



HOUSTON COMMUNITY COLLEGE  
**BIOLOGY 1108 – LAB, Biology for Non-Science  
Majors 1  
CRN # 10018**  
SUMMER SEMESTER, 2019 – SUMMER-1 TERM  
June 3, 2019 – July 7, 2019  
**Dr. D. Grigsby, DC, JD, LLM**

**Professor: Dr. D. Grigsby, DC, JD, LLM**

**Office:** Scarcella Center, Room S112A at HCC Stafford Campus

**Phone:** (713) 718-7149

**Email:** within Canvas Course for anything related to class

**Instructional Method:** ONLINE Instruction via Canvas portal @

[www.eagleonline.hccs.edu](http://www.eagleonline.hccs.edu)

**To Contact Distance Education:**

Online: <http://www.hccs.edu/online/>

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**COURSE DESCRIPTION:** “Biology for Non-Science Majors I Lab”, also known as Intro Biol Lab, provides an introductory skill set from a basic lab experience. Topics will include basic biological chemistry, cellular morphology, metabolism, and the rudiments of Mendelian and molecular genetics.

Biology 1308 (Biology for Non-Science Majors Lecture) is the prerequisite/co-requisite for this course. Math 0106, or higher placement by testing, and college level reading placement is a prerequisite for the Biology program.

Since this is an online course, you must devote and budget adequate time for academic study over the short 5-weeks.

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**BIOL 1308 CRN: 10018 Lecture Hours: 3 Credit Hours: 1 Total Contact Hours: 48**

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## **COURSE OBJECTIVES:**

### **Program Student Learning Outcomes (PSLOs) for the Biology Discipline**

1. Will display an understanding of biological systems and evolutionary processes spanning all ranges of biological complexity, including atoms, molecules, genes, cells, and organisms.
2. Will integrate factual and conceptual information into an understanding of scientific data by written, oral and/or visual communication. (This may include successful completion of a course-specific research project or a case study module).
3. Will demonstrate proficiency and safe practices in the use of laboratory equipment and basic laboratory techniques.
4. Will apply principles of the scientific method to problems in biology in the collection, recording, quantitative measurement, analysis and reporting of scientific data.

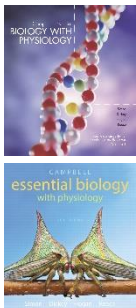
### **Course Student Learning Outcomes (CSLOs):**

Completion of the specific Student Learning Outcomes listed below does NOT and will NOT guarantee the student any specific final course grade at the end of the semester!

1. Distinguish between prokaryotic, eukaryotic, plant and animal cells, and identify major cell structures.
2. Identify stages of the cell cycle, mitosis (plant and animal), and meiosis.
3. Interpret results from cell physiology experiments involving movement across membranes, enzymes, photosynthesis, and cellular respiration.
4. Apply genetic principles to predict the outcome of genetic crosses and statistically analyze results.
5. Describe karyotyping, pedigrees, and biotechnology and provide an example of the uses of each.
6. Identify parts of a DNA molecule, and describe replication, transcription, and translation.
7. Analyze evidence for evolution and natural selection

## **Course Required Resources:**

**ONLINE CLASSROOM:** <https://eagleonline.hccs.edu/login/ldap> This is where you will find your instructional materials for the course. This is also where we communicate via email – the Canvas “inbox”. Instructions on how to access your exercises



**TEXTBOOK:** **CAMPBELL ESSENTIAL BIOLOGY WITH PHYSIOLOGY with Modified MasteringBiology**, HCC Custom Edition, Vol. 1, By Simon, Reece, Dickey and Hogan, Pearson/Benjamin Cummings. ISBN: 1323751793 // 9781323751794.

*\*\*Textbook may be obtained at HCC Bookstores under either cover.*

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**\*\*OVERALL COURSE DESIGN:** This course is largely self-paced, as it is designed for your success while you study online. You are responsible for learning the information presented in the first half of your text, over which you will be assessed in 3 different exams. For the online exams: I will open the information/work for each exam group, and then corresponding exam, for a defined time period. You are to complete the respective material (including any applicable HW or assignments, etc.), and then complete the associated “Lecture” exam(s), all on your own time schedule during that defined period. This design is such so that in this online course, you can be sure to complete your learning and mastery of the material. For the In-person Exams, you are to present to an identified testing center during the prescribed period(s).

*This also means that the **deadlines are firm** – please make your plans accordingly. No deadlines will be extended for an individual.*

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### **COMMUNICATION:**

When you access the Canvas course, please **always check the Professor Announcements** forum link – the most up-to-date info will be posted there, and **you are responsible** for it.

