



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

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	Average
67–69	D+	1.33	Below Average
63–66	D	1.00	Below Average
60–62	D-	0.67	Below Average
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: Health Sciences Discipline: Biology
Course Coordinator: Jaydip Das Gupta Ph.D.
Course Number: BIOL-1730 -01 (Lecture),
BIOL-1730L-01 (Lab) Course Title: Basic Anatomy and Physiology
Semester / Session: Fall 2026 (16 weeks session) Start / End Date: 8/17/2026 – 12/11/2026

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: See my class schedule

I. Topical Timeline (Subject to Change):

	BIO 1730 Lecture Schedule
	Tues, Thurs 11.30 - 12.55 pm
	Room HSCL 311
18-Aug	Ch 1 (Human body)
20-Aug	Ch 2 (Basic Chemistry)
25-Aug	Ch 2 (Basic Chemistry)
27-Aug	Ch 3 (Part I - Cell)
1-Sep	Ch 3 (Part II - Transport)
3-Sep	Ch 4 (Skin)
8-Sep	Ch 4 (Skin)
	Exam 1 (In-person during lecture or lab)
10-Sep	Ch 5 (Skeletal)
15-Sep	Ch 5 (Skeletal)
17-Sep	Ch 6 (Muscular)
22-Sep	Ch 6 (Muscular)
24-Sep	Ch 7 (Nervous)
29-Sep	Ch 7 (Nervous)
1-Oct	Ch 8 (Special senses)
6-Oct	Ch 8 (Special senses)
8-Oct	Ch 9 (Endocrine)
	Exam 2 (In-person during lecture or lab)
13-Oct	Fall break (No class)
15-Oct	Fall break (No class)
20-Oct	Ch 10 (Blood)
22-Oct	Ch 11 (Cardiovascular)
27-Oct	Ch 11 (Cardiovascular)
29-Oct	Ch 12 (Lymphatic)

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

3-Nov	Ch 12 (Lymphatic)
5-Nov	Exam 3 (In-person during lecture or lab)
10-Nov	Ch 13 (Respiratory)
	Ch 13 (Respiratory)
12-Nov	Ch 14 (Digestive)
17-Nov	Ch 14 (Digestive)
19-Nov	Ch 15 (Urinary)
24-Nov	Ch 15 (Urinary)
26-Nov	Thanksgiving (No class)
1-Dec	Ch 16 (Reproductive)
3-Dec	Ch 16 (Reproductive)
8-Dec	Extra day
11-Dec	Exam 4 (In-person during lecture or lab)

BIO 1730 Lab Schedule
Tues, Thurs 1.30 - 2.55 pm
Room HSCL 321

18-Aug	Lab 1 - Scientific theory
20-Aug	Lab 2 - Macromolecules
25-Aug	Lab 3 - Testing of macromolecules
27-Aug	Lab 3 - Testing of macromolecules
1-Sep	Lab 4 - Diffusion Osmosis and filtration
3-Sep	Lab 5 - The Microscope and Body Organization
8-Sep	Lab 6 - Cytology & Histology
10-Sep	Lab 6 - Cytology & Histology
15-Sep	Lab 7 - Mitosis and the Integumentary System
17-Sep	Lab 7 - Mitosis and the Integumentary System
22-Sep	Lab 8 - Bones
24-Sep	Lab 8 - Bones
29-Sep	Lab 9 - The Skeletal Muscle System
1-Oct	Lab 9 - The Skeletal Muscle System
6-Oct	Lab 10 - The Central Nervous System
8-Oct	Lab 10 - The Central Nervous System
13-Oct	Fall break (No class)
15-Oct	Fall break (No class)
20-Oct	Lab 11 - The Spinal Nerves and Special Senses
22-Oct	Lab 11 - The Spinal Nerves and Special Senses
27-Oct	Lab 12 - Hematology
29-Oct	Lab 13 - Arteries and veins
3-Nov	Lab 14 - Respiratory
5-Nov	Lab 14 - Respiratory
10-Nov	Lab 15 – Digestive system
12-Nov	Lab 15 – Digestive system
17-Nov	Lab 16 - The Urinary System

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19-Nov	Lab 16 - The Urinary System
24-Nov	Thanksgiving (No class)
26-Nov	Lab 17 - The Reproductive System
1-Dec	Lab 17 - The Reproductive System
3-Dec	Lab 18 - Endocrine system
8-Dec	Extra day
11-Dec	Extra day

Please note: This Fall 2026 Laboratory we are introducing completely new format which is a pilot program. So, it is very likely that we may change the date and schedule based on the pace of the class. We may even change the lecture exam date which will be definitely announced much earlier.

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:

Lecture and lab attendance:	5%
Lecture quizzes and exams:	65%
Lab quizzes:	30%

Total grade:	100%

IV. Examination Policy:

Lecture 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.

Lab Quizzes: Similar to lecture, there will be lab quizzes throughout the semester. After each lab section, there will be quiz online, you will have one week to finish.

Lecture exam: There will be four (4) exams as mentioned. Each exam points will be announced later since this is a new format. The questions will be a combination of multiple choice, matching, fill in the blanks or any combination. **Exams will in-person**, either during the lecture time or in the lab. We will announce later. 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.**

***** If you miss any quiz/exam, you have to contact Assistant Dean Dr. Jason Tucker (JTucker@ncstatecollege.edu) or our Dean Leesa Cox (LCox@ncstatecollege.edu) for authorization. Without either of their permission, I have absolutely no authority to grant access to the missing exam.**

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

The lecture slides will be uploaded each week. Everybody should be present during lecture with full attention. Being engaged with phone other than lecture slides during class will not be tolerated. The laboratory will be in-person as usual. 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.

With three consecutive absences in the lecture /lab, instructors have the authorization to withdraw the student from the class and report to the Dean's office.

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)

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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](#)