



# BIOL-121 S01 Human Biology w/Lab

Kathleen Albert

FORT HAYS TECH | NORTH CENTRAL

## COURSE INFORMATION

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An introductory course using exploration of principles and processes common to all living systems as a starting point for the study of human structure and function and the interrelationships between humans and the rest of the biosphere. Lecture will be supplemented with laboratory exercises.

Credits: 4

## CLASS INFORMATION

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Section Number:

Term: Spring    Year: 2025    Start Date: 1/21/2025    End Date: 5/14/2025

## INSTRUCTOR

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Kathleen Albert

Email: [kalbert@fhtechnnc.edu](mailto:kalbert@fhtechnnc.edu)

Office Phone: 785-623-6165

Office Location: HSB-043

Email me with any questions or concerns you have. Please include your full name and the course you are enrolled in.

## TEXTBOOKS

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Biology Mader 17<sup>th</sup> Edition ISBN- 13: 9781260710823 with Connect (this is the website you will use for Connect assignments)

## COURSE COMPETENCIES

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1. Demonstrate an understanding of the nature of science
2. Demonstrate an understanding of the levels or organization and emergent properties of life
3. Demonstrate an understanding of bioenergetics
4. Demonstrate an understanding of the importance of reproduction in maintaining the continuity of life
5. Demonstrate an understanding of applying principles of genetics to unity and diversity of life
6. Demonstrate an understanding of discussing evolution as the mechanism of change in biology
7. Demonstrate an understanding of the principles of ecology
8. Demonstrate laboratory skills and techniques

## GRADING INFORMATION

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- There will be a variety of assessments during this course which will determine your final grade. The various components are as follows:

Assignments	19 assignments x 5 pts per assignment	95 pts
Labs	19 labs x 5 pts per lab	95 pts
Weekly Quizzes	19 quizzes x 10 pts per quiz	190 pts
Discussions	15 discussions x 10 pts per discussion	150 pts
Animations	16 animations x 5 pts per animation	80 pts
<b><i>Total points possible for the course: 610 pts</i></b>		

**Discussions:** Discussions are meant to be interactive between you and your fellow classmates. Since we cannot have classroom conversations these will take the place of them. In order to receive full points on discussions you are required to post an initial response to the questions and then comment on two other classmate's posts. These responses must be well thought out and not a simple one-word answer or a response of good job. The response posts must show you actually read the initial post and have something worthwhile to add.

**Labs:** Labs will be conducted using an online simulation website.

**Smartbook/Assignments:** These activities are to enhance your reading experience and cement the learning objectives we cover each week. Smartbook assignments are not worth points but may be beneficial to complete. Assignments are worth 5 points.

**Quizzes:** Quizzes are 20 questions each worth .5 points. They are multiple choice. When the time is over the quiz will automatically submit to prevent you from going over the time limit.

**Exams:** *Exams/Quizzes may be proctored and the student must make sure that they are fully visible during the test. Hands, arms, upper chest and head should be shown in the screen. No outside materials should be used including notes, cell phones, other computers, and people assisting you.*

### GRADING SCALE

After your numerical grade has been calculated, your letter grade will be determined as follows:

- A 100% -90%
- B 89% - 80%
- C 79% - 70%
- D 69% - 60%
- F 59% and below

### COMPUTATION OF GRADES

- Assignments/Animations= 20%
- Labs= 15%
- Discussions=10%
- Quizzes= 25%
- Exams= 20%

### Due Dates for labs, quizzes and exams:

All work is due on the last day of the week they are contained within.

**Late Assignment Policy:**

No late work is accepted.

**Extra Credit Policy:**

\*\*\*There is no extra credit available for this course

**Course Objectives:** At the completion of this course, the student should understand the basic concepts of human biology, cell biology and molecular genetics as well as disease control methods, disease prevention/treatment and epidemiology.

