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Fall 9-1-2001

### PHAR 574.01: Integrated Studies V

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(Draft #4 8-29) Pharmacy 552 & 595 B.S. : Therapeutics III (+) Fall 2001

Lectures: M-W-Th 1010-1100 Rm 114, Skaggs Building  
F only 1010-1100 Rm 336, Skaggs Building  
(note: joint lectures with Pharm.D class in SB114 or 117)  
(note: 595 lectures on Weds 0910-1000 in SB 336)

Course Coordinator: Michael Rivey =====> M. Rivey  
Instructors: Douglas Allington Office: 243-6796  
Rose Macklin Community Hosp: 728-4100  
Cathy Bartels ext. 7605  
Sarah Miller Pager: 329-6122  
Gayle Cochran Home: 251-3369  
Donna Beall Larry Dent  
Lee Ann Bradley Vince Colucci  
William Docktor Tim Stratton

#### Material and Resources

Required Texts: DiPiro *Pharmacotherapy, 4<sup>th</sup> edition*  
APhA: *Handbook of Nonprescription Drugs*  
Medical Letter on Drugs & Therapeutics  
Goodman & Gilman's *Pharmacological Basis of Therapeutics*  
Boh *Pharmacy Practice Manual*  
A medical dictionary

Optional Texts: Murphy: *Clinical Pharmacokinetics pocket reference*  
Evans: *Applied Pharmacokinetics*  
Young, Koda-Kimble: *Applied Therapeutics*  
Hansten & Horn: *Drug Interactions*  
Pagana & Pagana: *Diagnostic & Lab Test Ref.*, or other lab. text

#### Goals of the Course

To promote the students' understanding of common disease states with particular emphasis on the facets of diseases that are amenable to drug therapy.

To familiarize the student with the proper use of drugs in a clinical setting.

To develop the students' awareness of factors that should be considered prior to selection of a drug and the appropriate parameters that should be monitored for therapeutic as well as undesired effects.

To encourage the students' ability to problem-solve in the clinical setting.

## Performance Objectives

Upon completion of this course, each student shall be able to:

Relate the pathophysiology of a disease to the known or purported action of a drug.

Evaluate the seriousness of a disorder based on the signs and symptoms related to a diagnosed problem, and:

- determine the necessity of drug therapy,
- when applicable, choose the proper drug and/or drug product for the situation.

Determine the place of non-pharmacologic and natural therapies, when applicable.

Tailor the drug therapy of an individual based on patient characteristics and known pharmacokinetics principles.

Identify potential drug-drug interactions.

Monitor the appropriate parameters of a disease to determine if the patient is responding positively to therapy.

Monitor for adverse drug reactions and exacerbations of underlying patient problems resulting from drug therapy.

## Student Responsibilities and Obligations

- \* To attend and participate in lecture sessions.
- \* To do assigned readings from the texts.
- \* To attend Integrated Studies conferences, prepare each case in advance, prepare to present a patient case, and participate in the discussion of all patient presentations.
- \* To perform satisfactorily on course quizzes and lecture examinations.

## GRADING IN COURSE: Phar 552-BS Therapeutics

3 midterm exams: 100 points each	<b>300 points</b>
Final exam (comprehensive, multiple choice) (100 pts comprehensive, 30 pts over last 6 lectures)	<b>130 points</b>
Topic quizzes: 8 quizzes graded on 10 pts each	<b><u>Bonus pts &gt; 75%</u></b>
<b>TOTAL POINTS FOR COURSE</b>	<b>430 POINTS</b>

**Class quizzes:** The purposes of the quizzes are to promote reading of the text before a topic. Quizzes will occur before topic lectures and will test understanding of basic concepts in the reading assignments. A quiz will consist of 5 multiple choice or true/false questions, each worth 2 points. **QUIZ** on syllabus indicates a quiz will be given for the overall topic at start of the given lecture and will concern only assigned reading for that day. Lowest 2 quiz grades will be thrown out; **no make-ups will be allowed** for quiz. **Scoring:** Quiz performance can only benefit student; bonus points for the course will be awarded for all points over 75% (i.e. 60 pts) of the potential total 80 pts on the quizzes (10 total quizzes – 2 throw-outs = 8x10 pts)

NOTE: Reading assignments are from DiPiro (4<sup>th</sup> edition) & APhA books

**Integrated Studies Conferences:** you will be assigned to a conference based on period you registered for; instructors are not necessarily the ones under which you registered. Attendance/make-up **is required** for all topics/cases; you may attend a different conference in order to complete the assignment, with instructor permission. The “make-up” requirement for a conference will be at the discretion of the instructor, dependent on the topic.

