COURSE INFO

Course Title: Pathopharmacology I
Course Number: BIOL 2343

Course Description:
Systematic study of the use of drugs to diagnose, prevent or treat disease. Emphasis will be placed on developing an understanding of drug actions – therapeutic and adverse, rationale for selection of dosage, route and schedule for administration in individuals across the lifespan.

Prerequisite(s): Human Anatomy and Physiology I and II
Nursing Program Requirement: A grade of B or higher in math and science courses.

Credit Hours: 3 credits

Course Schedule: Section A: T/Th/0810-0925/Anderson Auditorium

Course Withdrawal “W” Date: The last day to drop course with a “W” is November 4, 2016.

FACULTY INFORMATION

Course Coordinators: Mark Winter & Marilyn Haupt

Offices: 1200 Colquitt, Room 203

winterml@stthom.edu
Office Phone: 713.525.3898
Cell Phone: 409.739.2852

hauptm@stthom.edu
Office phone: 713.831.7270
Cell phone: 409.739.4514

Office Hours: 0930 to 1400 T/Th
REQUIRED COURSE RESOURCES
Textbooks:


The Study Guide for the 9th edition of Lehne’s Pharmacology will also be a useful tool for reinforcing what is in the textbook. Included with the textbook is access to the Evolve Website with Audio Drug Glossary, Clinical References, Drug Flashcards, and Drug References.

LEARNING OUTCOMES
Course Goals & Objectives
The goals of clinical nursing education are to enable the students to apply theoretical learning, develop communication skills, perform safe therapeutic intervention, exhibit caring behaviors, apply ethical perspectives and develop critical thinking skills. In the clinical setting the student will accomplish this by:

1. Describe principles and concepts in physiology which illustrate how an uncontrolled factor can alter or disrupt normal organ function, creating a health alteration which leads to illness.

2. Identify disease processes and associated alterations in normal body system structure and function:
   a. Cells/Tissues
   b. Nervous System
   c. Musculoskeletal System
   d. Cardiovascular
   e. Respiratory
   f. Renal
   g. Hematologic
   h. Endocrine
   i. Reproductive
   j. Digestive

3. Compare primary symptoms, signs and etiology of disease processes with normal system structure and function.

4. Describe common disease processes that affect individuals across the lifespan: infants, children, adults and older adults.
5. Describe the inter-relationships between body systems and the impact of altered structure and function within one system on other systems.
6. Demonstrate an understanding of pathophysiologic processes and related pharmacological interventions in professional nursing practice.
7. Apply concepts and principles of pathophysiology and related pharmacology for selected body systems.
8. Interpret the general principles of drug action, differentiating among the pharmaceutics, pharmacokinetic, and pharmaco-dynamic phases of drug action.
9. Use knowledge about mechanisms of action, intended effects and common side effects of selected drugs and major drug categories.
10. Use critical thinking abilities and problem-solving skills to understand pathophysiologic/pharmacologic concepts and principles.
11. Use selected relevant evidence-based and research findings in analyzing hypothetic nursing simulations and case studies.
12. Using clinical case examples, relate patient signs and symptoms to underlying pathophysiologic processes.
13. Describe principles of pharmacology including drug distribution, routes of administration, pharmacokinetics, and drug metabolism.
14. Identify drugs by therapeutic or toxic classifications.
15. Recognize the therapeutic applications, the toxic effects, the mode or mechanism of action of the class of drugs, and any distinctive properties of the class with regard to pharmacologic principles.
16. Develop a basic vocabulary of drug names using classic prototype drugs in each major classification.
17. Using clinical case examples, describe the relationship between basic pharmacology and practical clinical problems.
18. Provide the core pharmacologic knowledge, skills, attitudes and abilities necessary to perform excellently in the UST SON courses, clinical practice sites and on the National Council Licensure Examination (NCLEX).
PRINCIPAL UNITS OF THE COURSE (Topical Outline)

I. Introduction to Pharmacology: Drug absorption, drug distribution, drug receptor
II. Pharmacokinetics
III. Stress & Adaptation
IV. Physiology of the CNS
V. Drugs and Receptors
VI. Physiology of the PNS
VII. Muscarinic Agonists and Antagonists
VIII. Adrenergic Agonists and Antagonists
IX. Inflammation
X. Antihistamines & Anti-inflammatory Drugs
XI. Infection
XII. Infectious Disease Drugs
XIII. Immunity
XIV. Immunosuppressant Therapies
XV. Pain and Principles Related to Pain Management
XVI. Cyclooxygenase Inhibitors
XVII. Opioid Analgesics
XVIII. Anxiety
XIX. Management of Anxiety Disorders
XX. Temperature, Sleep, & Level of Consciousness
XXI. Antipyretics and Sedative-Hypnotics
METHOD OF ASSESSMENT

Methods of Instruction
Assigned readings are to be done from the required textbooks that would lead to a combination of lecture and discussion. Supplemental resources may be found on-line via Blackboard.

