Course Name: Anatomy and Physiology for OTAs and PTAs

Course Number: OPTA 1131

Number of Credits: 6

Effective Date: September 2018

Course Description:
This course focuses on the functional anatomy and applied physiology of the body systems most pertinent to Occupational Therapy and Physical Therapy practices. The systems emphasized include the skeletal, muscular, nervous, cardiovascular and respiratory. An overview of the sensory, integumentary, immune, digestive and endocrine systems is also discussed.

School or Centre: School of Health Sciences

Year of Study: 1st Year Post-secondary

Course History: Replacement Course

Name of Replacing Course (if applicable): Anatomy & Physiology OPTA 1206

Course Pre-requisites (if applicable):

Course Co-requisites (if applicable):
Semester 1 courses: OPTA 1132, 1133, 1134, 1135 and 1136

PLAR (Prior Learning Assessment & Recognition) ☒ No ☐ Yes (details below):
Instructional Strategies:
Instructional strategies may include: Lecture, seminar, on-line learning, assignments, problem-based learning, videos, small group discussions, and student-led review sessions. Lab activities will comprise a portion of this course.

Course Learning Outcomes:
Upon successful completion of this course, students will be able to:
1. Describe cell structure and function
2. Describe the different types of human tissue
3. Describe the inflammatory response
4. Explain the stages of tissue healing
5. Define general anatomical terminology, movements, planes and axes
6. Describe the anatomy and physiology of bones, joints and ligaments
7. Identify selected bones, joints and ligaments
8. Describe the anatomy and physiology of muscle
9. Identify selected muscles
10. Outline the mechanism of action of selected muscles
11. Palpate skeletal and muscular landmarks through surface anatomy
12. Describe the anatomy and physiology of the central and peripheral nervous system
13. Describe the anatomy and physiology of the cardiovascular system
14. Describe the anatomy and physiology of the respiratory system
15. Describe the anatomy and physiology of the senses
16. Describe the basic anatomy and physiology of the following body systems: immune, integumentary, endocrine and digestive

Program Learning Outcomes:
Upon successful completion of this program, students will be able to:

1. Practise as an Occupational Therapist Assistant or Physical Therapist Assistant in a competent, professional, accountable and ethical manner.
2. Utilize evidence-informed rehabilitation knowledge to perform skills and implement assigned Occupational Therapy or Physical Therapy interventions.
3. Collaborate as a member of an interdisciplinary team within an evolving health care system.
4. Contribute to the development and maintenance of an effective practice environment through direct client care, organization and support of rehabilitation services.
5. Identify and report relevant information regarding the client’s status and well-being to the appropriate interdisciplinary team member.
6. Communicate appropriately and effectively, through verbal, nonverbal, written and electronic means, with clients, their families and other interdisciplinary team members.
7. Collect client information and complete client records.
8. Develop and implement strategies to promote professional competence within the role of the Occupational Therapist Assistant and Physical Therapist Assistant.
9. Promote, support and encourage health and wellness for self and others.
### Evaluation/Grading System

<table>
<thead>
<tr>
<th>Grading System</th>
<th>Specify if 'Other':</th>
<th>Specify Passing Grade:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Letter Grades</td>
<td></td>
<td>70% or C- in both written and practical components of course</td>
</tr>
</tbody>
</table>

### Components and Weighting of the Assessment/Evaluation Plan:

<table>
<thead>
<tr>
<th>Type</th>
<th>Percentage</th>
<th>Evaluation Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam</td>
<td>50%</td>
<td>X 5</td>
</tr>
<tr>
<td>Quizzes/Tests</td>
<td>20%</td>
<td></td>
</tr>
<tr>
<td>Clinical Examination</td>
<td>25%</td>
<td>Skills assessments as per rubric</td>
</tr>
<tr>
<td>Participation</td>
<td>5%</td>
<td>as per rubric</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total 100</strong></td>
</tr>
</tbody>
</table>

### Learning Environment/Type

<table>
<thead>
<tr>
<th>Instruction Type</th>
<th>Hours Per Instruction Type</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>J - Classroom/Online (Mixed Mode)</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>

### Resource Material(s):

Resources are items in addition to tuition that the student is responsible for purchasing. Course resource information will be supplied by the department/instructor.
Course Topics:

1. Cell structure and function
2. Types of human tissues
3. Tissue inflammation
4. Tissue healing
5. Anatomical planes of movement, joint movements and terminology
6. Axial and appendicular skeleton: bones, joints and ligaments
7. Muscular system
8. Surface anatomy of skeletal and muscular landmarks
9. Nervous system
10 Cardiovascular system
11. Respiratory system
12. Senses
13. Immune, integumentary, endocrine and digestive systems

VCC Education and Education Support Policies

There are a number of Education and Education Support policies that govern your educational experience at VCC, please familiarize yourself with them.

The policies are located on the VCC web site at:

http://www.vcc.ca/about/governance--policies/policies/

To find out how this course transfers, visit the BC Transfer Guide at www.bctransferguide.ca.

FOR COMMITTEE USE ONLY

| Approved by Curriculum Committee: | August 15, 2017 | Approved by Education Council: | October 10, 2017 |

VCC-CD-20150901