Spring 2019 HI210Pathopharmacology

Credit: 4 Quarter Hours Method of Delivery: flex learning

Course Description: This course combines pathophysiology and pharmacology concepts. There is a focus on the pathologic causes, physiological effects, prevention, and basic treatments of diseases. These aspects of the disease processes are combined with pharmacologic treatments which may be applied to disease processes.

Prerequisite: BIO 110, HI 100, and successful completion or concurrent enrollment in BIO 120.

Text(s) & Manual(s): Introduction to Pharmacology (12th Ed.)

Author(s): Asperheim, M.K., Favaro, J. (2012). **Publisher:** Elsevier. ISBN: 978-1-4377-1706-8

Text(s) & Manual(s): Nursing 2019 Drug Handbook, 39th Ed. Author(s): Lippincott ISBN: 9781496384072

Materials needed for this course:

- 1. Access to <u>Drugs. Com</u> and/or drug reference book (Text)
- 2. Hardware/Software and Equipment
- 3. Access to computer for companion website.

Topics:

- 1. Introduction to Pharmacology
- 2. Drug Legislation and Standards
- 3. Substance Abuse
- 4. Herbal Therapies and Herbal-Drug Interactions
- 5. Drug Interactions
- 6. Antibiotics and Antifungal, Antiviral, and Antiparasitic Agents
- 7. Antihistamines
- 8. Drugs that Affect the Skin and Mucous Membranes
- 9. Drugs that Affect the Respiratory System
- 10. Drugs that Affect the Circulatory System
- 11. Drugs that Affect the Central Nervous System
- 12. Pain Medications
- 13. Tranquilizers and Antidepressants
- 14. Prostaglandins and Prostaglandin Inhibitors

Spring 2019

- 15. Drugs That Affect the Autonomic Nervous System
- 16. Drugs That Affect the Digestive System
- 17. The Endocrine Glands and Hormones
- 18. Diuretics and Other Drugs that Affect the Urinary System
- 19. Immunizing Agents and Immunosuppressive Agents
- 20. Antineoplastic Drugs
- 21. Molecular and Targeted Therapies
- 22. Special Populations and Drug Therapies

Learning Objectives: Upon completion of this course, the student will be able to:

- 1. Review basic drug facts related to drug administration, acceptable abbreviations, methods of administration, and legal considerations related drug administration.
- 2. Distinguish between local and systemic use, therapeutic uses of drugs, and allergic reactions vs. side effects of drugs.
- 3. Identify commonly prescribed medications by their trade and generic names and drug classifications.
- 4. Use current drug references to access information related to commonly used medications to treated diseases of the body systems.
- 5. Correlate pathophysiology of each body system to common signs and symptoms for each disease process.
- 6. Define terms specific to pathophysiology i.e. mechanisms of disease, cellular adaptation, prognosis, immune deficiency disorders on completion of lecture material and web based activities.
- 7. Recognize which common lab testing and medical imaging are utilized in diagnosis of diseases of the body systems.
- 8. Link commonly prescribed medications to the pathological processes that they treat.
- Discuss the legal and ethical responsibilities of workers in the healthcare industry related to drug safety including patient teaching and reduction of drug errors including the use to eprescribing.
- 10. Correlate signs, symptoms, and cost of substance abuse on the individual, the family, and the community.

Spring 2019

Midstate Grading scale:

90 -	100	Α
80 -	89	В
70 -	79	С
60 -	69	D
0 -	59	F

Academic Integrity:

Academic integrity is a basic principle of the College's function. Midstate College students are expected to maintain a high level of academic honesty. Contrary actions may result in penalties such as failure of the assignment(s), a lesser grade on assignment(s), failure of the course and/or suspension from the College. The course instructor will review all submitted documents and supporting evidence in connection to the infraction. The course instructor will also review the student's personal file for other notifications of academic dishonesty before determining the level of action to be applied. The course instructor will complete the Academic Dishonesty Report form to document and describe the incident and actions taken, then kept on file. The student may appeal the decision to administration, whose decision will be final.