**Online Course:** An online course uses computer-based technologies (i.e. Moodle) to create an online “classroom.” Students are instructed in course content through online learning: tutorials, testing exercises, group collaborations, independent assignments, and long-range projects. Each individual course provides a schedule of assignments and deadlines. Students need to have adequate computer skills as they will be communicating with the instructor and classmates online. This course is an online course, and you are responsible for ensuring that you can access all course material on a regular basis either from the Fort Hays Tech | North Central campus or from home. Additionally, certain technical abilities will be required, such as installing necessary plug-ins and uploading files. If you have a problem with a personal computer or interrupted network connection, know that you are still responsible for submitting your work on time. **Moodle Support:** <https://ncktc.zendesk.com/hc/en-us>

*Students are responsible for making sure that their assignments are uploaded correctly into Moodle.*

*No handwritten assignments or pictures of assignments will be accepted.*

**Time Commitment:**

A course is measured in credit hours. Each credit hour requires about 45 hours of work. Overall, you should expect to spend approximately 2-3 hours studying for each hour of lecture time and 1-2 hours of lab time. If you find that you have any trouble keeping up with assignments or other aspects of the course, make sure you let your instructor know as early as possible. As you will find, building rapport and effective relationships are key to becoming an effective professional. Make sure that you are proactive in informing your instructor when difficulties arise during the semester so that they can help you find a solution.

**CELL PHONE POLICY**

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Use of cellular phones or any other electronic communication devices for any purpose during a class or exam session is prohibited unless expressly permitted by the instructor.

**CLASSROOM DECORUM**

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Netiquette is online etiquette. It is important that all participants in online courses be aware of the proper online behavior and respect each other.

Use appropriate language for an educational environment:

- Use complete sentences
- Use proper spelling and grammar
- Avoid slang and uncommon abbreviations
- Do not use obscene or threatening language

Remember that the College values diversity and encourages discourse. Be respectful of differences while engaging in online discussions. For more information about Netiquette, see *The Core Rules for*

*Netiquette* (<http://www.albion.com/netiquette/corerules.html> (Links to an external site.)Links to an external site.) by Virginia Shea.

## ATTENDANCE

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### GUIDELINES:

Online attendance is highly encouraged to be successful in this class. Attendance online is defined as a learner who logs into the classroom and completes at least two activities in the course each week. Students are required to complete an assignment the first week of the class to maintain their enrollment in the course.

## ACADEMIC HONESTY

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Membership in the Fort Hays Tech | North Central learning community imposes upon the student a variety of commitments, obligations, and responsibilities. It is the policy of this College to impose sanctions on students who misrepresent their academic work. Appropriate classroom instructors or other designated persons will select these sanctions consistent with the seriousness of the violation and related considerations.

Examples of academic dishonesty include but are not limited to:

- Plagiarism: i.e. taking someone else's intellectual work and presenting it as one's own. Each department set standards of attribution. Faculty will include disciplinary or class-specific definitions in course syllabi.
- Cheating is unacceptable in any form. Examples include consultation of books, library materials, notes or intentional observation of another student's test on paper or a computer screen; accessing another student's answers from an exam to be given or in progress; submission of falsified data; alteration of exams or other academic exercises; and collaboration on projects where collaboration is forbidden.
- Falsification, forgery or alteration of any documents pertaining to assignments and examinations.
- The use of AI generated content from AI tools such as, but not limited to, ChatGPT, Dall-E, Co-Pilot, etc., is up to faculty discretion per course as stipulated within the course syllabus. Submitting AI generated work as your own, without attribution, will be considered academic dishonesty.
- In courses where the use of AI tools are not permitted as stipulated within the course syllabus, work submitted using AI will be considered academic dishonesty.
- Students who participate in, or assist with, cheating or plagiarism will also be in violation of this policy.

