A. COURSE INFORMATION

Course number/section:  BIMS 5330
Class meeting time:  25-49% Online/ 51% Lecture on Wednesday 7:00 pm -9:30 pm
Class location:  Lecture: CS 111
Course Websites:  bb9.tamucc.edu

B. INSTRUCTOR INFORMATION

Instructor:  Xavier F. Gonzales, PhD, MSPH
Office location:  Engineering 310C
Office hours:  T &W: 12pm-2:30pm
Telephone:  361-825-3824
e-mail:  Xavier.Gonzales@tamucc.edu
Email me at any time but my responses will be limited after 5pm weekdays and all weekend.
Appointments:  email me to set up appointments

C. COURSE DESCRIPTION

Catalog Course Description

Molecular aspects of aging and disease, including biological mechanisms and theories involving cells, tissues, and organ systems

Extended Course Description

A major goal of this course is to provide you with a broad overview of aging from the perspective of public health and from molecular science. On non-lecture weeks, students will be encouraged to visit 1 nursing home facility and 1 senior recreation center. Students will be expected to spend time at various locations. The goal is to allow students opportunities to assist activity directors, interact with residents/participants. Students will be encouraged to communicate with residents and participants each meeting in order to make observations associated to material previously covered during face-to-face discussions. Students will share some of their observations on Blackboard discussions. During face-to-face meetings, students will be exposed to public health aspects of aging and molecular aspects of aging. Reading and discussion are major components of the course. The course is student centered therefore you should be prepared for interactive discussions amongst your peers.

D. PREREQUISITES AND COREQUISITES

Prerequisites
BIOL 1407
CHEM 3411
E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES


F. STUDENT LEARNING OUTCOMES AND ASSESSMENT

Assessment is a process used by instructors to help improve learning. Assessment is essential for effective learning because it provides feedback to both students and instructors. A critical step in this process is making clear the course’s student learning outcomes that describe what students are expected to learn to be successful in the course. The student learning outcomes for this course are listed below. By collecting data and sharing it with students on how well they are accomplishing these learning outcomes students can more efficiently and effectively focus their learning efforts. This information can also help instructors identify challenging areas for students and adjust their teaching approach to facilitate learning.

By the end of this course, students should be able to:
1. Demonstrate a general knowledge base in the area of aging through the cellular, molecular and public health aspects as determined by class discussions, bi-weekly quizzes, blackboard discussion, and presentations/paper.
2. Find, read, understand, critically evaluate, summarize, analyze and interpret quantitative biological data as reported by literature as determined through group presentation.
3. Communicate scientific information through oral presentations on aging as determined by presentation/paper.
4. Develop conclusions on the aging process based on public health principles and molecular perspective as determined by short answer quizzes given in class.

G. INSTRUCTIONAL METHODS AND ACTIVITIES

Learner-Centered Teaching: Collaborative work, control of content selection, personal reflection, learning skill demonstration

