



## **NAT150L Introduction to Anatomy and Physiology Lab**

**(1 credit hour)**

### **Course Syllabus**

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#### **Course Description**

This laboratory will cover foundational anatomy & physiology concepts via the use of virtual dissection, imaging, and histology. The lab allows students to interactively label, dissect, and identify various structures of the human body. This lab is an excellent tool that allow students to implement theoretical concepts and nomenclature of the human body into practice.

#### **Course Learning Outcomes**

By the end of this course, you will be able to:

- Recognize various structures within the human body.
- Interpret imaging and histology of the human body.
- Analyze and dissect parts of the human body.
- Identify, distinguish, and name simple and complex structures of the human body.

#### **Course Prerequisite/Corequisite**

NAT150

#### **Required Textbook(s) and Resources**

Longenbaker, S. N. Mader's understanding: Human anatomy & physiology. (10<sup>th</sup> edition)  
McGraw-Hill Companies, Inc.

Note: this course may contain additional resources for specific activities or modules. Be sure to read the instructions carefully for individual assignments or activities for those requirements. Where applicable, Tiffin University has obtained permission to use copyrighted material.

Be sure to also review the weekly **Explore** sections for additional library or web resources. For access to databases, research help, and writing tips, visit the [Tiffin University Library](#).

## Time Commitment

Effective time management is possibly the single most critical element to your academic success. To do well in this online class you should plan your time wisely to maximize your learning through the completion of readings, discussions, and assignments. Because of our accelerated, seven-week term, TU online courses are designed with the expectation that you dedicate a little over **six (6)** hours per credit hour to course activities and preparation **each week**.

To help you plan your time and keep you on track toward successful completion, this course maintains a distinctive rhythm for assignment due dates:

1. All times assume Eastern Time (GMT-4).
2. Weeks begin at 12:00 a.m. ET on Monday and end at 11:55 p.m. ET on Sunday.
3. Unless otherwise noted, initial assignments or discussion posts are due by **11:55 p.m. ET on Wednesdays**.
4. Additional assignments or follow-up discussion posts are due by **11:55 p.m. ET on Saturdays, and**
5. Major assignments and reflections are typically due by **11:55 p.m. ET on Sundays**.

## Learning Activities

Each week is broken down into the learning activities. Each unit will have textbook reading and presentations, virtual dissections, discussion forums (Weeks 1, 3, 5, and 7), weekly Quizzes and P.H.I.L.S. in Connect (Weeks 2, 4, and 6). The course is designed for you to learn the basic elements of our body's structures and functions as it relates to a healthy human organism.

## Grading

The chart below identifies the individual contributions from each type of activity, per module.

Activity	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Total
Discussion	20	n/a	20	n/a	20	n/a	20	80
P.H.I.L.S.	n/a	100	n/a	100	n/a	100	n/a	300
Lab Dissection Quiz	80	100	80	100	80	100	80	620
<b>Total</b>	<b>100</b>	<b>200</b>	<b>100</b>	<b>200</b>	<b>100</b>	<b>200</b>	<b>100</b>	<b>1000</b>

