

CURRICULUM VITAE

Amy E. Harwell

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EDUCATION

- 2001-2009 Department of Zoology, Oregon State University, Corvallis, OR.
Degree received: Ph.D. in Zoology
Doctoral Advisor: Dr. John Ruben
Dissertation title: New perspectives in archosaur biology
- 1998-2001 Department of Biology, University of Southern Maine, Portland, ME.
Degree received: B.S. in Biology (Magna Cum Laude), Minor in Biochemistry

EMPLOYMENT

- 2011-present NTT Assistant Professor of Biology, Division of Natural Sciences and Mathematics,
Western Oregon University, Monmouth, OR
- 2010-present Instructor, Department of Zoology/Ecampus, Oregon State University, Corvallis, OR
- 2010-2011 Biology 21x Course Coordinator/Instructor, Biology Program, Oregon State University,
Corvallis, OR
- 2009-2010 Dental Coordinator, Benton County Health Department/Boys & Girls Club of Corvallis,
Corvallis, OR
- 2001-2008 Graduate Teaching Assistant, Department of Zoology, Oregon State University, Corvallis,
OR

LECTURE TEACHING EXPERIENCE

Year	Course #	Course Title
2011-present	BI234/235/236	Human Anatomy & Physiology
2010-present	Z331/332/333	Human Anatomy & Physiology - Ecampus
2011	BI212	Principles of Biology*
2010	Z331/332/333	Human Anatomy & Physiology Development – Ecampus
2007-2008	Z331/332/333	Human Anatomy & Physiology*
2006-2007	Z331/332/333	Human Anatomy & Physiology**
2005-2006	Z331/332/333	Human Anatomy & Physiology**
2005	Z314	Dinosaur Biology*

In the above listed courses I prepared and delivered lectures, provided additional student instruction during small weekly “recitation” sessions (Z331/332/333), office hours, email, etc, determined and articulated course policies, learner expectations, course outcomes, etc., constructed and maintained course website using Blackboard or Moodle, including creating and administering on-line, for credit exercises, created and administered exams, calculated and assigned course grades, integrated with guest lecturers, lab TA’s and other faculty. (Courses marked with an * are courses that were team taught with one other instructor and courses marked with a ** are courses that were team taught with two other instructors).

LABORATORY TEACHING EXPERIENCE

Year	Course #	Course Title
	Z341	Human Anatomy & Physiology Laboratory*
2011-present	BI234L/235L/236L	Human Anatomy & Physiology Laboratory
2011-2012	BI101/102	General Biology
2004-2005	Z341/342	Human Anatomy & Physiology Laboratory
2003-2004	Z341/342	Human Anatomy & Physiology Laboratory
Summer 2002	Z342	Human Anatomy & Physiology Laboratory
2001-2002	Z341/342/342	Human Anatomy & Physiology Laboratory

In teaching the above laboratory courses curricular content was provided to me although I was responsible for independent preparation and delivery of pre-lab lectures, creating and administering lab practical exams, assigning course grades and integrated with lab TA's and faculty. *Course development. See "Other Experiences Related To Teaching" below for description.

CADAVER LABORATORY DISSECTION TEACHING EXPERIENCE

Year	Course #	Course Title
Su/07	Z451	Functional Anatomy of the Human Muscular System
Su/06	Z451	Functional Anatomy of the Human Muscular System
Su/05	Z451	Functional Anatomy of the Human Muscular System
Su/04	Z451	Functional Anatomy of the Human Muscular System
Su/03	Z451	Functional Anatomy of the Human Muscular System

Z451, Functional Anatomy of the Human Muscular System, is a lecture/lab course at Oregon State University that examines the gross anatomy of the human body using cadavers. In this course I was responsible for establishing course curriculum, determining and articulating course policies, learner expectations, course outcomes, etc., independent preparation and delivery of lectures, student instruction during lecture and practical lab time, creating and administering exams, assigning course grades and maintaining a good relationship with faculty/staff of the Body Donation Program at Oregon Health Sciences University, Portland, Oregon.

TEACHING LABORATORY COORDINATING POSITIONS

Year	Course #	Course Title
2010-2011	BI211/212/213	Course Coordinator: Principles of Biology
Sp/03	Z343/443	Lab Coordinator: Human Anatomy & Physiology
W/03	Z342/442	Lab Coordinator: Human Anatomy & Physiology
F/02	Z341/441	Lab Coordinator: Human Anatomy & Physiology

As the Principles of Biology Course Coordinator I managed GTAs, facilitated GTA lab prep meetings, introduced GTAs to course material, teaching techniques, and university support services. I provided training and support to GTAs and mentored newer GTAs. I maintained academic standards and uniformity across a large number of lab sections (22-25) including quality, content, grading, coordinated quizzes, lecture exam proctoring, student evaluations, and GTA office hours. I was responsible for managing laboratory supply inventory including regular supply inventory, ordering, maintenance and repair of equipment, preparation of lab supplies, set up, break down and research into new supplies and techniques. I hired and managed a small team of preparatory staff (5-7 undergraduate students) and was responsible for coordinating their HR needs, training, supervision, and project assignment. I was

also responsible for editing, revising and re-writing the lab manual as well as developing new labs and implementing new labs.