We will communicate through the Professor Announcements on the Canvas course system, and by using the “Inbox” email feature found there. Email inquiries will be checked and answered once daily; however, I do not check email on Saturdays or Sundays – any emails generated on the weekend have no guarantee that they will be checked before Monday. It might be normal that I only answer emails once daily – please be patient. NOTE: In every email sent to me, please include your CRN number!!! Also keep in mind that I take/make appointments in my Stafford campus office as well for those of you who wish to discuss coursework face-to-face.

### **COURSE INFORMATION:**

This FULLY ONLINE/DE course is an integration of 3 PARTS: 1) virtual lab exercises through Canvas, 2) additional online “Lecture” course materials through Canvas, and 3) online Assessments/ assignments and your Exams through Canvas – all accessed directly through embedded links in Canvas class portal.

Access the HCC Online page via the website - <http://www.hccs.edu/online/student-support/> .

**\* TENTATIVE WEEKLY LECTURE/TEXT EXAM SCHEDULE:**

<b>DATES</b>	<b>Virtual Lab Exercises</b>	<b>Lecture Exams</b>	<b>Exam DATES</b>
<b>`Open June 3 – June 16</b>	<b>Exercises 1 - 6 Module 1</b>	<b>Exam Module 1</b>	Open through June 16 <sup>th</sup>
<b>`Open June 14 – June 23</b>	<b>Exercises 7 - 12 Module 2</b>	<b>Exam Module 2</b>	Open through June 23 <sup>rd</sup>
<b>`Open June 21 – July 6</b>	<b>Exercises 13 - 17 Module 3</b>	<b>Exam Module 3</b>	Open through July 6

**\*\*The instructor reserves the right to make changes to this syllabus as required.**

**NOTE:** You will access your assessment site **via the link embedded** in your Canvas course. Instructions to access are posted in your Canvas course.

**IMPORTANT SEMESTER DATES:**

June 3, 2019	Summer 1 Classes Begin
June 6, 2019	Official Date of Record
June 24, 2019	Last Day to Withdraw
July 4, 2019	Independence Day HOLIDAY – No classes
July 7, 2019	Semester Ends

## **COURSE EXAMS:**

Three (3) exams will be given online in Canvas covering the respective Lab Exercises.

Additional instructions will be posted under Professor Announcements.

All 3 Lecture exams given during the semester will cover the material presented in the lab exercises and in the online materials. All material *assigned*, covered or not, is fair game for the exams. Each lecture exam may include various question-types, including multiple-choice, matching, true and false, fill in the blanks, labeling and/or short essay questions.

Students **MUST** take all exams – **they are all mandatory**. If an exam is missed, the student will receive a zero that will be included in the average. **The average of these grades will constitute 58% of your final grade for the course.** Check the course Weekly Schedule above for the exam dates. The weekly schedule above outlines the *tentative* course schedule. It is your responsibility to check the calendar, review the online information/announcements and note any meeting or testing updates.

**LAB EXERCISES/COURSE WORK:** You will also be assigned regular lab exercises to complete on the McGraw-Hill “Connect” platform. You will access this directly via the link in the Canvas classroom. You may **also** be assigned miscellaneous assignments throughout the term via the Canvas site (remember – stay abreast of announcements). The average of any Lab assignments given during the term **will constitute 40% of the final lab grade** for the course.

**SYLLABUS QUIZ:** You will take a quiz based on this syllabus, posted in Canvas for you to complete in an assigned timeframe. Follow the instructions when posted, concerning submission and deadline. The quiz grade **will constitute 2% of the final lab grade** for the course.

**Potential for Extra credit:** There may be an opportunity for bonus during the term, which can improve your earned course grade by up to a maximum of 5%. Bonus opportunities in the past have included Library Resources material, visits to city museums for specifically identified exhibits, and participation in Science club and other campus organizations/presentations. When/if such opportunities arise, I will post them under the Professor Announcements on Canvas with applicable instructions for completion.

## **ONLINE EXAM POLICIES:**

*If you are unfamiliar with the workings of Canvas, please take the tutorials and PRACTICE with the system(s) before your 1<sup>st</sup> exam, at which point it will be too late.*

The course module exams are conducted on-line via personal computer or at any HCCS Computer Laboratory within a specified time frame. Please allow adequate time to complete your exams and to resolve any unanticipated personal computer or networking problems. Any chapter exam that is not completed on time will be considered a missed exam. Missed exams will be graded as zero, and there are no makeup exam opportunities for missed online exams.