The following (**plagiarism**, **cheating**, **deception**, **sabotage**, **computer misuse and copyright infringement**) are included in the actions Midstate College considers behavior contrary to the academic integrity policy; however, the policy is not limited to these examples. Further discussion of consequences regarding academic dishonesty are addressed in the Student Handbook.

Plagiarism:

Plagiarism is using another person's words, either by paraphrase or direct quotation, without giving credit to the author(s). Plagiarism can also consist of cutting and pasting material from electronic sources by submitting all or a portion of work for assignment credit. This includes papers, computer programs, music, sculptures, paintings, photographs, etc. authored by another person without explicitly citing the original source(s). These actions violate the trust

Spring 2019

and honesty expected in academic work. Plagiarism is strictly against the academic policy of Midstate College. Its seriousness requires a measured, forceful response which includes consequences for inappropriate and/or no citation.

In courses containing writing assignments, the College promotes the use of Turnitin which compares the student's writing against previously submitted papers, journals, periodicals, books, and web pages. Students and instructors can use this service to reduce the incidence of plagiarism. This electronic resource has been found to conform to legal requirements for fair use and student confidentiality. It is able to provide a report to the student indicating the parts of the assignment that match.

Student Success and Tutoring:

Contact Student Success: Room 110; (309) 692-4092, ext. 1100; studentsuccess@midstate.edu;

The Office of Student Success offers help in the following areas:

- Tutoring: Tutoring is encouraged for students who are doing their best to complete assignments yet still are experiencing difficulty in this course. Tutoring may be provided by the instructor outside of scheduled class times or through the office of Student Success.
- Writing assignment assistance: This may include learning how to conduct research; using proofreading tools such as Turnitin; outlining a topic; and applying MLA/APA standards.
- Math, accounting, and computer skills (including file management).
- Test-taking techniques.
- Note-taking skills development.
- Study skills development.
- Time management

Spring 2019 Instructor: Margaret Markley

Room/phone: 204/692-4092

Midstate email: <u>Margaret Markley Email</u> Office Hours: 5-6 pm Mon, Tues, and Wed.

Policies and Procedures:

 This course is being administered as flex learning. Flex courses are taught both on-campus and through eLearning. Flex courses offer personalized learning where students can choose each week whether they want to attend on-campus, via eLearning, or a combination of both. The schedule will state what day and time the classroom component will be, as it would be with a regular classroom course, while eLearning is available at all times. If you plan to attend in the classroom, please let the instructor know at least one day prior to the date of the classroom meeting time so that an adequate number of classroom materials can be printed.
 All work is to be submitted on time unless unusual circumstances occur. If you miss class, you are expected to use your course outline to determine what you missed. You will have seven

days to make arrangements to make up the missed work without penalty. The grade will drop 10% for each week you delay in completing material following the seven day grace period. <u>Late</u> work will NOT be accepted without prior approval from the instructor. This includes homework and guizzes.

3. If you attend the classroom component, you are expected to be on time. If you must arrive late, or leave early during class, please let the instructor know ahead of time and enter or leave the classroom quietly to avoid disturbing others.

4. Academic dishonesty is never tolerated and will be referred to the dean.

5. If you are in the classroom, cell phone ringers must be silenced and absolutely no texting or taking calls will be allowed during class aside from classroom discussion.

6. The final exam *must* be completed. Failure to do so will result in failure of the course.

7. In order to maintain equal work in both online and classroom components of this course, <u>all</u> students, both classroom and eLearning, must complete weekly reflections. The weekly reflections must be submitted electronically since we are using Turnitin for detection of plagiarism. The weekly quiz will also be done online and can be done at home or at the conclusion of the in-class session.

8. If you are attending the course via eLearning, discussion responses must be posted by Sunday night at the end of the week. In order to receive full credit for online discussion, you must also respond to at least one other student in a *meaningful* manner with either a value-added comment or an insightful question about the posting of your classmate. Students attending in the classroom must come prepared to discuss the assigned question and must actively participate in discussion in the classroom in order to receive full credit.

9. <u>Attendance is expected, not suggested</u>. Class is like having a job. Excessive absence will hurt your performance and your ability to pass this class. Excessive absence is 3 or more weeks of online classes.

