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Spring 2-1-2007

### BMED 362.01: Pharmaceutical Sciences Laboratory

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**Instructors:** Todd Cochran (Coordinator), Howard Beall, John Gerdes, Kevan Roberts, Jerry Smith

**Co-requisites:** BMED 331 Pharmaceutics; BMED 342 Physiological Systems

**Time & Place:** One 2 to 3 hour laboratory per week; T, Th 1:10-4 pm; W 2:10-5 pm SB 230

**Materials:** Laboratory Manual and Handouts

**References:** *Pharmaceutical Calculations*, Stoklosa & Ansel  
*Pharmaceutical Dosage Forms*, Ansel, Popovich & Allen  
*United States Pharmacopeia/National Formulary (USP/NF)*  
*Remington: The Science and Practice of Pharmacy*

**Organization:**

The laboratory parallels the coverage of material in the pharmaceutical sciences courses.

**Course Objectives:**

1. To demonstrate principles of pharmaceutics, medicinal chemistry, and physiology.
2. To provide experience in the techniques used in compounding of pharmaceuticals, in problem solving and critical thinking in the laboratory setting, and in written professional communication.

**Grading:**

Each laboratory session is worth approximately 10 points for a total of 120 points for the semester. Graded assignments will be in the form of quizzes, lab reports, and compounded preparations.

*Laboratory attendance is mandatory.*

Students who do not attend a lab session will receive zero points for that session.

There will be a 10 point laboratory final exam, comprehensive over the pharmaceutics labs.

Approximate Grading Scale: A - = 92%, B - = 85%, C - = 75%, D = 67%

**Laboratory Schedule:**

<u>Lab</u>	<u>Date</u>	<u>Instructor</u>	<u>Topic</u>
	<i>Jan 23-25</i>	<i>No Laboratory</i>	
<b>1</b>	Jan 30-Feb 1	Cochran	Check-in, Prescription Balance
<b>2</b>	Feb 6-8	Beall, Gerdes	Acids, Bases, Buffers
<b>3</b>	Feb 13-15	Beall, Gerdes	Solubility, Partition Coefficient
	<i>Feb 20-22</i>	<i>No Laboratory</i>	
<b>4</b>	Feb 27-Mar 1	Cochran	Aliquot Method
<b>5</b>	Mar 6-8	Cochran	Pharmaceutical Solutions
<b>6</b>	Mar 13-15	Smith	Blood Glucose and Lipids
<b>7</b>	Mar 20-22	Cochran	Capsules; Dissolution
	<i>Mar 27-29</i>	<i>Spring Break</i>	
<b>8</b>	Apr 3-5	Beall	Suspensions & Emulsions
<b>9</b>	Apr 10-12	Beall	Ointments 1 - Preparation of bases
<b>10</b>	Apr 17-19	Cochran	Ointments 2 - Incorporation of drugs
<b>11</b>	Apr 24-26	Cochran	Suppositories; Check-out
<b>12</b>	May 1 -3	Roberts	Immunology
	<i>May 10</i>		<i>Lab final, with BMED 331 final</i>