If your personal computer has a history of technical or networking problems, it is highly recommended that you plan to use an HCCS Computer Laboratory to complete your online exam. Online courses require students that are capable of budgeting time efficiently and managing the exam time limit wisely.

Please note that **poor planning, personal computer or networking problems are unacceptable excuses for missed online exams**. In fairness to other students, any missed exams will be counted as 0 points, meaning that when computing your final grade, missed exam points (0 out of 100 available points) will be averaged into your other grades. A grade of zero will greatly jeopardize your final grade and may cause you to get an undesirable grade or fail the entire course.

### **GRADE COMPUTATION:**

Grades will be based on percentages of points earned by the student.

- 3 Exam grades will contribute 58% of students' grades.
- Lab Exercises/Assignments will constitute 40% of students' grades.
- Syllabus quiz will constitute 2% of students' grades.

#### SCALE:

A = 90 – 100%

B = 80 – 89.5%

C = 70 – 79.5%

D = 60 – 69.5%

F = Below 60%

\*\*A grade of "FX" is assigned to students who stop attending class but do not withdraw before the deadline; such grade is treated the exactly the same as a grade of "F" in terms of GPA, probation, suspension, academic progress, and Financial Aid.

*To reiterate...*

PLEASE BE ADVISED THAT ALL STUDENTS WILL RECEIVE A GRADE OF ZERO FOR MISSED ONLINE EXAMS.

TECHNICAL PROBLEMS ARE NOT AN ACCEPTABLE EXCUSE FOR MISSED ONLINE EXAMS.

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### **HCC POLICY STATEMENT: INTERNET OUTAGE POLICY**

- ✓ If your professor experiences an Internet service outage or a power outage that significantly affects the timing of distributing on-line assignments, or in any way appreciably hinders the professor in communicating with students, adjustments to due dates and/or grades will be made appropriately.
- ✓ If there is any official notification from HCCS concerning downtime of the BB Internet course server that would affect distributing assignments, or in any way appreciably hinders the professor in communicating with students, adjustments to due dates and/or grades will be made appropriately.
- ✓ This policy pertains only to the PROFESSOR'S Internet Service or to HCCS's Internet course servers, NOT THE STUDENTS' computers or Internet access.
- ✓ No one at HCCS can verify outages at student sites and **student access is not the responsibility of HCCS** or the professors. **Students are responsible** for making sure that they have continuous, reliable Internet access in order to complete this course.

### **→COMPUTER VIRUS PROTECTION**

Computer viruses are, unfortunately, a fact of life. Using removable devices on more than one computer creates the possibility of infecting computers and diskettes with a computer virus. This exposes the computers of the college, your personal computer, and any others you may be using to potentially damaging viruses. The college has aggressive anti-virus procedures in place to protect its computers, but cannot guarantee that a virus might not temporarily infect one of its machines. It is your responsibility to protect all computers under your control and use and ensure that each diskette you use, whenever or wherever you use it, has been scanned with anti-virus software. Since new viruses arise continually, your anti-virus software must be kept current. And, since no anti-virus software will find every virus, keeping backup copies is extremely important.

### **→ EARLY ALERT**

HCC has instituted an Early Alert process by which administration or your professor may “alert” you and DE counselors that you might fail a class because of excessive absences and/or poor academic performance.

### **→EGLS<sub>3</sub> (Evaluation for Greater Learning Student Survey System)**

At Houston Community College, professors believe that thoughtful student feedback is necessary to improve teaching and learning. During a designated time near the end of the term, you will be asked to answer a short online survey of research-based questions related to instruction. The anonymous results of the survey will be made available to your professors and department chairs for continual improvement of instruction. Go to [www.hccs.edu/egls3](http://www.hccs.edu/egls3) for more information.

## **RULES & REGULATIONS:**

### **Adult behavior is expected online in the virtual classroom.**

As with on-campus classes, all students in HCC Distance Education courses are required to follow all HCC Policies & Procedures, the Student Code of Conduct, the Student Handbook, and relevant sections of the Texas Education Code when interacting and communicating in a virtual classroom with faculty and fellow students. Students who violate these policies and guidelines will be subject to disciplinary action that could include denial of access to course-related email, discussion groups, and chat rooms or being removed from the class.

### **Class attendance is mandated by the state.**

Students in DE courses must log in to their Canvas class or they will be counted as absent. Just like in an on-campus class, your regular participation is required.

