



NORTHWEST FLORIDA STATE COLLEGE

100 College Boulevard, E. • Niceville, FL 32578-1347 • (850) 678-5111 • www.nwfsc.edu

INSTRUCTOR INFORMATION

- **PROFESSOR: KASSIE GARFIELD, Ed.D., PT, DPT, OCS, ATC, COMT**
- **EMAIL: GARFIELK@NWESC.EDU**
- **PHONE: 850-863-6527 EXT: 5527**
- **OFFICE HOURS: RM 413: TBD**
- **OPEN LABS RM 613: TUESDAY: 9-10, 1-2PM**
- **ZOOM ID: 201 915 8692**

INSTRUCTOR COMMUNICATION

Your NWFSC email is the official communication medium of the College. Please check your College email regularly for any class and College notifications. The instructor will respond within **36 hours, Monday through Friday.**

COURSE INFORMATION

- **Course Subject and Number: 1085C Anatomy and Physiology 1**
- **Course Name and Number: 1085C CRN 20069**
- **Class Location (Campus/Building/Room): FWB Rm 613**
- **Class Modality: Hybrid**
- **Class Days: Tuesday**
- **Class Times: 10-1210**
- **Online Classroom with Gradebook: [Canvas class shell](#)**
- **Final Exam: See Course Agenda**

COURSE DESCRIPTION

Description from current College [Catalog](#).

COURSE GOALS

Include broad learning goals such as “Students will develop an appreciation of the different genres of classical art.”

ANATOMY AND PHYSIOLOGY I BSC1085C 4 CREDIT HOURS. A STUDY OF THE HUMAN ORGANISM TO INCLUDE CELLS, TISSUES, SKELETON, MUSCULAR SYSTEM, AND NERVOUS SYSTEM.

COURSE-LEVEL STUDENT LEARNING OUTCOMES

NS-1 THE STUDENT WILL DEMONSTRATE AN UNDERSTANDING OF THE SCIENTIFIC METHOD, DISTINGUISHING BETWEEN FACT, SCIENTIFIC LAW, HYPOTHESES, AND THEORY; AND RECOGNIZING THE DIFFERENCE BETWEEN SCIENTIFIC AND NONSCIENTIFIC EXPLANATIONS.

NS-2 THE STUDENT WILL INTERPRET DATA, GIVEN IN PROBLEM FORM OR OBTAINED EXPERIMENTALLY, TO DEMONSTRATE PROBLEM-SOLVING SKILLS (CRITICAL THINKING), DEVELOP TESTABLE EXPLANATIONS, OR DISTINGUISH THE DIFFERENCE BETWEEN CORRELATION AND CAUSATION.

NS-3 THE STUDENT WILL DEMONSTRATE FUNDAMENTAL KNOWLEDGE OF THE TERMINOLOGY, MAJOR CONCEPTS, AND THEORIES OF AT LEAST ONE FIELD WITHIN THE PHYSICAL SCIENCES, AND IN THE BIOLOGICAL SCIENCES.

NS-4 THE STUDENT WILL RELATE SCIENTIFIC DISCOVERIES AND THEORIES TO BROADER AREAS OF HUMAN CONCERN.

COURSE OBJECTIVES

- 1. THE STUDENT WILL DEMONSTRATE UNDERSTANDING OF MAN'S PLACE IN NATURE, THE ANIMAL NATURE OF MAN, THE HISTORY OF THE SCIENCE OF HUMAN ANATOMY AND PHYSIOLOGY, MAN – AN ORGANISM IN DYNAMIC EQUILIBRIUM, AND THE CONCEPTS OF PHYSIOLOGICAL REGULATION, AND FEEDBACK, AND HOMEOSTASIS MECHANISMS.**
- 2. THE STUDENT WILL DEMONSTRATE UNDERSTANDING OF THE BASIC STRUCTURE AND FUNCTION, THE ORGANIZATION OF THE BODY TO INCLUDE THE CELL (THE STRUCTURE AND FUNCTION OF ITS COMPONENTS), CELL DIVISION, AND THE CHEMICAL CONSTITUENTS OF THE CELL, THE ACQUISITION OF MATERIALS BY THE CELL, TISSUES, ORGANS, AND SYSTEMS.**
- 3. THE STUDENT WILL DEMONSTRATE UNDERSTANDING OF THE GENERAL CHARACTERISTICS AND CLASSIFICATION OF TISSUES; TO INCLUDE EPITHELIA, CONNECTIVE TISSUE, MUSCULAR TISSUE AND NERVOUS TISSUE, AND GLANDS AND BONE FORMATION.**
- 4. THE STUDENT WILL DEMONSTRATE UNDERSTANDING OF BODY FLUIDS AND THEIR REGULATION TO INCLUDE COMPARTMENTS, WATER BALANCE, COMPOSITION OF COMPARTMENT, CONTENTS AND EXCHANGE BETWEEN COMPARTMENTS AND VOLUME, REGULATION OF BODY FLUID REACTIONS, INCLUDING ACIDS AND BASES, BUFFERS, SOURCE OF HYDROGEN IONS AND THEIR REMOVAL.**
- 5. THE STUDENT WILL DEMONSTRATE UNDERSTANDING OF THE GENERAL BODY STRUCTURE TO INCLUDE TERMS OF DIRECTION, PLANS OF SECTION, GENERAL SURFACE ANATOMY, REGIONAL SURFACE ANATOMY, E.G., HEAD, NECK, TRUNK, AND LIMBS.**

