



North Central State College

**MASTER SYLLABUS**

**2023-2024**

- A. Academic Division: Health Sciences
- B. Discipline: Science
- C. Course Number and Title: BIOL1730 Basic Anatomy & Physiology
- D. Assistant Dean: Heidi Kreglow, PT
- E. Credit Hours: 4  
Lecture: 3 hours  
Laboratory: 3 hours
- F. Prerequisites: ENGL 0040 (minimum grade of C- required for both) or qualifying placement test scores
- G. Last Course/Curriculum Revision Date: Fall 2023                      Origin date:    03/10/2011
- H. Textbook(s) Title:  
*Essentials of Anatomy & Physiology (OPTIONAL)*
  - Authors: Marieb, Elaine; Keller, Suzanne
  - Copyright Year: 2021
  - Edition: 13th
  - ISBN: 9780137375561 (Hardback Option), ISBN: 978013562430 (E-Book Option)
- I. Workbook(s) and/or Lab Manual: None
- J. Course Description: This course presents the basic terms and concepts that deal with the structure and processes of the human body. It involves examination of the body as a whole, the cell, and tissues. The basic structure and physiology of the integumentary, skeletal, muscular, nervous, cardiovascular, lymphatic, respiratory, digestive, urinary, reproductive, and endocrine systems are presented. Laboratory exercises enhance and support the lecture topics and include microscopy, the study of models, specimen dissection, cadaver study, and physiological experiments.

K. College-Wide Learning Outcomes

College-Wide Learning Outcomes	Assessments - - How it is met & When it is met
Communication – Written	
Communication – Speech	
Intercultural Knowledge and Competence	
Critical Thinking	
Information Literacy	
Quantitative Literacy	

L. Course Outcomes and Assessment Methods:

Upon successful completion of this course, the student shall:

Outcomes	Assessments – How it is met & When it is met
1. Describe the body planes and organization and apply these to appropriate models, drawings, and specimens.	Exams, quizzes, practical lab tests throughout the semester
2. Define homeostasis and explain some common examples that apply to the human body.	Exams, quizzes, practical lab tests throughout the semester
3. Identify selected cell structures on models or drawings and state the functions of these cell parts.	Exams, quizzes, practical lab tests throughout the semester
4. List and identify the stages of cell mitosis.	Exams, quizzes, practical lab tests throughout the semester
5. Distinguish between diffusion, osmosis, filtration, and active transports.	Exams, quizzes, practical lab tests throughout the semester
6. Describe and locate examples of the major tissues of the body and explain their general function.	Exams, quizzes, practical lab tests throughout the semester
7. Identify the bones of the skeleton	Exams, quizzes, practical lab tests throughout the semester
8. Distinguish between axial and appendicular skeleton and identify selected examples of bone processes, depressions, and holes	Exams, quizzes, practical lab tests throughout the semester
9. Identify and locate selected major muscles of the human body and state their general action	Exams, quizzes, practical lab tests throughout the semester
10. Briefly describe or identify the microscopic organization of muscle cells and state their role in muscle contraction.	Exams, quizzes, practical lab tests throughout the semester
11. Identify and describe the basic microscopic and macroscopic anatomical components of the nervous system and explain their general functional roles in communication, control, and integration.	Exams, quizzes, practical lab tests throughout the semester
12. Identify selected structures of the eye and state their functional role in vision	Exams, quizzes, practical lab tests throughout the semester
13. Identify and describe the basic microscopic and macroscopic anatomical components of the cardiovascular system and summarize their functional roles in transport and hemodynamics.	Exams, Quizzes, Practical lab tests throughout the semester
14. Briefly describe the overall functions of the lymphatic system and its general circulation.	Exams, Quizzes, Practical lab tests throughout the semester
15. Identify and describe the basic microscopic and macroscopic anatomical components of the respiratory system and state their basic functional roles in external and internal respiratory processes.	Exams, Quizzes, Practical lab tests throughout the semester

