# PTA 112
## Pathology
### Summer 2011

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<table>
<thead>
<tr>
<th>Course #:</th>
<th>PTA 112</th>
</tr>
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<tbody>
<tr>
<td>Course Title:</td>
<td>Pathology</td>
</tr>
<tr>
<td>Credit Hours:(Lecture/Lab)</td>
<td>3/0</td>
</tr>
<tr>
<td>Contact Hours:</td>
<td>45</td>
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<tr>
<td>Number of weeks:</td>
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| Pre-requisite course(s): | PTA 105 Kinesiology  
BIO 104 Anatomy & Physiology II |
| Co-requisite course(s): | PTA 106 Therapeutic Measurement |

## Grading:

<table>
<thead>
<tr>
<th>% of grade</th>
<th># within course</th>
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<tbody>
<tr>
<td>Exam(s)</td>
<td>50</td>
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<tr>
<td>Quizze(s)</td>
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<tr>
<td>Paper(s)</td>
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<td>Presentation(s)</td>
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<td>Class Participation</td>
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<td>Lab Participation</td>
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<tr>
<td>Practical Exam</td>
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<td>Competency Test(s)</td>
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## Required Text:
ISBN 978-0-8036-0786-6

## Course Description:
This course is open to all students interested in physical therapy as a career or in the study of human diseases. It is a required course for Physical Therapist Assistant majors. The course is designed to familiarize
the student with the essential nature of diseases, abnormalities of structure and function that are characteristic of diseases.

PTA 112 Pathology

Course Goals: Following the successful completion of this course with a grade of C+ or higher, the learner will be able to:
1. Describe the importance of understanding the differences between normal and abnormal function of physiologic systems and how they will affect an individual's ability to interact with his or her environment.
2. Explain the differences between various disease processes and why they affect systems of the body in specific ways.
3. Recognize and respect psychosocial differences in how a patient will be able to understand or accept a disease process and interact with patients on an individual basis rather than as a stereotype or as "a diagnosis."
4. Recognize the importance of identifying a patient's psychological perceptions about his or her condition and what information can be explained to him or her by explaining the disease process in terms that the patient can understand.

Course Objectives:

Cognitive/Knowledge: the learner will be able to:
1. describe the disease process throughout various systems of the body.
2. differentiate between different types of infections and infectious diseases.
3. explain the processes of inflammation and tissue repair.
4. list types of musculoskeletal injuries common for each phase of the life span.
5. analyze medication information sheets for potential side effects that will manifest themselves in the musculoskeletal system.
6. describe pain as a component of the inflammatory response
7. describe processes for disease transmission and prevention

Affective: the learner will be able to:
1. recognize and respect psychosocial differences in how a patient will be able to understand or accept a disease process
2. recognize the importance of pain as a psychological and physiological response to injury and differentiate between the two
3. recognize the importance of recognizing a patient’s psychological perceptions about his or her condition and what information can be explained to him or her
4. recognize the importance of vital signs as an indication of the extent of involvement the disease or injury has on the overall condition of a patient

Course Outline:

I. Disease
   A. Definitions & Causes
   B. Mortality & Morbidity

II. General Principles
   A. Fluid & Hemodynamic Disorders
   B. Body Fluids
   C. Inflammation & Tissue Repair
1. Integumentary system