Evaluation
Exam 1 ....................... 20%
Exam 2 ....................... 20%
Exam 3 ....................... 20%
Final Exam ................... 25%
Online quizzes .............. 5%
Homework ..................... 10%
TOTAL ........................ 100%

Course Grading Rules
Students are responsible for monitoring their own grades in Bb under the My Grades tab. Any discrepancies must be reported to the Course Coordinator in a timely fashion.

Grades are awarded based on the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>95 - 100</td>
</tr>
<tr>
<td>A-</td>
<td>90 - 94</td>
</tr>
<tr>
<td>B+</td>
<td>87 - 89</td>
</tr>
<tr>
<td>B</td>
<td>84 - 86</td>
</tr>
<tr>
<td>B-</td>
<td>81 - 83</td>
</tr>
<tr>
<td>C+</td>
<td>78 - 80</td>
</tr>
<tr>
<td>C</td>
<td>75 - 77</td>
</tr>
<tr>
<td>C-</td>
<td>72 - 74</td>
</tr>
<tr>
<td>D</td>
<td>69 - 71</td>
</tr>
<tr>
<td>D+</td>
<td>66 - 68</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 65</td>
</tr>
</tbody>
</table>

Students who receive a test grade below a "C" (< 75) will be referred to the Faculty Academic Coach (FAC) and to the Director of the Nursing Success Center (NSC). The NSC director will initiate the student into the SON Academic Retention Program. Students may review their exams during a 2-week period following exams by scheduling an appointment with the Course Coordinator or Faculty Academic Coach (FAC).
Missed Assignments and Missed Exams

Missed Tests/Quizzes: Students who are not able to take a test when it is scheduled must notify the faculty member as soon as possible before the test period begins. The Course Coordinator will determine the make-up process, if any.

Incomplete Grades: The faculty may grant an incomplete if a student has not met all of the criteria for passing the course. Such situations may include students who have a documented emergency in the last few days of a semester.

Late Work: Assignments are due at the beginning of the class period unless otherwise indicated. All late papers/assignments will have five (5) points deducted per day, this includes weekend days. Due dates will be provided in the course calendar. Assignment guidelines and grading rubrics will be provided in Bb.

Testing Policies

Exam Regulations

1. UST-SON Classroom Exam Agreements:
   - All phones MUST be off or silenced.
   - No bottles or food on desks at any time.
   - Test items should never be copied/pasted/forwarded/photographed or reproduced in any form.
   - Scrap paper will be provided by faculty.
   - Scrap paper must be returned to faculty with the student’s name on it when the student completes the exam.
   - Concerns about specific test questions should be written on scrap paper and personally handed to faculty at the end of the exam.
   - Students cannot leave the classroom for any reason during the exam (except for exams lasting more than 2.5 hours and only one student may leave at a time).
   - Students must exit the classroom quietly immediately after completing the exam.

2. Students must direct all questions and concerns to the exam facilitator by raising their hand. Failure to comply may lead to student being asked to leave the classroom.

3. Students will not be allowed into the classroom to take the exam after the scheduled start time. The Course Coordinator will determine the consequences of missing the exam(s).
METHODS OF BLENDED LEARNING

Blended learning is an educational approach that assesses and integrates the strengths of face-to-face, mobile, and online learning to address a course’s educational goals. The use of multiple interactive learning environments outside the classroom makes interaction inside the classroom more effective and productive. All SON courses are offered in a blended learning or completely online format. These formats incorporate teaching and learning activities using online and/or face-to-face methods of instruction. Blackboard (Bb), a web-based management system, houses the main components of the courses. Course content, assignments, due dates, and quizzes will be provided through Bb. Students must use UST email to respond to the course instructors and peers about assigned topics. Students must participate in all online (graded or ungraded) activities.