10. Academic integrity is important at Midstate College, as stated in the catalog and student handbook. This not only includes prevention of cheating on exams and written research

Spring 2019

papers, but also discussion forum postings. <u>Discussion postings must be in your own words</u> and references must be cited.

11. The policy for eLearning is that course materials are available to students at noon each Monday and that students have until 7:59 a.m. Monday morning to complete the previous week's material. However, students are advised against waiting until the last minute or last day to submit their work for a variety of reasons. If you work on your eLearning course early in the week and experience computer problems, you have more time to find an alternate computer. Also, the discussion forums can be very beneficial learning tools in eLearning if utilized to their greatest potential. It is difficult to have an effective and meaningful "discussion" if nobody posts until the last minute.

12. Read the online Weekly Assignment List for all weekly activities and assignments. These will be different based on the material scheduled for the week.

13. Flex courses are taught both on-campus and through eLearning. Flex courses offer personalized learning where students can choose each week whether they want to attend on-campus, via eLearning, or both.

- On-campus = If a student attends an on-campus course, he or she will be counted as present.
- eLearning = To be considered in attendance for an eLearning course, the student must participate each week by submitting substantial, gradable work.

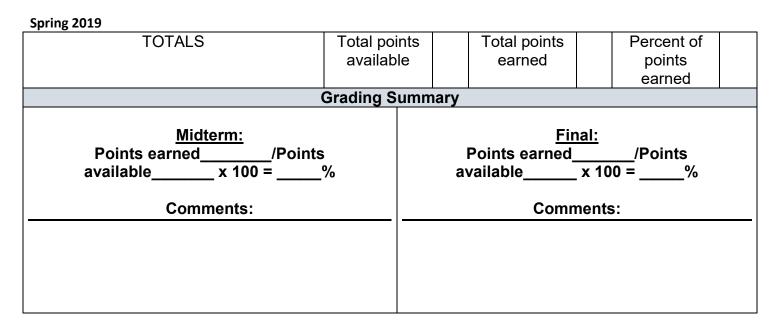
Methods of Evaluating Student Performance and Instructor's Grading Scale: All assignments, quizzes, discussions, summaries, and the final examination must be completed. If all required elements are not done, the student will not pass this course. A course average grade of C or better is required to be considered passing for this course.

Total	100%
Quizzes & Final Exam	30%
Professionalism	5%
Assignments	25%
Summaries	20%
Discussions	20%

Spring 2019

HEALTH INFORMATION TECHNOLOGY/MEDICAL CODING/MEDICAL TRANSCRIPTION PROFESSIONALISM COMPETENCY EVALUATION FORM

					One										
The student must attend															
course that meets twice															
meet once a week the s												ess o	or lea	ving e	early
	l result	in redu	uctio	on ol	f credi	t for a	ttend	dang	ce for t	hat da					
P=Present A=Absent	Wk	Wk	W		Wk	Wk		√k	Wk	Wk		/k	Wk	W	Wk
	1	2	3	3	4	5	(6	7	8		9	10	k	12
														11	
Course meeting twice															
a week															
Course meeting once a															
week															
TOTALS	Tota	l numb	er c	of		Tot	al nu	imp	er of			Perc	cent o	of	
	clas	s sess	ions	;		sess	ions	atte	ended		cl	ass s	sessi	ons	
												atte	endeo	k	
Ca	tegory	Two -	- Pr	ofes	siona	al Beł	navic	or ar	nd Wo	rk Etł	nic				
The student is expecte														ollowi	ng:
Students n	nust ea	rn 75%	6 of	ava	ilable	points	s in o	rder	r to pas	ss this	s cate	egory	/.		
S = Satisfactory	[,] – 2 pt	S		W	Wk	W	W	W	' W	W	W	W	W	W	Wk
N = Needs Improve	ment -	- 1 pt		k	2	k	k	k 5	5 k 6	k 7	k 8	k 9	k	k	12
U = Unsatisfactor	ry – 0 p	ots		1		3	4						10	11	
Exhibits professional written															
communication (i.e. p	present	ation,													
language, grammar etc.) on all															
assignments su	bmittec														
Provides instructor with	all assi	gnmer	nts												
as outlined in the cours	e syllal	ous (i.e	э.												
meets due dates, make	e-ups tu	irned i	n												
within a week	etc.)														
Adheres to specific cou	rse pol	icies a	as												
outlined in the s															
Projects professional be	havior	(i.e. se	əlf												
control, positive attitud															
academic integrity)															
Exhibits professional co	Exhibits professional communication at														
all times (respectful,	<u>tactful,</u>	etc.)		<u>.</u>											
Keeps cell phone ringe	r silend	ed and	d												
refrains from texting or															
calls during class (cla															
WEEKLY TO	FALS														