Outcomes	Assessments – How it is met & When it is met
16. Identify the basic macroscopic and a few microscopic anatomical components of the digestive system and state their basic functional roles in nutrition, digestion, absorption, metabolism, and elimination.	Exams, Quizzes, Practical lab tests throughout the semester
17. Identify and describe the basic microscopic and macroscopic anatomical components of the urinary system and state their basic functional roles in body fluid homeostasis including pH control, fluid balance and electrolyte balance.	Exams, Quizzes, Practical lab tests throughout the semester
18. Identify and describe the basic microscopic and macroscopic anatomical components of the reproductive system and explain their general functional roles in reproduction and inheritance.	Exams, Quizzes, Practical lab tests throughout the semester
19. Identify the major endocrine glands and state their hormonal secretions and the general actions of these hormones.	Exams, Quizzes, Practical lab tests throughout the semester

M. Recommended Grading Scale:

NUMERIC	GRADE	POINTS	DEFINITION
93–100	A	4.00	Superior
90–92	A-	3.67	Superior
87–89	B+	3.33	Above Average
83–86	B	3.00	Above Average
80–82	B-	2.67	Above Average
77–79	C+	2.33	Average
73–76	C	2.00	Average
70–72	C-	1.67	Below Average
67–69	D+	1.33	Below Average
63–66	D	1.00	Below Average
60–62	D-	0.67	Poor
00–59	F	0.00	Failure

N. College Procedures/Policies:

North Central State College believes that every student is a valued and equal member of the community.\* Every student brings different experiences to the College, and all are important in enriching academic life and developing greater understanding and appreciation of one another. Therefore, NC State College creates an inclusive culture in which students feel comfortable sharing their experiences.

Discrimination and prejudice have no place on the campus, and the College takes any complaint in this regard seriously. Students encountering aspects of the instruction that result in barriers to their sense of being included and respected should contact the instructor, assistant dean, or dean without fear of reprisal.

\* *Inclusive of race, color, religion, gender, gender identity or expression, national origin (ancestry), military status (past, present or future), disability, age (40 years or older), status as a parent during pregnancy and immediately after the birth of a child, status as a parent of a young child, status as a foster parent, genetic information, or sexual orientation*

**Important information regarding College Procedures and Policies can be found on the syllabus supplement located at**

<https://ncstatecollege.edu/documents/President/PoliciesProcedures/PolicyManual/Final%20PDFs/14-081b.pdf>



North Central State College  
BIOL 1730 SYLLABUS ADDENDUM

Academic Division:	<u>Health Sciences</u>	Discipline:	<u>Biology</u>
Course Coordinator:	<u>Jaydip Das Gupta Ph.D.</u>		
Course Number:	<u>BIOL-1730/BIOL-1730L</u>	Course Title:	<u>Basic Anatomy and Physiology</u>
Semester / Session:	<u>Fall 2025 (16 weeks)</u>	Start / End Date:	<u>8/11/2025 – 12/12/2025</u>

**Instructor Information**

Name:	<u>Jaydip Das Gupta Ph.D.</u>	Credentials:	<u>M.Sc, Ph.D.</u>
Phone Number:	<u>419-755-4872</u>	E-Mail Address:	<u>Jdasgupta@ncstatecollege.edu</u>
Office Location:	<u>HS 332</u>	Office Hours:	<u>See the course schedule</u>

