



**Division of Social and Behavioral Sciences
Department of Psychology
Charles L. Earley, J.D., M.A**

A. Course and Instructor Information

A.1 Course	PSYC 2317: Statistical Methods in Psychology
A.2 Hours	3-hour lecture course/3 semester credit hours/48 contact hours per semester
A.2 Weeks	16 Weeks
A.3 CRN	CRN 59246 AND CRN 59329
A.4 Term	Regular Term
A.5 Year	2018
A.6 Day(s)	Thursdays
A.7 Time	CRN 59246: 8:00am – 9:20am CRN 59329: 11:00am-12:20pm
A.8 Mode	Hybrid
A.9 Instructor	Charles L. Earley, J.D., M.A.
A.10 Instructor Contact Information	Charles.earley@hccs.edu
A.11 Office Location and Hours	By Appointment. Please feel free to contact me concerning any problems that you are experiencing in this course. You do not need to wait until you have received a poor grade before asking for my assistance. Your performance in my class is very important to me. I am available

	to hear your concerns and just to discuss course topics.
A.12 Email Policy	HCCS policy requires instructors and students to communicate only through the HCCS email system. If you have not activated your HCCS student email account, click “First-time User” on this page. I will answer emails on Mondays and Wednesdays.
A.13 Course Description	PSYC 2317 is an introduction to the use of scientific methods in psychology and to the statistical analysis of data. Attention is given to descriptive and inferential statistical methodology including t-tests, analysis of variance, correlation and regression.
A.14 Prerequisites	PSYC 2317 requires MATH 0312 (or higher). Students must be placed into college-level reading (or take INRW 0420 or ESOL 0360 as a co-requisite and be placed into MATH 0312 or higher. If you have enrolled in this course without having satisfied these prerequisites, you are at higher risk of failure or withdrawal than students who have done so, and you should carefully read and consider the repeater policy in the HCC Student Handbook .
B. Student Learning Outcomes	
B.1 Psychology Program Student Learning Outcomes (PSLOs)	<ol style="list-style-type: none"> 1. Define, discuss, and apply key terms and concepts that are essential to success in upper division psychology courses (e.g., abnormal psychology, history and systems of psychology, advanced learning theory, developmental psychology, industrial/organizational psychology). 2. Outline, define, discuss, and apply the steps of the scientific method. 3. Define, discuss, and apply key terms and concepts associated with descriptive and experimental research methods. 4. Define, discuss, and apply psychological terms and concepts that are commonly found in news reports, self-help literature, parenting literature, and psychotherapy.
B.2 Core Curriculum Objectives (CCOs) for all PSYC Core Courses	<p>PSYC 2317 satisfies the mathematics requirement in the HCCS core curriculum. The HCCS Psychology Program Committee has specified that the course addresses the core objectives as follows:</p> <ul style="list-style-type: none"> • Critical Thinking: Students will demonstrate the ability to engage in inquiry and analysis, evaluation and synthesis of information, and creative thinking by completing a written assignment such as a book report, research paper, or essay. • Communication Skills: Students will demonstrate effective development, interpretation and expression of ideas through written, oral, and visual communication by completing a written assignment such as a book report, research paper, or essay. • Quantitative and Empirical Literacy: Students will demonstrate the ability to draw conclusions based on the systematic analysis of topics using observation, experiment, and/or numerical skills by completing textbook reading assignments, completing assignments, and answering questions on quizzes and exams that pertain to Course Student Learning Outcome #2 above. • Social Responsibility: Students will demonstrate cultural self-awareness, intercultural competency, civil knowledge, and the ability to engage effectively in regional, national, and global communities by completing textbook reading assignments, completing assignments, and answering questions on quizzes and exams that pertain to Course Student Learning Outcome #4 above.
B.3 PSYC 2317	<ol style="list-style-type: none"> 1. Identify and interpret common statistical notation, the outcomes of inferential tests and the concept of statistical significance.

