

Imperial Valley College Course Syllabus – Course Title and number

Basic Course Information

Semester	Winter 2016	Instructor's Name	Rick Fitzsimmons Pedro Colio
Course Title & #	Nursing 123 Pharmacology for Nurses	Instructor's Email	Rick.fitzsimmons@imperial.edu Pedro.colio@imperial.edu
CRN #	15005	Webpage (optional)	
Room	2150	Office (PT Faculty:809)	RF 2129 / PC 2134
Class Dates	January 5, to February 5, 2016	Office Hours (n/a for PT Faculty)	
Class Days	Tuesday & Friday	Office Phone # (PT may use dept. number)	RF 355-6421 CP 355-6422
Class Times	1800-2100	Who students should contact if emergency or other absence	Email instructor
Units	1.5 units		

Course Description

The course addresses the principles of medication therapy for acute and complex conditions including the effects, actions, algorithms and recommended use of drugs in the treatment of complex patient problems. Safe administration practices and reduction of medication errors will be covered. The student will learn to manage complex medication administration through various routes including intravenous routes. Nursing actions and rationale for nursing actions are explored. Clinical application is integrated into the clinical nursing courses.

Student Learning Outcomes

1. Identify the mechanism of action, use, side effects and nursing interventions of medications for the autonomic nervous system, pain control, anesthesia, allergic rhinitis, cold & flu, asthma & pulmonary disorders, bone & joint diseases, seizures, anxiety/mood disorders & CNS stimulants, Psychoses, CNS Diseases, neuromuscular disorders, shock, CHF, Angina/MI, Dysrhythmias, hematopoietic disorders, immune system modulation antiviral/antibiotics, and endocrine by passing the final with a 75 percent or better.
2. The student will be able to apply pharmacological principles in the care of patients by passing the ATI Pharmacology test in the 3rd semester and the pharmacology aspect of the ATI predictor with a raw score of 70% or better on both tests.

Course Objectives

Upon satisfactory completion of the course, students will be able to:

1. Describe the anatomy and physiology of the CNS cardiovascular, pulmonary immune, GI and endocrine systems.
2. Discuss the rationale and benefits of the major classifications of medications by the system they affect and considering oral versus infusion therapy.
3. Discuss the mechanism of action, use, side effects, and nursing intervention of medications for the CNS, cardiovascular, pulmonary, immune, GI and endocrine systems.
4. Explain legal implication related to medication administration by the major classifications of medications covered; i.e., CNS, cardiovascular, pulmonary, immune, GI and endocrine systems.

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- Describe the major classifications of medications as they relate to specific body systems for patients of all ages with acute and complex conditions.
- Demonstrate understanding of cultural-psycho social aspects of client care related to patient teaching compliance in administration of the major classifications of medication.

Textbooks & Other Resources or Links

Required Information—discretionary language

Author	ISBN	Title	Edition	Year	Publisher
Burchum & Rosenthal	978-0-323-32190-7	Lehne's Pharmacology for Nursing Care	9th	2016	Elsevier

Course Requirements and Instructional Methods

Hours

NS123 is a 1.5 unit theory course. Lectures are held 1.5 hours per week.

Assignments:

Reading, CD/video, Internet, and writing assignments are required. Students will be expected to read, understand, and critique information from college level textbooks, nursing journals, or equivalent. The reading list will include texts used in prior nursing courses and those required of this course (see text book list). Additional reading assignments will be required to supplement textbook material. Writing assignments will reflect the objectives listed and may include, but not be limited to, short essays, posters, and/or professional papers. Outside assignments including but not limited to nursing lectures, independent exercises, and learning center activities may be assigned and are required.

Methods of Instruction

The methods of instruction will be determined by each instructor and may include, but not be limited to the following: small group discussions, student presentations, demonstration, simulations, classroom lecture, CD or online assisted instruction, audiovisuals, textbooks, handouts, and required reading and writing assignments.

Course Grading Based on Course Objectives

Methods of Evaluation:

Students must maintain a "C" average grade as determined by the scale below:

RN Nursing Grading Scale

- A = 92 –100%
- B = 83 – 91 %
- C = 75 – 82 %
- D = 68 – 74 %
- F = Below 68%

Grades will not be "rounded". To advance to the next semester, a "C" or better is required in this course and the **co-requisite courses. The course grade will be computed as follows 65% will come from an average of all assignments prior to the final exam and 35% of the course grade will come from the final exam. Drug cards and assignments will compose 30% and test 70% of 65% of grade.**

All of the following must be attained to successfully pass this course:

- Final Theory Exam score must be passed at a 70%.
- Theory (exams) grade must total equivalent of 75% or greater.

C. Attendance requirements as noted below must be met.

Testing will include no more than 6 examinations in addition to written, demonstration, and oral assignments, and a final examination. Pop quizzes may be included. EXCEPT FOR UNDER EXTREME CIRCUMSTANCES, THERE WILL BE NO MAKE-UPS FOR TESTS OR QUIZZES MISSED DUE TO ABSENCE.

