

Fall 2011 Course Syllabus*
Psy 3710 Behavioral Neuroscience
Course #44919, 3.0 credits

MWF 11:00 – 11:50 a.m. WSSC 305

*Subject to change as instructor deems necessary.

Instructor: Valerie Carlson, M.S. Biochemical Engineering, B.A. Functional Biology, Russian
In Progress: PsyD: Health and Wellness Psychology

Office Hours: WSSC 340, MWF 10-10:50 am

If you would like to set up a different time to meet with me, email me and let me know. I want to help you succeed!

Email: vcarlson@dixie.edu

This is usually the most efficient way of communicating with me outside of office hours. I check my email several times per day.

Home Telephone: (435) 275-4310

If you would like to speak with me, you are welcome to call between the hours of 8am-9pm Monday through Saturday. Be nice.

Textbook: Foundations of Behavioral Neuroscience, 8th Ed., by Neil R. Carlson
A Colorful Introduction to the Anatomy of the Human Brain, 2nd Ed., by John Pinel

Prerequisites for Psy 3710:

PSY 1010 and BIOL 1010 or BIOL 1610.

PSY 3000 and PSY 3010 recommended.

This course fulfills one of the research area requirements for your psychology major.

Course Objectives:

Successful completion of Psy3710 should add to your general knowledge of the biological bases of behavior and mental processes, including a general understanding of the neurophysiological contributions to sensation, perception, motivation, and emotion. Course objectives include gaining a greater understanding of the following:

*the scientific method and brain/mind philosophies,
basic terminology and principles of physiological psychology, including basic neuroanatomy at the gross and cellular level,
how brain physiology influences behaviors such as sleep, emotion, and learning,
the effect of neurological disorders on behavior, and
the necessity of ethical behavior in all aspects of the science and practice of psychology,*

as well as providing:

*an increased basic scientific literacy and ability to analyze and communicate the results of research in physiological psychology, and
an exercise of critical thinking skills in both an individual and group learning environment.*

Grading:

There will be 4 in-class exams and 10 quizzes. The final exam is comprehensive.

exams	4 x 100 points each	400 possible points
quizzes	10 x 10 points each (lowest 3 dropped)	70 possible points
papers	3 x 50 points each	150 possible points
final exam	1 x 150 points	150 “ “

TOTAL: 770 possible points

Final Grades will be determined on a standard percentage basis:

A = 93%, A- = 90%, B+ = 87%, B = 83%, B- = 80%, C+ = 77%, C = 73%, C- = 70%, and so forth.

!! FINAL EXAM DATE: Friday, December 16, 10a.m. !!!!!!!!!!!!!!!!

This date cannot be changed for you, so plan accordingly.

General Policies:

- **All papers are due on time as listed in our class schedule found on blackboard.** Late work will be docked 10% each day it is late. You may turn in papers early without penalty.
- **Attendance at each class is mandatory.** If you miss more than 5 classes, I reserve the right to dock your grade one step, e.g. C to C-. Plan to be in class. You may find Dixie's policy regarding attendance at <http://www.dixie.edu/humanres/policy/sec5/523.html>.
- **Exams and quizzes may not be taken late**, but exams may be taken early if acceptable arrangements can be made. The final exam must be taken as scheduled for our class.
- Students guilty of cheating/plagiarism will be dealt with according to college policy as found at <http://www.dixie.edu/humanres/policy/sec3/334.html>.

3-34 ACADEMIC DISCIPLINE

34.1 Cheating: Academic dishonesty in any form will not be tolerated at Dixie State College, including but not limited to plagiarism on written assignments, submitting other person's work as one's own, and cheating on exams or quizzes. Teachers at Dixie State College may discipline students proven guilty of academic dishonesty by:

34.1.1 Giving a failing grade on the specific assignment where dishonesty occurred,

34.1.2 Failing the student in the entire course,

34.1.3 Immediately dismissing and removing the student from the course, and/or

34.1.4 Referring the student to Student Affairs, a committee which may reprimand, place on probation, suspend, and/or expel the student.

34.2 Disruptive Behavior: Teachers at Dixie State College have the right to manage the classroom environment to ensure a good learning climate. Toward this end, teachers (or college security) may dismiss and remove disruptive students from individual class activities. If a student's behavior continues to disrupt class activities, the teacher may dismiss and cause the removal of disruptive students from their course.

34.3 Student Appeals: Students who believe themselves wrongfully disciplined may appeal those disciplinary actions through the standard grievance procedure. (Policy 5-35)

Students with Disabilities:

“If you are a student with a medical, psychological or a learning difference and requesting reasonable academic accommodations due to this disability, you must provide an official request of accommodation to your professor(s) from the Disability Resource Center ***within the first two weeks of the beginning of classes***. Students are to contact the center on the main campus to follow through with, and receive assistance in the documentation process to determine the appropriate accommodations related to their disability.”