Course Student Learning Outcomes (CSLOs)	<ol style="list-style-type: none"> 2. Select, explain and utilize common research designs including experimental methods, quasi-experimental methods and correlational techniques. 3. Demonstrate understanding of the concepts of probability using the statistical tables. 4. Calculate basic inferential statistics, including z-tests, t-tests, ANOVA, correlation coefficients, and simple linear regression. 5. Use the appropriate t-test for a data set, including knowledge of single sample and independent samples t-tests. 6. Conduct hypothesis tests with ANOVA (Independent Measures and Two-Factor).
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B.4 PSYC 2317 Learning Objectives	<p>To view or download the learning objectives for this course, visit the page below. https://learning.hccs.edu/programs/psychology/psyc-course-student-learning-outcomes-and-learning-objectives/psyc-2317-statistical-methods-in-psychology</p>
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C. Instructional Methods and Materials

C.1 Success in the Course	<p>As with any three-hour course, you should expect to spend <i>at least six hours per week</i> outside of class reading and studying the material. I will provide assignments to help you use those six hours per week wisely. Additional time will be required for the written assignment. Successful completion of this course requires a combination of reading the textbook, attending class, completing assignments in Eagle Online, and participating in class discussions. There is no short cut for success in this course; it requires reading (and probably re-reading) and studying the material using the course objectives as your guide.</p>
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C.2 Eagle Online Canvas	<p>This section of PSYC 2317 is a hybrid class. Approximately half of the instruction will be in-person, and half will take place on Eagle Online Canvas. All exams will be administered on Canvas.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">In-Class Activities</th> <th style="width: 50%; text-align: center;">Online Activities</th> </tr> </thead> <tbody> <tr> <td>Brief lectures</td> <td>Exams/Quizzes</td> </tr> <tr> <td>Solving Problems</td> <td>Comprehensive Final Exam</td> </tr> <tr> <td></td> <td>Written assignment(s)</td> </tr> <tr> <td></td> <td>Aplia Assignments</td> </tr> </tbody> </table> <p>Visit the page below and click “Resources for Online Students” for information about system requirements for accessing Canvas. https://learning.hccs.edu/programs/psychology/online-resources-for-students</p>	In-Class Activities	Online Activities	Brief lectures	Exams/Quizzes	Solving Problems	Comprehensive Final Exam		Written assignment(s)		Aplia Assignments
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C.3 Instructional Materials	<p><u>Textbook</u> <i>Essentials of Statistics for the Behavioral Sciences</i> (8th Edition) with Aplia Access Code by F. Gravetter and Larry Wallnau ISBN-10: 1133956572</p>
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C.4	<p>See “How to Access Your Aplia Course” on the last page of this syllabus. All instructors are required to use Aplia. There will be Aplia Assignments that equal 10% of the course grade. In addition, exams and quizzes will be posted on Aplia.</p>
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D. Exams, Assignments, and Grading Information

D.1 Exams	<p>There will be 12 exams with 20-50 multiple choice questions. All exams will be posted on Aplaia.</p>
D.2 Written Assignment(s)	<p>There will be a research assignment that is a major part of this class.</p> <p>For this study, you must develop and complete a research project utilizing data that are already available. This will include a completed manuscript in APA format.</p> <p>The first step in the project for this class is to decide on a topic and find some data to analyze. Many students wait until the last minute to do this, and it causes them to fail the project.</p> <p>Examples of past projects</p> <p>Is there a difference in pass rates on the NCLEX comparing ADN programs to BSN programs in Texas? The student found the data for the most recent year published by the State Board of Nursing and utilized a t-test to analyze the data.</p> <p>Is there a significant difference in divorce rates comparing Democratic states to Republican states? The student had to come up with an operational definition for Democrat and Republican states. Did they use who the governor was? Did they use who they selected for president in the last election? They then analyzed the data using a t-test.</p> <p>Is there a relationship between DUI arrest rates and jail time for first offenders? The student found the minimum jail time for a first DUI offense for each state and the arrest rates for DUI for each state and analyzed the data using a correlation.</p> <p>Fifty percent of your grade is for finding the data and analyzing it. I need to see your data BEFORE you try to analyze it.</p> <p>An example of the format of the paper and links to statistical calculators will be posted on Canvas.</p>
D.3 Graded In-Class Activities	<p>None</p>
D.4 Graded Online Activities	<p>None</p>
D.5 Other	<p>Aplaia assignments will be posted throughout the semester. Please note the due dates and make sure assignments are submitted in a timely manner. Questions are</p>