D. Immune System
   1. Auto Immune Diseases

E. Infections
   1. Bacterial
   2. Viral
   3. Fungal

F. Parasites
G. Neoplasia
H. Hereditary Diseases

III Diseases of systems, organs & the medications utilized

A. Circulatory system
   1. Heart
   2. Blood vessels

B. Pulmonary system

C. Endocrine system

D. Central Nervous System

E. Peripheral Nervous System

F. Musculoskeletal System

PTAP Policy: Course Grading

One of the goals of the MCCC physical therapist assistant program is to prepare student/learners to practice as PTAs. In New Jersey, as in many other states, PTAs are required to be licensed. Licensure is granted following the successful completion of a standardized licensing exam, with a score of 77 or higher. In recognition of this standard, set by a board that is external to MCCC, the PTAP will adopt 75 as the minimal passing grade. Since college policy includes 75 within the C grade range but that range spans from 70 to 76, the minimal passing grade for all PTA courses is a score of 77 which is a grade of C+. Other grade ranges are as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
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<tbody>
<tr>
<td>A</td>
<td>93 - 100</td>
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<tr>
<td>A-</td>
<td>90 - 92</td>
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<tr>
<td>B</td>
<td>83 - 86</td>
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<tr>
<td>B-</td>
<td>80 - 82</td>
</tr>
<tr>
<td>C</td>
<td>70 - 76</td>
</tr>
<tr>
<td>D</td>
<td>60 - 69</td>
</tr>
<tr>
<td>C+</td>
<td>77 - 79</td>
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<tr>
<td>B+</td>
<td>87 - 89</td>
</tr>
<tr>
<td>F</td>
<td>0 - 59</td>
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</tbody>
</table>

Grades below 77 are not considered passing grades for the PTA program courses, and are therefore considered unacceptable. All PTA program courses must be completed with a grade of “C+” or higher. All PTA program courses may be attempted only twice.

PTAP Attendance and Deportment Policy Statements

Physical Therapy is a respected profession. Members of the profession abide by the Code of Ethics for Professional Conduct and the Guide for Professional Conduct. The MCCC PTA program faculty members believe that professional conduct and deportment are essential components for success as a Physical Therapist Assistant. These documents are posted on the wall in MS 352.

Enrollment in a PTA program course will be viewed as a commitment that is made between the student/learner and the instructor. Enrollment in PTA program courses is viewed as a similar agreement to the one that exists between an employer and an employee. Both parties agree and understand that:
• Attendance is expected for every scheduled lecture, laboratory and clinical education course.

• Excused absences of didactic courses may be permitted at the discretion of the Course Director, if the absence is discussed in advance of the occurrence.

• It is the responsibility of the student to leave a message with the Course Instructor, if the student/learner is going to be absent from a scheduled lecture, laboratory or clinical education course. This message is to be left prior to the absence of the student/learner, or promptly there after.

• Lateness to a scheduled lecture, laboratory or clinical education course is unacceptable. The student/learner and the Course Instructor will negotiate based upon the frequency and circumstances, to determine what action will be taken.

• Repeated latenesses may adversely affect student/learner performance and progression within the PTA program.

• Student/learners and faculty members are expected to behave at all times, in a manner that is consistent with the behaviors of their chosen profession and those of a civilized society. (Nothing in this statement should be construed to prohibit an individual from having an individual lifestyle outside of the clinic environment that may differ from the expected behaviors in the clinic or classroom.)

• Failure to exhibit behaviors consistent with this policy may result in the need for Program counseling to determine the appropriateness of the choice of major.

• Cell phones, pagers and/or other electronic devices must be set to the inaudible settings during class and lab times. NO Texting is permitted during class or lab time.

Continued matriculation following acceptance in the PTA program indicates that the student/learner has agreed to accept and uphold his or her commitment to these policies.

Mercer County Community College & the Americans with Disabilities Act
On July 26, 1990, the President of the United States signed the Americans with Disabilities Act (ADA). The ADA is intended to remove barriers against the more than 43 million people with disabilities in the United States. If you have a documented learning disability, psychological disability, physical disability, or other hidden disability that requires an accommodation, it is your responsibility to make an appointment to meet with the PTA program coordinator. This meeting must occur prior to the due date for any course examinations or assignments to discuss what accommodations might be necessary. It is the responsibility of the student/learner to provide written documentation for any special need that needs an accommodation.

A list of Essential Functions for PTA program student/learners and graduates is available to all individuals by request, from the PTA program faculty members.

Any student in this class who has special needs because of a disability is entitled to receive accommodations. Eligible students at Mercer County Community College are assured services under the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973.
If you believe you are eligible for services, please contact Arlene Stinson, the Director of Academic Support Services. Ms. Stinson’s office is LB221, and she can be reached at (609) 570-3525.

Class Philosophy

Participants will be expected to accept responsibility for their learning, and as such will be considered learners.

Learners will identify:

• topic areas that are of particular interest to them for the purpose of paper assignments
• topic areas that present challenges to them
• strategies for meeting his or her individual needs to master the information

Learners will also:

• actively participate in the presentation/discussion of course materials
• actively participate in the negotiation of a class schedule that meets the objectives for the course and for the learners
• respect the interests and needs of other learners or faculty members
• work together toward a meaningful understanding of the materials presented.