This course has content/activities delivered from multiple directions and multiple dimensions both synchronous and asynchronous. This course has three main components:

- The **Syllabus** which has key information for the course along with course guidelines and expectations.
- **Grading Rubrics** which communicates grading guidelines. It can also provide the student with a basis for self-evaluation, reflection, and peer review.
- **Course Content Outline /Calendar** which communicates class date, time, and location; assignments and exams that are due in both environments, in and out of class; and clinical rotation times, depending on type of course.

**Some Helpful Information**

- **Access to internet** – You must have daily access to the internet and use Bb site regularly between classes to keep up with announcements and to complete assigned activities.

- **Learning is not a spectator sport** – You are expected to take responsibility to actively use the online materials and manage your time so that you complete assigned readings and online activities in between face-to-face sessions.

- **Use of new technologies** – Online tutorials on the use of Bb tools are located at: [http://www.stthom.edu/Offices_and_Services/Information_Technology/Services/Training/Student_Tutorials.asp?Page_ID=5512](http://www.stthom.edu/Offices_and_Services/Information_Technology/Services/Training/Student_Tutorials.asp?Page_ID=5512). Training on how to use other required technologies will be provided to students by the faculty as needed.

- **Student resources:** Students are encouraged to access the UST library as well as other appropriate internet sources as needed.

- **Library Link** – [http://www.stthom.edu/Public/Index.asp?Page_ID=1467](http://www.stthom.edu/Public/Index.asp?Page_ID=1467)

- **Student computing services** – **Call the UST Help Desk at 713-525-6900** or email lthelp@stthom.edu. Available services are detailed on their website.
- **Nursing Success Center (NSC)** – Provides academic advising, peer mentoring, state board licensing preparation, study skills tutorials, and time management tutorials for nursing and pre-nursing students.

- **Additional Resources:**

  - There are a myriad of iPad/iPhone/Android resources that can be utilized in learning pharmacology. These resources can include Medscape, Epocrates, Skyscape, which includes Davis' Drug Guide, and various flash card programs to help reinforce the learning of drugs, their actions, etc.

  - There is a website ([http://www.Quizlet.com](http://www.Quizlet.com)) that lists hundreds of different flashcard practice banks for nursing students taking pharmacology.

- **Nursing Constellation Plus (NCP) Includes:**

**COURSE POLICIES**

**Attendance /Punctuality/Participation**

**Attendance:** Class attendance is required and the student is responsible for all material covered. If the student is not able to attend class, the student is to notify the instructor before the missed session. Failure to notify the instructor could constitute an unexcused absence as determined by the Course Coordinator.

**Absence and Tardy Policies:** Absences and tardiness are recorded beginning from the first class session after the student has enrolled in the course. Course Coordinators are not obligated to allow students to make up work they miss due to unexcused absences. Students who have excessive absences will be at risk for failing the course, might not be allowed to take the final exam, or might receive an incomplete. Course Coordinators may apply additional attendance policies as deemed appropriate to individual courses. Refer to the SON Student Handbook.

**Dropping a Class:** YOU MUST OFFICIALLY DROP OR WITHDRAW FROM A COURSE. Once a student registers for a course, the student will receive a grade for the course unless the drop or withdrawal process is completed through the Registrar's Office. This includes students who may have never actually attended class or who may never have completed payment of tuition and fees for each course.
Computer Use Policy: Students may use their own personal electronic devices to take notes or refer to class materials in class but NOT during quizzes or exams. Students will be told to turn off electronic devices if they are being used in ways that are not permitted in the classroom and during exams/quizzes.

Mobile Electronic Devices: All personal electronic mobile devices will be kept on vibrate or silent mode. No texting or talking on phones is permitted during class time. Any personal recording during class requires the instructor’s permission. All emergency situations must be handled outside of the classroom environment.

Netiquette: Refers to the generally accepted rules of behavior for communicating in an online environment.

Please follow these guidelines in all your online responses and discussion groups.

RESPECT. We would like to suggest respectful exchanges as a basic ground rule. We feel that informational errors should be pointed out respectfully (even if stated strongly). Disagreements that honor the viewpoints of the various contributors are productive and can lead to new learning and understanding. If you use abusive or offensive language, you will be blocked from the discussion area and potentially removed from this course. If that is the case, you will not receive a refund of your tuition or fees.

PRIVACY. Keep in mind not only your own privacy rights but others’ as well. Do not reveal any information that you deem private.

BE CONSIDERATE of grammatical/spelling errors.

REMEMBER that humor and satire are often misinterpreted online. Communication is more than words. So be prepared for some misunderstanding and requests for clarification.