Assignments	multiple choice.																														
D.6 Comprehensive Final Exam	<ul style="list-style-type: none"> All students in PSYC 2317 are required to take a comprehensive final exam. The exam will be administered on Aplia (See Course Calendar for availability and due dates). The exam is a 2 hour timed exam and you get one attempt at the exam. It is due by 1:00 the day of the final. Questions are presented one at a time. The final exam counts for 10% of your grade. 																														
D.7 Extra Credit	A take home comprehensive final exam with problems will be posted at the end of the semester for extra credit. A hard copy showing your work must be submitted at the time of the final. It is worth up to 100 points.																														
D.8 Grading Formula	<table border="1"> <thead> <tr> <th>Exams/Assignments/Other Activities</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>Exams</td> <td>600</td> </tr> <tr> <td>Written Assignment</td> <td>200</td> </tr> <tr> <td>Graded Online Activities</td> <td>100</td> </tr> <tr> <td>Comprehensive Final Exam</td> <td>100</td> </tr> <tr> <td>Total</td> <td>1000</td> </tr> <tr> <td>Maximum Extra Credit</td> <td>100</td> </tr> </tbody> </table>	Exams/Assignments/Other Activities	Points	Exams	600	Written Assignment	200	Graded Online Activities	100	Comprehensive Final Exam	100	Total	1000	Maximum Extra Credit	100																
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D.9 HCC Grading Scale	<table border="1"> <tbody> <tr> <td>A</td> <td>100-90%</td> <td>4 points per semester</td> </tr> <tr> <td>B</td> <td>89-80%</td> <td>3 points per semester</td> </tr> <tr> <td>C</td> <td>79-70%</td> <td>2 points per semester</td> </tr> <tr> <td>D</td> <td>69-60%</td> <td>1 point per semester</td> </tr> <tr> <td>F</td> <td><60%</td> <td>0 points per semester</td> </tr> <tr> <td>FX</td> <td>Failure due to non-attendance</td> <td>0 points per semester</td> </tr> <tr> <td>IP (In Progress)</td> <td></td> <td>0 points per semester</td> </tr> <tr> <td>W (Withdrawn)</td> <td></td> <td>0 points per semester</td> </tr> <tr> <td>I (Incomplete)</td> <td></td> <td>0 points per semester</td> </tr> <tr> <td>AUD (Audit)</td> <td></td> <td>0 points per semester</td> </tr> </tbody> </table> <p>IP (In Progress) is given only in certain developmental courses. The student must re-enroll to receive credit. COM (Completed) is given in non-credit and continuing education courses. To compute grade point average (GPA), divide the total grade points by the total number of semester hours attempted. The grades "IP," "COM" and "I" do not affect GPA.</p>	A	100-90%	4 points per semester	B	89-80%	3 points per semester	C	79-70%	2 points per semester	D	69-60%	1 point per semester	F	<60%	0 points per semester	FX	Failure due to non-attendance	0 points per semester	IP (In Progress)		0 points per semester	W (Withdrawn)		0 points per semester	I (Incomplete)		0 points per semester	AUD (Audit)		0 points per semester
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D.10 Makeup Policy	Makeups are allowed on a case-by-case basis. A makeup exam is not a retake. That is, makeup exams are only allowed for missed exams. Documentation for why you missed an exam MUST be provided.																														
D.11 Incomplete Grades	In order to receive a grade of Incomplete ("I"), you must have completed at least 85% if the work in the course. In all cases, the instructor reserves the right to decline a student's request to receive a grade of Incomplete.																														
D.12 Syllabus Modifications	The instructor reserves the right to modify the syllabus at any time during the semester and will promptly notify students in writing, typically by e-mail, of any such changes.																														
E. Policies, Student Services, and Student Resources																															

