

**NUTRITION & DIET THERAPY MANUAL, BIOL 1322**

**DEPARTMENT OF BIOLOGY**

**HOUSTON COMMUNITY COLLEGE**

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## 1. WELCOME TO NUTRITION & DIET THERAPY, BIOL 1322!

“Anatomy studies the structural elements of the organism, physiology is the functioning of that anatomy, and nutrition feeds the biochemical processes that sustain the physiology. If you rely upon this perspective, you will see how you cannot divorce nutrition from the successful functioning of the organism.” – D.G. This is a basic 3-hour course introducing general nutritional concepts in health and disease, and includes practical applications of that knowledge.

## 2. CONTACT INFORMATION

**Program Coordinator:** Dr. Manhal Chbat [Manhal.Chbat@hccs.edu](mailto:Manhal.Chbat@hccs.edu) 713-718-5851  
**Subcommittee Chair:** Dr. DaeJan Grigsby [DaeJan.Grigsby@hccs.edu](mailto:DaeJan.Grigsby@hccs.edu) 713-718-7149

**Subcommittee Members:** Dr. Susan Grigsby, Dr. Mahtash Moussavi, Dr. Molly Thomas, Dr. Savannah Zinebi, Dr. Shuo Zhang, Dr. Veronica Amaku, Mary Puccini, Margarita Bracamonte, Dr. Lifang Tien.

**Dean-Earth, Life & Natural Sciences:** Dr. Jerome Drain [Jerome.drain@hccs.edu](mailto:Jerome.drain@hccs.edu) 713-718-6140  
**Department Chair:** Dr. Tom Loesch [tom.loesch@hccs.edu](mailto:tom.loesch@hccs.edu) 713-718-7775

**Associate Chairs:**  
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Dr. Beverly Perry [beverly.perry@hccs.edu](mailto:beverly.perry@hccs.edu) 713-718-8048

### Lab Associates:

Campus	Senior Lab Associate		
Central, Coleman, Gay Hall	<b>Payman Talabi</b>	<a href="mailto:payman.talabi@hccs.edu">payman.talabi@hccs.edu</a>	713-718-6196
SW – Stafford, Missouri City & W. Loop	<b>James Sheppard</b>	<a href="mailto:james.sheppard@hccs.edu">james.sheppard@hccs.edu</a>	713-718-2256
NW – Spring Branch, Alief & Katy	<b>Samuel Thomas</b>	<a href="mailto:samuel.thomas@hccs.edu">samuel.thomas@hccs.edu</a>	713-718-7769
NE – Codwell/Stech, Northline, Pinemont & N.Forest	<b>Alfreda Haggard</b>	<a href="mailto:alfreda.haggard@hccs.edu">alfreda.haggard@hccs.edu</a>	713-718-7541
SE – Eastside & Fraga	<b>Vilma Burwick</b>	<a href="mailto:vilma.burwick@hccs.edu">vilma.burwick@hccs.edu</a>	713-718-7111

### **3. COURSE DESCRIPTION & STUDENT LEARNING OUTCOMES (SLOs)**

#### **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.

#### **BIOL 1322**

##### **COURSE DESCRIPTION**

This course introduces general nutritional concepts in health and disease and includes practical applications of that knowledge. Special emphasis is given to nutrients and nutritional processes including functions, food sources, digestion, absorption, and metabolism. Food safety, availability, and nutritional information including food labels, advertising, and nationally established guidelines are addressed.

##### **STUDENT LEARNING OUTCOMES**

1. Apply nutritional knowledge to analyze personal dietary intakes, to plan nutritious meals using nationally established criteria to meet recommended goals, and to evaluate food labels and the validity of nutritional claims.
2. Trace the pathways and processes that occur in the body to handle nutrients and alcohol through consumption, digestion, absorption, transport, metabolism, storage and waste excretion.
3. Discuss functions, sources, deficiencies, and toxicities of macro- and micronutrients, including carbohydrates, lipids, proteins, water, vitamins, and minerals.
4. Apply the concept of energy balance and its influences at the physical, emotional, societal, and cellular level to evaluate advantages and disadvantages of various methods used to correct energy imbalances.
5. Utilize concepts of aerobic and anaerobic energy systems, and knowledge about macronutrients, vitamins, minerals, ergogenics, and supplements and relate them to fitness and health.
6. Describe health and disease issues related to nutrition throughout the life cycle, including food safety, corrective dietary modifications, and the influence of specific nutrients on diseases.

