

**Sheree Harper
Adjunct Instructor**

Area of specialization: Population genetics

Non tenure-track

First Year at UNI: 2011 - 2013 Graduate Teaching Assistant, 2013 - Present Adjunct Instructor

Degrees earned:

<i>National STD Curriculum</i> ; University of Washington	April 2020
<i>MS in Biology</i> ; University of Northern Iowa	August 2013
<i>BA in Biology</i> ; University of Northern Iowa	May 2011
<i>AA Degree</i> ; Hawkeye Community College	May 2004

Academic teaching and related experience:

2013 - Present Adjunct Instructor; University of Northern Iowa

2011 - 2013 Graduate Teaching Assistant; University of Northern Iowa

Awards (2010-2011 to Present):

2019: First Year Student Advocate

2022: First Year Student Advocate

2023: United Faculty Above & Beyond Award

Courses taught since 2013:

Fall 2013:

BIOL 3101-04/05/06/07 Anatomy & Physiology I Lab

BIOL 2052-09 General Biology: Cell Structure & Function Lab

Spring 2014:

BIOL 3101-02/03 Anatomy & Physiology I Lab

BIOL 3102-04/06/07 Anatomy & Physiology II Lab

Fall 2014:

BIOL 3101-05/07/08 Anatomy & Physiology I Lab

BIOL 3102-02 Anatomy & Physiology II Lab

Spring 2015:

BIOL 1015-09 Life: Continuity & Change Lab

BIOL 3101-03 Anatomy & Physiology I Lab

BIOL 3102-03 Anatomy & Physiology II Lab

Fall 2015:

BIOL 3101-05/06/08 Anatomy & Physiology I Lab

Spring 2016:

BIOL 3102-05/06 Anatomy & Physiology II Lab

BIOL 2052-01 General Biology: Cell Structure & Function Lab

Summer 2016:

BIOL 3102-80 Anatomy & Physiology II Lab

Fall 2016:

BIOL 2051-09 General Biology: Organismal Diversity Lab

BIOL 3101-07 Anatomy & Physiology I Lab

Spring 2017:

BIOL 2051-02 General Biology: Organismal Diversity Lab

Summer 2017:

BIOL 3101-01 Anatomy & Physiology I Lab

BIOL 3102-80 Anatomy & Physiology II Lab

Fall 2017:

BIOL 1015-09 Life: Continuity & Change Lab

BIOL 3101-08 Anatomy & Physiology I Lab

BIOL 2052-02, 09 General Biology: Cell Structure & Function Lab

Spring 2018:

BIOL 1015-04 Life: Continuity & Change Lab

BIOL 2051-05, 07 General Biology: Organismal Diversity Lab

BIOL 3102-07 Anatomy & Physiology II Lab

Summer 2018:

BIOL 3101-01 Anatomy & Physiology I Lab

BIOL 3102-80 Anatomy & Physiology II Lab

Fall 2018:

BIOL 3101-07 Anatomy & Physiology I Lab

BIOL 2052-06 General Biology: Cell Structure & Function Lab

BIOL 3140-03, 04, 05 Genetics

Spring 2019:

BIOL 3140-01, 02, 03 Genetics

BIOL 3101-B, C Anatomy & Physiology I Lab

BIOL 3102-G Anatomy & Physiology II Lab

Summer 2019:

BIOL 3101-01 Anatomy & Physiology I Lab

BIOL 3102-80 Anatomy & Physiology II Lab

Fall 2019:

BIOL 2051-B General Biology: Organismal Diversity Lab

BIOL 3101-C Anatomy & Physiology I Lab

BIOL 3101-H Anatomy & Physiology I Lab (Nursing)

BIOL 1014-05 Life Continuity & Change Lecture

Spring 2020:

BIOL 2051-A, B General Biology: Organismal Diversity Lab

BIOL 3102-NE Anatomy & Physiology II Lab (Nursing)

Summer 2020:

BIOL 3101-A Anatomy & Physiology I Lab

BIOL 3102-A Anatomy & Physiology II Lab

Fall 2020:

BIOL 2051-B General Biology: Organismal Diversity Lab
BIOL 2052-B, C, E, G General Biology: Cell Structure & Function Lab
BIOL 3102-NH Anatomy & Physiology II Lab (Nursing)
BIOL 4198-01 Independent Study