	<b>Lecture Schedule (Tues - No set time, Thurs: 11.45 - 1.00 pm)</b>
12-Aug	Ch 1 (Human Body)
14-Aug	Ch 2 (Basic Chemistry)
19-Aug	Ch 2 (Basic Chemistry)
21-Aug	Ch 3 (Part I Cell)
26-Aug	Ch 3 (Part II - Body tissue),
	<b>Exam #1 (Ch 1, 2 ,3)</b>
28-Aug	Ch 4 (Skin)
2-Sep	Ch 5 (Skeletal system)
4-Sep	Ch 5 (Skeletal system)
9-Sep	Ch 6 (Muscular system)
11-Sep	Ch 6 (Muscular system)
	<b>Exam # 2 (Ch 4, 5 and 6)</b>
16-Sep	Ch 7 (Nervous system)
18-Sep	Ch 7 (Nervous system)
23-Sep	Ch 8 (Special senses)
25-Sep	Ch 8 (Special senses)
30-Sep	Ch 9 (Endocrine)
2-Oct	Ch 10 (Blood)
	<b>Exam # 3 (Ch 7, 8, 9)</b>
7-Oct	Fall break - No class
9-Oct	Fall break - No class
14-Oct	Ch 10 (Blood)
16-Oct	Ch 10 (Blood)
21-Oct	Chapter 11 (Cadiovascular)
23-Oct	Chapter 11 (Cadiovascular)
28-Oct	Chapter 12 (Lymphatic)
30-Oct	Chapter 12 (Lymphatic)
	<b>Exam # 4 (Ch 10, 11 and 12)</b>
4-Nov	Ch 13 (Respiratory)

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6-Nov	Ch 13 (Respiratory)
11-Nov	Ch 14 (Digestive)
13-Nov	Ch 14 (Digestive)
	<b>Exam # 5 (Ch 13, 14)</b>
18-Nov	Ch 15 (Urinary)
20-Nov	Ch 15 (Urinary)
25-Nov	Ch 16 (Reproductive)
27-Nov	Thanksgiving break. No class
2-Dec	Ch 16 (Reproductive)
4-Dec	Ch 16 Embryology
9-Dec	Review and extra day
11-Dec	<b>Exam # 6 (Comprehensive and Ch 15, 16)</b>
<div> <b>Laboratory Schedule</b>  <b>1730L -01 (Tues, Thurs 1.30 - 2.55 pm)</b>  <b>1730L -02 (Wed, Thurs 3.30 - 4.55 pm)</b> </div>	
12-Aug/13-Aug	Class introduction, Organic chemistry
14-Aug	Lab A - Terminology, Cavities, Organs, Systems, Cadaver, Surface Anatomy
19-Aug/20-Aug	Lab A - Microscope Use
21-Aug	Lab B - Cells and Tissues
26-Aug/27-Aug	Lab B - Cells and Tissues
28-Aug	Lab C - Membrane transport
2-Sep/3-Sep	Lab C - Membrane transport
4-Sep	Lab D - Mitosis and integumentary
9-Sep/10-Sep	Lab D - Mitosis and integumentary
11-Sep	Lab E - Axial skeleton
16-Sep/17-Sep	Lab E - Axial skeleton
18-Sep	Lab F - Appendicular
23-Sep/24-Sep	Lab F - Appendicular
25-Sep	Lab G - Muscular
3-Sept/1-Oct	Lab H - Muscular
2-Oct	Lab I - Central nervous system
14-Oct/15-Oct	Lab I - Central nervous system
16-Oct	Lab J, N - Spinal nerves, Endocrine
21-Oct/22-Oct	Lab I - Eye and ear
23-Oct	Lab K - Blood
28-Oct/29-Oct	Lab L - Heart

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30-Oct	Lab L - Heart
4-Nov/5-Nov	Lab M - Arteries and veins
6-Nov	Lab M - Arteries and veins
11-Nov/12-Nov	Lab N, O - Respiratory
13-Nov	Lab P - Digestive
18-Nov/19-Nov	Lab Q - Urinary
20-Nov	Lab Q - Urinary
25-Dec/26-Dec	Lab S - Reproductive
2-Dec/3-Dec	Lab S - Reproductive
4-Dec	Lab T - Endocrine

#### **D. Examination Policy:**

##### **LECTUERE SECTION:**

Quizzes: There will be at bunch of quizzes given throughout the semester. There will be about 10 question each quiz (2 points each question). Quizzes CANNOT be taken after the due date/time. If you miss a quiz, consider it your dropped quiz. One lowest quiz grade will be dropped. If you miss a quiz, consider it to be your dropped quiz.

Lecture exam: (600 points) There will be six (6) exams as mentioned. Each exam will worth 100 points.

General attendance: We will have a 30-45 minutes check in for lecture each day during Zoom meeting.