Spring 2019

CLASSROOM DISCUSSION QUESTION GRADING GUIDELINES				
Initial response	4 points			
Answers minimal requirements of question without supporting evidence =				
10 points				
 Minimal response with supporting evidence = 20 points 				
 Complete response with supporting evidence = 40 points 				
Response to a classmate				
 Simple response lacking insight or adding value = 20 points 				
 Insightful response adding value to the initial response = 40 points 				
Correct spelling and grammar in postings for the week				
 Professional and respectful response = 20 points 				
 Unprofessional or disrespectful response = 0 points 				
Total points per weekly discussion	10 points			

ELEARNING DISCUSSION QUESTION GRADING GUIDELINES	
Initial posting	3 points
 Answers the minimal requirements of the question without supporting 	
evidence = 10 point	
 Minimal posting with supporting evidence = 20 points 	
 Complete posting with supporting evidence = 30 points 	
Response to posting of a classmate	3 points
 Posting the minimal requirements without supporting evidence = 10 points 	
 Minimal posting with supporting evidence = 20 points 	
 Complete posting with supporting evidence = 30 points 	
Correct spelling and grammar in postings for the week	2 points
 No spelling errors = 20 points 	
 One or two spelling errors = 10 points 	
 More than two spelling errors = 0 points 	
Correct grammar in postings for the week	2 points
 No grammar errors = 20 points 	
 One or two grammar errors = 10 points 	
More than two spelling errors = 0 points	
Total points per weekly discussion	10 points

WEEKLY SUMMARY GRADING GUIDELINES				
 Two complete paragraphs with supporting evidence = 40 points 	4 points			
One paragraph with supporting evidence or two minimal paragraphs				
without supporting evidence = 20 points				
• Answers the minimal requirements of the question without supporting				

Spring	2019
--------	------

Spring 2019					
	evidence	e = 10 points			
	 No postir 	ig = no points			
Correct spelling in postings for the week					
	 No spelling e 	rrors = 30 points			
	 1 misspelled 	word = 20 points			
	 2-3 misspelled 	l words = 10 point			
	 More than 3 missp 	elled words = 0 points			
Correct gramma	ar in postings for the week			3 points	
	 No grammar/mecha 	anical errors = 30 points			
	 1 grammar/mecha 	inical error = 20 points			
	 2-3 grammar/mecha 	anical errors = 10 points			
	 More than 3 missp 	elled words = 0 points			
Total points per	weekly discussion			10 points	
WRITING ASSI	GNMENT GRADING GUIDEL	INES			
	-20	-10	-0		
Introduction	Does not state objectives	States objectives	Also includes	necessary	
	clearly	clearly, plus includes	info for reade	er's	
		thesis statement	understandin	ig of topic	
Paragraph	Paragraphs are not well	Paragraphs are	Paragraphs a	re fully	
Development	developed, not using	somewhat developed,	developed, u	sing	
	minimum number of	using simple sentences,	multiple, con		
	sentences nor complex	and with the minimum	compound se	entences	
	sentences	number of sentences			
Content	Does not cover content	Major areas of content	All pertinent	content is	
	appropriately	are included, but	covered		
		lacking sufficient detail			
Mechanics	More than 3 errors	Between 1-3 errors	No errors		
Spelling	More than 3 misspelled	Between 1-3 misspelled	No misspelle	d words	
1	words	words			