Classroom instructors and/or administrators will assess sanctions for violations of this policy. The seriousness of the violation will dictate the severity of the sanction imposed. Academic sanctions may include but are not limited to any of the following:

1. verbal or written warning
2. lowering of grade for an assignment
3. lowering of term grade

Administrative sanctions may include but are not limited to either of the following

1. Suspension from the course, program, or College
2. Dismissal from the course, program, or College

## **FORT HAYS TECH | NORTH CENTRAL MISSION STATEMENT**

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Fort Hays Tech | North Central delivers applied, innovative and personalized education to empower learners, enrich lives, develop skilled professionals and strengthen economic systems.

### **Vision Statement**

Fort Hays Tech | North Central is dedicated to being a leader in workforce development by maximizing value for students, employers and communities through educational excellence.

### **Core Values**

Achieving EXCELLENCE with INTEGRITY through

DEDICATION

INNOVATION

COLLABORATION

COMMUNICATION

## **FORT HAYS TECH | NORTH CENTRAL NON-DISCRIMINATION POLICY**

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Fort Hays Tech | North Central is committed to nondiscrimination on the basis of race, color, gender, ethnic or national origin, sex, sexual orientation, gender identity, marital status, religion, age, ancestry, disability, military status, or veteran status in admission or access to, or treatment or employment in, its programs and activities. Further, it is the policy of the college to prohibit harassment (including sexual harassment and sexual violence) of students and employees. Any person having inquiries concerning the college's compliance with the regulations implementing Title VI, Title VII, Title IX, Section 504, and the Americans with Disabilities Act Amendments Act is directed to the VP of Student and Instructional Services (Section 504/ADA Compliance Officer and Title VI, Title VII, & Title IX Compliance Officer) at (785)738-9055, [cisbell@fhtechnnc.edu](mailto:cisbell@fhtechnnc.edu), or PO Box 507, 3033 US Hwy 24, Beloit, KS 67420.

## **FORT HAYS TECH | NORTH CENTRAL TOBACCO USE POLICY**

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The use of tobacco products in any form and/or electronic cigarettes is prohibited in, or within ten (10) feet of any building owned, leased, or rented by the College.

## **FORT HAYS TECH | NORTH CENTRAL WEAPONS POLICY**

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Fort Hays Tech | North Central prohibits the possession and use of firearms, explosives, and other weapons on Fort Hays Tech | North Central property, with certain limited exceptions, as provided below. This policy is in accordance with the Kansas Board of Regents ("Board") Policy and state law, K.S.A. 75-7c01, et seq. Definitions For purposes of this policy:

1. The term "weapons" includes:

- a. Any object or device which will, is designed to, or may be readily converted to expel bullet, shot or shell by the action of an explosive or other propellant;
- b. Any handgun, pistol, revolver, rifle, shotgun, or other firearm of any nature
- c. Any BB gun, pellet gun, air/CO2 gun, stun gun or blowgun;
- d. Any explosive, incendiary or poison gas (A) bomb, (B) mine, (C) grenade, (D) rocket having a propellant charge of more than ¼ ounce;
- e. Any incendiary or explosive material, liquid, solid, or mixture equipped with a fuse, wick or other detonating device;
- f. Any tear gas bomb or smoke bomb; however, personal self-defense items containing mace or pepper spray shall not be deemed to be a weapon for the purposes of this policy;
- g. Any knife, commonly referred to as a switch-blade, which has a blade that opens automatically by hand pressure applied to a button, spring or other device.

## OVERVIEW FOR STUDENTS WITH DISABILITIES

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Fort Hays Tech | North Central is dedicated to providing equal access and opportunity to all campus programs and services for students with disabilities. We are committed to providing reasonable accommodations in accordance with applicable state and federal laws including, but not limited to, Section 504 and 508 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. We strive to create a safe, respectful and inclusive environment and promote awareness, knowledge and self-advocacy.

Fort Hays Tech | North Central acknowledges that traditional methods, programs and services are not always appropriate or sufficient to accommodate the limitations experienced by some qualified persons with disabilities. When a student's disability prevents him/her from fulfilling a course requirement through conventional procedures, consideration will be given to alternatives, **keeping in mind that academic standards must be maintained.**

Services are provided through Student Accessibility Services (SAS) staff located in the Student Success Center, on the Beloit Campus, and in Student Services, on the Hays Campus.