H. MAJOR COURSE REQUIREMENTS AND GRADING

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>% of FINAL GRADE</th>
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<tbody>
<tr>
<td>Quizzes</td>
<td>25</td>
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<tr>
<td>Presentation/Paper</td>
<td>25</td>
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<tr>
<td>Blackboard/Classroom Discussion</td>
<td>25</td>
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<td>Site Visits</td>
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### COURSE CONTENT/SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
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| 01/17      | 1. Course Introduction  
             2. Public Health (PH): Contemporary Perspectives on Public Health  
             3. Cellular/Molecular (C&M): Basic Concepts in the biology of aging                                                                  |
| 01/17 - 01/31 | Visit Sites. See specific schedule on Blackboard. (Read chp. 1-4 of Live, Long, Die Short) Submit Blackboard Discussion regarding site visit and book chapters |
| 01/31      | 1. Quiz 1  
             2. PH: Planned & Built Environments  
             3. C&M: Genomics & Aging/Measuring biological aging                                                                                 |
| 01/31- 02/14 | Visit Sites. See specific schedule on Blackboard. (Read Tip 1-4 of Live, Long, Die Short) Submit Blackboard Discussion regarding site visit and book chapters |
| 02/14 - 02/21 | Visit Sites. See specific schedule on Blackboard. (Read Tip 5-8 of Live, Long, Die Short) Submit Blackboard Discussion regarding site visit and book chapters |
| 02/21      | 1. Quiz 2  
             2. PH: Roles of Public Health in an Aging Society  
             3. C&M: Cellular Aging                                                                                                               |
| 02/21 – 03/07 | Visit Sites. See specific schedule on Blackboard. (Read Tip 9, 10 & In a Nutshell of Live, Long, Die Short) Submit Blackboard Discussion regarding site visit and book chapters |
| 03/07      | 1. Quiz 3  
             2. PH: Social Determinants of Health Inequities & Health care in old age  
             3. C&M: Genetics of longevity                                                                                                          |
| 03/07- 03/28 | Visit Sites. See specific schedule on Blackboard. (Read chp. 16 & 17 of Live, Long, Die Short) Submit Blackboard Discussion regarding site visit and book chapters |
| 03/28      | 1. Quiz 4  
             2. PH: Social Engagement & a healthy aging society  
             3. C&M: Age related disease in humans                                                                                                 |
| 03/28- 04-11 | Visit Sites. See specific schedule on Blackboard. (Read chp. 18 & Conclusion of Live, Long, Die Short) Submit Blackboard Discussion regarding site visit and book chapters |
| 04/11      | 1. Quiz 5  
             2. PH: Assessing the Health & Quality of life of older populations  
             3. C&M: Physiology of human aging                                                                                                      |
| 04/11- 04/25 | Visit Sites. See specific schedule on Blackboard. Submit Blackboard Discussion regarding site visit. Select Presentation Topic              |
| 04/25      | 1. Quiz 6  
             2. PH: Next steps in public health  
             3. C&M: Future of Research                                                                                                             |
| 04/25-05/02 | Visit Sites. See specific schedule on Blackboard. Submit Blackboard Discussion regarding site visit. Work on Presentation                  |
Group Presentations on topics in aging from public health or molecular aspect.

Note: Changes in this course schedule may be necessary and will be announced to the class by the Instructor. The assignments and exams shown are directly related to the Student Learning Outcomes described in Section F.

I. COURSE POLICIES

Attendance/Tardiness
Attendance: Students are expected to attend every scheduled in-class meeting. It is the responsibility of the student to obtain any material missed during an absence from his/her classmates. Power Points are not placed in the library, and only Power Points from certain sections will be placed on Blackboard, or on a website.
Tardiness: Students may enter when late but be respectful of your peers and do not disrupt the class as you enter.

Students expected to make all necessary site visits.

Late Work and Make-up Quizzes
No late work will be accepted. You must refer to Blackboard to identify when items will be due. It is your responsibility to get it turned in through the appropriate outlet on the designated day. I will not remind you.

No make-up quizzes will be given.

Extra Credit
Missed extra credit opportunities—Instructor is not obligated to give make-up assignments for extra credit opportunities, whether excused or unexcused.

Cell Phone Use
Lecture: Students may NOT utilize their cell phone; therefore, keep them on silent and put away.

Laptop Use
Lecture: Students may utilize their laptops as long as it does not disrupt others in class.

Food in Class
Lecture: Students may eat food as long as it does not disrupt others in class. It is the student’s responsibility to clean up after themselves. If you fail to do so, you will no longer be allowed to have food in class.

Missed Exam
No make-up exams will be given; exam can be dropped and replaced by the grade from the Cumulative Final Exam.
Participation
Lecture: Students are required to participate in all discussions and group activities. Peer evaluations will be given with group presentation to determine your final assessment.