E.1 Instructor Responsibilities	<ul style="list-style-type: none"> • Provide the grading scale and detailed grading formula explaining how student grades are to be derived • Facilitate an effective learning environment through class activities, discussions, and lectures • Description of any special projects or assignments • Inform students of policies such as attendance, withdrawal, tardiness and make up • Provide the course outline and class calendar which will include a description of any special projects or assignments • Arrange to meet with individual students before and after class as required
E.2 Student Responsibilities	<ul style="list-style-type: none"> • Attend class and participate in class discussions and activities • Read and comprehend the textbook • Complete the required assignments and exams: • Ask for help when there is a question or problem • Keep copies of all paperwork, including this syllabus, handouts and all assignments • Attain a raw score of at least 50% on the departmental final exam • Be aware of and comply with academic honesty policies in the HCCS Student Handbook
E.3 Attendance	<p>You are encouraged to attend each class since regular attendance correlates with good grades. Be on time and attend the entire class. If you must be absent, you are, of course, responsible for the material covered in class in your absence (see the Course Calendar). Be advised that instructors must drop students who fail to attend class by the official date of enrollment (“Census Day”). In addition, instructors may drop students who miss six hours of class time.</p>
E.4 Withdrawal	<p>If you decide to withdraw from the course, it is your responsibility to do so online via the PeopleSoft student management system. If you need assistance, visit the counselors’ office on your campus. You may wish to discuss your decision to withdraw from the class with your instructor beforehand.</p>
E.5 Classroom Conduct	<p>I expect students to conduct themselves professionally in their communications with me, their classmates, and college staff and administration. Behavior inappropriate to the collegiate setting (including but not limited to abusive/derogatory/threatening/harassing language directed at the instructor or towards other students, staff or administrators) will not be tolerated, and may result in removal from the course if severe and/or repeated.</p>
E.6 Scholastic Dishonesty	<p>Students are responsible for conducting themselves with honor and integrity in fulfilling course requirements. Penalties and/ or disciplinary proceedings may be initiated by college district officials against a student accused of scholastic dishonesty. “Scholastic Dishonesty” includes, but is not limited to, cheating on a test, plagiarism and collusion. Possible punishments for academic dishonesty may include a grade of “0” or “F” on the particular assignment, failure in the course, and/or recommendation for probation or dismissal from the college district. A recommendation for suspension or expulsion will be referred to the college Dean of Instruction for disciplinary disposition. Students have the right to appeal the decision.</p>
E.7 Use of Electronic Devices	<p>The use of electronic devices by students in the classroom is up to the discretion of the instructor. Any use of such devices for purposes other than student learning is strictly prohibited. If an instructor perceives such use as disruptive and/or inappropriate, the instructor has the right to terminate such use. If the behavior continues, the student may be subject to disciplinary action to include removal from the classroom or referral to the dean of student services.</p>
E.8	<p><u>Psi Kappa</u></p>