6. THE STUDENT WILL DEMONSTRATE UNDERSTANDING OF THE INTEGUMENTARY SYSTEM TO INCLUDE THE STRUCTURE OF THE SKIN, THE APPENDAGE OF THE SKIN AND THE CHARACTERISTICS AND FUNCTIONS OF THE SKIN, TO INCLUDE MECHANICAL PROPERTIES, ELECTRICAL BEHAVIOR, PERCUTANEOUS ABSORPTION, SENSORY FUNCTIONS, THERMOREGULATION, SYNTHETIC FUNCTIONS, BURNS, RASHES, AND PIGMENTATION.
7. THE STUDENT WILL DEMONSTRATE UNDERSTANDING OF THE CLASSIFICATION OF JOINTS.
8. THE STUDENT WILL DEMONSTRATE UNDERSTANDING OF THE SKELETAL SYSTEM TO INCLUDE DEFINITION, KINDS OF SKELETON, FUNCTIONS, CLASSIFICATION OF BONES, SURFACE FEATURES OF BONES, ORGANIZATION OF THE SKELETON, THE SKULL AND THE VERTEBRAL COLUMN.
9. THE STUDENT WILL DEMONSTRATE UNDERSTANDING OF THE MUSCULAR SYSTEM TO INCLUDE STRUCTURE OF SKELETAL MUSCLE, ORGANIZATION INTO MUSCLES, NEUROMUSCULAR JUNCTION, PHYSIOLOGY OF MUSCULAR ACTIVITY, ENERGY FOR ACTIVITY, TYPES OF CONTRACTION IN SKELETAL MUSCLE, TENDONS AND BURSAE, ACTIONS, THE CLASSIFICATIONS OF MUSCLES, MUSCLES OF THE HEAD AND NECK (FACIAL, CRANIAL, MASTICATION, NECK AND THOSE ASSOCIATED WITH HYOID BONE), MUSCLES OF VERTEBRAL COLUMN (FLEXORS, EXTENSORS, ABDUCTORS, AND ROTATORS), AND THE MUSCLES AND MOVEMENTS POSSIBLE IN THE FOLLOWING REGIONS: THORAX, PECTORAL GIRDLE, SHOULDER JOINT, FOREARM, HIP AND KNEE JOINT, AND ANKLE AND FOOT.
10. THE STUDENT WILL DEMONSTRATE UNDERSTANDING OF THE NERVOUS SYSTEM TO INCLUDE, 1) THE NEURON, ITS STRUCTURE AND FUNCTION, THE NERVE IMPULSE, SYNAPSE, STIMULUS, RECEPTORS, ELECTRICAL DISCHARGE BY NEURONS, 2) THE REFLEX ARC, 3) THE ORGANIZATION OF THE NERVOUS SYSTEM; CENTRAL, PERIPHERAL, SPINAL AND CRANIAL NERVES, THE AUTONOMIC NERVOUS SYSTEM, 4) THE BRAIN; CEREBRUM, THALAMUS, BASAL GANGLIA, MID BRAIN, CEREBELLUM, MEDULLA, 5) MOTOR CONTROL, PATHWAYS, PROPRIOCEPTION COORDINATION, 6) SENSORY PERCEPTION, LOCALIZATION, ASSOCIATION AREAS, LEARNING; PATHWAYS, 7) EMOTION, MOTIVATION, MEMORY, SLEEP, EEG, 8) VENTRICLES AND CEREBROSPINAL FLUID, MENINGES.
11. THE STUDENT WILL DEMONSTRATE UNDERSTANDING OF THE SPECIAL SENSE TO INCLUDE, 1) SMELL AND TASTE, 2) THE EAR, PINNA, MIDDLE EAR, AUDITORY TUBE, COCHLEA, 3) THE EYE; ANATOMY OF EYE, EYE MUSCLES, RETINA FUNCTION, DISORDERS OF THE EYE.

