

INSTRUCTOR:	Dr. Chris Pulido	E-MAIL:	cpulido@alvincollege.edu
OFFICE:	S245 (Classroom)	PHONE:	281-797-8822 (cell)
OFFICE HOURS:	By appointment		
WEBSITE:	www.alvincollege.edu or web address for individual discipline/program, if applicable		

WELCOME TO ACC:

Course Title: Neuroanatomy & Physiology

Course Number: ENDT-1310-HY01

Credit Hours: 3

Lecture Hours: 1.5

Lab Hours: 0

Total Contact Hours: 1.5

Term and Year: Fall 2018

Class Days & Times: Friday 1:30-3:00

Classroom Location: S245

A. COMMUNICATING WITH YOUR INSTRUCTOR

All electronic communication between ACC faculty and students will be through college email. All correspondence **requires** use of your ACC email address (example@student.alvincollege.edu). Please be sure to check your email on a regular basis so that you do not miss important information.

If you are a new student or a returning student who does not have an email account, please access <http://www.alvincollege.edu/Campus-Technology> to set-up your WebACCess ID and ACC student email account. Additional information, including technical assistance, can be acquired on the Campus Technology website or by phone (281.756.3544) and email (itservices@alvincollege.edu).

B. COURSE DESCRIPTION

Basic neuroanatomy and physiology. Includes neurologic structure & function, neurologic exam, and diagnostic tools applied to the study of various neurologic disorders.

C. STUDENT LEARNING OUTCOMES

Understand the basic functions of the human nervous system. Understand clinical changes with homeostatic imbalance of the central and peripheral nervous system.

D. PRE-REQUISITE COURSES: BIOL 2402

CO-REQUISITES:

E. REQUIRED TEXTBOOK AND SUPPLEMENTAL READINGS

None required, May supplement with *Human Anatomy and Physiology* (Erin C. Amerman)

For more information about the textbooks, including details about how to order your book online and have it delivered to you, visit the ACC College Store at www.alvincstore.com.

F. COURSE OUTLINE

UNIT OVERVIEW

Unit 1: Organization and Communication of the nervous System

Unit 2: The Brain, Brain waves & Brain protection

Unit 3: The Spinal cord and Peripheral Nerves

Unit 4: The Peripheral Nervous system and Cerebral Circulation

UNIT 1 OBJECTIVES

Upon completion of this unit, the student will be able to:

1. Understand the divisions of the nervous system (Chapter 11)
2. Understand the histology of the nervous System (Chapter 11)
3. Understand the classifications of the nerves (Chapter 11)
4. Understand the resting membrane potential/ graded poten./ action poten. (Chapt. 11)
5. Understand the different types of synapses & Neurotransmitters (Chapter 11)
6. Understand basic neural integration

UNIT 2 OBJECTIVES

Upon completion of this unit, the student will be able to:

1. Understand the Brain and it's components (Chapter 12)
2. Understand the structures that protect the brain (Chapter 12)
3. Understand damage and imbalances of the brain (Chapter 12)

UNIT 3 OBJECTIVES

Upon completion of this unit, the student will be able to:

1. Understand the spinal cord and it's pathways (Chapter 12)
2. Understand spinal cord trauma and disorders (Chapter 12)
3. Understand and differentiate Sensory receptors (Chapter 13)
4. Understand the location and function of the cranial nerves (Chapter 13)

UNIT 4 OBJECTIVES

Upon completion of this unit, the student will be able to:

1. Understand the spinal nerves and what they innervate (Chapter 13)
2. Understand the cervical, brachial, lumbar, sacral plexus (Chapter 13)
3. Understand the components of a reflex (Chapter 13)
4. Understand the structures of blood supply to the brain (Chapter 19 + supplemental)

G. EXAMS AND MAJOR ASSIGNMENTS

EXAMS: An exam will be given at the completion of each unit. There will be a total of 4 exams. Unit exams will be administered in the classroom. This exam will contain cumulative material pertaining to that unit only and may contain True/False, multiple choice, short answer, and matching questions. Any missed exam can be made up at a time decided upon by the instructor if a medical excuse or family emergency can be shown. In the case of a family emergency advanced notice must be given prior to the test time expiring (preferably via email) to your ACC Instructor (Dr. Pulido). In the event of an unexcused missed exam no makeup will be given. There will be no exceptions to this rule.

QUIZZES: A weekly quiz will be given. At the end of the semester, the lowest quiz grade will be dropped. Any missed quiz will be used as the dropped quiz grade.

BLACKBOARD ASSIGNMENTS: During each week there may be various discussion topics or assignments assigned. Most will correlate with weekly topics. Students will be expected to participate on each topic. If a blackboard discussion is assigned a minimum of one well thought and written post for each topic will be required. Credit will not be given for a post if it is unsatisfactory. This will replace classroom participation and should be completed before Friday at 6:00 p.m. each week. Assignments will be turned in during that week’s class period.

