South Portland, Maine 04106

Health Science

Title: Pharmacology
Credit Hours: 3
Lecture
Office Hours – Location: ETC Rm. 202

Catalog Number: HLTH-155-01
Total Contact Hours: 48
Instructor: Scott Cook, MS., CCEMT-P
Contact Information:
scook@smccme.edu (preferred)
Office 207.741.5649

Course Syllabus

Course Description
This course is designed to provide students with a broad knowledge base of drug therapy. Emphasis is placed on preparing students to safely administer medications to patients (in other clinical courses). Basic pharmacological concepts provide students with essential information related to principles of pharmacology, clinical applications, and biopsychosocial aspects. Lifespan considerations are included within the essential information. Students also focus on major drug categories and a review of body systems. There is not a clinical component for this course. Prerequisite(s): BIOL-130, BIOL-131

Course Objectives
At the completion of this course, the student will be able to integrate pathophysiological principles of pharmacology and the assessment findings to formulate a patient impression and implement a pharmacologic management plan

After successfully completing the course, the student will be able to:

1. Explain the interdisciplinary nature of pharmacology.
2. Identify the difference between drugs, biologics, herbals, natural alternatives, dietary supplements, prescription, and over the counter drugs.
3. Explain the varying routes of drug administration and the effect of the 6 rights of drug administration on patient safety.
4. List the sources of drug products and how drugs are classified.
5. List and understand the legislative acts controlling drug use and abuse in the United States.
6. Discuss investigational drugs, including the Food and Drug Administration (FDA) approval process and the FDA classifications for newly appointed drugs.
7. List and differentiate the phases of drug activity, including the pharmaceutical, pharmacokinetic, and pharmacodynamic phases.
8. Identify how categories of drugs are processed, used and eliminated from the body.
10. Identify drugs associated with treatment of specific mental or physical disorders; understanding the mechanisms of action and important adverse effects.

**Topical Outline of Instruction**

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Readings</th>
<th>Assignments</th>
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<tr>
<td>1/16</td>
<td><strong>HOLIDAY</strong></td>
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<tr>
<td>1/23</td>
<td>Pharmacology Introduction</td>
<td>Ch 1,2,3,4</td>
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<tr>
<td>1/30</td>
<td>Continued Introduction</td>
<td>Ch 6,7</td>
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<tr>
<td>2/6</td>
<td>The Nervous System</td>
<td>Ch 8, 9,10</td>
<td>Unit 1 Exam</td>
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<tr>
<td>2/13</td>
<td>The Nervous System</td>
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<tr>
<td>2/20</td>
<td><strong>HOLIDAY</strong></td>
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<tr>
<td>2/27</td>
<td>The Nervous System</td>
<td>Ch 14, 15</td>
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<td>3/6</td>
<td>The Cardiovascular System</td>
<td>Ch 16, 17</td>
<td>Unit 2 Exam</td>
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<td>3/13</td>
<td><strong>Spring Break</strong></td>
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<tr>
<td>3/20</td>
<td>Student Presentation Research &amp; start of cardiovascular</td>
<td>Project Research &amp; Ch 18,19,20</td>
<td>Research</td>
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<tr>
<td>3/27</td>
<td>The Cardiovascular System</td>
<td>Ch 18,19,20</td>
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<tr>
<td>4/3</td>
<td>The Cardiovascular System</td>
<td>Ch 21,22,23</td>
<td>Unit 3 Exam</td>
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<tr>
<td>4/10</td>
<td>The Immune System</td>
<td>Ch 24,25,26</td>
<td>Draft Paragraph describing project DUE. Blackboard Submission.</td>
</tr>
<tr>
<td>4/17</td>
<td><strong>HOLIDAY</strong></td>
<td></td>
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<tr>
<td>4/24</td>
<td>The Immune System</td>
<td>Ch 27,28,29</td>
<td>Unit 4 &amp; 5 Exam</td>
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<td>5/1</td>
<td>The Reproductive &amp; Digestive System</td>
<td>Ch 30,31,32,33</td>
<td>Research paper OR presentations DUE</td>
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<tr>
<td>5/8</td>
<td>The Skeletal System, Integumentary System &amp; FINALS</td>
<td>Ch 34,35,36,37</td>
<td>Unit 6 &amp; 7 Exam</td>
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Course Requirements

Quizzes
Each week there will be an in class quiz. Quizzes will be administered at the start of class.
Weekly quizzes will cover material from the prior week. Quizzes will cover both reading material
and lecture material

Exams
There will be seven (7) sectional exams which correspond with the units in the primary textbook.
All exams will be in Blackboard. During exam weeks, exams will be opened in Blackboard on
Wednesday and remain open until the following Wednesday. Students are expected to complete
these exams during the period they are open. You may take exams at home or in SMCC’s
computer labs. DO NOT complete exams via mobile devices through Blackboard.

Research
To further your understanding of pharmacology, each student will complete a 2-page paper in
APA format OR a 5-minute presentation for their peers. This project will look at a medication
you are interested in and how it ties to a disease process. The intention of this assignment is to
deepen you understanding of pharmacology and to have fun. During Week 10 you will submit a
paragraph covering your project, topic, and how you will present the material.
If you select a research paper, this will be due during Week 15 and 16. If you select a
presentation, you will do a 5-minute presentation in class during week 14, 15, or 16.

