



## Course Outline and Syllabus for Students

**Course Number:** PHCL 503

**Course Title:** Advanced Therapeutics -3 for master students

**Term:** Fall, 2015 (1436-1437 A.H)

**Category:** Required

**Semester Credit:** 4

**Course Directors:** Yazed Alruthia, Pharm.D, Ph.D.  
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**Office Hours:** E-mail to make an appointment.

### **Meeting Times & Locations:**

Sundays & Tuesdays 01:00 P.M. – 4:00 P.M. (Location TBD)

### **Course Description:**

PHCL 503 exposes students to the pathophysiology and clinical management of Critical Care and Neuropsychiatric disorders. This course emphasizes pathophysiology, self-care, patient education, assessment, medication administration, management, and monitoring, as well as preventative health and population-based health outcomes.

### **Course Goals:**

To develop skills that will enable the student to:

1. Correlate pathophysiologic changes to the clinical manifestations of a given disease process and predict treatment strategies that might be effective for management of a given disease.
2. Build the knowledge base and skills needed to design a rational therapeutic regimen.
3. Design, implement, monitor, evaluate, and modify patient specific therapeutic regimens in accordance with established, evidence based standards of practice.



4. Identify, assess, prevent and/or resolve disease and drug therapy problems.
5. Think critically and develop clinical judgment as to the continuing effectiveness of population based and individualized therapeutic plans and intended therapeutic outcomes.
6. Retrieve, evaluate, and manage professional information and literature.

### **Course Objectives:**

At the completion of course series, the student should be able to:

1. Describe and correlate signs and symptoms, epidemiology, risk factors, pathogenesis, natural history of disease, pathophysiology, clinical course, etiology, and prevention and treatment of the common critical care and neuropsychiatric disorders.
2. Identify evidence based, patient specific therapeutic goals and outcome measures for a patient started on a drug therapy regimen.
3. Apply evidenced based medicine to compare and contrast therapeutic options for a given medical problem and/or disease state in terms of efficacy, clinical evidence, toxicity, ease of administration, cost, and patient specific factors.
4. Design and defend a patient-specific therapeutic regimen which is safe, efficacious and practical for each drug selected, including dose, pharmacokinetic and pharmacogenetic principles, route, frequency and time of administration.
5. Evaluate the appropriateness of patient specific drug therapy regimen and treatment plans.
6. Monitor expected therapeutic outcomes and potential adverse effects of drug therapy
7. Develop an alternative drug therapy regimen based on clinical, psychosocial, and economic considerations when appropriate.
8. Use problem solving skills and knowledge to solve therapeutic cases.

### **Learning Resources:**

The textbook required for this course are:

1. Pharmacotherapy A Pathophysiologic Approach 9<sup>th</sup> edition by Joseph DiPiro, Robert L. Talbert, Gary Yee, Gary Matzke, Barbara Wells, L. Michael Posey.
2. Clinical practice guidelines (when available), primary literature, and review articles related to clinical discussions for critical appraisal.



**Course Website:**

The University’s course management system, Blackboard, will be used for announcements, discussion board questions, posting of handouts, and grade posting. Students should check the course site regularly. See the KSU home webpage at: [www.ksu.edu.sa](http://www.ksu.edu.sa) or the Blackboard login webpage at: <https://lms.ksu.edu.sa/> from any computer. The course Blackboard site will indicate which materials need to be printed by the student, items that are already preprinted, and those that the student may download and print at this or her own discretion.

**Course Evaluation:**

- A total of 4 Exams (25 points each).
- All class activities including but not limited to journal clubs, short presentations are NOT graded. However, Students are expected to prepare for any assigned activities by completing required readings and answering related questions when assigned. This course series is interactive and students will be required to maintain professional behavior at all times.

**Grading Scale:** Grades will be earned based on the following scale:

<b><u>Score Achieved</u></b>	<b><u>Letter Grade</u></b>
> 95%	A+
90 - 94.99 %	A
85 - 89.99 %	B+
80 - 84.99 %	B
75 - 79.99 %	C+
70 - 74.99 %	C
65 - 69.99 %	D+
60 - 64.99 %	D
< 60 %	F



**Attendance:** Class attendance and participation is expected. The only excused absence is either a medical illness, College-administration approved leave (e.g. professional meeting attendance), or a personal emergency. Any reason must be supported with written documentation. In case of medical illness, a written note approved by King Saud University students' academic affairs is mandatory. The written documentation must be presented to the Course Director(s) within 2 school days of the missed class session unless an extended leave is required. If a leave of 2 or more school days is needed, directly contact the Associate Dean for Academic Affairs as soon as possible. Contacting the Dean's office and expecting them to inform the course director is not acceptable. Any reason other than those defined above is an unexcused absence.