As the Human Anatomy & Physiology Lab Coordinator I managed (and sometimes recruited) TAs, managed TA Meetings, introduced TAs to course material, teaching techniques, provided academic support for newer instructors, maintained teaching standards and uniformity across many (10-20) lab sections including quality, content and grading, coordinated exams, lecture proctoring, evaluations, open labs, ordered, maintained and prepared lab supplies, set up and broke down labs for each week, maintained supplies and equipment, edited/revised lab manual, repaired broken equipment and provided technical support for problematic physiological equipment.

OTHER EXPERIENCES RELATED TO TEACHING

- 2011-2012 Hybrid Course Development Pilot Program (accepted into), Oregon State University, Center for Teaching and Learning. Participated in a Hybrid Faculty Learning Community: (30 hours) a peer interactive in-person and online environment to support learning about and discussing hybrid course development. This program was for the development of 341: Human Anatomy & Physiology Laboratory as a hybrid course to be offered fall 2012. Spring 2012.
- Learned innovative techniques and best practices for delivering hybrid course instruction, many of which could be applied to any course model.
 - Evaluated learning outcomes and aligned them with assessments.
 - Re-designed course to fit the hybrid course model, allocating the appropriate components to the online portion of the course while leaving the essential in-lab components to the in-lab course time.
 - I took on this project to enrich and advance my skills as an educator.
- 2011 Developing an Online Course (Online) Workshop - Faculty Training Course. Oregon State University Extended Campus, Fall 2011.
- Learned innovative techniques and best practices for delivering distance learning courses, some of which could be applied to any course model.
 - Designed assignments to allow students to explore difficult concepts in physiology in their own way with creative freedom.
 - Re-evaluated learning outcomes and aligned them with assessments.
 - I took this workshop to enrich and advance my skills as an educator.
- 2010-2011 Actively involved with and participated in AHE 507: Seminar in GTA Training & Development with Jessica White in support of the GTAs under my supervision as Course Coordinator of BI 21x.
- 2006 Are Your Students Learning? An Introduction To Classroom Assessment Workshop. Center For Teaching And Learning. Oregon State University
- 2005 Teaching Large Classes: Advice From The Trenches Workshop. Center For Teaching and Learning. Oregon State University.
- 2004-present While teaching Z331/332/333, and coordinating for BI 21x, I worked closely and collaboratively with the following Oregon State University departments to assist students, GTAs, the department, and the university:
- Information Services – John Greydanus, Don DiMillo, and staff
 - Teaching Across the Curriculum – Jon Dorbolo, Mark Dinsmore, and staff
 - Office of the Dean of Student Life

- Office of Student Conduct and Community Standards – Dan Schwab
 - Healthy Campus Initiative – Lisa Hoogesteger
 - Academic Success Center – Wayne Robertson, Dennis Bennett, Robin Pappas & Jessica White
 - COSINE – Andrew Wheeler, Tudy Seistrup, Michael Raucher, and Mark Cohen
 - Disability Access Services
 - Campus Security/State Police – Lt. Phil Zerzan
 - Counseling and Psychological Services (CAPS)
 - Oregon State University Bookstore – James Howard
 - Printing & Mailing
 - Athletics
- 2010-present Developed, implemented and actively teach distance learning courses for Z331/332/333 (Human Anatomy & Physiology) through Oregon State University's Ecampus Program in conjunction with the Zoology Department.
- 2001-2008 Attended the following seminars to develop skillful teaching methods:
- MB 699, Success in the College Classroom, Winter 2005
 - Center for Teaching & Learning:
 - Teaching Large Classes - Advice from the Trenches: October 12th, 2005, 3 pm - 5 pm, MU 213
 - Are Your Students Learning? – An Introduction to Classroom Assessment: June 2nd, 2006, 12 pm – 2 pm, MU 213
 - Geo 507, University Teaching Techniques Seminar, Fall 2004
 - Have also met personally with the director of The Center for Teaching & Learning, Peter Saunders, to discuss ways to improve teaching to a large class. Met several times in 2006.
- 2007 Invited to and attended: Anatomy & Physiology Digital Symposium by McGraw-Hill in Dubuque, IA, November 8th-10th.
- 3-day symposium designed to have a small group of A&P instructors brainstorm to find better, digital ways to improve the teaching of Human A&P.
- 2005-2008 Worked closely with representatives from Qwizdom, Inc. to work to improve the use of their classroom response system (clickers) with the equipment and unique situation of university teaching at Oregon State University.
- 2002 Dissected 2 cadavers to prepare them for the coming year's Human A&P labs. This involved returning the previous 2 cadavers to OHSU and picking up 2 new cadavers.
- 2003-2008 Various grading and lecturing duties for physiology courses (Z423 and Z315).