Week	Topics	Objectives	Reading Assignments
1	Intro into Pharmacy, Drug Legislation and Standards, Substance Abuse, Herbal Therapies and Herbal-Drug Interactions, Interactions	Review basic drug facts related to drug administration, acceptable abbreviations, methods of	Chapters 2,3,27,28, and 29

Spring 2	2019		
		administration, and	
		legal considerations	
		related drug	
		administration.	
		Correlate signs,	
		symptoms, and cost	
		of substance abuse	
		on the individual,	
		the family, and the	
		community.	
		Distinguish between	
		local and systemic	
		use, therapeutic	
		uses of drugs, and	
		allergic reactions	
		vs. side effects of	
		drugs. Discuss the	
		legal and ethical	
		responsibilities of	
		workers in the	
		healthcare industry	
		related to drug	
		safety including	
		patient teaching	
		and reduction of	
		drug errors	
		including the use to	
		e-prescribing	
		e presentaring	
2	Antibiotics and Antifungals,	Identify commonly	Chapter 7, 8, and 9
	Antivirals, Anti-parasitic Agents,	prescribed	
	Antihistamines, Drugs that affect	medications by their	
	the Skin and Mucous Membranes	trade and generic	
	INICITIDI ATTES	names and drug	
		classifications.	
		Use current drug	
		references to	
		access information	
		related to commonly	

Spring 2	2019		
		used medications to	
		treated diseases of	
		the body systems.	
		Correlate	
		pathophysiology of	
		each body system	
		to common signs	
		and symptoms for	
		each disease	
		process.	
		Define terms	
		specific to	
		, pathophysiology i.e.	
		mechanisms of	
		disease, cellular	
		adaptation,	
		prognosis, immune	
		deficiency disorders	
		on completion of	
		lecture material and	
		web based	
		activities.	
		Recognize which	
		common lab testing	
		and medical	
		imaging are utilized	
		in diagnosis of	
		diseases of the	
		body systems.	
		Link commonly	
		prescribed	
		medications to the	
		pathological	
		processes that they	
		treat.	
3	Drugs that Affect the	Identify commonly	Chapter 10
	Respiratory System	prescribed	•

Spring 2019		
	medications by their	
	trade and generic	
	names and drug	
	classifications.	
	Use current drug	
	references to	
	access information	
	related to commonly	
	used medications to	
	treated diseases of	
	the body systems.	
	Correlate	
	pathophysiology of	
	each body system	
	to common signs	
	and symptoms for	
	each disease	
	process.	
	Define terms	
	specific to	
	pathophysiology i.e.	
	mechanisms of	
	disease, cellular	
	adaptation,	
	prognosis, immune	
	deficiency disorders	
	on completion of	
	lecture material and	
	web based	
	activities.	
	Recognize which	
	common lab testing	
	and medical	
	imaging are utilized	
	in diagnosis of	
	diseases of the	
	body systems.	
	Link commonly	

Spring	pring 2019		
		prescribed medications to the pathological	
		processes that they	
		treat.	
4	Drugs that Affect the Circulatory System	Identify commonly prescribed	Chapter 11
		medications by their	
		trade and generic	
		names and drug	
		classifications.	
		Use current drug	
		references to	
		access information	
		related to commonly	
		used medications to	
		treated diseases of	
		the body systems.	
		Correlate	
		pathophysiology of	
		each body system	
		to common signs	
		and symptoms for	
		each disease	
		process.	
		Define terms	
		specific to	
		pathophysiology i.e.	
		mechanisms of	
		disease, cellular	
		adaptation,	
		prognosis, immune	
		deficiency disorders	
		on completion of	
		lecture material and	
		web based	
		activities.	

