North Central State College

MASTER SYLLABUS
2019-2020

A. Academic Division: Health Sciences

B. Discipline: Physical Therapist Assistant

C. Course Number and Title: PHTA1070 Functional Anatomy

D. Course Coordinator: Heidi Kreglow, MPT
Assistant Dean: Melinda Roepke, MSN, RN

Instructor Information:
- Name: Click here to enter text.
- Office Location: Click here to enter text.
- Office Hours: Click here to enter text.
- Phone Number: Click here to enter text.
- E-Mail Address Click here to enter text.

E. Credit Hours: 3
Lecture: 2 hours
Laboratory: 3 hours

F. Co-requisites: PHTA1010 (M) and PHTA1040 (M)

G. Syllabus Effective Date: Fall, 2019

H. Textbook(s) Title:

Required:

Clinical Kinesiology and Anatomy
- Author: Leppert
- Year: 2017
- Edition: 6th
- ISBN: 9780803658233

I. Workbook(s) and/or Lab Manual:

Laboratory Manual for Clinical Kinesiology and Anatomy
- Author: Lippert and Minor
- Year: 2017
- Edition: 6th
- ISBN: 9780803658257

J. Course Description: A course involving a study of human movement, principles of mechanics, musculoskeletal anatomy and neuromuscular physiology as it relates to the development of physical therapy exercise and those forces creating human activity. The time, space and mass aspects of human motion are also presented. Laboratory activities include location and palpation of muscles.

K. College-Wide Learning Outcomes:

College-Wide Learning Outcome	Assessments - - How it is met & When it is met
Communication – Written	
Communication – Speech	
Intercultural Knowledge and Competence	
Critical Thinking	
Information Literacy	
Quantitative Literacy	

L. Course Outcomes and Assessment Methods:

Upon successful completion of this course, the student shall:

Outcomes	Assessments – How it is met & When it is met
1. Integrate the axes and the planes of joint motions.	Exam 1 weeks 3-4
2. Use kinetic principles in human applications.	Exam 1 weeks 3-4
3. Describe kinematic principles related to joint structures and components.	Exam 1 weeks 3-4
4. Explain the principles of human joint motion.	Exam 1 weeks 3-4
5. Explain principles of active and passive insufficiency.	Exam 2 weeks5-6
6. Identify components of movement.	Exam 2 weeks 5-6
7. Differentiate the major motor and sensory pathways for human movement.	Exam 2 weeks 5-6
8. Describe the difference between an upper motor neuron and lower motor neuron.	Exam 2 weeks 5-6
9. Describe major functions of the components of the central nervous system.	Exam 2 weeks 5-6
10. List the spinal cord levels for major nerve plexi.	Exams 2, 3, 4, 5 and Final exam week 16
11. Define the functional characteristics of muscle tissue.	Exam 2 weeks 5-6
12. Illustrate roles of muscle during joint motion.	Exam 3, 4, 5 and Final exam week 16
13. Identify origin, insertion, innervations and action for major muscles of the human body.	Exams 3, 4, 5 and Final exam week 16
14. Determine function of muscle based on movement analysis.	Exams 3, 4, 5 and Final exam week 16
15. Correlate primary peripheral nerve injury to gross muscle function.	Exams 2, 3, 4, 5 and Final exam week 16
16. Demonstrate types of muscle contractions.	Exams 2, 3, 4, 5 and Final week 16
17. Define normal postural alignment.	Exam 5 weeks 13-15
18. Identify deviations from normal postural alignment.	Exam 5 weeks 13-15
19. Define normal gait pattern.	Final exam week 16
20. Identify components of gait cycle.	Final exam week 16

M. Topical Timeline (Subject to Change):

Week 1: Introduction/Biomechanics
Week 2: Skeletal and Articular Systems
Week 3: Exam 1 and Muscular System
Week 4: Nervous System
Week 5: Exam 2 and Shoulder Complex
Week 6: Shoulder cont'd and Elbow

Week 7: Wrist and Hand
Week 8: Exam 3
Week 9: Neck, Trunk, Respiration and TMJ
Week 10: Pelvic Girdle/Hip
Week 11: Exam 4 and Knee
Week 12: Ankle/Foot
Week 13: Paper Due and Posture
Week 14: Exam 5 and Gait
Week 15: Gait cont'd/Review
Week 16: Comprehensive Final Exam

N. Course Assignments:

1. 5 Exams worth 14% of total grade each
2. Comprehensive final exam worth 20% of total grade
3. Written assignment worth 10% of total grade

O. Recommended Grading Scale:

NUMERIC	GRADE	POINTS	DEFINITION
93–100	A	4.00	Superior
90–92	A-	3.67	Superior
87–89	B+	3.33	Above Average
83–86	B	3.00	Above Average
80–82	B-	2.67	Above Average
77–79	C+	2.33	Average
73–76	C	2.00	Average
70-72	C-	1.67	Below Average
67–69	D+	1.33	Below Average
63-66	D	1.00	Below Average
60-62	D-	0.67	Poor
00-59	F	0.00	Failure

P. Grading and Testing Guidelines:

Students must pass course with a grade of 77% or better, students falling below 77% will have failed to meet the requirements to continue in the PTA program.

Q. Examination Policy:

A student who misses a quiz for any reason must notify the instructor and make arrangements for making up the quiz. The student will have three school days from the quiz date to make it up.

A student who must miss an examination for any reason is responsible for notifying the instructor prior to the exam, if possible, or within 24 hours of missed exam, and to make arrangements for making up the examination. The student will have a maximum of five school days from the date of the examination in which to make it up. If the instructor is not notified regarding a missed exam, the student will receive an automatic "0" on the exam.

Final exams will be held as scheduled. Requests to take a final exam earlier should be made only under unusual and extenuating circumstances. These requests are to be submitted, in writing, no later than one week prior to the last class day of the term to the Program Director's office.

R. Class Attendance and Homework Make-Up Policy:

The PTA program is a series of sequential courses developed to build from one class session and course to the next. It is imperative that the student attend all class and laboratory sessions based on the progressive sequence and amount of educational material to be presented in six semesters. All instructors will maintain attendance records and will follow college attendance guidelines and policies.

It will be the responsibility of the student to obtain lecture notes and to make up laboratory sessions. Any student missing two or more classes will be required to meet with the Program Director. Students have a primary responsibility for notifying their instructors about anticipated or planned absences.

S. Classroom Expectations:

Students are expected to attend every class session and listen attentively and interact and behave in a professional manor conducive to learning. If a student is found to be disrupting a class session he/or she may be asked to leave the classroom upon the discretion of the instructor and then be required to meet with the Program Director discuss professional behavior and expectations.

T. College Procedures/Policies:

Important information regarding College Procedures and Policies can be found on the syllabus supplement located at

https://sharept.ncstatecollege.edu/committees/1/curriculum/SiteAssets/SitePages/Home/SYLLABUS%20SUPPLEMENT.pdf

The information can also be found Choose an item.