Syllabus

PTA 112 Pathology

Tuesdays & Thursdays 6-9:15PM in MS 352

<table>
<thead>
<tr>
<th>Date/Week</th>
<th>Topic(s)</th>
<th>Readings (Lescher Chapter(s))</th>
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<tbody>
<tr>
<td>1</td>
<td>Cell Structure, Function &amp; Pathology</td>
<td>1, 2, 10, 14</td>
</tr>
<tr>
<td></td>
<td>Inflammation, Immunopathology</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Neoplasia, Genetic &amp; Developmental Diseases</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Fluid &amp; Hemodynamic Disorders</td>
<td></td>
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<tr>
<td>WE # 1</td>
<td>Cardiovascular System, Respiratory System</td>
<td>3, 4</td>
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<tr>
<td></td>
<td>Hematopoetic &amp; Lymphoid Systems</td>
<td></td>
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<tr>
<td>4</td>
<td>Gastrointestinal, Liver &amp; Biliary Systems</td>
<td>8, 9, 12</td>
</tr>
<tr>
<td></td>
<td>The Pancreas &amp; Endocrine Systems</td>
<td></td>
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<tr>
<td></td>
<td>The Integumentary System</td>
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<tr>
<td></td>
<td>&amp; Tissue Healing</td>
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</tbody>
</table>
This schedule is negotiated between the learners and the instructor. Listed dates are suggestions and will be mutually determined. Due dates for assignments will also be mutually agreed upon by the class members and the instructor.

Please note that for some of the topics, the syllabus DOES NOT follow the sequence of the textbook.
If a topic is covered in a chapter other than the assigned reading, a reasonable attempt will be made to specify other pages related to topic.

Paper and Other Assignments

These assignments are designed to familiarize you with the materials that are being covered in class and to strengthen your understanding of how pathology relates to you and your patients.

None of the papers should exceed 5 pages*. 

1. Medicine Cabinet Observations Due Date: ___________ (wk2?)

Objectives:
⇒ To identify several different classifications of medications
⇒ To group common medications of different names that are utilized for the same indications
⇒ To familiarize you with the side effects of readily available medications
⇒ To recognize patterns of medication use among family members

Open the medicine cabinet in your home or wherever you keep medications, and
• outline the contents organizing them into
  o analgesics
  o anti inflammatory medications and
  o other
• Read the precautions, indications, and discard any medications that are past their expiration date.
• Briefly summarize what you found and what you learned from the assignment.

2. Celebrity Status and Disease Due Date: ___________ (wk4?)

• Select a celebrity from the following list of individuals, and
• describe how their life has changed since he/she was diagnosed with his/her life altering disease. (You will need to consult at least 5 references using both Print and web based sources and list them in your bibliography at the end of the paper use the PTA Program Documentation Style Guide!)
Annette Funicello  Lance Armstrong  Magic Johnson
Montel Williams  Michael J. Fox  Mary Tyler Moore
Muhammad Ali  Kate Jackson  Former President Ronald Reagan
Christopher Reeve  Olivia Newton-John  Teri Garr (Actress/Comedian)
Bob Marley  Sally Field  Itzhak Perlman
Peggy Fleming  Lou Gehrig  Kirk Douglas
Sharon Osbourne

Describe each of the following factors as they relate to the disease:

- Etiology
- Pathology
- Prognosis
- Symptoms
- Treatment

3. **Online Support for Disease**
   **Due Date: ___________ (wk4?)**
   Perform an Internet Search for a support group that would be helpful for someone diagnosed with the same diagnosis as the celebrity that you selected in your second paper.

   *This support group must have:*
   - a chat room
   - accurate medical information regarding the disease
   - links to other sites for information that might be of interest

4. **Presentation Outline OR PowerPoint Presentation**
   **Due Date: ___________ (wk5?)**
   Select a diagnosis from the following list and prepare an outline for a discussion to share with your classmates that addresses all of the bulleted items. You may NOT select the disease that your “celebrity paper” covered. You must select another topic for this outline and fill in the details about that condition.

