

# BIOL 356: Human Anatomy and Physiology I

## Course Syllabus

**Instructors:** Dr. Daniel Selski

338F Science

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Hours: M & W noon-1 / Tu & Th 10-11

Dr. Jason Irwin

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Hours: M 1-2, Tu 9-10, Th 10-11, or drop in

**Text:** Seeley et al., Essentials of Anatomy & Physiology, 6<sup>th</sup> ed., McGraw-Hill.

### Course objectives:

BIOL 356 is the second of a two-course sequence (with BIOL 355) that introduces students to human anatomy and physiology. Our approach is systematic and emphasizes the interrelationships of body organ systems and the complementary nature of structure and function. Extensive laboratory exercises, including dissection of preserved specimens and exercises with live animals reinforce the concepts covered in the lecture portion of the course. This course is co-taught by two instructors: Dr. Selski, an anatomist, and Dr. Irwin, a physiologist.

### Use of live animals:

The laboratory exercises this quarter will include experimental procedures on live animals (frogs). It is the responsibility of both the instructors and the students to ensure that these living beings are treated with respect and to minimize their suffering. Other exercises will involve non-invasive measurements taken on human subjects (you and your class-mates). No student will be forced to participate in a procedure they find distasteful.

### Grading:

There will be two lecture exams and three laboratory practical exams. These exams will not be, strictly speaking, cumulative. However, there will be considerable overlap in the material covered and you will need to apply knowledge learned earlier in the course to answer questions on later exams.

#### Grade distribution:

##### Lecture

Exam I: 25%

Exam II: 30%

**Total: 55%**

##### Laboratory

Laboratory Practical I: 15%

Laboratory Practical II: 15%

Laboratory Practical III: 10%

Laboratory Participation 5%

**45% = 100%**

Letter grades will be assigned according to the percent grade calculated by the evaluation scheme above. The tentative conversion is:

A = ≥93%	B+ = 86-88%	C+ = 77-79%	D+ = 67-69%
A- = 89-92%	B = 83-85%	C = 74-76%	D = 60-66%
	B- = 80-82%	C- = 70-73%	F = ≤59%

### Course policies:

1. If you miss a class, it is your responsibility to contact a class-mate to obtain the lecture notes. The PowerPoint lectures (available after class on Blackboard) are only outlines, not detailed class notes.
2. Make-up exams will be allowed only if arranged in advance, in cases of illness (documented with a doctor's note specifically stating that you were ill during the period of the exam), or other emergency as outlined in the University Catalog. Exams missed without a legitimate reason (as dictated by university policy) will be given a grade of zero.
3. Make-up laboratory practical exams will not be given.
4. There are no opportunities to earn extra credit.
5. Students requiring any special needs are encouraged to discuss issues with the instructor and/or with Disability Support Services (509) 963-2171.

### A final note:

We believe that the material covered by this course is inherently interesting, especially given that we all inhabit the body we will study so intensively. We hope that this course will help you will develop a new appreciation for the human body and to apply this knowledge throughout your personal and professional lives.

**Biol 356: Human Anatomy & Physiology II, Winter 2007**  
**Tentative lecture and laboratory schedule:**

Date	Lecture topic	Instr.
Jan. 3 W	Blood review	DS
5 F	Heart anatomy	DS
8 M	Heart anatomy	DS
10 W	Heart physiology	Jl
12 F	Heart physiology	Jl
15 M	<b>Martin Luther King Jr. Holiday</b>	
17 W	Circulatory system anatomy	DS
19 F	Blood pressure regulation	Jl
22 M	Lymphatic system structure/function	Jl
24 W	Lymphatic system - Immunity	DS
26 F	Lymphatic system - Immunity	DS
29 M	Respiratory system anatomy	DS
31 W	Respiratory system physiology	Jl
Feb. 2 F	Respiratory system physiology	Jl
5 M	Digestive system anatomy	DS
7 W	Digestive system physiology	Jl
9 F	Digestive system physiology	Jl
12 M	Nutrition	Jl
14 W	Metabolism	Jl
16 F	Urinary system anatomy	DS
19 M	<b>Presidents Day Holiday</b>	
21 W	Urinary system physiology	Jl
23 F	Urinary system physiology	Jl
26 M	Reproductive anatomy	DS
28 W	Reproductive anatomy	DS
Mar. 2 F	Reproductive physiology	Jl
5 M	Reproductive physiology	Jl
7 W	Development	Jl
9 F	Catch-up/Review	
<b>Mar.13 T</b>	<b>Final Exam, 8:00am – 10:00am</b>	

Date	Laboratory topic*	Instr.
Jan. 4	bye	
9	Heart Anatomy I	DS
11	Heart II ( & Circ. Anatomy)	DS
16	Heart physiology	Jl
18	Circulatory Anatomy Intro	DS
23	Blood pressure lab	Jl
25	<b>Lab Practical I</b>	
30	Blood Typing & Counting	Jl
Feb. 1	Lung volumes lab	Jl
6	Respiratory & Digestive Anatomy	DS
8	<b>Lecture Exam I</b>	
13	Circulatory Anatomy II	DS
15	Circulatory Anatomy III	DS
20	<b>Lab Practical II</b>	DS
22	Urinary system anatomy	DS
27	Urine composition lab	Jl
Mar. 1	Reproductive anatomy	DS
6	Repr./Pregnant anatomy	DS
8	<b>Lab Practical III</b>	

\*Laboratory sections taught by Dr. Selski will be held in room 326 and those by Dr. Irwin in room 228 unless other instructions are given.