You may call (435) 652-7516 for an appointment and further information regarding the Americans with Disabilities Act (ADA) of 1990 per Section 504 of the Rehabilitation Act of 1973.

The DRC office is located right next to the Testing Center on the bottom floor of the Financial Aid and Career Center building.

FREE OUTSIDE HELP:

The Browning Learning Resource Center houses both the tutoring and writing centers.

- Library - <http://library.dixie.edu>
- Writing Center - http://dixie.edu/english/dsc_writing_center.php
- Testing Center - <http://dixie.edu/testing>
- Tutoring Center - <http://dsc.dixie.edu/tutoring/>

Email:

You are required to frequently check your dmail account. Important class and college information will be sent to your dmail account, including DSC bills, financial aid/scholarship notices, notices of cancelled classes, reminders of important dates and deadlines, and other information critical to your success at DSC and in your courses. If you don't know how to access your dmail account, go to www.dixie.edu and select "Dmail" from the left column. To locate your dmail username and password, go to www.dixie.edu, and click on "Log in to student services" (upper right corner).

DATES TO TAKE NOTE OF:

Aug 22 Classwork Starts
Aug 24 Last Day to Add Without Signature
Aug 29 Drop/Audit Fee Begins (\$10 per class)
Sep 5 Labor Day
Sep 6 \$50 Late Registration/Payment Fee
Sep 12 Pell Grant Census
Sep 12 Last Day for Refund
Sep 12 Last Day to drop without receiving a "W" grade
Sep 13 Courses dropped for non-payment
Sep 16 Last Day to ADD Classes
Sep 30 Graduation Application Deadline
Oct 12 Mid-Term Grades Due
Oct 13-14 Semester Break
Oct 17 Last Day to DROP/AUDIT Classes
Nov 11 Last Day for Complete Withdrawal
Nov 14 Spring Registration open to Seniors (90+ credits)
Nov 15 Career Day
Nov 15 Spring Registration open to Juniors (60+ credits)
Nov 16 Spring Registration open to Sophomores (30+ credits)
Nov 17 Spring Registration Open to All Students
Nov 23-25 Thanksgiving Break
Dec 9 Classwork Ends
Dec 12-16 Final Exams

Topic/Assignment		Class Preparation
8/22 – 8/24	Syllabus Introduction to Behavioral Neuroscience	Read Chapters 1 and 3 in Carlson. Explore mypsychkit and skim through the Pinel book.
8/26 - 8/29	Directional Terminology for Neuroanatomy Overview of the Nervous System	Re-Read Chapter 3 in Carlson.
8/31	Neurons and Supporting Cells The Blood-Brain Barrier	Read and Reread Chapter 2 in Carlson.
9/2	Resting potential, the sodium potassium pump Paper #1 Assigned, Due Friday, 9/23	
9/7	The Action Potential, Saltatory Conduction	
9/9	Synaptic Transmission	
9/12	Sites of Drug Action	Read pp. 95-98 in Carlson
9/14	Methods in Biopsychology	Read Chapter 5 in Carlson
9/16	Exam #1 in class	Get a good night's sleep!! Eat breakfast.
9/19 – 9/21	Vision	Read Chapter 6 in Carlson
9/23	Audition; Paper #1 Due	Read Chapter 7 in Carlson.
9/26	The Vestibular System; Paper #2 Assigned	
9/28 – 9/30	The Somatosenses: Touch and Pain	
10/3 - 10/5	Sleep, Sleep Disorders, and Circadian Rhythms	Read Chapter 8 in Carlson.
10/7	Exam #2 in class	Get a good night's sleep!! Eat breakfast.
10/10-10/12	Exercise and Meditation	
10/14	Semester Break – Have fun and get some good nutrition, exercise, and sleep	
10/17	Ingestive Behaviors	
10/19 – 10/24	Emotion Paper #2 is due on 10/21 Paper #3 is assigned on 10/24	Read Chapter 10 in Carlson.
10/26 – 10/31	Learning and Memory	Read Chapter 12 in Carlson
11/2	Exam # 3 in class	Get a good night's sleep!! Eat breakfast.
11/4– 11/9	Neurological Disorders	Read Chapter 14 in Carlson.
11/11 – 11/18	Schizophrenia, Affective Disorders, and Anxiety Disorders Paper #3 is due on 11/18	Read Chapter 15 in Carlson.
11/21	Autism and ADHD	Read Chapter 16 in Carlson.
11/23 – 11/25	Thanksgiving Break	Get exercise, nutrition, sleep, and fun!
11/28	Stress Disorders	Re-read Chapter 16 in Carlson.
11/30	Substance Abuse	
12/2	Exam #4 in class	Get a good night's sleep!! Eat breakfast.
12/5 – 12/9	Special Topics in Research Applications for the Future Review for Final	Pat yourself on the back and keep working hard.
12/16/10	Comprehensive Final at 10:00 a.m.	Get a good night's sleep!! Eat breakfast.