PN 225
Pathophysiology
Course Outline

Winter 2014
Jan 6 – Mar 7, 2014

Chairperson Signature:

Date: Dec 19, 2013
PN 225 – Pathophysiology
Course Outline Winter 2014

Instructor: Ramona Kowch
Office: 1509B
E-mail: Ramona.kowch@rdc.ab.ca
Office Hours: By Appointment

Calendar Description: 3 credit (5-0) 9 weeks
The alterations in normal human physiologic structure and function which underlie diseases processes are examined. Pathological processes and concepts, predisposing factors, clinical manifestations, suggested diagnostic tests, and treatments for representative and specific diseases are discussed.
Prerequisites: PN 216

Course Hours:
3 credit course; 5 hours class per week for 9 weeks

<table>
<thead>
<tr>
<th>Course</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>PN 225 A</td>
<td>Tuesday/Thursday</td>
<td>10:30 am - 12:50 pm</td>
<td>Main Rm: B505</td>
</tr>
<tr>
<td>PN 225 B</td>
<td>Monday/Wednesday</td>
<td>08:00 am - 10:20 am</td>
<td>Main Rm: 811</td>
</tr>
</tbody>
</table>

**There may be adjustments to class times throughout the term to accommodate special course/program activities. Students will be notified in advance as these changes are implemented. Students are expected to consult Blackboard for these notifications.

Course Description:
This course relates the knowledge of anatomy and physiology to the disruptions in homeostasis resulting in a disorder or disease process. Processes employed by the body in response to disruptions of homeostasis are examined. Using a body systems approach, the causes, characteristics, signs and symptoms and body responses to the disease are discussed as well as diagnostic tests and usual treatments.
Expanded Course Description: The RDC Practical Nurse Program Conceptual Framework (2012) shall be the core guiding document that informs all program and course outcomes, learning activities and evaluations.

Required Resources:
PN 225 Course Manual – posted on Blackboard

Recommended Resources:
Course Objectives:
Upon completion of this course the student will demonstrate the ability to:
1. Apply the current RDC Practical Nurse Program Conceptual Framework (2012) to all course learning outcomes.
2. Assume responsibility for group outcomes.
4. Explore processes of reflection.
5. Define pathophysiology.
6. Describe the general processes of inflammation, infection, and healing.
7. Compare and contrast specific pathophysiological processes of selected health challenges.
8. Recognize the purpose and use of diagnostic tests in the diagnosis of disease processes.
9. Practice critical thinking when analyzing pathophysiological processes in the context of multisystem interaction.

Program Outcomes addressed in this course include:
- Knowledge – Graduate will be able to integrate multi discipline knowledge, evidence based practice and problem solving processes to inform nursing practice and health outcomes
- Collaboration – Graduate will be able to contribute to an environment where collaboration with diverse clients, health care providers, and stakeholders is maintained
- Accountability – Graduate will be able to exemplify professional practice and conduct determined by fitness to practice, applicable legislation, Regulation, By-Laws, Code of Ethics Standards of Practice.
- Reflective Practice – Graduate will explore processes of reflection.

Course Assessment:

<table>
<thead>
<tr>
<th>Methods of Assessment</th>
<th>Description</th>
<th>Value</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. On line quizzes</td>
<td>Mini quizzes pre lecture</td>
<td>10%</td>
<td>Before each class</td>
</tr>
<tr>
<td>2. Study Tool Creation/Presentation</td>
<td>Create a compare/contrast tool to help differentiate between common disorders in a system (group project)</td>
<td>25%</td>
<td>Assigned</td>
</tr>
<tr>
<td>2. Mid Term Exam</td>
<td>Content up to &amp; including Week 4 (GI)</td>
<td>25%</td>
<td>Week of Feb 3, 2014 (both Sec A &amp; B)</td>
</tr>
<tr>
<td>3. Final Exam</td>
<td>On all course content</td>
<td>30%</td>
<td>Mar. 6, 2014</td>
</tr>
</tbody>
</table>
### Course Schedule:

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Topic</th>
<th>Course Manual</th>
<th>Textbook (Gould, 2011)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan 6,7</td>
<td>Intro to Patho</td>
<td>Unit 1, 3, 4 &amp; 5</td>
<td>Chap 1,2 &amp; 4</td>
</tr>
<tr>
<td></td>
<td>Jan 8,9</td>
<td>Inflammation, Infection &amp; Healing</td>
<td>Unit 6</td>
<td>Ready Reference 5, p 650</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Endocrine</td>
<td></td>
<td>Chap 25</td>
</tr>
<tr>
<td>2</td>
<td>Jan 13,14</td>
<td>Integumentary, Neoplasms</td>
<td>Unit 20</td>
<td>Chap 5 &amp; 27</td>
</tr>
<tr>
<td></td>
<td>Jan 15,16</td>
<td>Respiratory</td>
<td>Unit 7</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Unit 8</td>
<td>Chap 19</td>
</tr>
<tr>
<td>3</td>
<td>Jan 20,21</td>
<td>Blood &amp; Lymph Immune</td>
<td>Unit 9</td>
<td>Chap 17</td>
</tr>
<tr>
<td></td>
<td>Jan 22,23</td>
<td>Cardiovascular</td>
<td>Unit 10, 11</td>
<td>Chap 3</td>
</tr>
<tr>
<td>4</td>
<td>Jan 27,28</td>
<td>Digestive</td>
<td>Unit 15</td>
<td>Chap 18</td>
</tr>
<tr>
<td></td>
<td>Jan 29,30,</td>
<td>Midterm Review</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Feb 3,4</td>
<td>Midterm Exam – Feb 4</td>
<td>All write (Sec A &amp; B)</td>
<td>Room TBA</td>
</tr>
<tr>
<td></td>
<td>Feb 5,6</td>
<td>Acute Neurologic, Chronic Neurologic</td>
<td>Unit 12</td>
<td>Chap 22 &amp; 23</td>
</tr>
<tr>
<td>6</td>
<td>Feb 10,11</td>
<td>Sensory</td>
<td>Unit 14, 13</td>
<td>Chap 24 &amp; 13</td>
</tr>
<tr>
<td></td>
<td>Feb 12,13</td>
<td>Pain</td>
<td>Unit 16</td>
<td>Chap 26</td>
</tr>
<tr>
<td>7</td>
<td>Feb 17-21</td>
<td>No Classes – Reading week</td>
<td></td>
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<tr>
<td>8</td>
<td>Feb 24,25</td>
<td>Urinary</td>
<td>Unit 18</td>
<td>Chap 21</td>
</tr>
<tr>
<td></td>
<td>Feb 26,27</td>
<td>Fluid &amp; Electrolyte</td>
<td>Unit 19</td>
<td>Chap 6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reproductive</td>
<td>Unit 17</td>
<td>Chap 28</td>
</tr>
<tr>
<td>9</td>
<td>March 6</td>
<td>Final Exam</td>
<td>All write</td>
<td>Room TBA</td>
</tr>
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</table>

### Attendance Requirements:

Attendance is expected at all classes. The faculty of the RDC Nursing Department believes that students are committed to their program and their learning. At times however, students must take time away from the required learning experiences. An absence can be viewed as a potentially serious disruption of the learning process and may make it difficult to achieve learning objectives. Students are responsible for making arrangements to cover missed classes.
SPECIAL NOTES

Plagiarism/Cheating:
Please refer to the Red Deer College Calendar for policy. Please become familiar with what constitutes academic dishonesty. For further information, access the Red Deer College website, use the quick link to “Students” and refer to “Student Dispute, Appeal, and Misconduct Policy Processes”. See Article #7 http://www.rdc.ab.ca/about/standard_practices/documents/student_dispute_appeal_and_misconduct_processes_policy.pdf
A plagiarism detection tool is used in this course.

Personal Counselling:
Students should be aware that Personal Counselling, Career, Learning and Disability Services are provided at RDC. Inquire about locations at Information Desk.

Final Examination:
Content from the entire course is tested with a combination of multiple choice and short answer questions. Prior to the test, students will be given further information. Final exam policy will be followed.

Student Misconduct/Dispute:
Students should refer to the Student Dispute, Appeal and Misconduct Processes Policy and Standard Practice should questions or concerns about the Course Outline not be resolved directly with the instructor.

Prior Learning (PLAR):
This course may be eligible for Prior Learning Assessment. Students should refer to the RDC Course Calendar for a list of excluded courses

Student Responsibilities:
Learning resources may be available to students in alternative formats. It is the student’s responsibility to discuss learning needs with their instructor.
It is the student’s responsibility to be familiar with the information contained in the Course Outline and to clarify any areas of concern with the instructor.

Changes to Course Outline:
Changes to the course outline will be made with the mutual consent of the instructors and the students involved. Changes will be reviewed by the chairperson of Nursing for consistency with college policies.

Grading System:
To successfully pass this course an overall grade point of 2.0 must be achieved when the marks from the assignments, exams, and quizzes are computed. All the assignments, exams, and quizzes will be assigned a mark and the final grade will be computed -based on the assigned value of each assignment, exam, or quiz. See student handbook.

Professional Conduct:
Professional behavior is expected to be maintained in the classroom, lab and the clinical setting at all times to optimize learning for all students. Expectations of behavior include:
• To arrive on time, prepared and to stay the duration of class and lab
• To turn cell phones off in classroom, and labs: no cell phones or other technical devices in clinical, except calculators
• To only use lap top computers for note taking or accessing relevant information in the classroom or lab.
• To listen and consider all feedback provided by faculty.
• To be respectful at all times with all communication with and about faculty, facility staff and co-students. This includes verbal, written and electronic forms of communication inside and outside of the classroom, lab and the clinical settings.
• To maintain a positive learning environment by listening to others, providing constructive suggestions, questions, and comments in relation to the topic being discussed.

Last Day to Add/Drop:       Jan 10, 2014
Last Day to Withdraw without Academic Penalty: Feb 24, 2014