



BIOL 505 Problems in Biological Instruction: Advances in Anatomy and Physiology

(2 Credit)

Human Anatomy and Physiology Society (HAPS)- Institute
Course Syllabus Rev. Jan. 2010

Faculty

Supervising faculty: Kevin Patton, Ph.D.

Course designer/moderator: Ellen Arnestad (arnestad.hapsi@gmail.com)

Faculty of Record: Mary Pat Wenderoth, Ph.D.

Guest lecturers:

- TBA
- TBA
- TBA
- TBA
- TBA
- TBA

Course Description

Active participation in exploring and using today's latest research information is vital to creating a dynamic classroom atmosphere. This course will expand your own understanding of anatomy and physiology topics and how we can incorporate this material into fun and exciting new lessons for your class. We will pursue these activities through presentations, discussion and reflection on current literature, then create, and peer review complete learning objects/activities for upload to the HAPS-BEN learning objects repository. You will complete the course being able to confidently design and implement learning activities for a college A&P course using new research and information in various topics. This is a graduate level biology course with a final grade of credit/no credit.

Learning Objectives

Upon successful completion of this course, you will be able to:

- ❖ Identify and explain new and relevant concepts discovered in the HAPS conference update seminars (see topics below).

- ❖ Identify and describe teaching techniques or learning activities (online or face-to-face) that have been helpful in your own personal educational practice.
- ❖ Identify new teaching techniques or learning activities (online or face-to-face) through discussions with course peers.
- ❖ Describe how new concepts can be applied in the classroom to increase interest and understanding.
- ❖ Demonstrate lesson design skills and describe how you plan to assess the outcomes of using new techniques or learning activities.
- ❖ Perform and receive peer reviews of created A&P learning activities.
- ❖ Contribute to an online repository of teaching techniques and learning activities for instructors and professors of undergraduate A&P.

Topics

This course is based on the Update Seminars at the Annual Conference of the Human Anatomy and Physiology Society (this year in Denver, May 29 - June 3). Scheduled topics for this year's course include:

- ❖ TBA
- ❖ TBA
- ❖ TBA
- ❖ TBA
- ❖ TBA
- ❖ TBA

There will be pre-readings (articles on the topics by the presenters) for these presentations available on the Pierce-Angel website by April 15th. You will be expected to have read these articles before attending the conference.

(See also detailed topics below)

Course Outline and Brief Schedule

This course is a combination of face-to-face and online collaborative learning. Attendance at sessions and lectures is required, as well as participation in online activities. Expect at least 16 hours of course activities per course credit hour.

- ❖ April 15 - May 29 Log onto Pierce College Angel web site and find materials for course readings available
- ❖ April 15 - Aug. 15 Angel site open

- ❖ May 29 - May 31 Attend orientation and update seminars at HAPS Conference (on site; see detailed schedule below)
- ❖ June 2 Attend workshop session discussion
- ❖ June 4 - July 4 Weekly reflection questions and posting of teaching techniques and resources assignment (due July 4, 2010)
- ❖ July 4 - July 18 Reflection questions and designing of final projects (Assignment II first draft due July 18)
- ❖ July 18 - July 31 Peer review of group members final projects (Assignment III due July 31)
- ❖ Aug. 1 - Aug. 8 Revisions of final projects (Final draft due Aug. 8)
- ❖ Aug. 8 - Aug. 14 Evaluation of final projects and posting of projects to HAPS.org Learning Object Repository

Course Evaluation

There are five assignments and/or class participation requirements. We would like you to e-mail all assignments to the course moderator (Ellen) by the due date. As well, some assignments will be posted on the Angel site. The grading points are all included in the description and you need a total of 80 points to pass for course credit. If you have any questions or concerns (especially getting assignments done during personal holidays), please contact the course moderator at arnestad.hapsi@gmail.com

Class Participation

First - Update seminar review: Attend the workshop “Advances in A&P Discussion Seminar” during the session II workshops on Tuesday in Denver. Here we will discuss the update seminars to help to solidify some of the concepts presented and talk about how we might use the information to create a project.

Second - Online participation in discussion questions. This participation will be critical in order to create and maintain a learning community through the duration of the course. There will be a discussion question posted each week after the conference for seven weeks. You should be prepared to post meaningful contributions, to read your colleagues’ postings and to respond in kind. Online discussions are based on the course content as outlined in this syllabus. For full credit, you should expect to post for most (70%) reflection questions, answer all questions posed to you by members of your peer group and pose at least a couple of questions or comments to your peer group’s postings per week. Online participation is graded out of 20 points.

Assignment I

Teaching activity: Participants will describe a teaching technique, tool or activity that has worked well for them in the past. This can be an activity that has been used in an online or face-to-face classroom setting. The purpose of this assignment is to share resources that have been meaningful to you in your practice as an instructor. There will be an online section dedicated to these teaching activities; please post your assignment there. You are responsible for managing the dialogue generated by your posting. Teaching activities assignment is due June 26 and is out of 20 points.

Assignment II - Project

Design a class lesson or activity utilizing the new information from one of the update seminars and any of the new ideas you have received from your colleagues in the teaching activity assignment. There are also a number of ideas of types of projects in the on-line orientation presentation. This assignment will give you an opportunity to reflect on the course content and how you would apply it in your educational practice. The assignment will articulate your personal understanding of the material and how you could use it to design and implement a lesson in your class. The paper should be specific, clear and concise. It should draw on your self-awareness, experience, reflections and the shared dialogue during the course. All references must be properly cited. The paper should be no longer than four to eight pages (not including title and reference page), single spaced, and Times New Roman 12pt. font. Please have your name, date, course and title clearly indicated. First draft of this assignment is due July 18 and final draft is due August 8 (project is out of 40 points).

Assignment III

You are required to give a peer review for the projects of three of your classmates. This will include constructive criticism as described at the orientation session and in the peer review document. It also includes how you deal with the peer reviews done for you on your own project. You should use the advice that has been given to you as that - advice to used as appropriate for your project. However, as part of the assignment, you should address all the reviewers' comments and how you incorporated them (or why you did not). Peer reviews should be done for 3 other people by July 31st so that they have a chance to make relevant changes (is out of 20 points).

Course Materials

Required pre-reading article list will be available to students after registration.

Detailed Schedule of Conference Days

All sessions are at *The Denver Hyatt Regency Hotel / HAPS 2010 Conference* except workshop “*Advances in A&P Discussion Seminar*” on Tuesday at Arapahoe Community College.

Saturday, May 29, 2010

3:00 p.m. – 5:00 p.m. **Course Orientation**
HAPS-Institute staff

Sunday, May 30, 2010

Update Seminars

Monday, May 31, 2010

Update Seminars

Tuesday, June 1, 2010

“Advances in A&P Discussion Seminar”

Ellen Arnestad

Dr. Kevin Patton

Detailed Topic Descriptions

TBA