COURSE PREREQUISITES

None

COURSE MATERIALS

McGraw-Hill ConnectPlus access code: e-book for Seeley's Anatomy & Physiology 13th Ed. with required lab human cadaver dissection tool APR (Anatomy & Physiology Revealed) access. Students may also need a webcam-enabled computer/laptop or an iPad. McGraw-Hill Connect registration link is required for hybrid course due to online assignments and labs. Due dates in McGraw Hill allow for access to content all semester, although due dates for McGraw-Hill work is due by Unit 1 test, for unit 1, etc. Dates in the syllabus are correct.

ASSIGNMENTS, GRADING SCHEME AND PROCEDURES

Assignments

Enter details about tests, homework, or quizzes. Include weighting of grade activities and method for determining final grade.

Assignment Category	Points/Percentage of Grade	Due Date
Exams	30% (10% each)	See Agenda
Final Exam	15%	See Agenda
Final Lab Exam	15%	See Agenda
Essays/Canvas Assignments	15%	See Agenda
McGraw Hill Homework	15%	See Agenda
Quizzes	10%	See Agenda
Total	100%	

Grading Scheme

Grade	Range
A	90 – 100 %
B	80 – 89 %
C	70 – 79 %
D	60 – 69 %
F	59 and less %

Assignment Schedule

Week	In Class/Schedule	Homework/Online Work
1/13	Course introduction (see video); Canvas instructions; McGraw-Hill Connect overview; Ch. 1 The Human Organism (54) Ch 2: The Chemical basis of Life (70) Lab: The Skull Please Take Online quiz on Syllabus due 8/26	Required assignments: Body Position (APR) A&P Revealed: Body Orientation Ch 1 Assessment Concept Overview Interactive: Chemistry Ch 2 Assessment The Skull (APR) Recommended: Ch 1: The Human Organism. This is the chapter reading and a quiz Ch 1 Assignment Ch 2 Chemical Basis of Life (reading and quiz) Ch 2 Assignment

1/20	Finish Ch 2 Ch. 3 Cell Biology (80) Ch 7 The Skeletal System (bone nomenclature slide 6-7) Quiz #1 on last week's material Lab: The Vertebra Please Take Online quiz on Syllabus due 8/26	Required assignments: Ch 3 Assessment A&P Revealed: Cells and Chemistry Concept Overview Interactive: Cells The Spine (APR) APR: Axial Anatomy Cell Biology Lab Simulation Recommended: Ch 3 Cell Biology (reading and quiz) Ch 3 Assignments
1/27	Ch 4 Tissues (66) Ch. 5 Integumentary System (41) Quiz #2 on last week's material Lab: The Pelvis	Required Assignments: A&P Revealed: Tissues Ch 4 Assessment Ch 5 Assessment A&P revealed: Integumentary Pelvis APR Review Ch 7 as needed Tissue Virtual Lab Recommended: Ch 4 Tissues (reading and quiz) Ch 4 Assignments Concept Overview Interactive: Histology Ch 5 Integumentary system (reading and quiz) Ch 5 Assignment Concept Overview Interactive: Integumentary
2/3	Finish Ch 5 Quiz #3 on last week's material Review On Unit1/bones ID	Required Assignments: Catch up on McGraw Hill Study
2/10	EXAM #1: Chapters 1-5 2 Short answer, 50 MC, 15 Bone IDs Respondus Lock Down Browser QUIZ due before test (this is just to get you to familiarize yourself with this software)	Study Short Answer Black Board Assignment Due by Test Bring Computer to Class (if you do not have a laptop, I have computers) McGraw Hill Unit 1 HW Due by class time
2/17	Ch. 6 Skeletal System: Bones & Bone Tissue (56) Ch 7 (71) Ch. 8 Joints and Movement; Skeleton lab (53) Lab: Scapula, Sternum, Clavicle, Rib	Required Assignments: Ch 6 Assessment APR Bone Histology APR Bone Histology Animation APR Ribs/Thoracic APR scapula/humerus A&P Revealed: Skeletal system Ch 8 Assessment Review Ch 7 as needed Recommended: Ch 6 Skeletal System (reading and quiz) Ch 6 Assignments Ch 8 Joints and Movement (Reading and quiz) Ch 8 Assignments Concept Overview Interactive: Articulations
2/24	Finish Ch 8 Quiz #4 on last week's material Start Ch 9 Lab: Humerus, radius, ulna	Required Assignments: Ch 9 Assessment A&P Revealed: Muscular System APR radius/ulna

