects of physics and biomechanics; primarily concepts of muscle length tension, arthokinetics, and kinetic chain. Year 2009 had no test questions for this outcome.

The measure of success for this outcome had been determined to be that 80% of students would achieve a final exam score equal to or better than a B+ (which for this course was a grade of 87% or higher). In no year did 80% of the students achieve a final exam score greater equal to or better than a B+.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

Areas of strength include understanding of joint congruency, closed and open kinetic chain activities, and concentric and eccentric muscle contractions.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

The area of active and passive insufficiency and its impact on movement was consistently found to be an area needing improvement.

Outcome 2: Describe human movement in terms of planes, anatomical structures (skeletal,

muscular, neural) and components of normal movement.

- Assessment Plan

- o Assessment Tool: Departmental unit and/or final examination (multiple choice, fill in the blank and short answer)
- o Assessment Date: Fall 2010
- o Course section(s)/other population: All
- o Number students to be assessed: All
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4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All students enrolled in this class were assessed. This course is only offered during the day.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

All students were given a departmental/course written final examination consisting of multiple choice and fill in questions. The examination was scored

using an answer key.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: No

Questions on the written final exam addressed the muscles associated with select movements, the planes and axes associated with select movements, types of movements and nerves associated with movement. The measure of success for this outcome was that 80% of students would achieve a final exam score of equal to or better than a B+ (which was a score of 87% or higher for this course). In no year did 80% of the students achieve a final exam score equal to or better than a B+.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

Identifying the planes and axes of motions of extremities, and identifying the function of a muscle.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

Pelvic movements, muscles responsible for scapular movements (taught early in the semester); that is looking at a movement and determining which muscles are responsible for the activity. Recognizing the types of activities associated with which lever (which requires more integration of the material),

Outcome 3: Analyze normal and abnormal movements in select movements and activities.

- Assessment Plan
 - o Assessment Tool: Departmental written and lab practical unit and/or final examination (short answer and multiple choice)
 - o Assessment Date: Fall 2010
 - o Course section(s)/other population: All
 - o Number students to be assessed: All
 - o How the assessment will be scored:
 - o Standard of success to be used for this assessment:
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1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

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All sections of this course were assessed. This course meets only during the day.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

All students were given a departmental/course written final examination consisting of multiple choice and fill in questions. The examination was scored using an answer key.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: No
Questions on the final written exam addressed aspects of normal and abnormal movements. The measure of success for this outcome was that 80% of students would achieve a final exam score of equal to or better than a B+ (which was a score of 87% or higher for this course). In no year did 80% of the students achieve a final exam score equal to or better than a B+.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

Recognizing components of normal movement in straight plane activities.
Recognizing the muscular components of normal movements when observing motions.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

Providing students with more opportunities to analyze movements both normal and abnormal using video and demonstration and less on paper.

Outcome 4: Identify components of normal and abnormal posture and gait.

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6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: <u>No</u>

Questions on the final written exam addressed normal and abnormal gait and postures. The measure of success for this outcome was that 80% of students would achieve a final exam score of equal to or better than a B+ (which was a score of 87% or higher for this course). In no year did 80% of the students achieve a final exam score equal to or better than a B+.
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7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

Students demonstrated the ability to identify the components of an abnormal posture. If given a standard deviation, they could identify what would be expected. Given a normal gait and typical abnormality, students could identify expected components of specific phases of gait.
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8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

Level of competence was lower than expected. Posture and gait are the last components of the course and are developed in sequential courses. In order to improve, posture can be integrated into an earlier section. Head and neck posture as a component of the study of the trunk. More examples and opportunities for observing abnormal gait will be provided.
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II. Course Summary and Action Plans Based on Assessment Results

1. Describe your overall impression of how this course is meeting the needs of students. Did the assessment process bring to light anything about student achievement of learning outcomes that surprised you?

This course appears to be meeting the need to instruct students in palpation, identification of landmarks and muscle action. It also introduces students to normal gait and posture. It lays the foundation for students to be able to use basic information about muscles and movement to begin to analyze abnormal movements. The assessment confirmed what has been observed in laboratory classes and later classes; that students have difficulty determining the types of muscle contractions involved in an activity.

2. Describe when and how this information, including the action plan, was or will be shared with Departmental Faculty.

The results of this assessment, changes, and action plan will be discussed with faculty at a faculty meeting.

- 3.

Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
Assessment Tool	A B+ final exam score will no longer be the sole assessment of this course. Additional specific assessment items will be added such as: 1. The student will identify components of normal and abnormal gait. 2. The student will accurately palpate the origin, insertion, and muscle belly of a muscle. 3. The student will	These added items will give a more accurate indicator of how the course is meeting the needs of students and preparing them for the application of this coursework in later semesters of the program.	2013

	demonstrate the action of a select muscle and the correct (requested) muscle contraction.		
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4. Is there anything that you would like to mention that was not already captured?
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III. Attached Files

[Outcome 1](#)

[Final Written Exam Scores](#)

[Outcome 2](#)

[Outcome 3](#)

[Outcome 4](#)

Faculty/Preparer: Patricia Hill

Date: 6/25/13

Department Chair: Connie Foster

Date: 6/27/13

Dean: Martha Showalter

Date: 6/27/13

Assessment Committee Chair: Michelle Garey

Date: 7/16/13