

## Course Syllabus for HSS 307: Human Physiology, Fall 2009

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- I. **Course Number:** HSS 307
- II. **Course Title:** Human Physiology
- III. **Terms Offered:** Fall and Winter
- IV. **Catalogue Description:** A survey of the functions of body systems with respect to general cell physiology and specialization into tissues, structural contributions to tissue/organ physiology, pertinent concepts of biochemical physiology, tissue metabolism and energy/food requirements during stress and exercise, recent research into control and regulation of functions of major systems, physiologic limitations outside environmental ranges, and selected examples of pathophysiology.
- V. **Academic Credit:** 3 CH
- VI. **Prerequisites (Specific courses or requirements; indicate recommended or required):** CHM 123 AND CHM 124 recommended
- VII. **Course Goals:** Students will fulfill two of the School of Education and Allied Professions key student outcomes: Scholarly Practitioner and Reflective Practice. Students who successfully complete the course will be able to:
- Understand the interrelationships between the major systems of the human body.
  - Think critically and reflectively the effects of extreme stimuli on maintaining proper homeostatic functions.
  - “Learn how to learn” when considering questions of human physiology
  - Apply the concepts learned to clinical situations.
- VIII. **Teaching Methods:** Due to the large class size, HSS 307 will be primarily a lecture course.
- IX. **Instructional technology that will be integrated into the course:** Computer projection with internet as the primary presentation medium.
- X. **Student Evaluation Criteria:**
- |              |               |                   |
|--------------|---------------|-------------------|
| Quizzes      | 5@50 pts ea   | = 250 pts         |
| Exams        | 3 @150 pts ea | = 450 pts         |
| Final Exam   | 1 @ 300 pts   | = 300 pts         |
| <b>Total</b> |               | <b>= 1000 pts</b> |
- Grading Scale: 93%:A / 90%:A- / 87%:B+ / 83%:B / 80%:B- / 77%:C+ / 73%:C, 70%:C- / 60%:D
- XI. **Field-Based Experiences:** none
- XII. **Text (Required):** Principles of Human Physiology (3<sup>rd</sup> Ed). By Stanfield and Germann. San Francisco: Benjamin Cummings. 2008.
- XIII. **Disability Statement:** To request academic accommodations due to a disability, please contact the office of Professional Support Services in the Department of Learning Enhancement and Academic Development (LEAD) (937) 229-3684. If you have a self-identification form from the Professional Support Services indicating that you have a disability, which requires accommodation, please present it to me so we can discuss the accommodations you might need in the class.

**XIV. Course Topics/Schedule**

<b>DATE</b>	<b>EVENT</b>	<b>READING/STUDY ASSIGNMENT</b>	<b>COMMENTS</b>
Th 8/27	Course Intro	Ch. 1, pp. 1-20	
T 9/1	Neurons	Ch. 7, pp. 166-179	
Th 9/3	Neurons	Ch. 7, pp. 180-195	
T 9/8	Neural Integration	Ch. 8, pp. 196-207	
Th 9/10	CNS	Ch. 9, pp. 215-225	<b>QUIZ 1, 50 PTS</b>
T 9/15	CNS	Ch. 9, pp. 226-238	
Th 9/17	CNS	Ch.9, pp. 239-251	
T 9/22	Sensory	Ch. 10, pp. 252-264	
Th 9/24	Sensory	Ch. 10, pp. 266-283	<b>QUIZ 2, 50 PTS</b>
T 9/29	Sensory	Ch. 10, pp. 283-301	
Th 10/1	<b>EXAM 1</b>	<b>CH. 1, 7-11</b>	<b>150 PTS</b>
Th 10/1	Westcott Lecture		6-7:30pm, Chudd Auditorium
T 10/6	Muscle	Ch. 12, pp. 322-340	
T 10/13	Muscle	Ch. 12, pp. 341-359	
Th 10/15	Cardiovascular	Ch. 13, pp. 360-383	
T 10/20	Cardiovascular	Ch. 13, pp. 384-394	<b>QUIZ 3, 50 PTS</b>
Th 10/22	Cardiovascular	Ch. 14, pp. 395-409	
T 10/27	Cardiovascular	Ch. 14, pp. 410-421	
Th 10/29	Respiratory	Ch. 16, pp. 453-476	<b>QUIZ 4, 50 PTS</b>
T 11/3	Respiratory	Ch. 17, pp. 477-494	
Th 11/5	<b>EXAM 2</b>	<b>CH. 12-17</b>	<b>150 PTS</b>
T 11/10	Endocrine	Ch. 6, pp. 148-165	
Th 11/12	Endocrine	Ch. 21, pp. 605-629	
T 11/17	Urinary	Ch. 18, pp. 509-527	
Th 11/19	Urinary	Ch. 19, pp. 536-547	<b>QUIZ 5, 50 PTS</b>
T 11/24	No Class	Comp time Westcott Lect	
T 12/1	Gastrointestinal	Ch. 20, pp. 569-581	
<b>Th 12/3</b>	<b>EXAM 3</b>	<b>CH. 6, 18-21</b>	<b>150 PTS</b>
Th 12/10	Final Exam Review		
W 12/16 12:20- 2:10pm	<b>FINAL EXAM</b>	<b>12:20-2:10 PM</b>	<b>300 PTS COMPREHENSIVE</b>

**Date of Syllabus Development or Revision:** Sept 8, 2009