		APR scapula/humerus Review Ch 7 as needed Recommended: Ch 9 Muscular system (reading and quiz) Concept Overview Interactive: Muscular System Ch 9 Assignments
3/3	Ch. 9 Muscular System: Histology & Physiology (110) Quiz #5 on last week's material Lab: hand bones, muscles Osteoporosis assignment Due by class	Required Assignments: Ch 10 Assessment Muscle APR assignment APR wrist and hand Muscle Contractions LAB Resting Membrane Potential Lab Simulation Temporal and Spatial Summation Lab Review Ch 7 as needed Recommended: Ch 10 Assignments Concept Overview Interactive: Muscle Physiology Ch. 10 Muscular System: Gross Anatomy (reading and quiz)
3/10	Ch. 10 Muscular System: Gross Anatomy (77) Action Potential Activity Unit 2 Review Quiz #6 on last week's material	Required Assignments: Catch up on McGraw Hill Study
3/17	SPRING BREAK	Tennis anyone?
3/24	EXAM #2: Chapters 6-10	Study Short Answer Black Board Assignment Due by Test McGraw Hill Unit 2 HW due by start of class
3/31	Ch. 11 Functional Organization of Nervous Tissue; (83) Ch. 12 Spinal Cord and Nerves (47) Lab: Femur	Required Assignments: Ch 11 Assessment Femur Anatomy (APR) Brain Anatomy (APR) A&P Revealed: Nervous System Ch 12 Assessment Spinal Nerve Review (APR) Virtual Lab: Demonstrate Monosynaptic Reflexes Nerve Cell LAB Recommended: Ch 11/12 Chapter reading and quiz Ch 11/12 Assignments
4/7	Ch. 13 Brain and Cranial Nerves; Sheep Brain Dissection; (70) Quiz #7 on last week's material Lab: Dissection of brain	Required Assignments: Ch 13 Assessment Brain and Cranial Nerves (APR) Recommended: Ch 13/14 Assignments Ch 13/14 reading and quiz
4/14	Ch. 14 Integration of Nervous System Functions (70) Lab: Tibia, fibula, foot	Required Assignments: Ch 14 Assessment Review Ch 7 as needed Tibia/fibula/Foot (APR)

	Quiz #8 on last week's material	Recommended: Ch 13/14 Assignments Ch 13/14 reading and quiz
4/21	Ch. 15 The Special Senses (92) Special Senses Lab Review for Unit 3 Test Review for Lab Final Quiz #9 on last week's material Ch. 16 Autonomic Nervous System (online) ALS/MS/Parkinson's/Alzheimer's Assignment Due	Required Assignments: Ch 15 Assessment Eyes (APR) Concept Overview: The sense Virtual Lab: Eye and Vision - Accommodation of the Lens REQUIRED Ch 16 Assessment Recommended: Ch 15/16 Assignments Ch 15/16 reading and quiz
4/28	EXAM #3: Chapters 11-16	Required Assignments: Study Short Answer Black Board Assignment Due by Test McGraw Hil Hw unit 3 Due
5/5	LAB EXAM Bony, brain and muscle ID: timed exam. In person Review for Final After	Required Assignments: Study Cumulative Final Written ONLINE Due by 5/5 11/59PM

OPTIONAL SPACE FOR INSTRUCTOR

Include *optional* instructor guidelines for items such as:

- Attendance policies: I do take attendance and do have the right to fail a student with more than 3 missed classes. This is equivalent to 3 missed weeks of class due to the hybrid nature of this course. Quizzes are given every day in class and although I do allow make-ups (NOT RETAKES), I do have the right to not allow for make ups if there is egregious loss of class time.
- Make-up work: I do not give extra credit. I do take late assignments but there is a grade penalty for this. Please submit late work, as it is better than a zero.
- Technical difficulties: If a test is given online, and there are technical difficulties, I must receive an email immediately describing the situation

STUDENT EXPECTATIONS AND RESOURCES

NWFSC aims for excellence in education and scholarly pursuits. Campus policies and procedures support this goal by protecting the health, safety, welfare, and property of the College and its students. To view all campus policies, please see the [college catalog](#). Several essential policies are provided below with the corresponding link to the full policy for your review.