### Exams:

3 midterm exams: Tests will be in "traditional" case report fashion with short answers required. Tests will be given during a “common” time period. B.S. and Pharm.D. classes will take tests simultaneously.

Final exam: 65 multiple choice questions worth 2 pts each. Effort will be made to design questions in the style similar to the NAPLEX exam.

**Class civility:** Your **student colleagues** have strongly indicated to us that they wish to spend their valuable time in class listening to therapeutics topics. They **do not** appreciate any “side” conversations while the instructor is lecturing. They **do** appreciate students raising questions about important lecture aspects for further discussion or clarification.

Out of respect for your classmates, we will not tolerate excessive and disruptive talking during lecture. The instructor may first ask you to be silent; you may be asked to leave class if you persist in disruptive talking. The instructor will be the judge of “what” constitutes disruption. Please note that we **encourage** questions and relevant discussion.

## Therapeutics III 552 B.S. &amp; Phar 595 supplemental course: Lecture Syllabus

			<b>Instructor</b>	<b>Reading</b>
<b>Sept</b>	<b>5W</b>	<b>Introduction/ Liver disease (9AM SB336)</b>	<b>MPR (595)</b>	<b>35, 38</b>
	5W	Liver disease	MPR	
	6Th	Liver disease	MPR	
	7F	Renal disease/ <b>(10AM in SB 114)/ QUIZ</b> DRA	40	
	10M	Renal disease	DRA	42
	<b>12W</b>	<b>Hypertension</b>	<b>LAD (595)</b>	<b>JNC-6 download</b>
	12W	HTN	LAD	10
	13Th	HTN	LAD	
	14F	Pain Management <b>(10 AM SB114)</b>	LAB	56, OTC 18
	17M	Pain mgmt <b>(11AM SB117)</b>	LAB	
	<b>19W</b>	<b>Drug Literature Evaluation</b>	<b>CLB (595)</b>	
	19W	Headache <b>(11AM SB 117)/ QUIZ</b>	DB	57
	20Th	Congestive Heart Failure	VJC	11
	21F	Headache <b>(10AM SB 114)</b>	DB	OTC 25
	24M	CHF	VJC	
	25T	<b>Career Fair</b>		
	<b>26W</b>	<b>Drug Literature Evaluation</b>	<b>CLB (595)</b>	
	26W	CHF	VJC	
	27Th	Digoxin kinetics	VJC	
	28F	Coronary Artery Disease	VJC	12
<b>Oct</b>	1M	CAD	VJC	
	<b>3W</b>	<b>Drug Literature Evaluation</b>	<b>CLB (595)</b>	
	3W	Arthritis <b>(11AM SB 117)/ QUIZ</b>	MPR	84
	4Th	Arthritis	MPR	83
	5F	Arthritis <b>(note!! 11AM SB 117)</b>	MPR	OTC pp 71-2, OTC5
	<b>5 F</b>	<b>Test 1 at 1-3 PM in SB 114; through Dig PK</b>		
	8M	Gout <b>(11AM SB 117)</b>	MPR	85
	<b>10W</b>	<b>Drug Literature Evaluation</b>	<b>CLB (595)</b>	
	10W	Hyperlipidemia	LAD	ATP III download
	11Th	Hyperlipidemia	LAD	19
	12F	Contraception <b>(10AM SB114)/ QUIZ</b>	DB	OTC 8
	15M	Contraception	DB	76
	<b>17W</b>	<b>Contraception</b>	<b>DB (595)</b>	
	17W	Dysrhythmias	VJC	14
	<b>18Th</b>	<b>off day- no class</b>		
	19F	off; <b>ASP-MRM meeting in Seattle</b>		