H. POLICIES ABOUT COURSEWORK AND DEADLINES

Any missed exam or quiz will be made up at a time decided upon by the instructor ***IF*** a medical excuse or family emergency can be shown. In the case of a family emergency advanced notice must be given prior (preferably via e-mail) to any ACC Neurodiagnostic Program Instructor. In the event of an unexcused missed exam or quiz, no make-up will be given. There will be no exceptions to this rule.

Blackboard assignments may be turned in via email in the event a class will be missed. Blackboard assignments must be turned in by the end of class (Friday @ 3:00) on the week it was assigned. No exceptions will be made.

I. GRADING SUMMARY

GRADING SUMMARY	% of final grade
Quizzes	30%
Blackboard Discussion and Assignments	10%
Unit Exams	60%
Total	100%

Grading Scale	Grade
90-100	A
80-89	B
70-79	C
60-69	D
Any grade below 60	F

J. WITHDRAWAL FROM CLASS/COLLEGE

It is recommended that the student talk to the instructor before withdrawing. Current course withdrawal information can be found in the printed version of the ACC Schedule for this semester or online at [ACC Course Withdrawal Instructions](#). Students who file withdrawal requests by the published deadline and have not exceeded the withdrawal maximum will receive a grade of W.

Six Drop Limit

The Texas Legislature passed a ruling that limits the number of classes a student can drop during their years as an undergraduate student to six. This policy applies to any student who was a first time college freshmen fall, 2007, or later, who attends a Texas public institution of higher education. Courses dropped while attending a private or out of state college do not count toward the six drop limit. For further information, refer to the [ACC Catalog](#) or contact Student Services.

K. COURSE GRADE APPEAL PROCESS

Students have one year from the date of the grade assignment to challenge a grade. Refer to the grade appeal process as published in the [ACC Catalog](#) on page 36.

L. CLASS ATTENDANCE POLICY

Alvin Community College students are required to attend classes. If an absence is unavoidable, the student is responsible for completing all work missed during the absence. Instructors will not withdraw students for non-attendance, except in developmental courses. Absences in excess of two weeks will be reported to the Office of Advising Services, along with appropriate recommendations. Departments and faculty may have other attendance policies for their course. Faculty may issue the grade of FX for non-attendance after the official census date. The FX grade has no grade points assigned per semester hour due to a student's non-attendance.

M. CODE OF ACADEMIC INTEGRITY AND HONESTY

Alvin Community College students are members of an institution dedicated to the pursuit of knowledge through a formalized program of instruction and learning. At the heart of this endeavor, lie the core values of academic integrity which include honesty, truth, and freedom from lies and fraud. Because personal integrity is important in all aspects of life, students at Alvin Community College are expected to conduct themselves with honesty and integrity both in and out of the classroom. Incidents of academic dishonesty will not be tolerated and students guilty of such conduct are subject to severe disciplinary measures. Additional information is located in the [ACC Student Handbook](#).

N. CLASSROOM CONDUCT

It is the right of each student to participate in his or her learning, and it is the responsibility of each student to not interfere with the learning of other students. It is the expectation of the college that each student assumes the responsibility to follow college policies and procedures governing classroom conduct on campus and online. Instructors are authorized to establish within reason, rules of conduct within the classroom. Instructors may ask a student to temporarily leave the classroom whenever the behavior is believed to be disruptive or inappropriate. Additional information is located in the ACC Student Handbook. Additional information is located in the [ACC Student Handbook](#).

O. EVALUATION OF INSTRUCTION

Alvin Community College is dedicated to student success. As part of its ongoing improvement efforts, students will provide input for each course prior to the end of the semester enrolled. Evaluations will be completed in either online or paper format as directed by the Office of Institutional Effectiveness & Research.

P. ACC ACADEMIC SUCCESS AND SUPPORT SERVICES

The [ACC Tutoring/Learning Lab](#), located upstairs in building A, provides students with a variety of services including tutoring (math, writing, and other disciplines); computers and printers; and tables/carrels. Call 281-756-3566 or visit the **ACC Tutoring/Learning Lab Website** for more information.

The [ACC Library](#) is an excellent source for research and writing help. Quiet rooms are available for studying and doing class work. For more information, visit the **ACC Library Website** or call 281-756-3559.

[ACC Counseling Services](#) assist students with issues that may negatively impact academic success. To contact a counselor, call the office of Advising Services at 281-756-3531.

Americans with Disabilities Act

ACC complies with ADA and 504 Federal guidelines by affording equal access to individuals who are seeking an education. Students who have a disability and would like classroom accommodations must register first with the Office of Disability Services, A 136, or call 281-756-3533. Instructors are not able to provide accommodations until the proper process has been followed.