Schedule may change at the discretion of the instructor, taking into account the progress of students with the materials. Any change will be announced in class or via email through Blackboard. **Students are held responsible for all materials covered in the syllabus and for any changes that are announced in class or by email.**

It is recommended that if a grade falls below 78% that the student will arrange to meet with the faculty member. Faculty can be reached in person, by email, or during office hours to discuss grades or other classroom matters. The student is responsible for withdrawing (W) from the class before the deadline as outlined on your registration forms. Failure to pass this class will affect your ability to progress to the next semester. Students failing or withdrawing must complete a Petition to Re-Enter.

Attendance

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of the class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See general catalog for details.
- It is the responsibility of each student to attend all classes and to contact the faculty person before the start of class if there is a need to be excused from class. Students are expected to attend all classes. **Absences are limited to 1.5 hours of theory throughout the semester (equivalent to number of hours class meets in one week).** A student who reaches the maximum allowable hours of absenteeism or tardiness may be dropped by the instructor.
- Acceptance of absenteeism excuses is at the discretion of the faculty member and may result in failure of the class. Absences attributed to the representation of the college at officially approved events (conferences, contests, and fieldtrips) will be counted as "excused" absences. A student who reaches the maximum allowable number of hours absent and is not allowed to continue in class and may file a petition to reenter the nursing program. The teaching team will meet with the student to discuss remediation and the possibility of reentry.
- Students who are late for class three times will be considered absent for one day.

Classroom Etiquette

During all classroom and clinical instruction time, every person will be respected within the group and it is expected that all interactions between students, faculty, and other staff will take place professionally and courteously. It is expected that students will come prepared for class by completing reading assignments and skills practice on their own time.

- **Electronic Devices:** Cell phones and electronic devices must be turned off and put away during class unless otherwise directed by the instructor.
- **Food and Drink** are prohibited in all classrooms. Water bottles with lid/caps are the only exception additional restrictions will apply in labs. Please comply as directed.
- **Disruptive Students:** Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the General Catalog.
- **Children in the classroom:** Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

Academic Honesty

- **Plagiarism** is to take and present as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to correctly "cite a source" you must ask for help.
- **Cheating** is defined as fraud, deceit, or dishonesty in an academic assignment or using or attempting to use materials, or assisting others in using material, or assisting others in using material, which are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the General School Catalog for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment, (e) use of a commercial term paper service.

Additional Help – Discretionary Section and Language

- Material and testing will be done on Blackboard and you should learn the Blackboard System. Go into Blackboard and use the help for any assistance.
- Learning Center: There is the Nursing Learning center on campus to assist you through the use of computer, tutors or a combination. You will need to take the initiative to set up time with the tutors.
- Library Services: There is more to our library than just books. You have access to tutors in the learning center, study rooms for small groups and online access to a wealth of resources.

Disabled Student Programs and Services (DSPS)

Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP&S) office as soon as possible. If you feel you need to be evaluated for educational accommodations, the DSP&S office is located in Building 2100, telephone 760-355-6313.

Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student health Fee. We now also have a fulltime mental health counselor. For information see <http://www.imperial.edu/students/student-health-center/>. The IVC Student Health Center is located in the Health Science building in Room 2109, telephone 760-355-6310.

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities please refer to the IVC General Catalog available online at <http://www.edu/index.php?option=com-docman&task=doc-download&gid=4516&Itemid=762>

Information Literacy

Imperial Valley College is dedicated to help students skillfully discover, evaluate, and use information from all sources. Students can access tutorials at <http://www.imperial.edu/courses-and-programs/divisin/arts-and-letters/library-department/info-lit-tutorials/>