   *If you opt to present this in a PowerPoint presentation it will take more than 5 pages.*

   **Diagnoses:**
   - Diabetes
   - Parkinson’s Disease
   - Osteoporosis
   - Osteoarthritis
   - Rheumatoid Arthritis
   - Traumatic Brain Injury
   - Acute Traumatic Amputation
   - Multiple Sclerosis
   - Positive HIV Status (recent knowledge)
   - Alzheimer’s Disease
   - Muscular Dystrophy
   - Breast Cancer
   - Lung Cancer
   - Heart Disease
   - Multiple Myeloma

   - Describe each of the following for the diagnosis itself
     - etiology
     - pathology
     - prognosis
     - treatment and lifelong implications
The Presentation Assignment!

Since we all know that the semester is short and the class is long, each learner will be required to “locate” something from the media that relates to the class discussion to be “presented” during one class over the course of the semester. This can be from ANY aspect of the media, preferably something that is on the news or YouTube that can be viewed by the class.

Requirements:
1. find something that can be used in class
2. let the instructor know that you have something that relates to class discussion
   a. send the media clip via email to mecpt@msn.com
   b. identify the media for class prior to the class in which you want to have it used
   c. check with the instructor prior to class to make sure that it was received
3. lead a short discussion about what you found and why you thought that it was worthy of sharing with your classmates and
   a. how it relates to topics that are being discussed in class
4. There can be multiple clips per class!
5. Everyone is responsible for **ONE** over the course of the semester!
Academic Integrity Statement:
ACADEMIC INTEGRITY
OMB 210

Mercer County Community College is committed to Academic Integrity -- the honest, fair and continuing pursuit of knowledge, free from fraud or deception. This implies that students are expected to be responsible for their own work, and that faculty and academic support services staff members will take reasonable precautions to prevent the opportunity for academic dishonesty.

The college recognizes the following general categories of violations of Academic Integrity, with representative examples of each. Academic Integrity is violated whenever a student:

A. Uses or obtains unauthorized assistance in any academic work.
   - copying from another student's exam.
   - using notes, books, electronic devices or other aids of any kind during an exam when prohibited
   - stealing an exam or possessing a stolen copy of an exam

B. Gives fraudulent assistance to another student.
   - completing a graded academic activity or taking an exam for someone else
   - giving answers to or sharing answers with another student before, during or after an exam or other graded academic activity.
   - sharing answers during an exam by using a system of signals.

C. Knowingly represents the work of others as his/her own, or represents previously completed academic work as current.
   - submitting a paper or other academic work for credit which includes words, ideas, data or creative work of others without acknowledging the source.
   - using another author's words without enclosing them in quotation marks, without paraphrasing them or without citing the source appropriately.
   - presenting another individual's work as one's own.
   - submitting the same paper or academic assignment to another class without the permission of the instructor

D. Fabricates data in support of an academic assignment.
   - falsifying bibliographic entries.
   - submitting any academic assignment which contains falsified or fabricated data or results.

E. Inappropriately or unethically uses technological means to gain academic advantage.
   - inappropriately or unethically acquiring material via the Internet or by any other means.
   - using any electronic or hidden devices for communication during an exam.

Each instructor and academic support service area is authorized to establish specific guidelines consistent with this policy.

CONSEQUENCES FOR VIOLATIONS OF ACADEMIC INTEGRITY

For a single violation, the faculty member will determine the course of action to be followed. This may include assigning a lower grade on the assignment, assigning a lower final course grade, failing the student in the course, or other penalty appropriate to the violation.
In all cases, the instructor shall notify the Chair of the Academic Integrity Committee of the violation and the penalty imposed.
When two (or more) violations of academic integrity are reported on a student, the Academic Integrity Committee (AIC) may impose disciplinary penalties beyond those imposed by the course instructors. The student shall have the right to a hearing before the AIC or a designated AIC subcommittee.

**APPEALS**

The student has a right to appeal the decision of the instructor or the Academic Integrity Committee. Judicial procedures governing violations of Academic Integrity are contained in the Student Handbook.

*Approved by the MCCC Board of Trustees March 18, 2004*

An additional copy of this information can be found in the Student Handbook supplied by Mercer County Community College.

Welcome to the Physical Therapist Assistant Program! Thank you for investing the first part of your summer with your classmates and I. The next several semesters will be busy, but hopefully very enjoyable. We are all looking forward to working with you throughout the coming semesters.

Barbara J. Behrens, PTA, MS  
NJ License 400800015400  
PTA Program Coordinator  
Behrensb@mccc.edu