



North Central State College

MASTER SYLLABUS

2026-2027

- A. Academic Division: Health Sciences
- B. Discipline: Science
- C. Course Number and Title: BIOL1730 Basic Anatomy & Physiology
- D. Assistant Dean: Dr. Jason Tucker, Ph.D.
- 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:  
  
Open Education Resource
- *Human Biology*
  - Authors: Gabor Gyurkovics
  - Edition/Year: 2021
  - OER LINK:  
[https://bio.libretexts.org/Courses/Community\\_College\\_of\\_Vermont/Human\\_Biology\\_\(Gabor\\_Gyurkovics\)](https://bio.libretexts.org/Courses/Community_College_of_Vermont/Human_Biology_(Gabor_Gyurkovics))
- 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

<b>College-Wide Learning Outcomes</b>	<b>Assessments - - How it is met &amp; When it is met</b>
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:

<b>Outcomes</b>	<b>Assessments – How it is met &amp; When it is met</b>
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>



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North Central State College  
BIOL 1730 SYLLABUS ADDENDUM

Academic Division: Health Sciences Discipline: Biology  
Course Coordinator: Jaydip Das Gupta Ph.D.  
Course Number: BIOL-1730 -920 (Lecture), Course Title: Basic Anatomy and Physiology  
Semester / Session: Summer 2026 (8 weeks session) Start / End Date: 5/26/2026 – 7/16/2026

**Instructor Information**

Name: Jaydip Das Gupta Ph.D. Phone Number: 419-755-4872  
E-Mail Address: Jdasgupta@ncstatecollege.edu  
Office Location: HS 332 Office Hours: None in summer

**I. Topical Timeline (Subject to Change):**

<b>BIOS 1730-920</b>	<b>Lecture Schedule (Online, no set meeting time)</b>
26-May	Ch 1 (Human Body)
	Ch 2 (Basic Chemistry)
1-Jun	Ch 3 (Part I Cell, Body tissues)
	<b>Exam #1 (Ch 1, 2,3)</b>
	Ch 4 (Skin)
8-Jun	Ch 5 (Skeletal system)
	Ch 6 (Muscular system)
	<b>Exam # 2 (Ch 4, 5 and 6)</b>
15-Jun	Ch 7 (Nervous system)
	Ch 8 (Special senses)
22-Jun	Ch 9 (Endocrine)
	<b>Exam # 3 (Ch 7, 8, 9)</b>
	Ch 10 (Blood)
29-Jun	Ch 11 (Cadiovascular)
	Ch 12 (Lymphatic)
	<b>Exam # 4 (Ch 10, 11 and 12)</b>
6-Jul	Ch 13 (Respiratory)
	Ch 14 (Digestive)
	<b>Exam # 5 (Ch 13, 14)</b>
13-Jul	Ch 15 (Urinary)
	Ch 16 (Reproductive)
	<b>Exam # 6 (Comprehensive and Ch 15, 16)</b>

Course Number: BIOL-1730-920  
Semester / Session: Summer 2026 (8 weeks session)

Course Title: Basic Human Anatomy and Physiology  
Start / End Date: 5/26/2026 – 7/16/2026

## II. Course Assignments:

1. Quizzes
2. Tests
3. Skills Testing
4. Independent Studies
5. Homework

## III. Grading and Testing Guidelines:

The overall class grade will be determined as follows:

<b>Lecture and lab attendance:</b>	<b>5%</b>
<b>Lecture quizzes and exams:</b>	<b>65%</b>
<b>Lab quizzes:</b>	<b>30%</b>
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<b>Total grade:</b>	<b>100%</b>

## IV. Examination Policy:

Quizzes: There will be a bunch of quizzes given throughout the semester. There will be about 10 questions. Quizzes CANNOT be taken after the due date/time. If you miss a quiz, you will be graded zero for that quiz. There will be three days to take the quiz online. The time frame of the quiz will be found in the assignment folder.

Lecture exam: There will be six (6) exams as mentioned. Each exam will be worth 100 points. The questions will be a combination of multiple choice, matching, fill in the blanks or any combination. Exams will be uploaded online. The time frame of the exam will be mentioned later. **Exams CANNOT be taken after the due date/time. If you miss an exam, I have the authority to put zero for that missing exam.** It is YOUR responsibility to take the exam on time!

The reasons why a student will be excused from taking an examination:

- a. Hospitalization (with documented verification)
- b. Death in the immediate family (with documented verification)
- c. Personal illness or illness in immediate family - (doctor's excuse required).
- d. Missing exam/quiz for vacation/fun will absolutely not be excused by any means. I have the full authority to grade zero.**

Lab exams: Prof. Amy Elderbroke will be your lab instructor. Follow her lab schedule and quizzes.

## V. Class Engagement/Assignments and Make-Up Policy:

The lecture slides will be uploaded each week with some audio recorded in some slides. The laboratory will be in-person. It is your responsibility to log in and download the slides every week. I will monitor your login dates every week. The instructor needs to be notified as soon as possible if a student will be unable to turn in an assignment on time. Excuses/Extensions (for illness, family emergencies, etc.) can be made on a case-by-case basis, but are granted very rarely and are not guaranteed.

## **VI. 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.**
- **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](#)