#### 4. COURSE-SPECIFIC MASTER SYLLABUS TEMPLATE:

Please note: This is just a suggested template!! You are free to modify. However, it is mandatory to include the Departmental Final for 10% of the grade. Additionally, **Sections in Red or those left blank require your input/modification.**



HOUSTON COMMUNITY COLLEGE (**CAMPUS**)  
**Nutrition and Diet Therapy BIOL 1322/CRN # XXXXX**  
Instruction Mode: (**In Person, DE/Online or Hybrid**)

#### INSTRUCTOR CONTACT INFORMATION

Instructor:

Office Phone:

Office:

Office Hours:

E-mail:

#### WELCOME TO:

Course Title: Nutrition and Diet  
Therapy

Semester and Year:

Course Prefix: BIOL 1322

Class Days & Times:

Course Number:

Room # :

Credit Hours: 3

#### COURSE OVERVIEW

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

5. Will display an understanding of biological systems and evolutionary processes spanning all ranges of biological complexity, including atoms, molecules, genes, cells, and organisms.
6. 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).
7. Will demonstrate proficiency and safe practices in the use of laboratory equipment and basic laboratory techniques.
8. Will apply principles of the scientific method to problems in biology in the collection, recording, quantitative measurement, analysis and reporting of scientific data.

##### Course Description and Student Learning Outcomes (CSLOs)

This course introduces general nutritional concepts in health and disease and includes practical applications of that knowledge. Special emphasis is given to nutrients and nutritional processes

including functions, food sources, digestion, absorption, and metabolism. Food safety, availability, and nutritional information including food labels, advertising, and nationally established guidelines are addressed.

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. Apply nutritional knowledge to analyze personal dietary intakes, to plan nutritious meals using nationally established criteria to meet recommended goals, and to evaluate food labels and the validity of nutritional claims.
2. Trace the pathways and processes that occur in the body to handle nutrients and alcohol through consumption, digestion, absorption, transport, metabolism, storage and waste excretion.
3. Discuss functions, sources, deficiencies, and toxicities of macro- and micronutrients, including carbohydrates, lipids, proteins, water, vitamins, and minerals.
4. Apply the concept of energy balance and its influences at the physical, emotional, societal, and cellular level to evaluate advantages and disadvantages of various methods used to correct energy imbalances.
5. Utilize concepts of aerobic and anaerobic energy systems, and knowledge about macronutrients, vitamins, minerals, ergogenics, and supplements and relate them to fitness and health.
6. Describe health and disease issues related to nutrition throughout the life cycle, including food safety, corrective dietary modifications, and the influence of specific nutrients on diseases.

**In our efforts to prepare students for a changing world, students may be expected to utilize computer technology while enrolled in classes, certificate, and/or degree programs. The specific requirements are listed below:**

### **GETTING READY**

#### **Prerequisites:**

Math 0409 or higher placement by testing, must be placed in college level reading and writing.

**Co-requisites:** None.

#### **Required Material:**

**TEXTBOOK:** Scientific American **NUTRITION FOR A CHANGING WORLD**; AUTHORS: Jamie Pope; Steven Nizielski; Alison McCook; PUBLISHER: Macmillan.  
**It has RED Cover.** ISBN: 9781319136468

***\*\*\*At the Campus bookstores, the text is a "Custom Edition", looseleaf.***

**ONLINE HW SITE:** "Launchpad", by Macmillan (publisher). Your personalized student access code for this site is stocked bundled with your text at the Bookstore for a negotiated lower price for HCC students. (If you choose to purchase it online directly from the website, and the text separately, you will end up paying a higher price than at the bundled cost.)

**\*\*\*\* Only include the Canvas statement below if you have taken the Canvas training, have received a Canvas shell for your course and have updated it with the current class material.**

**CANVAS:** Assignments may be posted online on Eagle online CANVAS found at the following link:

<http://eagleonline.hccs.edu/>

Your Username is same as your student ID number used for registration (For example: W0034567). Your default password is "distance". Once you log-in the 1<sup>st</sup> time, you should change the password.