Spring 2	019		
		Recognize which	
		common lab testing	
		and medical	
		imaging are utilized	
		in diagnosis of	
		diseases of the	
		body systems.	
		Link commonly	
		prescribed	
		medications to the	
		pathological	
		processes that they	
		treat.	
5	Drugs that Affect the Central	Identify commonly	Chapter 12 and 13
	Nervous System and Pain	prescribed	
	Medications	medications by their	
		trade and generic	
		names and drug	
		classifications.	
		Use current drug	
		references to	
		access information	
		related to commonly	
		used medications to	
		treated diseases of	
		the body systems.	
		Correlate	
		pathophysiology of	
		each body system	
		to common signs	
		and symptoms for	
		each disease	
		process.	
		Define terms	
		specific to	
		pathophysiology i.e.	
		mechanisms of	

disease, cellular adaptation, prognosis, immune deficiency disorders on completion of lecture material and web based activities. Recognize which common lab testing and medical imaging are utilized in diagnosis of diseases of the		2019		
prognosis, immune deficiency disorders on completion of lecture material and web based activities. Recognize which common lab testing and medical imaging are utilized in diagnosis of			disease, cellular	
deficiency disorders on completion of lecture material and web based activities. Recognize which common lab testing and medical imaging are utilized in diagnosis of			adaptation,	
on completion of lecture material and web based activities. Recognize which common lab testing and medical imaging are utilized in diagnosis of			prognosis, immune	
lecture material and web based activities. Recognize which common lab testing and medical imaging are utilized in diagnosis of			deficiency disorders	
web based activities. Recognize which common lab testing and medical imaging are utilized in diagnosis of			on completion of	
activities. Recognize which common lab testing and medical imaging are utilized in diagnosis of			-	
Recognize which common lab testing and medical imaging are utilized in diagnosis of			web based	
common lab testing and medical imaging are utilized in diagnosis of			activities.	
common lab testing and medical imaging are utilized in diagnosis of			Recognize which	
and medical imaging are utilized in diagnosis of			-	
in diagnosis of			•	
in diagnosis of			imaging are utilized	
			diseases of the	
body systems.			body systems.	
Link commonly				
prescribed				
medications to the			•	
pathological			pathological	
processes that they				
treat.				
6 Tranquilizers and Identify commonly Chapter 14, 15,	6	Tranquilizers and	Identify commonly	Chapter 14, 15,
Antidepressants, prescribed and 16		• •	prescribed	and 16
Prostaglandins, and medications by their			medications by their	
Prostaglandin Inhibitors, Drugs that Affect the Autonomic			trade and generic	
Nervous System names and drug			names and drug	
classifications.			classifications.	
Use current drug			Use current drug	
references to			references to	
access information			access information	
related to commonly				
used medications to			related to commonly	
treated diseases of			-	
the body systems.			used medications to	
Correlate			used medications to treated diseases of	
pathophysiology of			used medications to treated diseases of the body systems.	
each body system			used medications to treated diseases of the body systems. Correlate	

Spring 2	2019		
		to common signs	
		and symptoms for	
		each disease	
		process.	
		Define terms	
		specific to	
		pathophysiology i.e.	
		mechanisms of	
		disease, cellular	
		adaptation,	
		prognosis, immune	
		deficiency disorders	
		on completion of	
		lecture material and	
		web based	
		activities.	
		Recognize which	
		common lab testing	
		and medical	
		imaging are utilized	
		in diagnosis of	
		diseases of the	
		body systems.	
		Link commonly	
		prescribed	
		medications to the	
		pathological	
		processes that they	
		treat.	
7	Vitamins, Minerals, and General	Identify commonly	Chapter 6 and 17
	Nutrition, Drugs that Affect the	prescribed	•
	Digestive System	medications by their	
		trade and generic	
		names and drug	
		classifications.	
		Use current drug	
		references to	

Spring 2019		
	access information	
	related to commonly	
	used medications to	
	treated diseases of	
	the body systems.	
	Correlate	
	pathophysiology of	
	each body system	
	to common signs	
	and symptoms for	
	each disease	
	process.	
	Define terms	
	specific to	
	pathophysiology i.e.	
	mechanisms of	
	disease, cellular	
	adaptation,	
	prognosis, immune	
	deficiency disorders	
	on completion of	
	lecture material and	
	web based	
	activities.	
	Recognize which	
	common lab testing	
	and medical	
	imaging are utilized	
	in diagnosis of	
	diseases of the	
	body systems. Link	
	commonly	
	prescribed	
	medications to the	
	pathological	
	processes that they	
	treat.	