Communicating with Instructors
All students should communicate with the instructors using their TAMUCC Black Board account or your islander.tamucc.edu email address. Your instructors will not discuss grades and related info via email unless the message originates from your islander account. Information for using and accessing this account can be found on BlackBoard. If you run into difficulties that are not being resolved by the student computer help desk, please contact Dr. Gonzales ASAP.

J. COLLEGE AND UNIVERSITY POLICIES

- **Academic Integrity (University)**
  University students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating, such as illicit possession of examinations or examination materials, falsification, forgery, complicity or plagiarism. (Plagiarism is the presentation of the work of another as one’s own work.) In this class, academic misconduct or complicity in an act of academic misconduct on an assignment or test will result in a failing grade.

- **Classroom/Professional Behavior**
  Texas A&M University-Corpus Christi, as an academic community, requires that each individual respect the needs of others to study and learn in a peaceful atmosphere. Under Article III of the Student Code of Conduct, classroom behavior that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of other students to profit from the instructional program may be considered a breach of the peace and is subject to disciplinary sanction outlined in article VII of the Student Code of Conduct. Students engaging in unacceptable behavior may be instructed to leave the classroom. This prohibition applies to all instructional forums, including classrooms, electronic classrooms, labs, discussion groups, field trips, etc.

- **Statement of Civility**
  Texas A&M University-Corpus Christi has a diverse student population that represents the population of the state. Our goal is to provide you with a high quality educational experience that is free from repression. You are responsible for following the rules of the University, city, state and federal government. We expect that you will behave in a manner that is dignified, respectful and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation or disability. Behaviors that infringe on the rights of another individual will not be tolerated.
• **Deadline for Dropping a Course with a Grade of W (University)**
  I hope that you never find it necessary to drop this or any other class. However, events can sometimes occur that make dropping a course necessary or wise. *Please consult with your academic advisor, the Financial Aid Office, and me, before you decide to drop this course.* Should dropping the course be the best course of action, you must initiate the process to drop the course by going to the Student Services Center and filling out a course drop form. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. Please consult the Academic Calendar ([http://www.tamucc.edu/academics/calendar/](http://www.tamucc.edu/academics/calendar/)) for the last day to drop a course.

• **Grade Appeals (College of Science and Engineering)**
  As stated in University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules website at [http://www.tamucc.edu/provost/university_rules/index.html](http://www.tamucc.edu/provost/university_rules/index.html), and the College of Science and Engineering Grade Appeals webpage at [http://sci.tamucc.edu/students/GradeAppeal.html](http://sci.tamucc.edu/students/GradeAppeal.html). For assistance and/or guidance in the grade appeal process, students may contact the chair or director of the appropriate department or school, the Office of the College of Science and Engineering Dean, or the Office of the Provost.

• **Disability Services**
  The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please call (361) 825-5816 or visit Disability Services in Corpus Christi Hall 116.

  If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.

  [http://disabilityservices.tamucc.edu/](http://disabilityservices.tamucc.edu/)

• **Statement of Academic Continuity**
  In the event of an unforeseen adverse event, such as a major hurricane and classes
could not be held on the campus of Texas A&M University–Corpus Christi; this course would continue through the use of Blackboard and/or email. In addition, the syllabus and class activities may be modified to allow continuation of the course. Ideally, University facilities (i.e., emails, web sites, and Blackboard) will be operational within two days of the closing of the physical campus. However, students need to make certain that the course instructor has a primary and a secondary means of contacting each student.

K. OTHER INFORMATION

• Academic Advising
  The College of Science & Engineering requires that students meet with an Academic Advisor as soon as they are ready to declare a major. The Academic Advisor will set up a degree plan, which must be signed by the student, a faculty mentor, and the department chair. Meetings are by appointment only; advisors do not take walk-ins. Please call or stop by the Advising Center to check availability and schedule an appointment. The College’s Academic Advising Center is located in Center for Instruction 350 or can be reached at (361) 825-3928.

GENERAL DISCLAIMER

I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes in a timely manner during regularly scheduled lecture periods.