AWARDS AND SPECIAL RECOGNITION

- 2012 Professor of Excellence. Panhellenic Executive Council. National Panhellenic Conference. Oregon State University chapter.
- 2007 Nominated for and participated in Oregon State University's Army ROTC Faculty Appreciation black hawk helicopter ride and infantry maneuver demonstration.

UNIVERSITY AND DEPARTMENTAL SERVICE

- 2007 Active in the ORMED initiative to bring a first (and possibly second) year medical school program to Oregon State University. Met with OHSU faculty instrumental in this process while visiting Oregon State University. Also went to OHSU to participate in an ORMED progress meeting.
- 2004 Fundraising trip with Maya Abel of the OSU Foundation to raise funds for the renovations to the Oregon State University Human Anatomy & Physiology labs.
- 2004 Active in faculty search for the new Oregon State University Human Anatomy & Physiology instructor. Was present at all of the candidate's research and teaching talks. Also, met with each candidate along with other graduate students. Submitted recommendations to the search committee.
- 2004 Active in the renovation project of the Oregon State University's Human Anatomy & Physiology laboratories. Hosted many fundraising "show and tells" of the existing laboratory facilities along with the cadaver facilities. Provided input on the ideal equipment for the teaching laboratories and cadaver facilities. Active in the acquisition of new teaching microscopes and cameras for the Human Anatomy & Physiology Laboratories.
- 2003 Promotion and Tenure Graduate Student Committee, Department of Zoology, Oregon State University. Along with 2 other graduate students, reviewed information for three faculty members and wrote a letter to the Chair with recommendations.
- 2003 New Graduate Student Welcoming Committee, Oregon State University, Department of Zoology

PEER REVIEWED PUBLICATIONS

Ruben, J.A., Jones, T.D., Geist, N.R., Hillenius, W.J., **Harwell, A.E.**, and D.E. Quick. 2012. *Metabolic Physiology of Dinosaurs and Early Birds*. In: **The Complete Dinosaur**, J.O.Farlow and M.K.Brett-Surnam eds. Indiana University Press, Bloomington, IN.

PUBLICATIONS IN PREPARATION

Lung ventilation in Alligator: new evidence in support of diaphragm-aided breathing in theropod dinosaurs

The evolution of the avian endothermy

The pelvis of Archaeopteryx and the politics of dinosaur biology

PUBLISHED ABSTRACTS

Devon E. Quick, John A. Ruben, **Amy E. Harwell**. *Dinosaur Cardiovascular Dynamics and Heart Function*. **Journal of Morphology**. 268(12). 23 October, 2007.

Amy E. Harwell, Devon Van Leer, John A. Ruben, Terry D. Jones. *New evidence for diaphragm breathing in theropod dinosaurs*. **Journal of Vertebrate Paleontology**. 22 (3 Supplement). 19 September, 2002.

Devon Van Leer, **Amy Harwell**, John A. Ruben. *Abdominal visceral anatomy in theropod dinosaurs*. **Journal of Vertebrate Paleontology**. 22 (3 Supplement). 19 September, 2002.

PROFESSIONAL SEMINARS/TALKS

- July 2007 *Functional morphology of the reptilian five chambered heart.* Symposium on the Functional Morphology of the Reptilian Five Chambered Heart, 8th International Congress of Vertebrate Morphology (ICVM8), Paris, France.
- October 2002 *New evidence for diaphragm breathing in theropod dinosaurs,* 62nd Annual Meeting of the Society of Vertebrate Paleontology, Oklahoma, USA

PROFESSIONAL SOCIETIES

Society for Integrative and Comparative Biology – Division of Vertebrate Morphology
Society of Vertebrate Paleontology
International Society of Vertebrate Morphologists
Human Anatomy and Physiology Society
Society for Integrative and Comparative Biology – Division of Comparative Physiology & Biochemistry
National Association of Biology Teachers
Sigma Xi

COMMUNITY SERVICE

- 2012-present Girl Scouts of Oregon and Southwest Washington. Troop Leader: Brownie, Service Unit 29 (Benton).
- 2001-2008 Hosted many groups who have come to view cadavers in Oregon State University's Human Anatomy & Physiology Laboratories. Some of the groups are as follows:
- Numerous visits from Local High Schools – Corvallis & Albany, OR.
 - Oregon State University Student Recruitment.
 - A group of Japanese athletic training students hosted every summer (2004-2007) to explore the cadavers in further detail.
 - LBCC Life Drawing Class hosted annually to use the human cadavers as subjects for drawing class (2003-2007)
- 2002 Science Olympiad: Fossil Test. Calapooia Middle School, Albany, OR.
- 2002-2009 Local student groups visit research laboratory to view alligators. Department of Zoology. Oregon State University.