**DE STUDENTS WHO DO NOT LOG IN TO THEIR CANVAS CLASS BEFORE THE FIRST FRIDAY OF RECORD MAY BE AUTOMATICALLY DROPPED FOR NON-ATTENDANCE. COMPLETING THE DE ONLINE ORIENTATION DOES NOT COUNT AS ATTENDANCE. DE STUDENTS WHO DO NOT COMPLETE THE PROFESSOR'S ATTENDANCE ASSIGNMENT ON CANVAS MAY ALSO BE AUTOMATICALLY DROPPED FOR NON-ATTENDANCE.**

## **ACADEMIC INTEGRITY**

This instructor is committed to a high standard of academic integrity in the academic community. In becoming a part of the academic community, students are responsible for honesty and independent effort. Failure to uphold these standards includes, but is not limited to, the following: plagiarizing written work or projects, cheating on exams or assignments, collusion on an exam or project, and misrepresentation of credentials or prerequisites when registering for a course. Cheating includes looking at or copying from another student's exam, orally communicating or receiving answers during an exam, having another person take an exam or complete a project or assignment, using unauthorized notes, texts, or other materials for an exam, and obtaining or distributing an unauthorized copy of an exam or any part of an exam. Plagiarism means passing off as his/her own the ideas or writings of another (that is, without giving proper credit by documenting sources). Plagiarism includes submitting a paper, report, or project that someone else has prepared, in whole or in part. Collusion is inappropriately collaborating on assignments designed to be completed independently. These definitions are not exhaustive. When there is clear evidence of cheating, plagiarism, collusion, or misrepresentation, disciplinary action may include but is not limited to requiring you to retake or resubmit an exam or assignment, assigning a grade of zero or "F" for an exam or assignment; or assigning a grade of "F" for the course. Additional sanctions including being withdrawn from the course, program or expelled from school may be imposed on a students who violate the standards of academic integrity.



## **REPEATING COURSES (THREE-PEAT RULE)**

As a result of recent Texas legislative changes, please be advised that HCC is charging additional tuition for students who enroll in the same class three or more times at HCC. While it is the hope of HCC that students will be successful in their first attempt at classes, we realize that life demands, academic struggles, and other issues may result in students needing to take the same class more than once. Speaking with an advisor will help you develop student success skills, improving your overall academic performance. If a student repeats a course in which a grade (A-F) has been received, the highest grade received at HCC is the permanent grade for the course and will be used in computing the GPA. All grades earned in a given course will be reflected on the transcript. Other colleges may compute the GPA differently than HCC.

## **HCC COURSE WITHDRAWAL POLICY**

**An instructor will no longer give a grade of “W” to any student after the official drop date – this is the student’s responsibility. Last Day for student to Withdraw is 11/12/2018.**

Students must withdraw by the withdrawal deadline in order to receive a “W” on a transcript. Final withdrawal deadlines vary each semester and/or depending on class length, please visit the online Academic Calendar, any HCC Registration Office, or any HCC advisor to determine class withdrawal deadlines.

Be certain you understand HCC policies about dropping a course and consult with a counselor/advisor to determine if withdrawing is in your best interest. It is your responsibility to withdraw officially from a class and prevent an “F” from appearing on your transcript. Senate Bill 1231 limits the number of W’s a student can have to 6 classes over the course of their entire academic career. This policy is effective for students entering higher education for the first time in fall 2007 and subsequent terms. Withdrawals accumulated at any other Texas public higher education institution count toward the 6 course total. Withdrawals for certain circumstances beyond the students control may not be counted toward the 6-drop limit.

In addition, withdrawing from a course may impact your financial aid award or eligibility. Contact the Financial Aid Office or website to learn more about the impact of withdrawing on financial aid.

## **HOW TO DROP**

- If a student decides to withdraw from a class upon careful review of other options, **the student can withdraw online prior to the deadline through their [HCC Student Center](#).**
- HCC **may withdraw** students for excessive absences **without notification.**
- **Students should check HCC’s Academic Calendar by Term for withdrawal dates and deadlines.** Classes of other duration (flex-entry, 8-weeks, etc.) may have different final withdrawal deadlines. Please contact the HCC Registrar’s Office at 713.718.8500 to determine mini-term class withdrawal deadlines.

