



FAIRLEIGH DICKINSON UNIVERSITY

HENRY P. BECTON SCHOOL OF NURSING AND ALLIED HEALTH

COURSE: NURS 7702

SEMESTER: Spring 2005

TITLE: ADVANCED PATHOPHYSIOLOGY

CREDITS: 3

LECTURE HOURS: online

FACULTY: Lois E Brenneman, MSN, ANP, FNP, C
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COURSE DESCRIPTION:

This course examines disease states and their implications to the health and well being of individuals. The course assumes a knowledge of basic pathophysiology and disease states. The emphasis of the course will be on identification of disease status and the implications for management of clients within a primary care setting. Case studies will provide an introduction to the management of alterations in health status from the perspective of advanced practice nursing with emphasis on adult clients in advanced practice settings. Knowledge gained in this course will serve as a foundation for clinical management skills developed in subsequent course work.

PREREQUISITE:

R.N. licensure or permission of the instructor

EDUCATIONAL OUTCOMES

At the completion of this course, the student will:

- Effectively use information technology to explore human disease states and their implications to health status with diverse global communities.
- Critically evaluate research findings for application to clinical practice.
- Demonstrate advanced knowledge by identifying and describing various pathophysiologic processes and their impact on the individual
- Interpret data relating to alterations in health status as it would relate to the clinical management of clients within primary health care settings
- Analyze clinical information presented in the form of structured case presentations with respect to applications for advanced nursing practice
- Utilize electronic technology skills to locate data concerning alterations to health status and associated implications for clinical applications in advanced practice settings.

TEACHING-LEARNING STRATEGIES:

- Assigned readings with associated online exams
- Pathophysiology handouts
- Clinical case studies with online discussion
- Journal article summaries with online discussion

EVALUATION METHODS

Weekly modular online exams	50 %
Online cases studies and discussion	25 %
Clinical journal article summaries and discussion	25 %

REQUIRED TEXTS

McCance, K & Huether, S. (2002). *Pathophysiology: The Biologic Basis for Disease in Adults and Children* (4th ed). St. Louis: Mosby. , 4th ed. ISBN: 0-323-01438-0, 1648 pages

The American Psychological Association (2001). *The Publication Manual of the American Psychological Association*, (5th ed.). Washington, D.C.: author ISBN: 1-55798-790-4

ORDERING TEXTS ONLINE

You may order the McCance text directly from the publisher, Elsevier Inc., using the following link: <http://us.elsevierhealth.com/product.jsp?isbn=0323014380> Elsevier will wave the shipping fee for individuals. The American Psychological Association (APA) text can also be ordered directly from the publisher at <http://www.apastyle.org/previoustips.html> This site also sells software which can be installed on a student's computer to facilitate creating documents which are APA-compliant. In addition, the APA site offers considerable information without charge concerning APA formatting guidelines. In particular it offers answers to common questions and issues concerning APA guidelines.

You may also order course texts from the FDU bookstore at <http://www.efollett.com> Follet can ship directly to your home for a fee. Amazon at www.amazon.com is another source of online text. There is a good chance that you may find a used copy of the course texts at either Amazon <http://www.amazon.com> and also at Half-Com at <http://www.half.com> A variety of bookstores and merchants throughout the country market used texts at these two sites. Prices for used texts are excellent but delivery times are considerable longer than Amazon or Elsevier.

GRADUATE LEVEL REVIEW TEXTS

Carlos, A & Spellberg B (2003). *Pathophysiology for the Boards and Wards: A Review for Usml Step 1* (4th ed.). Blackwell Publishers - ISBN: 1405103426 - Boards and Wards Series

Mufson, M. (2001). *Pathophysiology: PreTest Self-Assessment and Review*. (2nd ed). NY: McGraw Hill. - ISBN: 0071375074

UNDERGRADUATE LEVEL REVIEW TEXTS

Crutchlow, E.M., et al. *Pathophysiology*. (2002). Thorofare, NJ: Slack, Inc. ISBN: 1-55642-565-1

Hogan, M.A. and Hill, K. (2004). *Pathophysiology: Review and Rationales*. Upper Saddle River, NJ: Prentice Hall - ISBN: 0-13-030450-6

Paradiso, C. (1999). *Pathophysiology* (2nd ed). (Lippincott Review Series) Philadelphia: Lippincott. William and Wilkins - ISBN: 0-7817-1843-0

RECOMMENDED ONLINE SERVICES

MD Consult available online at www.mdconsult.com

This site is an on-line fee for service site developed by Elsevier Co. which provides dozens of best-selling medical texts as well as thousands of journals and other resources on-line. It is an excellent source of online journal articles.