<p>Student Organizations</p>	<p>All students are invited to join Psi Kappa, an organization that can help students learn about psychology outside the classroom, serve the community, meet students in other PSYC classes, interact with PSYC faculty, and learn leadership skills. For more information, visit the Psi Kappa page on the HCC Learning Web, the Psi Kappa blog, and the Psi Kappa Facebook page.</p> <p><u>Psi Beta</u> HCC has an active chapter of Psi Beta: National Honor Society in Psychology for Community and Junior Colleges. To learn more about this organization visit the Psi Beta website. For information about the HCC chapter, visit the Psi Beta page on the HCC Learning Web.</p>
<p>E.9 Psychology Department Student Resources Web Page</p>	<p>Visit the Psychology Department Student Resources Web Page for information about and links to the items listed below. Links to other important and useful resources that contain information about HCC policies, procedures, and student resources are posted there as well.</p> <p><u>HCC Foundation: Psychology Achievers Scholarship</u> To be eligible for the \$125 per semester Psychology Achievers Scholarship, a student must (1) meet all HCC Foundation criteria for scholarship eligibility, and (2) make an A in either PSYC 2301 or PSYC 2314.</p> <p><u>Tutoring</u> HCC provides free, confidential, and convenient academic support to HCC students in an online environment and on campus. Tutoring is provided by HCC personnel in order to ensure that it is contextual and appropriate.</p> <p><u>HCC Student Handbook</u> All students are responsible for reading and understanding the HCCS Student Handbook, which contains policies, information about conduct, and other important information.</p> <p><u>Student Rights, Responsibilities, and Procedures</u> All students are responsible for reading and understanding the Student Rights, Responsibilities and Procedures.</p> <p><u>HCC Online Student Handbook</u> In addition to being responsible for familiarity with the content of the HCC Student Handbook and Student Rights, Responsibilities, and Procedures, students who are taking online classes are responsible for reading and understanding the HCC Online Student Handbook, which contains policies, information about student conduct in the virtual classroom, and other important information.</p> <p><u>EGLS₃ Evaluation for Greater Learning Student Survey System</u> The EGLS3 will be available for most courses near the end of the term until finals start. This brief survey will give invaluable information to your faculty about their teaching. Results are anonymous and will be available to faculty and division chairs after the end of the term. EGLS3 surveys are only available for the Fall and Spring semesters. There are no EGLS3 surveys during the Summer semester due to logistical reasons.</p> <p><u>Title IX Policies</u> Houston Community College is committed to cultivating an environment free from inappropriate conduct of a sexual or gender-based nature including sex discrimination, sexual assault, sexual harassment, and sexual violence. Sex discrimination includes all forms of sexual and gender-based misconduct and violates an individual’s fundamental rights and personal dignity. Title IX prohibits discrimination on the basis of sex-including pregnancy and parental status-in educational programs and activities. If you require an accommodation due to pregnancy please contact an Abilities Services Counselor. The Director of EEO/Compliance is</p>

	<p>designated as the Title IX Coordinator and Section 504 Coordinator. All inquiries concerning HCC policies, compliance with applicable laws, statutes, and regulations (such as Title VI, Title IX, and Section 504), and complaints may be directed to: http://www.hccs.edu/departments/institutional-equity/title-ix-know-your-rights/</p> <p>Campus Carry At HCC the safety of our students, staff, and faculty is our first priority. As of August 1, 2017, Houston Community College is subject to the Campus Carry Law (SB11 2015).</p>
<p>E.10 Services for Students with Disabilities</p>	<p>HCC strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including mental health, chronic or temporary medical conditions), please meet with a campus Abilities Counselor as soon as possible in order to establish reasonable accommodations. Reasonable accommodations are established through an interactive process between you, your instructor(s) and Ability Services. It is the policy and practice of HCC to create inclusive and accessible learning environments consistent with federal and state law.</p> <p>Houston Community College is dedicated to providing an inclusive learning environment by removing barriers and opening access for qualified students with documented disabilities in compliance with the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act. Ability Services is the designated office responsible for approving and coordinating reasonable accommodations and services in order to assist students with disabilities in reaching their full academic potential. In order to receive reasonable accommodations or evacuation assistance in an emergency, the student must be registered with Ability Services.</p> <p>If you have a documented disability (e.g. learning, hearing, vision, physical, mental health, or a chronic health condition), that may require accommodations, please contact the appropriate Ability Services Office below. Please note that classroom accommodations cannot be provided prior to your Instructor’s receipt of an accommodation letter and accommodations are not retroactive. Accommodations can be requested at any time during the semester, however if an accommodation letter is provided to the Instructor after the first day of class, sufficient time (1 week) must be allotted for the Instructor to implement the accommodations.</p> <p>Services for Students with Disabilities Web Page http://www.hccs.edu/support-services/disability-services/</p> <p>Central College 713.718.6164</p> <p>Coleman College 713-718-7376</p> <p>Northeast College 713-718-8322</p> <p>Northwest College 713-718-5422 713-718-5408</p> <p>Southeast College 713-718-7144</p> <p>Southwest College 713-718-5910</p> <p>Adaptive Equipment/Assistive Technology 713-718-6629 713-718-5604</p> <p>Interpreting and CART services</p>