**Learning Web:** Syllabus and other relevant course information may be posted on the Learning web found at the following link:

<http://learning.hccs.edu/faculty/>

### **Supplemental Materials and Resources:**

**Biology Lab Review Pages:** <http://ctle.hccs.edu/biologylabs/index.html> You will get access to digital images, animations, and labeling exercises to review models, slides, and experiments that we cover in lab.

**STEM Website for students:** [www.hccs.edu/district/students/stem](http://www.hccs.edu/district/students/stem) Great information on science clubs, seminars, symposium, research opportunities that are available to HCC students. Check back often- updated regularly.

**Tutoring:** <https://hccs.upswing.io/> Get expert one-on-one help, Online or In Campus, specifically for HCC students.

**TENTATIVE INSTRUCTIONAL OUTLINE:** The Instructor reserves the right to change the instructional outline if needed. Students will be informed in a timely manner of any changes.

**UNIT 1:**

Chapter 1: The Science & Scope of Nutrition  
Chapter 2: Healthy Diets SuperTracker Tutorial  
Chapter 20: Food Safety and Food Security  
Chapter 3: Digestion and Metabolism  
EXAM 1

**UNIT 2:**

Chapter 4: Carbohydrates  
Chapter 5: Nutrition and Diabetes  
Chapter 6: The Lipids  
Chapter 7: Lipids in Health and Disease  
Chapter 8: Protein  
Chapter 9: Plant-Based Diets  
EXAM 2

**UNIT 3:**

Chapter 10: Fat Soluble Vitamins  
Chapter 11: Water Soluble Vitamins  
Chapter 13: Major Minerals and Water  
Chapter 14: Trace Minerals  
EXAM 3

**UNIT 4:**

Chapter 12: Dietary Supplements  
Chapter 15: Energy Balance and Obesity  
Chapter 16: Nutrition and Fitness  
EXAM 4

**UNIT 5:**

Chapter 17: Nutrition for Pregnancy, Breastfeeding and Infancy  
Chapter 18: Childhood Nutrition  
Chapter 19: The College Years  
Chapter 21: Nutrition and the Aging Adult  
EXAM 5

**IMPORTANT DATES:** (Add important dates such as holidays, official date of record, last day for withdrawal, final exams, etc)

**INSTRUCTOR GUIDELINES AND POLICIES** (Insert your guidelines in this section, adding more headings if needed)

**Attendance:** Attendance is mandated by the state. You are expected to attend the entirety of the scheduled lecture and lab classes. You are also responsible for materials covered during your

absences. Instructors may be willing to consult with you for make-up assignments, but it is your responsibility to contact the instructor. Class attendance is monitored daily. Although it is your responsibility to drop a course for nonattendance, the instructor has the authority to drop you for excessive absences. You may be dropped from a course after accumulating absences in excess of 12.5 percent of the total hours of instruction. For example:

- For a 3 credit-hour lecture class meeting 3 hours per week (48 hours of instruction), you can be dropped after 6 hours of absence.
- Departments and programs governed by accreditation or certification standards may have different attendance policies. Administrative drops are at the discretion of the instructor. Failure to withdraw officially can result in a grade of "F" or "FX" in the course.

**Assignments:**

**Exams/Quizzes:**

**Make-up Exams/Quizzes:**

**Project:**

**Extra Credit:**

**Notes:**

**IN CLASS TECHNOLOGY (Cell Phones, Laptops, etc.)**

**INSTRUCTORS'S ASSURANCE**

**BEHAVIOR AND ETIQUETTE**

**DRESS CODE**

**Student Services Policies:** Access up-to-date Student Services Policies on their Web site:  
<http://www.hccs.edu/district/students/student-handbook/>

**QUESTIONS/PROBLEMS:** Please make sure that if you have any questions or problems at any time, that you first contact me as soon as possible. The worst thing you can do is wait to contact me or to not take advantage of the resources available to you. By taking an active part in your education, you will make your academic experience much more rewarding and exciting!