- Director of Learning Services, may be reached at [1-785-738-9020](tel:1-785-738-9020); or by mail at [Fort Hays Tech | North Central, 3033 US Hwy 24, Beloit, KS 67420](#).

### ***Student Responsibilities***

Students requesting support services will need to register ("self-disclose" and complete Student Accessibility Services Intake and Consent Form), provide appropriate documentation (if available) including how the disability affects academic performance and suggested accommodations, and communicate with the Director of Learning Services as part of the interactive process to create an *Educational Accommodation Plan* that will notify Instructors of approved accommodations, services and/or auxiliary aids.

Students are encouraged to make timely and appropriate disclosures and requests, at least two weeks in advance of a course, program, or activity for which an accommodation is requested (or as soon as realistically possible) to allow adequate time for accommodation services to be set in place.

### ***Accommodations, Academic Support Services, or Auxiliary Aids***

Reasonable accommodations including academic support services and auxiliary aids are provided to allow students with disabilities an equal opportunity to participate in and benefit from our educational programs. Accommodations will be provided on a case-by-case basis determined by student request, documentation, intake interview, Educational Accommodation Plan team, and assessment of individual needs and course requirements.

#### **Reasonable testing accommodations may include, but are not limited to:**

- Extended testing time
- Reduced distraction testing environment
- Test reader and/or scribe
- Use of calculator

#### **Academic support services/auxiliary aids may include, but are not limited to:**

- Note-taking assistance (second set of notes, power point slides, or other visual aids provided)
- Sign Language Interpreter
- Preferential seating in the classroom
- Large print exams, handouts, signs, etc.
- Telecommunications devices
- Use of Assistive Technology

Accommodations may not fundamentally alter the nature of the program or activity, lower academic standards, present undue financial or administrative burden on the college, or pose a threat to others or public safety.

Additionally, some accommodations and services cannot be provided, such as personal devices or assistance with personal services.

Auxiliary aids may be available through a variety of sources available to individual students. The student may make a request in obtaining specialized support services from other resources such as Vocational Rehabilitation Services (VR), Recordings for the Blind, Kansas Talking Book Service, etc. For example, Vocational Rehabilitation may fund such items as transportation to the institution, tuition, textbooks, hearing aids, and other individually prescribed medical devices.

If at any time throughout the academic year, a student feels that the agreed upon accommodations are not being followed or that alternate accommodations need to be provided, the student should notify Student Accessibility Services (SAS) staff. Fort Hays Tech | North Central is committed to student success; however, we do not require students to use accommodations. The decision of when to utilize approved accommodations or services is up to the student. Integration, self-advocacy and individual responsibility are promoted and expected.

### ***Grievance Procedure***

Any student who believes he or she has been subjected to discrimination on the basis of disability or has been denied access or accommodations, shall have the right to invoke the Grievance Procedure.

Students are encouraged to first discuss their concerns with SAS. An attempt will be made to resolve the issue(s) causing concern by assisting the student in discussions with the person(s) involved. Most situations are positively resolved through this process. If the student does not feel the concern or complaint has been appropriately resolved, he or she should contact the [Vice President of Student and Instructional Services](#) at 1-800-658-4655 or [PO Box 507, 3033 US Hwy 24, Beloit, KS 67420](#), where grievance procedures are filed for all students, including students with disabilities.

If the complaint is not resolved at the College level, a student may choose to file a complaint with the [Office for Civil Rights](#) at 1-816-268-0550 or [U.S. Department of Education, One Petticoat Lane, 1010 Walnut Street, Suite 320, Kansas City, MO 64106](#).

### ***Confidentiality***

All information regarding a student's disability is confidential. All documentation will remain separate from academic records and will not be released to an individual or source external to Fort Hays Tech | North Central without the student's written consent. In order to provide effective services, it may be necessary to communicate limited information on a need-to-know basis regarding disability-related needs to Fort Hays Tech | North Central faculty and/or staff.