713-718-6333

**E.11
Psychology
Department
Chair**

Dr. Karen Saenz
Karen.Saenz@hccs.edu
713-718-7180

F. Course Calendar

REGULAR TERM

Week	Dates	Chapter/Topic/What's Due
1	01/18	Syllabus Introduction to Aplia
2	01/25	Read Ch 1 Statistical Notation Ch 1 Aplia Problem Set
3	02/01	Exam 1 - Statistical Notation Read Ch 2 Frequency Distributions Ch 2 Aplia Problem Set
4	02/08	Exam 2 - Frequency Distributions Read Ch 3 - Central Tendency
5	02/15	Ch 3 Aplia Problem Set Exam 3 Central Tendency Read Ch 4 – Variability Ch 4 Aplia Problem Set
6	02/22	Exam 4 – Variability Read Ch 5 Z-Scores Ch 5 Aplia Problem Set
7	03/01	Exam 5 z scores Read Ch 6 Probability Ch 6 Aplia Problem Set
8	03/08	Exam 6 Probabilities Read Ch 7 Sampling Distributions Ch 7 Aplia Problem Set
9	03/15	Spring Break
10	03/22	Exam 7 Sampling Distributions Read Ch 8 Hypothesis Testing Ch 8 Aplia Problem Set Exam 8 Hypothesis Testing
11	03/29	Read Ch(s) 9 and 10 t-Statistics Ch(s) 9 and 10 Problem Sets
12	04/05	Read Ch(s) 9 and 10 t-Statistics Ch(s) 9 and 10 Problem Sets Exam 9 t-statistics
13	04/12	Read Ch(s) 12 and 13 ANOVA Ch(s) 12 and 13 Aplia Problem Set
14	04/19	Read Ch(s) 12 and 13 ANOVA Ch(s) 12 and 13 Aplia Problem Sets Exam 10 - Anova
15	04/26	Read Ch(s) 12 and 13 ANOVA Ch(s) 12 and 13 Aplia Problem Sets

		Exam 11 – Anova
16	05/03	Read Ch 14 Correlation Ch 14 Aplia Problem Set Exam12 – Correlation
17	05/10	Final Exam on Aplia Extra Credit Due

O/E Census Date: January 29

Last Day to Withdraw: April 3

How to Access Your Aplia Course

What is Aplia?

In just 10 years, more than one billion answers have been submitted through Aplia, the premier online assignment solution. Millions of students use Aplia to better prepare for class and for their exams. Join them today!

Registration

1. Connect to <http://login.cengagebrain.com/course/Z7J6-SJ6T-ENXF> (8:00 class)
Or <http://login.cengagebrain.com/course/FPJK-R3FQ-CGEX> (11:00 class)
2. Follow the prompts to register for your Aplia course.

Payment

After registering for your course, you will need to pay for access using one of the options below:

Online: You can pay online using a credit or debit card, or PayPal.

Bookstore: Textbooks packaged with an Aplia access code are available in the HCC bookstore.

Free Trial: You will be offered a free trial of Aplia during the registration process. Use this option if you are unable to obtain a textbook and Aplia access at the beginning of the semester. Later, you will be able to convert your free trial to paid access. You will not have to set up a new Aplia account.

Please note: At the end of the free trial period, your course access will be suspended until your payment has been made. All your scores and course activity will be saved and will be available to you after you pay for access.

Z7J6-SJ6T-ENXF (8:00 class)

FPJK-R3FQ-CGEX (11:00 class)

If you already registered an access code or bought Aplia online, the course key to register for this course is:

System Check

To check whether your computer meets the requirements for using Aplia, go to <http://www.aplia.com/support/sysreq.jsp>.