## 552-Ther III &amp; Phar 595, continued

Oct	22M	Menopause (11AM SB 117)/ QUIZ	GAC	78
	<b>24W</b>	<b>Drug Literature Evaluation</b>	<b>CLB (595)</b>	
	24W	Menopause (11 AM SB 117)	GAC	
	25Th	Dementia	GAC	61
	26F	Osteoporosis (10 AM SB 114)	GAC	82, OTC 419-20
	29M	Osteoporosis (11AM SB 117)	GAC	
	<b>31W</b>	<b>Drug Literature Evaluation</b>	<b>CLB (595)</b>	
Nov	31W	Obstructive Airways Disease/ QUIZ (11AM SB 117)	DRA	24
	1Th	Theophylline kinetics	DRA	
	2F	OAD (10AM SB 114)	DRA	25, OTC 10
	<b>2F</b>	<b>Test 2 at 1-3 PM n SB 114; through osteoporosis</b>		
	5M	Oncology overview	CLB	DiPiro pp.2013-41 5 <b>7W</b>
		<b>Oncology overview</b>	<b>CLB (595)</b>	
	7W	Thromboembolic Disease (11AM SB 117)	MPR	17
	8Th	TED	MPR	
	9F	Stroke/ (10AM SB 114)/ QUIZ	MPR	18
	12M	<b>VETERANS DAY HOLIDAY</b>		
<b>14W</b>	<b>Nausea &amp; vomiting</b>		<b>LAB (595) 33, OTC 5</b>	
15W	Seizure dx/ QUIZ	DRA	52	
15Th	Seizure disorders	DRA		
16F	Anticonvulsant kinetics	DRA		
19M	Fluid & electrolytes	SJM	DiPiro pp 890-902	
21W	OFF; TRAVEL DAY			
22Th	THANKSGIVING HOLIDAY			
23F	“ “			
26M	F&E	SJM	pp 902-16	
<b>28W</b>	<b>Biostatistics overview</b>	<b>TPS (595)</b>		
28W	Nutrition	SJM		
29Th	Thyroid disorders	MPR	71	
30F	Diabetes mellitus/ QUIZ	LRM	70	
Dec	3M	DM	LRM	
	<b>5W</b>	<b>Biostatistics overview</b>	<b>TPS (595)</b>	
	5W	DM tests	LRM	OTC 39
	6Th	Anxiety/sleep disorders	WJD	67,69, OTC 24
	<b>7F</b>	<b>test 3 at 1-3 PM in SB 114; through nutrition</b>		

552-Ther III & Phar 595, continued

10M	Attention deficit disorder	WJD	DiPiro pp. 1046-49
<b>12W</b>	<b>Biostatistics overview</b>	<b>TPS (595)</b>	
12W	CLASS EVALUATION		
13Th	Depression/ <b>QUIZ</b>	WJD	65
14F	Depression	WJD	

**Phar 552-BS Final: test 4, 130 pts comprehensive multiple choice NAPLEX/PSAP format**  
**Phar 595 Final: see below; biostatistics questions added to Final**

**NOTE: class will meet at 10AM or 11AM (if meeting together with Pharm.D. class) on days throughout the semester**

**Pharmacy 595: supplemental course**

Phar 595: Course is 1-hour Wednesday session to supplement Ther-III and cover other topics not in B.S. curriculum in an overview fashion. It is graded course

Schedule: merged to above syllabus (weekly on Weds at 0910-1100 in SB 336)

Instructors: various Therapeutics instructors  
 Cathy Bartels  
 Tim Stratton

**Grading in Phar 595:**

6/14 of course grade: project in Drug Literature Evaluation  
 3/14 of course grade: biostatistics questions on Final Exam (add-on questions)  
 5/14 of course grade: grade obtained in Ther. Phar 552 course

## Integrated Studies Phar 574

### I. Conference topics

Tuesday	0910-1100	SB335	Rivey
Tuesday	0910-1100	SB337	Colucci

week of:

<b>September</b>	3M	no conference
	10M	Liver disease case
	17M	Hypertension case
	24M	Headache/pain management
<b>October</b>	1M	Digoxin kinetics
	8M	J-club for ½ of class; <b>service learning work session</b>
	15M	OTC cases
	23M	Contraception
	29M	<b>service learning update:</b> J-club for other ½ of class
<b>November</b>	5M	<b>SEMINARS</b>
	12M	OAD case
	19M	<b>off week- holiday week</b>
	26M	TED case
<b>December</b>	3M	OTC cases
	10M	Evaluation/ Diabetes case

**Seminar:** A required activity in the course, graded on a pass/no-pass basis. Student must repeat a no-pass seminar to successfully pass course.