BE SUPPORTIVE. We are all still learning. Our job is not to judge or condemn or even praise, although genuine encouragement is a necessary ingredient. We are here to provide information, to address topics in a discussion forum, and to provide assistance in helping each participant use her/his own unique learning style. Reflection generally precedes growth. So reflect upon what is said, provide sincere comments, and hopefully, we will all grow.

One good way to avoid problems is to reread your postings before sending them. Something written in haste may be misread.
**Integrity of Student Work**

**Academic Integrity**: UST students should demonstrate integrity in all of their activities, both personal and professional. Any unprofessional behavior or failure to adhere to the honor system is a serious violation of integrity and may result in failure of the course. The *UST Student Handbook and Planner* is located in Bb under My Organizations, then SON Student Resources.

The *SON Student Handbook* contains detailed information on plagiarism and related policies. The *SON Student Handbook* is located in Bb under My Organizations, then SON Student Resources. Students are held accountable for knowing and adhering to these policies. *Turn It In* software may be used routinely to help address insufficient documentation; this software detects plagiarism.

**Policy on Written Assignments**

The *Publication Manual of the American Psychological Association* (most current edition) is the required style manual that must be used in writing papers in the UST School of Nursing.

**Academic Policies and Procedures**

**ADA Student Accommodations**: In accordance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, the instructor will make all possible and reasonable adjustments in policies, practices, services, and facilities to ensure equal and optimal educational programs and activities for students who need special accommodations. Students must contact personnel in the Office of Counseling and Disability Services (2nd floor of Crooker Center). This office is open Monday through Friday, 8 am – 5 pm. Their offices can be reached at (713) 525-6953 or 2169.

The compliance officer will ask for proof of disability and specific accommodations that are needed by students. Academic Accommodations must be applied for in writing EACH semester. Students with special needs should inform the instructor within the first two weeks of class EVERY semester. Students should be aware of and take into consideration if their accommodations conflict with the AACN (2001) *Nursing Essential Functions* as identified in the *SON Student Handbook*.

*If academic accommodations are approved, the student provides the Letter of Accommodations to the Course Coordinator.* Students should contact the instructor immediately if new needs arise. Students can see the instructor before or after class or request another time to discuss such matters. All information will be kept confidential.

**Course and Instructor Evaluations**: There is an end of semester evaluation for this course and the Course Coordinator. This evaluation is confidential. Students are
strongly encouraged to complete the evaluations because input is very valuable. Instructions on how to access evaluations will be provided two to three weeks before the end of each semester.

**Academic integrity**

UST Students should demonstrate integrity in all of their activities, both personal and professional. Any unprofessional behavior or failure to adhere to the honor system is a serious violation of integrity and may result in failure of the course.

**Plagiarism** involves taking credit for another person’s work. Students must cite sources in APA style any time source material (e.g., books, journal articles, internet material, etc.) has been used, paraphrased, or quoted. Quoted material must be placed in quotation marks and referenced appropriately. Please note that copying information directly from a source without giving credit, using friends’ work, buying papers online, re-using one’s own work from previous classes, etc., all constitute plagiarism.

Any instance of plagiarism will result in failure of the course and may result in dismissal from UST. Ignorance is no excuse; if a student remains uncertain about the guidelines for using and citing source material after these issues are addressed in class, the student should seek input from the instructor.

Please note that Turn It In software will be used routinely to help address insufficient documentation; this software can detect plagiarism.
BIOL 2343

Acknowledgement of Receipt of Course Syllabus

Course faculty will review the syllabus on the first day of class. I understand that it is my responsibility to read the syllabus which is available on Blackboard. If I am unclear about any portion of the syllabus, I will ask for clarification from the Course Coordinator, as well as, refer to the SON and UST Student Handbooks.

This form must be signed on or before the 2nd week of class. This form will be placed in your SON student file.

**Initial** the following statements and sign below:

______ I acknowledge that I have access to the online BIOL 2343 Pathopharmacology course syllabus.

______ I acknowledge that I have read the syllabus and that I have been given an opportunity to ask questions about the details of the course.