**GRADE DETERMINATION:** (You must include breakdown of % or points for each graded items, such as lecture exams, lab exams, quizzes, projects, etc. Note: this should include the Departmental Final with an allocated 10% of the grade).

The HCC grading scale is:

A = 90 – 100:	.....4	points per semester hour
B = 80 – 89:	.....3	points per semester hour
C = 70 – 79:	.....2	points per semester hour
D = 60 – 59:	.....1	point per semester hour
59 and below = F:	.....0	points per semester hour
IP (In Progress)	.....0	points per semester hour
W(Withdrawn)	.....0	points per semester hour
I (Incomplete)	.....0	points per semester hour
AUD (Audit)	.....0	points per semester hour

*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.*

## FINAL EXAMINATIONS

A final evaluation activity will occur during the published final evaluation period. The appropriate dean, director, or department chair must approve any variation to this schedule.

## HCCS IS COMMITTED TO YOUR SUCCESS:

**Your success is our primary concern!** If you are experiencing challenges achieving your academic goals, please contact your instructor or an early intervention coach. We can provide assistance with academic needs, ADA accommodations, classroom difficulties, financial concerns, and other issues.

### Early Intervention Program and Services:

#### Early Alert

HCCS has instituted an Early Alert process by which your professor may “alert” you and DE counselors that you are having trouble in a class because of excessive absences and/or poor academic performance.

#### Tutoring

HCCS provides free online and on campus tutoring for all HCC students. Go to <https://hccs.upswing.io/>

#### 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>

## **STUDENT BEHAVIOR EXPECTATIONS**

*Students are expected to conduct themselves appropriately while on College property or in an online environment. The instructor would institute established HCCS disciplinary action. Students who pose a threat to the safety of others will be subject to immediate withdrawal from the classroom. Please refer to the HCC Student Handbook.*

## **HCC POLICY STATEMENTS:**

To accommodate any changes in the student handbooks and HCC web pages during the semester, including HCC Policy Statements, as well as HCC Online, and/or Continuing Education Policies:

Access Student Services Policies on their Web site:

<http://www.hccs.edu/district/students/student-handbook/>

## **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.

## **COURSE WITHDRAWALS (6-Drop Rule)**

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.

### **ACCOMMODATIONS DUE TO A QUALIFIED DISABILITY**

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/>

### **Americans With Disabilities Act Statement**

HCCS is dedicated to providing the least restrictive environment for all students. We promote equity in academic access through the implementation of reasonable accommodations as required by the Vocational Rehabilitation Act of 1973, Title V, Section 504 and the Americans with Disabilities Act of 1990 (ADA) which will enable students with disabilities to participate in and benefit from all post-secondary educational activities.

### **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 or program, or expelled from school, may be imposed on a student who violate the standards of academic integrity.

### **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.

### **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.

### **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/>

### **HCC Policy Statement: Sexual Misconduct**

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 [Institutional.Equity@hccs.edu](mailto:Institutional.Equity@hccs.edu)

**HCC Online and/or Continuing Education Policies** **If your class is DE/Online, you should position this statement higher in the list!**

All students are responsible for reading and understanding the HCC Online Student Handbook, which contains policies, information about conduct, and other important information. For the HCC Online Student Handbook click on the link below or go to the HCC Online page on the HCC website. The HCC Online Student Handbook contains policies and procedures unique to the online 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 HCC Online 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. Refer to the HCC Online Student Handbook by visiting this link:

<http://www.hccs.edu/media/houston-community-college/distance-education/student-services/HCC-Online-Student-Handbook.pdf>

Access CE Policies on their Web site:

<http://www.hccs.edu/continuing-education/>

### **HCC 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/>

***DISCLAIMER:*** *It is your responsibility to read the syllabus in its entirety and contact the Instructor if you have any questions and/or need clarifications.*

## 5. IDENTIFIED SUBJECT MATTER FACULTY EXPERT CONTACTS

These faculty members affirm that they teach the course at bar, and have agreed to be a contact for adjuncts and other full-time faculty members for questions and concerns related to the course subject matter and course progression/management. The agreement will last for the current semester (e.g., Fall, Spring, or Summer). This list will be revisited for each new semester for any necessary changes/updates.