Spring 2			
8	The Endocrine Glands and	Identify commonly	Chapter 18
	Hormones	prescribed	
		medications by their	
		trade and generic	
		names and drug	
		classifications.	
		Use current drug	
		references to	
		access information	
		related to commonly	
		used medications to	
		treated diseases of	
		the body systems.	
		Correlate	
		pathophysiology of	
		each body system	
		to common signs	
		and symptoms for	
		each disease	
		process.	
		Define terms	
		specific to	
		pathophysiology i.e.	
		mechanisms of	
		disease, cellular	
		adaptation,	
		prognosis, immune	
		deficiency disorders	
		on completion of	
		lecture material and	
		web based	
		activities.	
		Recognize which	
		common lab testing	
		and medical	
		imaging are utilized	
		in diagnosis of	
		diseases of the	

Spring 2	019		
		body systems.	
		Link commonly	
		prescribed	
		medications to the	
		pathological	
		processes that they	
		treat.	
9	Drugs that Affect the Urinary	Identify commonly	Chapter 19
	System	prescribed	
		medications by their	
		trade and generic	
		names and drug	
		classifications.	
		Use current drug	
		references to	
		access information	
		related to commonly	
		used medications to	
		treated diseases of	
		the body systems.	
		Correlate	
		pathophysiology of	
		each body system	
		to common signs	
		and symptoms for	
		each disease	
		process.	
		Define terms	
		specific to	
		pathophysiology i.e.	
		mechanisms of	
		disease, cellular	
		adaptation,	
		prognosis, immune	
		deficiency disorders	
		on completion of	
		lecture material and	

Spring 2	019		
		web based	
		activities.	
		Recognize which	
		common lab testing	
		and medical	
		imaging are utilized	
		in diagnosis of	
		diseases of the	
		body systems.	
		Link commonly	
		prescribed	
		medications to the	
		pathological	
		processes that they	
		treat.	
10	Immunizing Drugs and	Identify commonly	Chapter 20, 21,
	Immunosuppressive Drugs,	prescribed	and 22
	Molecular and Targeted Therapies	medications by their	
	Therapies	trade and generic	
		names and drug	
		classifications.	
		Use current drug	
		references to	
		access information	
		related to commonly	
		used medications to	
		treated diseases of	
		the body systems.	
		Correlate	
		pathophysiology of	
		each body system	
		to common signs and symptoms for	
		each disease	
		process.	
		Define terms	
		specific to	
		specific to	

Spring 20	19		
		pathophysiology i.e.	
		mechanisms of	
		disease, cellular	
		adaptation,	
		prognosis, immune	
		deficiency disorders	
		on completion of	
		lecture material and	
		web based	
		activities.	
		Recognize which	
		common lab testing	
		and medical	
		imaging are utilized	
		in diagnosis of	
		diseases of the	
		body systems.	
		Link commonly	
		prescribed	
		medications to the	
		pathological	
		processes that they	
		treat.	
11	Created City of ions in	Identify commonly	Chanter 22 24 25
••	Special Situations in Pharmacology	Identify commonly prescribed	Chapter 23,24, 25, and 26
	i nannacciogy	medications by their	
		trade and generic	
		names and drug	
		classifications.	
		Use current drug	
		-	
		references to	
		references to	
		access information	
		access information related to commonly	
		access information related to commonly used medications to	
		access information related to commonly	

Spring 2	019	
		pathophysiology of
		each body system
		to common signs
		and symptoms for
		each disease
		process.
		Define terms
		specific to
		pathophysiology i.e.
		mechanisms of
		disease, cellular
		adaptation,
		prognosis, immune
		deficiency disorders
		on completion of
		lecture material and
		web based
		activities.
		Recognize which
		common lab testing
		and medical
		imaging are utilized
		in diagnosis of
		diseases of the
		body systems.
		Link commonly
		prescribed
		medications to the
		pathological
		processes that they
		treat.
12	Final Exam	

Spring 2019