Spring 2021:

BIOL 1015-03, 06 Life: Continuity & Change Lab
BIOL 2051-C General Biology: Organismal Diversity Lab
BIOL 2052-A General Biology: Cell Structure & Function Lab
BIOL 3101-D Anatomy & Physiology I Lab
BIOL 3102-NE Anatomy & Physiology II Lab (Nursing)
BIOL 4198-13 Independent Study

Summer 2021:

BIOL 3101-A Anatomy & Physiology I Lab
BIOL 3102-A Anatomy & Physiology II Lab

Fall 2021:

BIOL 1015-09 Life: Continuity & Change Lab
BIOL 2051-E, F General Biology: Organismal Diversity Lab
BIOL 3102-NG Anatomy & Physiology II Lab (Nursing)
BIOL 4198-13 Independent Study

Spring 2022:

BIOL 1015-05 Life: Continuity & Change Lab
BIOL 2052-A, C, D General Biology: Cell Structure & Function Lab
BIOL 3101-C Anatomy & Physiology I Lab
BIOL 4198-13 Independent Study

Summer 2022:

BIOL 3101-A Anatomy & Physiology I Lab
BIOL 3102-A Anatomy & Physiology II Lab

Fall 2022:

BIOL 1015-08 Life: Continuity & Change Lab
BIOL 2052-A, B, C, D General Biology: Cell Structure & Function Lab
BIOL 3101-E Anatomy & Physiology I Lab
BIOL 3101-NI Anatomy & Physiology I Lab (Nursing)
BIOL 4198-13 Independent Study

Spring 2023:

BIOL 1015-08 Life: Continuity & Change Lab
BIOL 2052-A, C, D, E General Biology: Cell Structure & Function Lab
BIOL 4198-13 Independent Study

Summer 2023:

BIOL 3101-A Anatomy & Physiology I Lab
BIOL 3102-A Anatomy & Physiology II Lab

Fall 2023:

BIOL 1015-08 Life: Continuity & Change Lab
BIOL 2052-B General Biology: Cell Structure & Function Lab
BIOL 3101-NI Anatomy & Physiology I Lab
BIOL 3101-A Anatomy & Physiology I Lab
BIOL 4198-13 Independent Study
BIOL 6230-13 Special Problems in Biology

Spring 2024:

BIOL 1015-01 Life: Continuity & Change Lab
BIOL 2052-A General Biology: Cell Structure & Function Lab
BIOL 3102-02 Anatomy & Physiology II PAH Lecture
BIOL 3102-C Anatomy & Physiology II Lab
BIOL 4198-13 Independent Study
BIOL 4198-27 Independent Study

Other courses regularly taught:

Additional Duties:

Fall 2020 - Present: BIOL 2052 Cell Structure & Function Lab Coordinator
Spring 2023 - Present: BIOL 1015 Life Continuity & Change Lab Coordinator
Fall 2023 - Present: BIOL 3101 Anatomy & Physiology I Lab Coordinator

Scholarship/research/publications/presentations (2010-2011 through present):

- [1] Harper, Sheree E. *Cell Structure & Function Laboratory Manual*. Campus Publishing, 2023. ISBN: 978-1-7331989-0-5
- [2] Harper, Sheree E. *Cell Structure & Function Laboratory Manual, Second Edition*. Campus Publishing, 2024. ISBN: 978-0-9993780-9-0
- [3] Light, J. E., Harper, S. E., Johnson, K. P., Demastes, J. W., & Spradling, T. A. (2018). Development and Characterization of 12 Novel Polymorphic Microsatellite Loci for the Mammal Chewing Louse *Geomydoecus aurei* (Insecta: Phthiraptera) and a Comparison of Next-Generation Sequencing Approaches for Use in Parasitology. *Journal of Parasitology*, 104(1), 89-95. doi:10.1645/17-130
- [4] Harper, S. E., Spradling, T. A., Demastes, J. W., & Calhoun, C. S. (2015). Host behaviour drives parasite genetics at multiple geographic scales: Population genetics of the chewing louse, *Thomomydoecus minor*. *Molecular Ecology*, 24(16), 4129-4144. doi:10.1111/mec.13306
- [5] Harper, S. E. (2013). Population genetics of *Thomomydoecus minor*: Ectoparasitic chewing lice on *Thomomys bottae* pocket gophers of the Rio Grande Valley in New Mexico. Cedar Falls, IA: University of Northern Iowa.