Please refer to current list in the Attachments.

## 6. LIST OF COURSE RESOURCES – BIOL 1322

HCC has adopted the following textbooks for Nutrition. Please instruct your students to purchase the textbooks through the HCC bookstore. The Publisher has put together a custom package with the best prices available only through the bookstore.

**TEXTBOOK:** Scientific American **NUTRITION FOR A CHANGING WORLD**; AUTHORS: Jamie Pope; Steven Nizielski; Alison McCook; PUBLISHER: Macmillan.  
**It has RED Cover.** ISBN: 9781319136468  
**\*\*\*At the Campus bookstores, the text is a "Custom Edition", looseleaf.**

**ONLINE HW SITE:** "Launchpad", by Macmillan (publisher). The student's personalized access code for this site is stocked bundled with the text at the Bookstore for a negotiated lower price for HCC students.

### ***Publisher's Representative for HCC:***

Carrie Brownlee  
Senior Publisher's Sales Representative  
Macmillan Learning Higher Ed  
281-416-3474  
[carrie.brownlee@macmillan.com](mailto:carrie.brownlee@macmillan.com)

Please contact Ms. Brownlee for help accessing Instructor Materials, and for questions with the online Launchpad portal.

### **Useful Websites.**

**Biology Program Website:** <https://learning.hccs.edu/programs/biology> Lots of important information, including "Student Success Modules".

**Biology Lab Review Pages:** <http://ctle.hccs.edu/biologylabs/index.html> You will get access to digital images, animations, and labeling exercises to review models, slides, and experiments that we cover in lab.

**STEM Website for students:** [www.hccs.edu/district/students/stem](http://www.hccs.edu/district/students/stem) Great information on science clubs, seminars, symposium, research opportunities that are available to HCC students. Check back often – updated regularly.

**On Campus Tutoring:** [www.hccs.edu/findatutor](http://www.hccs.edu/findatutor) Students can get expert one-on-one help, 6 days a week, specifically for HCC students!

**Online tutoring:** <https://hccs.upswing.io/> Students can get expert help online, specifically for HCC students.

**7. SAMPLE CALENDAR** The Instructor reserves the right to change the instructional outline if needed. Students will be informed in a timely manner of any changes.

WEEKS	TOPICS – Chapters from Macmillan/Pope Text	EXAMS
1 – 3	Unit 1 – Chps. 1,2,20,3	Exam 1 – Unit 1
4 – 6	Unit 2 – Chps. 4-9	Exam 2 – Unit 2
7 – 9	Unit 3 – Chps. 10,11,13,14	Exam 3 – Unit 3
10 – 12	Unit 4 – Chps. 12,15,16	Exam 4 – Unit 4
13-15	Unit 5 – Chps. 17-19,21	Exam 5 – Unit 5
16	<b>FINAL EXAM WEEK – COMP FINAL THIS WEEK</b>	

## 8. BIOLOGY PROGRAM REQUIREMENTS

- a. Departmental Finals notice – to be weighted at 10% for each class, as per the Program vote in 2014-15.
- b. Biol 1322 is responsible for Program Assessment in Academic Year (AY) 2017-2018.

## 9. COURSE TIPS/BEST PRACTICES:

- The SLOs will guide you as to what topics you will need to cover.
- Inclusion of Case Studies for concept application is highly suggested in this course.
- It is recommended that you include at least one essay/short answer in your exams, so that the students have practice explaining crucial concepts.
- Scientific American, through the text and publisher, is a resource for the professor and the students; utilize this as much as possible.
- The SuperTracker is a necessary resource for application; be sure you are familiar with it and its reporting abilities.
- It is important that you explore the condition of Diabetes, and its renal complications. This is an epidemic (pandemic, really), and necessitates attention.
- Cardiovascular disease remains the “number one killer”; it necessitates attention as well.
- Parcel to both of these is the epidemic of obesity; this requires attention too.
- *These three conditions necessitate attention because our student populations are afflicted by them.*

## 10. DEPARTMENTAL POLICIES

Please refer to Attachments for current Departmental Policies.

## **11. ATTACHMENTS...**