## Grading Scale

A: 90-100% | B: 80-89% | C: 70-79% | D: 60-69% | F: <60%

## NAT150: Schedule and Weekly Checklist

Topic	Learning Activities (Due by 11:55 p.m. ET on day designated)
Start Here (Getting Started...)	<ul style="list-style-type: none"> <li>MON: Orientation Tasks</li> </ul>
Week 1: Cells & Tissues (Chapters 1, 3, & 4)	<ul style="list-style-type: none"> <li>WED: Initial Post-OSHA's Laboratory Guidelines (Forum)</li> <li>SAT: Second Post- OSHA's Laboratory Guidelines (Forum)</li> <li>SAT: Week 1 Virtual Dissections: Modules 1, 2, &amp; 3 (in McGraw-Hill Connect)</li> <li>SUN: Lab Quiz 1-Dissection (in McGraw-Hill Connect)</li> </ul>
Week 2: Integumentary, Skeletal, & Muscular Systems (Chapters 5, 6, & 7)	<ul style="list-style-type: none"> <li>SAT: Week 2 Virtual Dissections: Modules 4, 5, &amp; 6 (in McGraw-Hill Connect)</li> <li>SAT: P.H.I.L.S. Weight and Contraction Experiment (in McGraw-Hill Connect)</li> <li>SUN: Lab Quiz 2-Dissection (in McGraw-Hill Connect)</li> </ul>
Week 3: Nervous, Sensory, & Endocrine Systems (Chapters 8, 9, & 10)	<ul style="list-style-type: none"> <li>WED: Initial Post-Cerebrospinal Fluid (Forum)</li> <li>SAT: Second Post- Cerebrospinal Fluid (Forum)</li> <li>SAT: Week 3 Virtual Dissections: Modules 7 &amp; 8 (in McGraw-Hill Connect)</li> <li>SUN: Lab Quiz 3-Dissection (in McGraw-Hill Connect)</li> </ul>

Topic	Learning Activities (Due by 11:55 p.m. ET on day designated)
Week 4: Blood and the Cardiovascular System (Chapters 11 & 12)	<ul style="list-style-type: none"> <li>• SAT: Week 4 Virtual Dissections: Module 9 (in McGraw-Hill Connect)</li> <li>• SAT: P.H.I.L.S. Circulation (in McGraw-Hill Connect)</li> <li>• SUN: Lab Quiz 4-Dissection (in McGraw-Hill Connect)</li> </ul>
Week 5: The Lymphatic and Respiratory Systems (Chapters 13 & 14)	<ul style="list-style-type: none"> <li>• WED: Initial Post-E-cigarettes and the Respiratory System (Forum)</li> <li>• SAT: Second Post- E-cigarettes and the Respiratory System (Forum)</li> <li>• SAT: Week 5 Virtual Dissections: Modules 10 &amp; 11 (in McGraw-Hill Connect)</li> <li>• SUN: Lab Quiz 5-Dissection (in McGraw-Hill Connect)</li> </ul>
Week 6: Digestive System and Urinary System & Excretion (Chapters 15 & 16)	<ul style="list-style-type: none"> <li>• SAT: Week 6 Virtual Dissections: Modules 12 &amp; 13 (in McGraw-Hill Connect)</li> <li>• SAT: P.H.I.L.S. - Digestion (in McGraw-Hill Connect)</li> <li>• SUN: Lab Quiz 6-Dissection (in McGraw-Hill Connect)</li> </ul>
Week 7: Human Reproduction & Genetics  (Chapters 17 & 19)	<ul style="list-style-type: none"> <li>• WED: Initial Post-Spermatogenesis (Forum)</li> <li>• SAT: Second Post- Spermatogenesis (Forum)</li> <li>• SAT: Week 7 Virtual Dissections: Modules 14 (in McGraw-Hill Connect)</li> <li>• SUN: Lab Quiz 7-Dissection (in McGraw-Hill Connect)</li> <li>• SUN: TU Course Evaluation</li> </ul>

## Tips for Success

Successful online learning requires a good deal of self-discipline and self-direction. As seekers of the truth, we should be willing to challenge and review one another's academic work in a spirit of respectful comradery and constructiveness. You should accept constructive feedback as a gift. Your course is a place for you to stretch and grow as you benefit from the expertise, knowledge, experience and diverse perspectives of your instructor and peers. Constructive feedback will challenge you to stretch your own thinking, thereby expanding your knowledge, understanding and application.

To get the most out of your learning experience, you should actively engage (participate) in **ALL** course activities. Course elements in any given week are arranged chronologically. To complete a week, simply work your way "down the page" through all of the course materials and activities.

**For More Information:**

Be sure to review the Support, Policies, and Procedures addendum.