UNIVERSITY ELECTRONIC SUBSCRIPTIONS and DATABASES

FDU has subscriptions to numerous online databases which offer hundreds of online professional journals and popular periodicals. FDU's databases can be accessed at <http://librarydb.fdu.edu/databases.html>. Use your webmail user ID and password to access these data bases. There are multiple data bases available at this site. You may access any of them once you log-in. If you encounter any difficulties, the reference librarian, (Dr.) Mitch Weiss at 201692-2139 can assist you further. Dr. Weiss can also be reached via email at mjweiss@fdu.edu. Two medical journals are worth mentioning for purposes of this course: New England Journal of Medicine (NEJM) and Journal of the American Medical Association (JAMA). These journals can be accessed via the databases noted above or also more directly using dedicated websites for these publications.

JAMA - <http://jama.ama-assn.org/> - username fairleigh3 password is library
NEJM - <http://www.nejm.org> - username is fairleigh password is library

When choosing articles for purposes of required postings of article summaries, be sure that you chose articles which have the full-text available online versus abstract-only publications. For purposes of the online postings, you are expected to summarize the article in your own words. You should not copy or simply paraphrase the article summary as it appears in the online abstract. The instructor will be checking the abstracts for all articles posted. If the your online article summary posting too closely parallels the published abstract in the database, no credit will be given for the assignment.

GUIDELINES FOR CASE STUDY ACTIVITIES

Case studies will be posted online to the website. Course assignments associated with these cases will be due throughout the semester. Guidelines for preparing the case study assignments will be distributed separately. All written work pertaining to case studies must be submitted in compliance with American Psychological Association (APA) style for formatting documents (see "Required Texts," p. 2). Case study learning activities will include written assignments and online discussion. Case studies may also involve online testing.

All written assignments associated with case studies must be submitted by the due dates - penalties will apply if assignments are submitted late. Online discussion and testing activities related to case studies must be completed by the due dates/time published in the court syllabus. After this time frame, the computer will close access to these course resources limiting any further credit for the assignment.

GUIDELINES FOR ONLINE JOURNAL POSTINGS

For each weekly module, students will be expected to post a journal article summary relating to the subject matter for that module. The journal articles must be drawn from a peer-reviewed journal which has been published within the last three years. The University data bases (see p. 3), as well as MDConsult (www.mdconsult.com), are excellent sources for locating articles. Once an article is selected, it should be summarized in the student's own words. Three to five paragraphs would seem appropriate for this purpose. The salient points of the article should be addressed. If possible, the summary should include a link to the article or a link to the data base wherein the article appears.

If the article is available in a pdf format (many databases offer this service), that document should be included as an attached file to the posting. If a pdf file is not available, it is often possible to "copy and paste" the text into a wordprocessor. The document so created may be posted as an attached file. As much as possible, including a pdf or doc file would be appreciated. The article summary must be formatted in compliance with American Psychological Association (APA) guidelines and it must include an APA-style reference. Spelling, syntax, grammar, etc. along with the quality of the content will factor into the grading for this assignment. Compliance with APA formatting style will also be reflected in the grading.

The article summary should reflect the student's own words and interpretation. Summaries should not simply be a paraphrase of the article abstract. It should include substantive content drawn from information presented in the article. Posted summaries which too closely parallel the article's abstract will not be credited for purposes of this assignment. In addition, to receive credit, the posting must be submitted by the due date. Once the time frame for the posting has past, the computer will close access to the module and the postings will be archived. Once in the archives, module postings may be read by any class member but new postings may not be added to the archives.

After selecting an article, it may be reserved on the appropriate discussion board to avoid multiple students selecting the same article. To reserve the article, simply create a posting where the subject begins with the term RESERVED followed by the article title. Put the journal title and month/year of publication in parentheses. When the summary is ready to be posted, simply change the word "Reserved" to "Summary." For example, if you are reserving an article on ventricular tachycardia following an MI where this article appears in the journal, Heart and Lung, the reservation would read as follows: "RESERVED: Ventricular Tachycardia Following MI (Heart and Lung - Jul 03)." Abbreviations are acceptable to avoid a very long subject heading. After you have posted the article, the heading would change to read as follows: "SUMMARY: Ventricular Tachycardia Following MI (Heart and Lung - Jul 03)."

Students will not be credited for postings until the title changes from "Reserved" to "Summary" as it will be assumed that the posting is in progress and not yet ready for grading. Be mindful of the date/time when the postings are due. After that point, the module will be archived and additional postings for that topic will not be accepted.