##### **LAB SECTION:**

Lab exam: There will be about 15 -17 lab quizzes during the entire semester with varying points. This will be fill in exams based on materials, images or scenarios presented in the lab section.

General attendance: General attendance will be recorded. Lab is in-person on respective days in Health Sciences lab 321.

#### **The overall class grade will be determined as follows:**

<b>Lecture, lab attendance:</b>	<b>5%</b>
<b>Lecture quizzes:</b>	<b>10%</b>
<b>Lecture exam:</b>	<b>55%</b>
<b>Lab quizzes:</b>	<b>30%</b>
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<b>Total grade:</b>	<b>100%</b>

**Exams CANNOT be taken after the due date/time.** If you miss an exam, consider it your dropped exam and I have the authority to put zero for that missing exam. Since there are few days

to take each exam, no excuses will be considered, and it is YOUR responsibility to take the exam on time!

The reasons for which a student will be excused from taking an examination \_\_\_\_\_

- Hospitalization (with documented verification)
- Death in the immediate family (with documented verification)
- Personal illness or illness in immediate family - (doctor's excuse required).
- After the due date of exam and quizzes, I will open the answers for you. So no way you are allowed to take the quiz or exam after the due date when the answers will be visible!
- Missing exam/quiz for vacation/fun will absolutely not be excused by any means. I have the full authority to grade zero.**

### **E. Class Attendance and Make-Up Policy:**

The lecture will be via Zoom. The laboratory will be in-person. The Zoom links for the lectures will be under the Zoom folder. The instructor needs to be notified as soon as possible if a student needs to miss class/lab or will be unable to turn in an assignment on time. Exceptions (such as illness, family emergencies, etc.) can be made on a case-by-case basis.

***\*\*Note: Both lecture and lab attendances are mandatory. After consecutive three absences, I have the authority to report to the Dean/Assistant Dean and administrative withdraw from the course\*\****

***Every student should have their camera on during the entire Zoom lecture session. I have the authority to mark you absent for camera off during the session.***

### **F. Classroom Expectations:**

**All communications & conduct in this course is subject to the NC State Student Code of Conduct**

#### **General Professionalism Expectations**

In general, as a future professional in your field, **you will be expected to conduct yourself as a professional in this course in ALL communications** - assignments, discussion forums, Canvas Inbox, emails etc.

This expectation includes *but is not limited to*:

- Being respectful of classmates' opinions, work and comments**  
*Good test = Is this something I would/should say to a co-worker in person?*
- Being respectful in communications with the instructor**  
*Good test = Is this something I would/should say to my boss in the workplace?*
- Being respectful of diversity**  
*Good test = Is this a comment/joke that is at some other groups, ethnicity, political etc. expense?*  
Note: Offensive "jokes", slurs or hate speech will NOT be tolerated
  - This will immediately escalate to a second level offense if it occurs.**

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- **Using Non-Profane, Appropriate Language**

*Good test = Is this language you would use in the workplace or in front of your grandmother?*

- **Using proper. NON-"Text speak" Language to make Yourself Easily Understood**

*Good test = Could my older boss understand what I have written?*

**Consequences for Failure to Meet These Expectations**

**Failure to meet these standards will result in the following consequences** in this course:

**1st Level=**

Written warning from the instructor documenting issue

*(No points deductions)*

**2nd Level=**

Mandatory meeting with the instructor and or Department Chair or Division Dean

*(Related assignment/Participation subject to Point Deductions)*

**3rd Level=**

College Disciplinary procedures filed with the NC State Judicial Committee as a violation of the

[NCSC Student Code of Conduct \(Links to an external site.\)](#).

*(Course Grade subject to F)*

**NOTE: For an extreme single incident of disruptive unprofessional behavior I reserve the right to go directly to initiating college disciplinary procedures**

NCSC Disciplinary hearings can result in a variety of consequences, including and up to suspension or being expelled from the college.

**Resources:**

- [University Etiquette 101: How to Deal with Your Professors \(Links to an external site.\)](#)
- [Email Etiquette for Students](#)