SMCC E-Mail & Communications
Students are REQUIRED to use their SMCC provided e-mail account for this course. ALL
communications with the instructors will be through the SMCC address. The student will
contact the help desk for assistance with e-mail access.

How to succeed
1. The student is expected to be prepared for the class session by completing all assigned
reading and work assignments for the day. Keep up with the weekly assigned readings.
This course proceeds at a fast pace. If you get behind, it can be a lot of work to keep up.
2. The student is expected to attend all class sessions and be on time. The student will
manage their absences, to facilitate their needs. You can’t learn if you are not here.
3. The student will make up all missed work on their own time.
4. Ask questions in class. If you don’t understand something, chances are that others don’t understand it either. If you need extra help, ask us.

5. You are entering the healthcare profession and professional behavior is expected at all times. Students with inappropriate behavior will be asked to leave class for the day. Repeated incidents may result in dismissal from class. The student is expected to be respectful of fellow class members, the instructors and the college.

Student Evaluation and Grading

20% Student Presentation / Paper
30% Weekly quizzes
50% Written exams

Text, Tools and / or Supplies


Attendance Policy

Snow days & school closings are announced on local radio and television stations and the school website www.smccme.edu. SMCC announces its own closures and it should not be assumed that if local schools are closed that SMCC is closed.

A student that arrives after the scheduled start time of the class is late. A student that leaves class early will also be marked tardy. An absence will be assigned for accumulation of two late attendances and/or leaving class early and apply towards the attendance policy.

The instructors are under no obligation to provide any make up assistance for students that miss a class. The student will be required to learn and perform any skills that they have missed due to tardiness or absence.

End-of-Course Evaluation

Students complete evaluations for each course attended at SMCC. Evaluations are submitted online and can be accessed through the student portal. Students can access the course evaluations beginning one week before the end of classes. The deadline for submission of evaluations occurs Monday at 5 p.m. following the last day of the class. You will receive an e-mail to your student e-mail account when course evaluations are available.
ADA Syllabus Statement
Southern Maine Community College is an equal opportunity/affirmative action institution and employer. For more information, please call (207) 741-5798. If you have a disabling condition and wish to request accommodations in order to have reasonable access to the programs and services offered by SMCC, you must register with the Disability Services Coordinator, Sandra Lynham, who can be reached at 741-5923. Further information about services for students with disabilities and the accommodation process is available upon request at this number. Course policies about online testing are modified to suit each individual’s accommodations.

SMCC Pay-for-Print Policy
Each semester students receive a $20 printing credit. The balance resets at the end of the semester and any remaining credits are removed. The College’s pay-for-print system monitors printing on all printers (including those in general access labs, library printers, Tutoring Services, Campus Center Lounge and technology labs). Be sure to log OUT of the system when you’ve finished your printing, to prevent unauthorized access to your account. Students can check the number of pages they have printed by using the Printing Balance tool available on SMCC computers (located in the lower right corner of the screen, near the clock). Departments with work study students who need to print documents for the department should contact the Help Desk at 741-5696 to have a special account set up. To find ways to reduce your printing charges, please go to the IT Help tab on My SMCC. If you have questions about the pay-for-printing policy or your printing charges, please contact the Help Desk at 741-5696 or send an e-mail to helpdesk@smccme.edu.

Refunds
Print jobs are eligible for a refund in the event of mechanical or electronic error on the part of the printer, print server, or software used to submit the job. Jobs are not eligible for a refund in cases where the job was not set up correctly, was submitted multiple times, or the student is not satisfied with the result. To request a refund, please bring the offending print to the IT Department in the basement of the Ross Technology Center. Refunds will be granted in the form of a credit to the student’s account.

Add-Drop Policy
Students who drop a course during the one-week “add/drop” period in the fall and spring semesters and the first three days of summer sessions receive a 100% refund of the tuition and associated fees for that course. Please note any course that meets for less than the traditional semester length, i.e., 15 weeks, has a pro-rated add/drop period. There is no refund for non-attendance.
Withdrawal Policy
A student may withdraw from a course only during the semester in which s/he is registered for that course. The withdrawal period is the second through twelfth week of the Fall and Spring semesters and the second through ninth week of twelve-week Summer courses. This period is pro-rated for shorter-length courses (usually 75 percent of course meeting times; please check with the Registration Office. To withdraw from a course, a student must complete and submit the appropriate course withdrawal form, available at the Registration Office. This process must be completed either in person or by using SMCC e-mail accounts.

Plagiarism Statement
If an instructor suspects that a student has knowingly committed a violation defined in the Maine Community College System Policy on Student Grade Appeals and Academic Misconduct, the instructor has the authority to review the alleged misconduct and determine the grade that the student should receive for the assignment and the course. The instructor may assign a failing grade for the assignment or course and may require the student to complete additional work for the course. The instructor may consult with the department chair and/or the College’s chief academic officer prior to making such decisions. If a student seeks to challenge an instructor’s determination, the student should submit a grade appeal. Grade appeal forms are available in the Advising Office on the South Portland Campus or in the administrative offices in the Learning Commons on the Midcoast Campus. An instructor may also refer the matter to the College’s disciplinary officer for review under the procedures of the MCCS Student Code of Conduct.