## RESOURCES AVAILABLE TO YOU:

- ✓The Library has **Chromebooks available for check-out** for the entire term. Check with your campus library. *NOTE: Not all software programs or online HW portals are compatible. Be sure to download applicable browsers. Refer to Internet Outage policy, and course notice that tech problems do not excuse missing of deadlines.*
  - ✓**Biology Lab Study Pages** – cover a variety of science topics, including General Biology.  
[www.hccs.edu/biologylabs](http://www.hccs.edu/biologylabs)
  - ✓HCC provides **FREE ONLINE TUTORING** 24 hours/day in writing, math, science, and other subjects. HCC Online Tutoring site: <http://hccs.Upswing.io>. Use your student ID or HCC e-mail address to create an account. Instructions, including a video, are provided to make you familiar with the capabilities of this service. **ALSO, ON-CAMPUS TUTORING** can be found at all campuses. Access information at: <http://www.hccs.edu/resources-for/current-students/tutoring/>.
  - ✓HCC provides **FOOD SCHOLARSHIPS!** Any student who has difficulty affording groceries or accessing sufficient food to eat every day, or who lacks a safe and stable place to live; and, believes this may affect their performance in the course, is urged to contact the Dean of Students for support. Go to <http://www.hccs.edu/applying-and-paying/financialaid/food-scholarship/> for more information.
  - ✓**COUNSELING SERVICES** – Counseling services are available to students who are experiencing difficulty with academic issues, selection of college major, career planning, disability accommodations, or personal issues. <http://learning.hccs.edu/programs/counseling>  
**Any student who faces challenges securing their food or housing and believes this may affect their performance in the course is urged to contact the Dean of Students for support. Furthermore, please notify the professor if you are comfortable in doing so.**
  - ✓As a DE student you have the same access to first-rate information resources that the **HCC LIBRARIES** make available to all HCC students. A special website pulls together all the tools DE students will need to get their research rolling. Visit **Library Resources** specifically for Distance Education students.
  - ✓DE students also have access to a set of Library **“BEGIN RESEARCH”** FAQ's and instructional modules designed to introduce our off-campus students to HCC's wide variety of library resources. The self-paced material and accompanying quizzes are estimated to take 2-5 hours to complete. Helpful tutorial links and tip sheets are included that address specific library resources.  
In order to sign-up for the Library **“BEGIN RESEARCH”** material, students just need to go to:  
<http://library.hccs.edu/brtutorial>
- Once a student has completed the material successfully by passing an Exit Quiz with a score of 70% or above, they will receive email notification and the DE instructor noted on the student's sign-up will be notified as well.
- \*\***IDO** ASSIGN BONUS CREDIT FOR COMPLETING THE LIBRARY “BEGIN RESEARCH” MATERIAL...**

✓ HCC Online Student Support Resources::

The **Online Student Handbook** contains policies and procedures unique to the DE student. **Students should have reviewed the handbook as part of the mandatory orientation. It is the student's responsibility to be familiar with the handbook's contents.** The handbook contains valuable information, answers, and resources, such as DE contacts, policies and procedures (how to drop, attendance requirements, etc.), student services (ADA, financial aid, degree planning, etc.), course information, testing procedures, technical support, and academic calendars.

**Access Student Online Resources:** <http://www.hccs.edu/online/course-resources/>

**Refer to the **Online Student Handbook** by visiting this link:** <http://www.hccs.edu/resources-for/current-students/student-handbook/>

## **ADDITIONAL INSTRUCTOR AND INSTITUTIONAL POLICIES**

### **→ AMERICANS WITH DISABILITIES ACT STATEMENT**

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. For more information, please go to <http://www.hccs.edu/district/students/disability-services/>

### **→ Title IX of the Education Amendments of 1972, 20 U.S.C. A§ 1681 ET. SEQ.**

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 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:

*David Cross*

*Director EEO/Compliance – Office of Institutional Equity & Diversity*

*3100 Main; (713) 718-8271*

*Houston, TX 77266-7517 or Houston, TX 77266-7517 or [Institutional.Equity@hccs.edu](mailto:Institutional.Equity@hccs.edu)*

### **→ 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). For more information, visit the HCC Campus Carry web page at <http://www.hccs.edu/district/departments/police/campus-carry/>

### **→ EQUAL OPPORTUNITY STATEMENT**

It is the policy of the HCCS to provide equal employment, admission and educational opportunities without regard to race, color, creed, national origin, gender, age, veteran's status, sexual orientation, or disability.

**→ FERPA**

The academic, financial and non-directory information on your student account is confidential and protected by the Family Educational Rights & Privacy Act (FERPA). We cannot release certain information to another person without your written authorization. Further information regarding Student Records and FERPA can be found at;  
<http://www.hccs.edu/district/about-us/procedures/student-rights-policies--procedures/>

**☺ HAVE A GOOD & SUCCESSFUL SEMESTER!! ☺**