**Examination Attendance Policy:** All students must take examinations as scheduled, except in the case of medical illness, College Administration approved leave, or personal emergency. No one arriving more than 15 minutes late to an exam will be allowed to take the exam without permission from the Associate Dean for Academic Affairs. If you expect to miss an examination for an authorized reason, you must contact the Associate Dean for Academic Affairs by e-mail or phone as soon as you are aware of the problem and ideally before the scheduled start time of the examination. Contacting the Dean's office and expecting them to inform the course director is not acceptable. Any reason for missing an exam must be supported with written documentation. The written documentation must be presented to the Associate Dean for Academic Affairs within 24 hours of the scheduled exam time and before a make-up examination is administered. Unless there are extenuating circumstances, students who miss an examination for any excused reasons, must take that exam within 2 business days. Any reason other than those defined above for missing an exam or any deviation from above stated policy is an unexcused absence and will result in a grade of zero (0) for that examination.

**Professional Conduct:** It is expected that students will act in a professional manner in all interactions with the Course Director(s), course instructors, support staff, and other students. Failure to do so may result in disciplinary action, as determined by the Course Director(s). Please refrain from being disruptive during class (e.g., turn off cell phones before a session starts). Students who want to talk or use their cell phones for any reason are more than welcome to leave the class at any time without any disruption.

**Communication and Questions:** Please e-mail the Course Director(s) directly for questions. Expect a response within 48 hours, but do not expect a reply during weekends or holidays.



Week #	Day	Date	Lecture #	Topic	Instructor
1	Wed	Aug 26	1	Introduction	Alhammad
2	Sun	Aug 30	2	Severe Sepsis & Septic shock	Alhammad
	Tues	Sep 1	3		
3	Sun	Sep 6	4	Acute Pancreatitis	Alhammad
	Tues	Sep 8	5		
4	Sun	Sep 13	6	Chronic Obstructive Pulmonary Disease	Alhammad
	Tues	Sep 15	7		
<b>Hajj break (Sep 17 – Sep 29)</b>					
5	<b>Sun</b>	<b>Oct 4</b>	<b>8</b>	<b>Exam-1 (Lectures 2-7)</b>	
	Tues	Oct 6	9	Anemia	Alhammad
6	Sun	Oct 11	10	Stroke	Alhammad
	Tues	Oct 13	11		
7	Sun	Oct 18	12	Sedation & Analgesia	Alhammad
	Tues	Oct 20	13		
8	<b>Sun</b>	<b>Oct 25</b>	<b>14</b>	<b>Exam-2 (Lectures 9-13)</b>	
	Tues	Oct 27	15	Epilepsy	Alruthia
9	Sun	Nov 1	16	Epilepsy	Alruthia
	Tues	Nov 3	17	Parkinson, Alzheimer, & Dementia	
10	Sun	Nov 8	18	Parkinson, Alzheimer, & Dementia	Alruthia
	Tues	Nov 10	19	ADHD	
11	Sun	Nov 15	20	Insomnia & eating disorders	Alruthia
	<b>Tues</b>	<b>Nov 17</b>	<b>21</b>	<b>Exam-3 (Lectures 15-19)</b>	
12	Sun	Nov 22	22	Depression & Anxiety and Drug Dependence	Alruthia
	Tues	Nov 24	23		
13	Sun	Nov 29	24	Bipolar, Mania, & Psychosis	Alruthia
	Tues	Dec 1	25		
14	Sun	Dec 6	26	Osteoarthritis, Osteoporosis & Gout	Alruthia
	Tues	Dec 8	27		
15	Sun	Dec 13	28	Connective tissue & joint disorders (RA)	Alruthia
	Tues	Dec 15	29		
16	<b>Sun</b>	<b>Dec 20</b>	<b>30</b>	<b>Final Exam (22-29)</b>	



**Acknowledgement of Having Read the Syllabus**

I have read all parts of the PHCL 503 Syllabus for the Fall Semester 2015 including the Grading, Rules, and Guidelines. Return this signed form to the secretary of the Clinical Pharmacy Department, no later than Tuesday, September 10, 2015.

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(Signature)

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(Print name)

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(KSU ID#)