______ I acknowledge that I understand the methods of evaluation and course grading rules.

______ I acknowledge that I have sufficient information to sign this form. I understand its contents.

Student Signature: ________________________________

Printed Name: ________________________________

Date: _______________
<table>
<thead>
<tr>
<th>Date/Week</th>
<th>Time/Place</th>
<th>Topic</th>
<th>Faculty</th>
<th>Tasks</th>
</tr>
</thead>
</table>
| **Week 1**  
Tuesday  
8/23/2016  
Thursday  
8/25/2016 | 0810-0925  
Anderson Auditorium  
0810-0925  
Anderson Auditorium | Welcome; Course Introduction  
**Module 1: Pharm:** Intro to Pharmacology, Pharmacokinetics, and Drug Receptors and Interactions | Drs. Haupt/Winter  
Dr. M Winter | Turn in completed syllabus acknowledgement form |
| **Week 2**  
Tuesday  
8/30/2016  
Thursday  
9/1/2016 | 0810-0925  
Anderson Auditorium | **Module 1: Pharm:** Intro to Pharmacology, Pharmacokinetics, and Drug Receptors and Interactions  
**Module 2: Patho:** Stress and Adaptation | Dr. M Winter | See Module 1 in Blackboard for learning activities |
| **Week 3**  
Tuesday  
9/6/2016  
Thursday  
9/8/2016 | 0810-0925  
Anderson Auditorium | **Module 3: Patho:** Physiology of CNS  
**Module 4: Pharm:** Introduction to CNS Pharmacology | Dr. M Haupt | |
| **Week 4**  
Tuesday  
9/13/2016  
Thursday  
9/15/2016 | 0810-0925  
Anderson Auditorium | **EXAM I**  
**Module 5: Patho:** Disorders of the Peripheral Nervous System | Drs. Haupt/Winter  
Dr. M Haupt | Homework: Making Connections  
Multiple Sclerosis  
Due: 10/25/2016 In Class |
<table>
<thead>
<tr>
<th>Date/Week</th>
<th>Time/Place</th>
<th>Topic</th>
<th>Faculty</th>
<th>Tasks</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Week 5</strong></td>
<td>0810-0925 Anderson Auditorium</td>
<td><strong>Module 6: Pharm:</strong> Muscarinic Agonists &amp; Antagonists</td>
<td>Dr. M. Winter</td>
<td></td>
</tr>
<tr>
<td>Tuesday 9/20/2016</td>
<td>0810-0925 Anderson Auditorium</td>
<td><strong>Module 6: Pharm:</strong> Adrenergic Agonists &amp; Antagonists</td>
<td>Dr. M. Winter</td>
<td></td>
</tr>
<tr>
<td>Thursday 9/22/2016</td>
<td>0810-0925 Anderson Auditorium</td>
<td><strong>Module 7: Patho:</strong> Inflammation</td>
<td>Dr. M. Haupt</td>
<td></td>
</tr>
<tr>
<td><strong>Week 6</strong></td>
<td>0810-0925 Anderson Auditorium</td>
<td><strong>Module 7: Patho:</strong> Inflammation</td>
<td>Dr. M. Haupt</td>
<td></td>
</tr>
<tr>
<td>Tuesday 9/27/2016</td>
<td>0810-0925 Anderson Auditorium</td>
<td><strong>Module 7: Patho:</strong> Inflammation</td>
<td>Dr. M. Haupt</td>
<td></td>
</tr>
<tr>
<td>Thursday 9/29/2016</td>
<td>0810-0925 Anderson Auditorium</td>
<td><strong>Module 8: Pharm</strong> Anti-Inflammatory Drugs</td>
<td>Dr. M. Winter</td>
<td></td>
</tr>
<tr>
<td><strong>Week 7</strong></td>
<td>0810-0925 Anderson Auditorium</td>
<td><strong>EXAM II</strong></td>
<td>Drs. Haupt/Winter</td>
<td></td>
</tr>
<tr>
<td>Tuesday 10/4/2016</td>
<td>0810-0925 Anderson Auditorium</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thursday 10/6/2016</td>
<td>0810-0925 Anderson Auditorium</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Week 8</strong></td>
<td></td>
<td><strong>FALL BREAK</strong> No Class</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday 10/11/2016</td>
<td>0810-0925 Anderson Auditorium</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thursday 10/13/2016</td>
<td>0810-0925 Anderson Auditorium</td>
<td><strong>Module 9: Patho</strong> Infection</td>
<td>Dr. M. Haupt</td>
<td></td>
</tr>
<tr>
<td><strong>Homework:</strong> Making Connections Syphilis <strong>Due:</strong> 10/25/2016 In Class</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date/Week</td>
<td>Time/Place</td>
<td>Topic</td>
<td>Faculty</td>
<td>Tasks</td>
</tr>
<tr>
<td>-----------</td>
<td>---------------------</td>