Once an article summary has been posted, other students in the class are encouraged to comment on the article via posting replies to the article summary which has been posted. Students are encouraged to share information from their clinical practice as it might apply to the particular article summary. If clinical practice experience does not pertain to the article's topic, any relevant comments and observations are welcome. Participation in this manner will be factored in calculating the course grade. Accordingly, participation in both this forum and the case study forum is encouraged.

ADDITIONAL COURSE RESOURCES:

Additional online resources for purposes of this course are available at the instructor's website at <http://www.npceu.com/fdu/7702>. Information concerning computer technology skills, guidelines and tips for professional writing and handouts pertaining to course topics are available at this site.

CLASS CALENDAR, TOPICS AND ASSIGNMENTS DUE

Wk	Unit Dates	Topics	Chapters	Cases Due	Exam & Postings Due*
1	01-24-05 to 01-30-05	<ul style="list-style-type: none"> • Cell • Fluid-Electrolytes 	Chpt 1, 2, 3		<ul style="list-style-type: none"> • Exam 1 • Intro Post
2	01-31-05 to 02-06-05	<ul style="list-style-type: none"> • Genetics 	Chpt 4, 5		<ul style="list-style-type: none"> • Exam 2 • Genetics or Fluid/Elec Post
3	02-07-05 to 02-13-05	<ul style="list-style-type: none"> • Immunity • Inflammation 	Chpt 6,7	Case 1 Due	<ul style="list-style-type: none"> • Exam 3 • Immunity or inflammation post
4	02-14-05 to 02-20-05	<ul style="list-style-type: none"> • Infection • Stress an Disease 	Chpt 8, 9		<ul style="list-style-type: none"> • Exam 4 • Infection or stress posting
5	02-21-05 to 02-27-05	<ul style="list-style-type: none"> • Oncology 	Chpt 10, 11	Case 2 Due	<ul style="list-style-type: none"> • Exam 5 • Oncology posting
6	02-28-05 to 03-06-05	<ul style="list-style-type: none"> • Hematology 	Chpt 24, 25, 26		<ul style="list-style-type: none"> • Exam 6 • Hematology posting
7	03-07-05 to 03-13-05	<ul style="list-style-type: none"> • Cardiology 	Chpt 28, 29	Case 3 Due	<ul style="list-style-type: none"> • Exam 7 • Cardiology posting
8	03-14-05 to 03-20-05	<ul style="list-style-type: none"> • Pulmonary 	Chpt 31, 32		<ul style="list-style-type: none"> • Exam 8 • Pulmonary posting
9	03-21-05 to 03-27-05	<ul style="list-style-type: none"> • Endocrinology 	Chpt 19, 20	Case 4 Due	<ul style="list-style-type: none"> • Exam 9 • Endocrine posting
10	03-28-05 to 04-03-05	<ul style="list-style-type: none"> • GI 	Chpt 37, 38		<ul style="list-style-type: none"> • Exam 10 • GI posting due
11	04-04-05 to 04-10-05	<ul style="list-style-type: none"> • Renal-Urinary 	Chpt 34, 35	Case 5 Due	<ul style="list-style-type: none"> • Exam 11 • Renal/Urinary post
12	04-11-05 to 04-17-05	<ul style="list-style-type: none"> • Reproductive • STDs 	Chpt 21, 22, 23		<ul style="list-style-type: none"> • Exam 12 • Repro-STD posting
13	04-18-05 to 04-24-05	<ul style="list-style-type: none"> • Musculoskeletal 	Chpt 40, 41	Case 6 Due	<ul style="list-style-type: none"> • Exam 13 • MS posting
14	04-25-05 to 05-01-05	<ul style="list-style-type: none"> • Neuro I 	Chpt 13, 14, 15		<ul style="list-style-type: none"> • Exam 14 • Neuro posting
15	05-02-05 to 05-08-05	<ul style="list-style-type: none"> • Neuro II • Skin 	Chpt 16, 17, 43	Case 7 Due	<ul style="list-style-type: none"> • Exam 15 • Skin posting

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* Assignments due by 11:55 p.m. on last day of unit dates - Computer will close access after that point

APPENDIX A

ANTIVIRUS INFORMATION

A good portion of class activity will take place online. It is imperative that students protect their computers from virus infection. Computer viruses are malicious codes designed to damage computers and data owned by other persons and companies. These virus programs are written by so-called "hackers" and other individuals vested in destructive activities. Several strategies are effective in minimizing vulnerability to these destructive programs

- Never open email documents which contain executable programs - attached files with the extensions exe, bat, com, scr and others
- Never open emails from persons who would not normally be sending you emails. Many of the virus programs commandeer address books on a person's computer then send out virus-laden email allegedly from the computer's owner to everyone in the address book on that computer.
- Install and update anti-virus software. FDU has a site licence for the current edition of Norton Antivirus Corporate Edition and makes it available to all students registered for courses for the duration of their active enrollment at the University. Students are expected to install and update the software on their computer prior to logging on to any FDU server. If the webmaster discovers that a student has not installed the free software and subsequently transmits a virus to another member of the community, the webmaster will block access of that student to any of the FDU servers. Per memo from the FDU webmaster, the FDU system has been programmed to "initiate the disabling of your computer's data port" for any student who is detected to be transmitting infected files via the FDU network. Once blocked, the student will not be able to access the course website.

