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Spring 2-1-2008

### BMED 362.01: Pharmaceutical Sciences Laboratory

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**BMED 362 – Pharmaceutical Sciences Laboratory****Spring 2008****Instructors:** Howard Beall, (Course Coordinator), Jean Pfau, Sandra Wells, Mark Pershouse, Chuck Thompson, John Gerdes, Erica Woodahl, Nick Natale, Kevan Roberts**Co-requisites:** BMED 331; BMED 328; BMED 342**Time & Place:** One 2-3 hour laboratory per week; T, W, Th, 1:10-4 pm; SB 230**Materials:** *Laboratory Handouts***References:** *Pharmaceutical Calculations*, Stoklosa & Ansel  
*Pharmaceutical Dosage Forms and Drug Delivery Systems*, Allen, Popovich & Ansel  
*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, microbiology and immunology.
2. To provide experience in techniques used in the compounding of pharmaceuticals and in problem solving and critical thinking in the laboratory setting.

**Grading:**

Each laboratory session is worth 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.**Laboratory Schedule:**

<b><u>Lab</u></b>	<b><u>Date</u></b>	<b><u>Instructor</u></b>	<b><u>Topic</u></b>
<b>1</b>	22-24 Jan	J. Pfau, S. Wells	Microbiology I
<b>2</b>	29-31 Jan	J. Pfau, S. Wells	Microbiology II
<b>3</b>	5-7 Feb	H. Beall, M. Pershouse	Check-in, Weights, Measures
<b>4</b>	12-14 Feb	C. Thompson	Acids, Bases, Buffers
<b>5</b>	19-21 Feb	J. Gerdes	Solubility, Partition Coefficient
<b>6</b>	26-28 Feb	M. Pershouse	Aliquot Method
<b>7</b>	4-6 Mar	E. Woodahl	Pharmaceutical Solutions
<b>8</b>	11-13 Mar	N. Natale	Capsules, Powders, Dissolution
	18-20 Mar	<i>No Lab</i>	
	<b>25-27 Mar</b>	<b>Spring Break</b>	
<b>9</b>	1-3 Apr	H. Beall	Suspensions, Emulsions
<b>10</b>	8-10 Apr	H. Beall	Ointments
<b>11</b>	15-17 Apr	H. Beall	Suppositories, Check-out
<b>12</b>	22-24 Apr	K. Roberts	Immunology