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Fall 9-1-2007

### BMED 361.02: Pharmaceutical Sciences Laboratory

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**Instructor**

Richard J. Bridges, Doug Coffin, Diana Lurie, Darrell Jackson, Elizabeth A. Putnam, Mark Pershouse, Jerry R. Smith, Keith Parker, and Katie George

**BMED 361**  
**Pharmaceutical Sciences Laboratory**  
**Autumn, 2007**

**Laboratories:** Tuesdays at 8:10-10:00 A.M./1:10-3:00 P.M.  
Thursdays at 8:10-10:00 A.M./1:10-3:00 P.M.

<b>Instructors</b>	<b>Room</b>	<b>e-mail</b> (* - umontana.edu)	<b>Phone #</b> (Office)
Rich Bridges	SB 390A	richard.bridges@*	x4972
Doug Coffin	SB 160	douglas.coffin@*	x4723
Diana Lurie	SB 304	diana.lurie@*	x2103
Darrell Jackson	SB 394	darrell.jackson@*	x5761
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Mark Pershouse	SB 281	mark.pershouse@*	x4769
Jerry Smith	SB 077	jerry.smith@*	x5788
Keith Parker	SB 271	keith.parker@*	x4235
Katie George	SB 481	kathleen.george@*	x5876

**Format:** 1 credit: one 2- hour lab per week.

Four sections of approximately 16 students each week.

**Materials:** Student handouts, Online materials, Atlases, etc.

Required : **A.D.A.M. Interactive Anatomy 4 Student Lab Guide,**  
**3<sup>rd</sup>. Edition**

**Organization:** The laboratory parallels the coverage of material in various biomedical and pharmaceutical science courses in the required professional pharmacy curriculum.

**Course Objectives:**

1. To provide instruction in anatomy through the use of computers and hands-on dissections
2. To provide instruction in physiology through the use of computer simulation models and in vivo laboratory techniques.
3. To provide experience in problem solving and critical thinking in the laboratory setting.

**Grading:**

1. Each laboratory is worth 10 points for a total of 130 points for the semester.
2. Grading for each lab will be by attendance verification plus any instructor specific evaluation tool(s) such as lab reports or data compilations.
3. The following grades can be earned by achieving the corresponding minimal percentage points as follows:

**A---90%      C---70%**  
**B---80%      D---65%**

4. **ATTENDANCE IS MANDATORY!** Students who have not attended a lab and have not turned in a lab report (when required) will not be given credit for that lab. A missed, unexcused lab will lower the course grade by one letter grade. Students should attend that lab section assigned; lab swapping is permitted on a very limited basis with instructor approval.

### Autumn Semester (2007) Lab Schedule

<u>Date</u>	<u>Instructors</u>	<u>Topic</u>	<u>Student Lab Guide (Chapters, Pages)</u>
<u>Week 1</u> 8- 28,30	Putnam Coffin	A.D.A.M. I Skeletal & Muscular Systems	Intro ( xi-xxii), Chapters 1 & 2 (1-60)
<u>Week 2</u>	Coffin	Cytology/Histology	Microscopic Viewings
<u>Week 3</u> 9/ 11,13	Putnam George	A.D.A.M. II CNS & Special Senses	Chapter 3 to p.79, Chapter 4
<u>Week 4</u> 9/18,20	Putnam Smith	A.D.A.M. III Vasculature & Lymphatics	Chapter 6 p. 119-138, Chapter 7
<u>Week 5</u> 9/ 25, 27	Jackson	Sheep Brain Dissection	Hands-On Dissection
<u>Week 6</u>	Lurie	Sensory Function	Hands-On Evaluations
10/ 2,4 <u>Week7</u> 10/9,11	Putnam Coffin Lurie	A.D.A.M. IV Autonomic N.S., Endocrine & Reproductive Systems	Chapter 3 (p.79-88) Chapters 5 & 11
<u>Week 8</u> 10/16,18	Putnam Pershouse Smith	A.D.A.M. V Respiratory, Digestive, & Urinary Systems	Chapters 8, 9, and 10
<u>Week 9</u> 10/23,25	Coffin	A.D.A.M. VI (Heart) Pig Heart Dissection	Chapter 6 to p. 118
<u>Week 10</u> 10-30 11-1	Parker Bridges	ECG. EMG, EEG	BioPac Computer Measurements
<u>Week 11</u> 11/6,8	Smith	Risk Assessment	Hands-On Measurements
<u>Week 12</u> 11/13,15	Smith	Blood Analysis	Hands-On Measurements
<u>Week 13</u> 11/21, 23	No Labs	Thanksgiving Break	
<u>Week 14</u> 11/27,29	Pershouse	Respiratory Function Volumes & Capacities	BioPac Computer Measurements