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<p>1-12-2016 Class 3 Colio</p>	<p>Drugs for Psychoses</p> <p>Drugs for CNS disease</p> <p>Neuromuscular Disorders</p> <p>Insomnia</p>	<p>Lehne, Ch 31 ATI Pharm Made Easy: Neurological Drug Cards C/C: Phenylbutylpiperidines: Haloperidol (Haldol) Atypical Antipsychotic; Dibenzodiazepines: Quetiapine (Seroquel); Quinolinone: Aripiprazole(Abilify) (Group all 3 together in one card) Lehne, Ch 21 C/C: Dopaminergic Agent; Levodopa (Larodopa) Cholinergic Blocker; Benzotropine (Cogentin) COMT inhibitors: Tolcapone (Tasmar) MAO-B inhibitors: Selegiline (eldepryl) Nondoamine dopamine receptor agonists: Pramipexole (Mirapex) (Group all Parkinson drugs together) Lehne, Ch 25 Drug cards: C/C: {Centrally acting Muscle relaxant; Cyclobenzaprine (Flexeril); Direct-acting Antispasmodic; Dantrolene Sodium (Dantrium) Lehne, Ch 34 C/C: [Sedative-Hypnotic Benzodiazepines: Long acting; Flurazepam (Dalmane) Short acting: Temazepam (Restoril); Nonbenzodiazepine C. depressant; Zolpidem(Ambien)]</p>
<p>1-15-2016 Class 4 Colio</p>	<p>Test 1</p>	<p>All Units covered</p>
<p>1-15-2016 Class 4 Colio</p>	<p>Cardiovascular Drugs</p>	<p>Lehne, Ch 41, 43, 44, 45, 46, 47 Renin blocker, C/C: Direct Renin Inhibitor: aliskiren, ACE, enalapril: ARB, losartan, C/C: Adrenergic drugs, clonidine, Doxazosin, nebivolol C/C: CCB; nifedipine, verapamil; Vasodilator: Sodium nitroprusside Nitroglycerin, (Nitrostat) C/C: Diuretics: hydrochlorothiazide, furosemide</p>
<p>1-19-2016 Class 5 Colio</p>	<p>CHF</p> <p>Angina/MI/Coagulation</p>	<p>Lehne, Ch 48 ATI Pharm Made easy: Cardiovascular Drug Cards: Cardiac Glycoside; Digoxin(Lanoxin) C/C: B-type natriuretic peptide: Nesiritide (Natreor) Phosphodiesterase Inhibitor; Milrinone (Primacor) Lehne, Ch 50,51,52,53</p> <p>Drug Cards: C/C: atorvastatin, gemfibrozil, cholestyramine, niacin Drug Cards: C/C: Warfarin; Dabigatran Etexilate; Heparin, enoxaparin, alteplase, C/C: aspirin, clopidogrel</p>
<p>1-22-2016 Class 6 Colio</p>	<p>Dysrhythmias /Shock</p> <p>Hematopoietic Disorders</p>	<p>Lehne, Ch. 49 ATI Pharm made easy: Cardiovascular Drug Cards: C/C: [Sodium Channel Blocker/Class 1A; Procainamide; Class 1b: Lidocaine; Class 1c: Propafenone (Rythmol)(Group these together)]</p> <p>C/C: Beta-adrenergic Antagonist/Class II ; esmolol (Brevibloc)Potassium Channel Blocker/Class III; Amiodarone (Cordarone)Calcium Channel Blocker/Class IV; Verapamil (Calan)</p> <p>Lehne, Ch. 55,56 Drug cards: C/C: Hematopoietic Growth Factor; Epoetin (Epogen) Colony-stimulating Factor; Filgrastim (Neupogen) Anemia: C/C: Vit B 12, Iron supplement; Ferrous Sulfate</p>

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<p>1-26-2016 Class 7 Fitzsimmons</p>	<p>Test 2</p>	<p>All units covered</p>
<p>1-26-2016 Class 7 Fitzsimmons</p>	<p>Chemotherapy of Infectious Disease</p>	<p>Lehne, 83,84,85,86,87,88,89,91, Drug Cards: Antibiotics <i>Sulfonamides</i>; Sulfamethozazole/trimethoprim (Bactrim/Septa) <i>Compare/Contrast (C/C): Penicillin: Amoxicillin</i> (Amoxil) <i>Cephalosporins: 1st gen:3rd gen</i> Ceftriaxone (Rocephin) <i>Carbapenems,</i> Imipenem/cilastatin (Primaxin) <i>C/Macrolides: Erythromycin</i> (E-mycin) <i>Tetracyclines: Doxycycline</i> (Doryx) <i>Amionoglycosidees: Gentamicin</i> (Garamycin) <i>Quinolones: Ciprofloxacin</i> (Cipro) <i>Miscellaneous: C/C: Clindamycin</i> (Cleocin) Linezolid (Zyvox). Metronidazole (Flagyl) Vancomycin(Vancocin)</p>
<p>1-29-2016 Class 8 Fitzsimmons</p>	<p>Chemotherapy of Infectious Disease</p>	<p>Lehne, 90,92,93,94,95, <i>C/C: NRTI; Zidovudine</i>(Retrovir, <i>NNRTI; Nevirapine</i> (Viramune), <i>Protease Inhibitor; Saquinavir</i> (Invirase),<i>Antiviral; Acyclovir</i>(Zovirax) Drug Card: <i>C/C: Antitubercular: isoniazid</i> (INH); <i>ethambutol</i>(myambutol), <i>rifampin</i>(Rifadin)(Group TB together) <i>C/C:Antifungal: Amphotericin B, Fluconazole</i> (Diflucan), <i>terbinafin</i> (Lamisil),</p>
<p>2-2-2016 Class 9 Fitzsimmons</p>	<p>GI</p>	<p>Lehne, Ch 78, 79, 80 Drug Cards: <i>C/C: Antacids, cimetidine, lansoprazole, , sucralfate,</i> <i>C/C:diphenoxylate with atropine, lactobacillus, C/C:lactulose,</i> polyethylene glycol, Drug Cards: C/C anitemetics: Metoclopramide, ondansetron, scopolamine:</p>
<p>2-2-2016 Class 9 Fitzsimmons</p>	<p>Endocrine</p>	<p>Lehne Ch, 57 Drug Cards: <i>C/C,Glipizide, metformin, pioglitazone</i> (actos),<i>C/C:Sitagliptin</i> (Januvia) Exenatide (Byeta); Dapaglifozin <i>C/C: insulin</i> (NPH & Reg, & Lispro), glargine</p>
<p>2-5-2015 Class 10 Fitzsimmons</p>	<p>Final Exam</p>	