Summary of external grants received (2010-2011 through present):

2019: Roy J. Carver Charitable Grant, \$40,000.00. For purchase of SynDaver immersion tanks, custom laboratory tables, and upgrades to SynDaver models for Anatomy and Physiology I Lab.

Summary of internal grants received (2010-2011 through present):

Oct. 2018 - University pledged grant to supplement Carver Grant, \$12,000.00

May 2020 - Continuing Education contributed funds (~\$3500.00) to purchase equipment & supplies for students enrolled in the summer session of Anatomy & Physiology II online. Kits were mailed to students and included; dissection kits (brain, heart, and eyeball), reflexes kit (reflex hammer, pen light), sensations kit (textures, filament probe), cardiovascular kits (blood pressure cuffs, stethoscopes), blood kits (blood typing, hemoglobin, clotting time), and additional weekly supplies.

May 2023 - Biology Department contributed funds (~\$700.00) to purchase “Visible Body” 3D interactive software keys for students enrolled in the summer session of Anatomy & Physiology I online.

Summary of service activities (2010-2011 through present):

- UNI Up Close Days; Fall 2017, Spring 2018, Fall 2018, Spring 2019
- Cedar Falls High School Recruitment for Health Careers; Oct. 1, 2018
- Individual family tour; Oct. 23, 2018
- New Hampton High School Activity & Tour; January 10, 2019
- Science Olympiad, Genetics for Divisions B & C; March 2019
- High School Student Prospect Tour April 22, 2019
- New Hampton High School Activity & Tour; January 16, 2020
- UNI Alumni Association; “Tuesday Talk” speaker promoting use of Syndavers, June 2020

Other Service:

Assisting graduate students with microsatellite programs and data

Ryan Neuhaus 2015 Graduate

Jason Parks 2018 Graduate

Brianna Yarrow 2018 Graduate

For Anatomy & Physiology I Lab;

- Put together (2) tissue slide boxes with microscopes for library check out
- Cleaned out, organized, and labeled items according to the lab used in
- Requested (and received) funding to order half size human static model for library check out

For Anatomy & Physiology II Lab;

- Cleaned out, organized, and labeled items according to the lab used in

For Life: Continuity and Change Lab;

- Created (3) Study Guides with answer keys for use by all sections
- Created Handouts covering mitosis, meiosis, and aneuploidy for use in all sections
- Created laminated “cheat sheets” for estimating cell size and steps for analyzing a DNA Fingerprint gel for use by all sections.
- Created new “stockroom request” sheets for each weekly lab for the storekeeper

For General Biology; Cell, Structure and Function Lab;

- Created new answer keys (with pictures of the same microscope slides the students would be viewing) for the Plant & Animal Histology labs
- Wrote a lab manual winter of 2022
- Wrote instructions for use of new microscopes with digital imaging and annotation software.
- Created new “stockroom request” sheets for each weekly lab for the storekeeper
- Created new lab prep instructions for each weekly lab

For Genetics Lab;

- Created a Pedigree and Inheritance lab

For General Biology; Organismal Diversity Lab;

- Created laminated exam question cards with interchangeable taxonomic level “add ons” (for change of questions)
- Created hand-drawn dissection diagrams
- Created weekly study guides

Summary of workshops/seminars (2010-2011 through present):

July 2020: Panapto - Getting Started: “Record A Video”

July 2020: Panapto - Getting Started: “Edit A Video”

May 2020: “QM Course Design Essentials”

March 2021: STEM Teaching Inquiry Based Labs “Thinking Like A Scientist” Module

October 2022: eLearning: “UNI 1st Amendment Training”

October 2022: eLearning: “Title IX Training”

February 2023: eLearning - “Data Security Training”

February 2023: eLearning - “FERPA Training”

March 2023: eLearning - “Harassment and Discrimination Prevention”

April 2023: Visible Body Training Session - 3D Anatomy Interactive Software & Assignments