The Norton Antiviral software may be downloaded at <http://isweb.fdu.edu/support/index> The free software comes with two conditions

- The student agrees not to distribute the software to any non-FDU student
- The student agrees to uninstall the software when you are no longer an FDU student

There are actual installation disks on the Madison or Teaneck campus for students who do not want to download the program. This option would be a good choice for a student who has a slow dial-up modem and does not want to tie up the telephone for the period of time necessary to download the program. Another option for persons with dial-up modems would be to download the program at the University or at their place of employment, then bring the files home to install on the student's personal computer

During the installation process, there is an option to set your computer so as to check for updates automatically thus keeping the virus definitions current. Please use that setting. Please also set the software to run in the background at all times. Doing so will ensure that the program is active on the computer and will trigger the virus detection process without the user having to remember to start up the program at the beginning of each session. After installation a little gold shield will appear in the system tray (at the bottom right hand corner of the screen) to indicate that the program is running.

APPENDIX B

FAIRLEIGH DICKINSON UNIVERSITY POLICY OF ACADEMIC INTEGRITY

Students enrolled at Fairleigh Dickinson University are expected to maintain the highest standards of academic honesty. Students have the responsibility to each other to make known the existence of academic dishonesty to their course instructor and then, if necessary, the department chair or the academic dean of their College. Course instructors have the added responsibility to state in advance in their syllabi any special policies and procedures concerning examinations and other academic exercises specific to their courses. Students should request this information if not distributed by the instructor.

Academic dishonesty includes, but is not necessarily limited to, the following:

- *Cheating* – Giving or receiving unauthorized assistance in any academic exercise or examination. Using or attempting to use any unauthorized materials, information or study aids in an examination or academic exercise.
- *Plagiarism* – Representing the ideas of language of others as one's own. A more complete description is listed below in the section entitled plagiarism
- *Falsification* – Falsifying or inventing any information, data or citation in an academic exercise.
- *Multiple Submission* – Submitting substantial portions of any academic exercise more than once for credit without the prior authorization and approval of the current instructor
- *Complicity* – Facilitating any of the above actions or performing work that another student then presents as his or her assignments
- *Interference* – Interfering with the ability of a fellow student to perform his or her assignments.

Plagiarism *

As defined by the Council of Writing Program Administrators, plagiarism “occurs when a writer deliberately uses someone else’s language, ideas, or other original (not common-knowledge) material without acknowledging its source” (“Defining and Avoiding Plagiarism: The WPA Statement on Best Practices.” <<http://www.wpacouncil.org/positions/WPAplagiarism.pdf>>)

Plagiarism can occur in the following ways:**

- Using text from another source (e. g. web sites, books, journals, newspapers, etc.) without documenting the source
- Using direct quotation from a text without quotation marks, even if the source has been cited correctly
- Paraphrasing or summarizing the ideas or text of another work without documenting the source
- Substituting a word or phrase for the original while maintaining the original sentence structure or intent of the passage
- Using graphics, visual imagery, video or audio without permission of the author or acknowledgment of the source
- Translating text from one language to another without citing the original work

- Obtaining packaged information, foreign language translation or a completed paper from an on-line source and submitting it as one's own work without acknowledgment of the source
- Presenting the work of another student as one's own

Fairleigh Dickinson students are responsible for authenticating any assignment submitted to an instructor should the instructor request it. It is expected that Students you must be able to produce proof that the assignment they you submit is actually their your own work. Therefore, students must we recommend that you engage in a verifiable working process on all assignments.: 1) k Keeping copies of all drafts of work your work, 2) makeing photocopies of research materials (including downloads from web sites), 3) writeing summaries of research materials, 4) keeping Writing Center receipts, 5) keeping logs or journals of your work on assignments and papers, and 6) learn to saveing drafts or versions of assignments under individual file names on computer or diskette, etc.

In addition to requiring students to authenticate their work, Fairleigh Dickinson University instructors may employ various other means of ascertaining authenticity – such as using search engines to detect plagiarism, using external plagiarism detection services, creating quizzes based on student work, and requiring students to explain their work and/or process orally. The inability to authenticate your work, should an instructor request it, work is sufficient grounds for committing an acta charge of plagiarism.