## **REASONABLE SUSPICION**

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If reasonable suspicion of substance abuse exists regarding an employee or student based on objective criteria (including, but not limited to, behavior, appearance, demeanor, detection of the odor of alcohol or any controlled substance), the employee or student will be requested to consent to drug testing performed by Fort Hays Tech | North Central's contract vendor at the expense of the college.

- A. A college administrator (or their designee) shall drive the employee or student to the vendor's site for drug testing and shall return the employee or student to his/her residence (or arrange for transportation) following the testing.
- B. Test results shall be sent directly to the college administrator, with a copy also sent to the employee or student. All test results will be considered confidential, access to the results will be limited to institutional personnel who have a legitimate need-to-know.
- C. In the event of a positive test result, the employee or student may request a retest of the sample at the employee or student's expense. The request must be submitted within 24 hours.

- D. Positive results for any illegal drugs, or prescription drugs (either not prescribed for the employee or student, or at levels above the prescribed dosage), or blood alcohol level of 0.04 or greater shall be grounds for disciplinary action, up to and including termination or expulsion.
- E. Refusal to provide a specimen for this testing shall be treated as a positive drug test result.
- F. Test results or specimens that have been determined to be altered by the employee or student shall be grounds for disciplinary action, up to and including termination or expulsion.
- G. If the employee or student tests positive for an authorized prescription drug which may impair his/her performance or judgment, the employee or student may not be permitted to participate in college activities until he/she provides a doctor's release.



## RIGHT TO MODIFY THE SYLLABUS

The instructor reserves the right to modify the syllabus during the semester. Students will be notified of any changes.

### Human Biology Tentative Schedule, Spring 2025

		Ch. Readings	Assignments & Exams – Due Dates
1	Jan 20	Ch. 1 Exploring Life & Science	Assignment Ch. 1 Discussion Quiz Lab
2	Jan 27	Ch. 2 Chemistry of Life	Assignment Ch. 2 Animation Discussion Quiz Lab
3	Feb 3	Ch. 3 Cell Structure & Function Ch. 4 Tissues, Organ Systems & Homeostasis	Assignments Ch. 3 & 4 Animation Discussion Quizzes Lab
4	Feb 10	Ch. 5 Cardiovascular System: Heart & Blood Vessels	Assignment Ch. 5 Animation Discussion Quiz Lab
5	Feb 17	Ch. 6 Cardiovascular System: Blood	Assignment Ch. 6 Animation Discussion Quiz Lab
6	Feb 24	Ch. 7 Lymphatic & Immune Systems	Assignment Ch. 7 Animation Discussion Quiz Lab
7	Mar 3	Ch. 8 Biology of Infectious Diseases	Assignment Ch. 8 Animation Discussion Quiz Lab
8	Mar 10	Ch. 14 Nervous System Ch. 15 Senses	Assignments Ch. 14 & 15 Discussion Animations Quizzes Labs
	Mar 17	<b>SPRING BREAK</b>	

9	Mar 24	Ch. 17 Reproductive System Ch. 18 Development & Aging	Assignments Ch. 17 & 18 Animations Discussion Quiz Lab
10	Mar 31	Ch. 19 Cell Division	Assignment Ch. 19 Animation Discussion Quiz Lab
11	Apr 7	Ch. 20 Cancer	Assignment Ch. 20 Animation Discussion Quiz Lab
12	Apr 14	Ch. 21 Genetic Inheritance	Assignment Ch. 21 Animation Discussion Quiz Lab
13	Apr 21	Ch. 22 DNA Biology & Technology	Assignment Ch. 22 Animation Discussion Quiz Lab
14	Apr 28	Ch. 23 Human Evolution	Assignment Ch. 23 Animation Discussion Quiz Lab
15	May 5	Ch. 24 Ecology & the Nature of Ecosystems Ch. 25 Human Interactions with the Biosphere	Assignments Ch. 24 & 25 Animations Quizzes Labs Exam