NWFSC POLICY	DESCRIPTION
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<p><u>Academic Integrity</u></p>	<p>Students are expected to behave responsibly as members of the College community and be honest and forthright in their academic endeavors. This includes the use of generative AI tools. Using genAI in any form to substantially complete an assessment is prohibited, except where explicitly allowed by the instructor.</p> <p>Any time the instructor suspects there is a violation of Academic Integrity or there is a reported Academic Integrity Incident, the instructor is required to investigate it as outlined in the Academic Integrity section of the handbook (linked to the left). The instructor will provide information to the student about the procedure, the complaint, the findings, and any consequence imposed.</p> <p>Students are also expected to behave professionally and refrain from disrupting other students' learning environments.</p>
<p><u>Accommodations</u></p>	<p>The <u>Accommodation Resource Center</u> at Northwest Florida State College is committed to providing equal access and opportunities for educational success to all students with disabilities as guided by the American Disabilities Act and other disability-related laws.</p>
<p><u>Attendance</u></p>	<p>Regular attendance and participation in the course is expected. All students should adhere to the College calendar. For dual enrolled students, high school holidays may not be College holidays.</p>
<p><u>Tutoring Services</u></p>	<p>Tutoring services are available in person and online.</p>
<p><u>Counseling Services</u></p>	<p>All actively enrolled students can receive an initial assessment and up to five therapeutic sessions with a Behavioral Health provider at no cost to the student.</p>
<p><u>Student Code of Conduct</u></p>	<p>Students are expected to adhere to the rules, regulations, and policies outlined in the Student Code of Conduct.</p>
<p><u>Student Complaints</u></p>	<p>NWFSC desires to resolve student grievances, complaints, and concerns expeditiously, fairly, and in an amicable manner. A student who desires to resolve a grievance may initiate the resolution process using the information in the link provided to the left.</p>
<p><u>Student Rights and Responsibilities</u></p>	<p>All students should review the Student Rights and Responsibilities section of the Student Handbook to understand their role as a student.</p>

OTHER IMPORTANT INFORMATION

TECHNICAL SKILLS AND SPECIALIZED TECHNOLOGY FOR ONLINE COURSES

This course is partially online. Students must provide their device(s) to access and complete this class online. In addition to baseline word processing skills and sending/receiving emails with attachments, students will be expected to search the Internet and upload/download files. If you encounter technology challenges using course resources in the Learning Management System, email the Center for Innovative Teaching and Learning at online@nwfsc.edu or call 850-729-6464. Laptops are provided for students in class to take exams if needed.

EMERGENCY COLLEGE CLOSURE

This course's schedule, requirements, and procedures are subject to change in the event of unusual or extraordinary circumstances. If the College closes for inclement weather or another emergency, any exams, presentations, or assignments previously scheduled during the closure period will automatically be rescheduled for the first regular class meeting held once the college reopens. If changes to graded activities are required, students will not be penalized due to the adjustments but will be responsible for meeting revised deadlines and course requirements.

ACADEMIC INTEGRITY TOOLS

Northwest Florida State College subscribes to Turnitin, an online plagiarism detection and prevention service. By enrolling in this class, students consent to upload their papers to Turnitin, where they will be checked for plagiarism. Papers submitted to Turnitin may be saved as source documents within these databases to detect plagiarism in other papers. Please note: All assignments submitted in this course are analyzed for plagiarism and originality.

This course supervises exams through an online proctoring tool that will monitor you while completing course assessments. Northwest Florida State College authorizes the use of approved online proctoring solutions, such as Respondus, to promote academic integrity. These solutions have been approved by NWFSC Academic Affairs and NWFSC IT to be used in course assessments. The Respondus solution may monitor assessments by a variety of means, such as but not limited to, viewing and recording through your computer's webcam, monitoring for noise in the room through your computer's microphone and speaker system, monitoring for other internet usage while taking the assessment, and recording keystroke and visual images. The College has authorized these approved online proctoring providers to perform this service for the purpose of maintaining academic integrity. Information gathered through the proctoring solution is used by the College to ensure academic integrity in testing and may result in a complaint against you under the Academic Integrity Policy or Student Code of Conduct, should the College have reason to believe either policy has been violated. By registering for this course and maintaining your enrollment and not dropping the course prior to the add/drop deadline, you freely and voluntarily consent to the online proctoring requirement in this course.

ACADEMIC CONTINUITY PLAN

NWFSC is dedicated to protecting the health and well-being of its students, staff, and faculty. The College is dedicated to working with faculty and students to ensure timely course and program completion during emergencies. In the event of a College closure, the format of this course may be modified to enable completion of the course through other means, including but not limited to

online course delivery through online classrooms. Check your RaiderNet College email and LMS classroom online for any updates.

WELCOME TO CLASS

Thank you for choosing NWFSC for your education—and welcome to class! Let's talk Anatomy!