If subsequent evidence of plagiarism should be found after a grade has already been assigned, instructors have the right to lower the grade and/or apply one of the sanctions listed below.

Plagiarism is one of a number of types of academic dishonesty. Thus, it is governed by the FDU Academic Integrity Policy. The complete policy can be found in the Student Handbook, the Undergraduate and Graduate Studies Bulletin, and on the FDU website. Sanctions for committing plagiarism (and all violations of academic integrity) are outlined below.

Sanctions

Any student found guilty of academic dishonesty will, for the first offense, receive one or a combination of the following penalties

- *No Credit (0) or Failure for the academic exercise.*
- *Reduced grade for the course.*
- A failure in the course that is identified on the student's permanent record card as permanent and cannot be removed
- *Failure in the course.*
- A failure in the course that is identified on the student's permanent record card as a result of a violation of the Academic Integrity Policy. Such identification cannot be removed.
- Recommendation for *academic probation* to the Dean's office.

In cases of interference and complicity, when the student is not registered in the affected course, the incident may be recorded on the student's transcript. In any case, the incident and penalty will be recorded in the student's file maintained in the campus Office of Enrollment Services.

For a second offence of academic dishonesty, a student will be subject to any combination of the above sanctions and, with concurrence of the academic dean, one of the following:

- *Suspension* from the University for one year. Readmission will be contingent upon approval of the academic dean.
- *Dismissal* from the University.

Procedure

When a faculty member believes that a student has committed an act of academic dishonesty, the faculty member will discuss the incident with the student as soon as possible. If after the conference, the faculty member determines that an act of academic dishonesty has occurred, the faculty member will impose appropriate sanctions as listed above. The faculty member must notify the student in writing of the imposed sanctions and of the Appeal Procedure for Academic Integrity violations. All letters notifying the student of the sanctions and the appeals' outcomes should be sent CERTIFIED MAIL with return receipt. The faculty member will submit copies of notice to his or her department chair or school director, the chair of the department or director of the school of the major, the academic dean and the campus Office of Enrollment Services. The student may submit a written appeal to the department chair or school director within 14 days of the receipt of the notification of the imposed sanctions. Failure to make an appeal within this 14-day time period shall constitute a waiver of the appeal right. Upon completion of the appeal process, the academic dean will notify the campus director of enrollment services of the final disposition of the matter and the sanctions to be imposed, if any.

Appeals Process

In addition to requiring a student to authenticate his/her work, Fairleigh Dickinson University professors may employ various other means of ascertaining authenticity – such as engaging in using search engines to detect plagiarism, using external plagiarism detection services, creating quizzes based on student work, requiring students to explain their work and/or process orally, etc.

Students who are charged with academic dishonesty by an instructor may appeal in writing to the chair of the department or the director of the school in which the alleged incident took place, and the chair/director will act as mediator. The sanction imposed by the faculty member may be dismissed, modified or upheld through the mediation process. The department chair/school director, within 10 working days, will notify the student in writing of the outcome of the mediation process, with copies to the instructor, academic dean and campus director of enrollment services. If it is determined that academic dishonesty did not take place, the student's grade cannot be based on the assumption of such dishonesty. Within 10 working days of the department chair/school director's notification, the student may submit a written appeal to the academic dean of the College in which the alleged dishonesty took place. The academic dean shall establish a five-person hearing committee consisting of a faculty member at large from the College, the academic dean, the campus dean of students, a faculty member from the department or school of the student's major and a student, selected by the campus dean of students, from the College in which the alleged dishonesty took place. The hearing will be chaired and convened by the academic dean of the College. The committee can uphold, modify or dismiss the outcome of the departmental mediation process. The academic dean will notify the student of the committee's decision within five working days of the hearing.

For a second offense of academic dishonesty, the academic dean can suspend or dismiss the student. For a sanction of suspension or dismissal imposed by the academic dean, the student may file a written appeal to the campus provost within 10 working days of receiving the notification of the dean's decision. The campus provost, or his or her designee, shall review the case within 10 working days of the receipt of the appeal. The campus provost shall make the final decision, using any appropriate resource to assist in deciding the appeal. The provost shall then notify all parties in writing of his or her final decision within five working days after the review process.

* Adapted from the Kirkwood Community College plagiarism policy distributed at "Critical Challenges in Distance Education: Cheating and Plagiarism Using the Internet" workshop -- April 3, 2003.

** From the Newark Academy Plagiarism Statement.

revised April 2004.