

# BIOL 1551L - Anatomy and Physiology 1 Laboratory

Fall 2026 Syllabus, Section 02, CRN 40470,

Credit hours: 1

## Public Instructor Information

Instructor Title:

Instructor Professional Qualifications:

Instructor Office Location:

Instructor Office Phone:

## Course Description

1551L. Anatomy and Physiology 1 Laboratory. Anatomical study of skeletal, muscular, and nervous systems. For students in nursing and associated health professions. Two hours of laboratory per week. Not applicable to the Biology major. BIOL 1551 must be taken either previous or concurrent. 1 s.h.

## Course Readings

| Group | Title                               | Author                                      | ISBN          |
|-------|-------------------------------------|---------------------------------------------|---------------|
|       | Hole's Human Anatomy and Physiology | Charles J. Welsh and Cynthia PrenticeCraver | 9781264398508 |

**Hole's Human Anatomy and Physiology. Authors: Charles J. Welsh and Cynthia PrenticeCraver. McGraw-Hill Co. Publisher. ISBN10: 1264398506 | ISBN13: 9781264398508**

- You will use this textbook for BIOL 1551 lecture, 1551 lab, 1552 lecture, & 1552 lab.
- Labs will use: McGraw Hill Lab Suite

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

## Schedule of Topics and Assignments

| Week of | Reading(s)                                      | Proposed Topic                                                                                                                | Due/To Prepare for Class                                                                                                |
|---------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 8/24    | Scientific Study of the Human Body<br>Histology | Virtual Lab Applying Scientific Method,<br>Questions Scientific Study<br>Virtual Lab Activity: Connective Tissue<br>Histology | NO IN-PERSON CLASS ---- ONLINE VIRTUAL<br>LAB<br>NO IN-PERSON CLASS ---- ONLINE VIRTUAL<br>LAB                          |
| 8/31    | Cytology                                        | Questions: Cytology Virtual Lab: DNA<br>Biology & Technology-Rapid Diagnostic<br>Testing                                      | NO IN-PERSON CLASS ---- ONLINE VIRTUAL<br>LAB                                                                           |
| 9/7     | Integumentary System                            | Questions Integumentary System Virtual<br>Lab Activity: Epithelial Tissue Histology                                           | • Histology Slide Review: • Epithelial Tissue<br>Histology • Muscular Tissue Histology •<br>Connective Tissue Histology |
| 9/14    | Skeletal System                                 | Questions: Skeletal System, Online Lab:<br>Skeletal Shoulder & Elbow movement ex.                                             | • Face and Skull PowerPoint Structures                                                                                  |
| 9/21    | Skeletal System                                 | Bone Dissection Online Lab: Skeletal Muscle<br>Electrical Stimulation                                                         | • Bones of Shoulder & Arm PPT structures •<br>Bones of Pelvic & Leg PPT                                                 |
| 9/28    | N/A: review Skeletal System slideshow           | • Clinical Application assignment                                                                                             | • Review Bones of Vertebral Column &<br>Thoracic Cage PPT                                                               |
| 10/5    | Lab Practical 1                                 | Lab Practical 1                                                                                                               | Lab Practical 1                                                                                                         |
| 10/12   | Nervous System: Nerve Tissue                    | Questions: Nervous Tissue Online<br>Lab: Microscopy Nervous Tissue Brain<br>Dissection structures                             | • Brain Anatomy PPT • Nervous Tissue<br>Histology ppt                                                                   |



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|-------|--------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 10/19 | Nervous System: CNS      | Questions: CNS                                                                        | • Ear Structures PPT                                                                  |
| 10/26 | Ear and Eye Pre readings | Online Lab Activity: Eye and Vision: Eye Dissection Online Eye and Visual Acuity Test | • Eye structures PPT • In Lab Visual Acuity Tests • Online video: how to check Acuity |
| 11/2  | Muscular System          | Questions: Muscular System, Online Muscle Dissection                                  | • Head muscles review PPT • Abdomen and Thorax muscles PPT                            |
| 11/9  | Spinal Cord Anatomy      | review Spinal Cord Models                                                             | • Arms and Leg Muscles PPT                                                            |
| 11/16 | Nervous System Sensation | Online Lab: Demonstrate Monosynaptic Reflexes Questions: Nervous System Sensation     | • General Senses lab                                                                  |
| 11/23 | Lab Practical 2          | Lab Practical 2                                                                       | Lab Practical 2                                                                       |
| 11/30 | Finals Week – No Lab     |                                                                                       |                                                                                       |

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