<td>--------------------------------------------------</td>
<td>----------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td>Week 9</td>
<td>0810-0925</td>
<td><strong>Module 10: Pharm:</strong> Infectious Disease Drugs I</td>
<td>Dr. M. Winter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Anderson Auditorium</td>
<td></td>
<td></td>
<td><strong>Module 10: Pharm:</strong> Infectious Disease Drugs I</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Module 11: Patho:</strong> Immunity</td>
<td>Dr. M. Haupt</td>
<td><strong>Homework: Making Connections</strong>&lt;br&gt;<strong>Anaphylaxis Due:</strong> 11/8/2016 In Class</td>
</tr>
<tr>
<td>Week 10</td>
<td>0810-0925</td>
<td><strong>Module 11: Patho:</strong> Immunity</td>
<td>Dr. M. Haupt</td>
<td><strong>Homework: Making Connections</strong>&lt;br&gt;<strong>Anaphylaxis Due:</strong> 11/8/2016 In Class</td>
</tr>
<tr>
<td></td>
<td>Anderson Auditorium</td>
<td></td>
<td></td>
<td><strong>Homework: Making Connections</strong>&lt;br&gt;<strong>Anaphylaxis Due:</strong> 11/8/2016 In Class</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Module 12: Pharm:</strong> Antihistamines &amp; Glucocorticoids</td>
<td>Dr. M. Winter</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>EXAM III</strong></td>
<td>Dr. M. Haupt</td>
<td></td>
</tr>
<tr>
<td>Week 11</td>
<td>0810-0925</td>
<td><strong>Module 13: Patho:</strong> Pain</td>
<td>Dr. M. Haupt</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Anderson Auditorium</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Module 14: Pharm</strong> Cyclooxygenase Inhibitors</td>
<td>Dr. M. Winter</td>
<td></td>
</tr>
<tr>
<td>Week 12</td>
<td>0810-0925</td>
<td><strong>Module 13: Patho:</strong> Pain</td>
<td>Dr. M. Haupt</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Anderson Auditorium</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Module 14: Pharm</strong> Cyclooxygenase Inhibitors</td>
<td>Dr. M. Winter</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date/Week</td>
<td>Time/Place</td>
<td>Topic</td>
<td>Faculty</td>
<td>Tasks</td>
</tr>
<tr>
<td>----------</td>
<td>------------</td>
<td>-------</td>
<td>---------</td>
<td>-------</td>
</tr>
<tr>
<td><strong>Week 13</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday 11/15/2016</td>
<td>0810-0925 Anderson Auditorium</td>
<td><strong>Module 14: Pharm</strong> Opioid Analgesics</td>
<td>Dr. M. Winter</td>
<td></td>
</tr>
<tr>
<td>Thursday 11/17/2016</td>
<td>0810-0925 Anderson Auditorium</td>
<td><strong>Module 15: Patho</strong> Anxiety</td>
<td>Dr. M. Haupt</td>
<td></td>
</tr>
<tr>
<td><strong>Week 14</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday 11/22/2016</td>
<td>0810-0925 Anderson Auditorium</td>
<td><strong>Module 16: Pharm</strong> Management of Anxiety Disorders</td>
<td>Dr. M. Winter</td>
<td></td>
</tr>
<tr>
<td>Thursday 11/23/2016</td>
<td>--------</td>
<td>Thanksgiving</td>
<td>No Class</td>
<td>--------</td>
</tr>
<tr>
<td><strong>Week 15</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday 11/29/2016</td>
<td>0810-0925 Anderson Auditorium</td>
<td><strong>Module 17: Patho:</strong> Temperature, Sleep, &amp; Level of Consciousness</td>
<td>Dr. M. Haupt</td>
<td></td>
</tr>
<tr>
<td>Thursday 12/1/2016</td>
<td>0810-0925 Anderson Auditorium</td>
<td><strong>Module 18: Pharm:</strong> Antipyretics &amp; Sedative-Hypnotics</td>
<td>Dr. M. Winter</td>
<td></td>
</tr>
<tr>
<td><strong>Week 16</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>December 6 or 9</td>
<td>0800-1600 Location TBD</td>
<td><strong>FINAL REVIEW</strong></td>
<td>Drs. Haupt &amp; Winter</td>
<td><strong>FINAL EXAM</strong></td>
</tr>
<tr>
<td>Tuesday 12/13/2016</td>
<td>0800-1030 Anderson Auditorium</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


Revised and Approved by SON Faculty – December 2014

Revised: 4/21/2016 AC