Assessment and Care Team (ACT)

The Assessment and Care Team is committed to improving community safety through a proactive, collaborative, coordinated, objective, and thoughtful approach to the prevention, identification, assessment, intervention and management of situations that pose a threat to the safety and well-being of the campus community. To educate and empower all members of the College community, resources and procedures are in place to prevent, deter, and respond to concerns regarding acts of violence. Alvin Community College offers assistance to departments and individuals in detecting indicators for concern and resources to protect themselves and their environments.

The Alvin Community College ACT accepts reports regarding any individual or incident at any time through an online referral form on the Assessment and Care Team page at <http://www.alvincollege.edu/ACT>, direct email to: ACareTeam@alvincollege.edu, or by contacting the Alvin Community College Police Department at 281-756-3700 or 832-250-3365 (after hours).

Educational Technology

Alvin Community College educational technology includes [MY Blackboard](#) for distance delivery and web-enhancement of courses. Technical support can be obtained by completing the [Online Support Form](#).

All students have a [WEBACCESS](#) account to access numerous college services. If you need information or experience problems with WebACCess, your password, computers in a campus lab, or college email, please call the Help Desk at 281-756-3544 or email helpdesk@alvincollege.edu.

Q. MENTAL HEALTH COUNSELING AND SUICIDE PREVENTION SERVICES

As a student, you may experience a range of challenges that can interfere with learning, such as strained relationships, increased anxiety, substance use, feeling down, difficulty concentrating, and/or lack of motivation. These mental health concerns or stressful events may diminish your academic performance and/or reduce your ability to participate in daily activities. Advising services employs two Licensed Professional Counselors who can assist students with issues that negatively impact academic success. Consultation and referrals are confidential. The Counseling Referral form is located at:

<http://www.alvincollege.edu/CounselingServices.aspx>

Emergencies:

If you or someone you know at ACC feels overwhelmed, hopeless, depressed, and/or is thinking about dying by suicide, supportive services are available by requests at the Enrollment Services Center or by calling 281-756-3531, ask for a Counselor. You may also call the National Suicide Prevention Hotline 1-800-273-8255. This is a 24 hour, toll free, confidential suicide prevention hotline available to anyone in suicidal crises or emotional distress. If, however, you or someone you know is in an immediate crisis, go to the nearest Emergency Room, or call 911.

R. DISCLAIMER

(Faculty reserve the right to modify this syllabus as needed and will notify the students of any changes using email or Blackboard.)

TENTATIVE SCHEDULE
ENDT-1310 Electroneurodiagnostic Tech NeuroAnatomy
FALL 2018 SCHEDULE (SUBJECT TO CHANGE)

<i>Week</i>	<i>Description</i>	
1	-Functions and Divisions of the Nervous System -Histology of the Nervous system	
2	Quiz from week #1 -Membrane Potentials -Graded and Action potential	
3	Quiz from week #2 -The Synapse -Neurotransmitters and Their Receptors -Basic Concepts of Neural Integration	
4	Unit #1 Test Lecture and powerpoint materials from week 1-3	
5	Quiz over brain regions (from blackboard assignment) The Brain: -Embryonic Development -Regions and Organization	
6	Quiz from week #5 The Brain: -Basal Nuclei	

	<ul style="list-style-type: none"> -Diencephalon & Hypothalamus -Epithalamus & Midbrain - Pons & Medulla Oblongata -Cerebellum & Cerebellar Peduncles 	
7	<p style="text-align: center;">Quiz from week #6</p> <ul style="list-style-type: none"> -The Limbic System -Brain Waves EEG,Sleep/Wake cycles -Language & Memory -Protection of the Brain & Brain Damage 	
8	<p style="text-align: center;">Unit #2 Test</p> <p style="text-align: center;"><i>Lecture and powerpoint materials from weeks 5-7</i></p>	
9	<p style="text-align: center;">NO QUIZ</p> <ul style="list-style-type: none"> -The Spinal cord -Spinal Cord Pathways -Spinal Cord Trauma 	
10	<p style="text-align: center;">Quiz from week #9</p> <ul style="list-style-type: none"> -Sensory receptors and sensation -Sensory Integration -Nerves Structure and Repair 	
11	<p style="text-align: center;">Quiz from week #10</p> <ul style="list-style-type: none"> -Cranial Nerves 	
12	<p style="text-align: center;">Unit #3 Test</p> <p style="text-align: center;"><i>Lecture and powerpoint materials from weeks 9-11</i></p>	
13	<ul style="list-style-type: none"> -Spinal Nerves -Cervical & Brachial Plexus -Lumbar & Sacral Plexus Reflex activity 	
14	Thanksgiving Break	
15	<p style="text-align: center;">Quiz from week #13</p> <ul style="list-style-type: none"> -Systemic Circulation -Cranial Circulation -Review 	
16	<p style="text-align: center;">Unit #4 Final exam</p> <p style="text-align: center;"><i>Lecture and powerpoint materials from weeks 13-15</i></p>	