BIOL 4292 - Senior Presentation
Department of Life Sciences
Summer 2016

A. COURSE INFORMATION
Course number/section: BIOL 4292.001
Class meeting time: 10:00-12:25 PM.-MW
Class location: EN 107
Course Website: https://bb9.tamucc.edu/

B. INSTRUCTOR INFORMATION
Instructor: Dr. Bart Cook III
Office location: EN 309
Office hours: 7:00-8:00 am MTWR-10:00 am F- or by appt-please see sign up sheet posted on my office door.
Telephone: 825-2683
e-mail: Bart.Cook@tamucc.edu
Appointments: 10:00-11:00 Friday

C. COURSE DESCRIPTION
Lecture text: None

A seminar represents one means whereby Knowledge can be exchanged between biologists. Although this undergraduate seminar will be held in a informal manner, each student is expected to conduct himself/herself as a professional.

1. To increase your knowledge in a Specific area of biology and to communicate this information in a concise and orderly manner to your fellow students
2. To increase your professional competency in the areas of literature research, organization, and visual aid.
3. To develop the ability and confidence in yourself that is required in orally presenting your views and knowledge concerning biological subjects.
4. To develop you skills in objectively evaluating the presentation/presenter of scientific.

D. PREREQUISITES AND COREQUISITES
Prerequisites course required-BIOL 2200 or Prerequisites course required-BIMS 2200

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES
None
F. **STUDENT LEARNING OUTCOMES AND ASSESSMENT**

1. To increase your knowledge in a specific area of Biology and to communicate this information in a concise and orderly manner to your fellow students.
2. To increase your professional competency in the areas of literature research, organization, and visual aid.
3. To develop the ability and confidence in yourself that is required in orally presenting your views and knowledge concerning biological subjects.
4. To develop you skills in objectively evaluating the presentation/presenter of scientific.

G. **INSTRUCTIONAL METHODS AND ACTIVITIES**

Each Student will submit a typed containing the proposed title containing the proposed title and subject matter for his/her presentation. This page will be submitted within one week following the first seminar class meeting so that the topic may be approved and/schedule conflicts resolved.

Each student will conduct a 15-20 minute presentation on subject confined to the specific of the chosen seminar topic. The presentation should follow these guidelines.

a. Sufficient abstracts of your talk should be available for your audience. The abstracts should be titled and contain two full bibliographies for (1) cited literature and for (2) visual aid material.

b. The presentation should contain sufficient references to the cited literature to both guide and inform the listener

c. The presenter should employ use visual aids to the extent that points are clarified.

H. **MAJOR COURSE REQUIREMENTS AND GRADING**

**Attendance:** You are obligated by enrollment to attend each and every seminar as both an audience member and as a peer evaluator. Arrive early to class. Once the speaker begins the presentation, late students will be counted as absent.

**Instructor** evaluation of presentation: you will be graded on your depth of knowledge, organization, ability to answer questions, employment of proper visual aides and appearance. The Suggested time for each presentation is 15-20 minutes with a deduction from the students overall raw course grade one (1) full letter for presentation of less than 15 minutes.

**Intellectual** curiosity: As a listener your responsibility is to ask questions but not in order to make your presence known, but rather to clarify or expand upon a given point in the speakers presentation.

**The Final** grade in seminar is determined from a mean in which the instructors evaluation counts 2/3 and the peer evaluation means (minus the high and low for each mean calculation) counts 1/3. Adjust the raw grade due to absenteeism, insufficient presentation time or tardiness will be made if appropriate.
SUGGESTIONS:

Remember that you are speaking before friends and that everyone is hoping that you do as well as possible.

Do not prepare your seminar in haste. It will show, you don’t need to memorize presentation but do organize well. Do not read the entire presentation. PRACTICE, PRACTICE, PRACTICE.

It is absolutely necessary that you verbally cite authorities during your talk. This is a major point which separates a casual talk from a professional presentation.

As a listener, jot down questions in the margin of the abstract pages as you listen. Don’t leave questions to memory, they never seem to come back at the end of the talk.

The investment you make in the seminar as an undergraduate will reward you many times over as a graduate student or professional biologist.

Your Principal literature reference should be from recognized reference journals and from texts and/ monographs. The student is cautioned not to employ the literature citations that are not scrutinized by scientific professionals in an objective fashion. Other than for visual aide the internet website sources are not acceptable except where professional journals maintain such sites.

I. Important Notice:

Every student is urged to keep abreast of and all opportunities about research opportunities:
1. Send an email to: opportunities-list-request@sci.tamu.edu
2. In the subject field above, type: Subscribe

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)**
  The grade of W will be assigned to any student officially dropping a course by **June 17, 2016**. Please consult with the instructor before you decide to drop to be sure it is the best thing to do. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. Should dropping the course be the best course of action, visit the Office of the University Registrar for the Course Drop Form that must submitted. No student is eligible to receive a W without completing the official drop process by this deadline. Please consult the Academic 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, and the College of Science and Engineering Grade Appeals webpage at 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/

- **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.
Atherosclerosis

Atherosclerosis is the most common type of arteriosclerosis (hardening of the arteries). Atherosclerosis is hardening of the arteries due to the build up of plaque in the arteries. Plaques consist of cholesterol, fatty substances, calcium, etc. Plaques can be stable or unstable. Unstable plaques can rupture causing thrombosis to occur. Atherosclerosis affects different parts of the body depending on which artery is affected. The resulting affects can be stroke, myocardial infarct (heart attack), gangrene, and aneurism. Cholesterol is an important controllable factor in atherosclerosis. Cholesterol is used by the body in cell membranes, hormones, etc. It can stabilize the plaque in the arteries. Stability of the plaque is important. If the plaque is not stabilized, it can rupture causing thrombosis. Cholesterol is transported through the body via low-density and high-density lipoproteins. Low-density lipoproteins (LDL) transports cholesterol to the tissues. High-density lipoprotein (HDL) transports cholesterol to the liver, where it is passed from the body. Low levels of HDL, high levels of LDL, as well as a poor HDL:total cholesterol ratio are associated with poor cardiac fitness. Controllable risk factors associated with atherosclerosis are: high blood cholesterol, tobacco smoking, high blood pressure, diabetes, obesity, and physical inactivity. Medical treatment of atherosclerosis include: angioplasty, stenting, atherectomy, and medication.

Literature Cited


BIOL 4292
Seminar
Texas A&M University-Corpus Christi


Visual Aid References:


BIOL 4292
Seminar
Texas A&M University-Corpus Christi

http://www.merck.com/disease/heart/coronary_health/anatomy/cardio05.html

http://www.chemie.tudarmstadt.de/bi/Endothel.html

http://www.tmc.edu/thi/cad.html

http://www.medlib.med.utah.edu/WebPath/CVHTML/CV010.html

http://www.heartcenteronline.com/myheartdr/common/articles.cfm?articid=75$startpage=2#1

http://www.medlib.med.utah.edu/WebPath/CVHTML/CV009.html


http://www.medlib.med.utah.edu/WebPath/LIVEHTML/LIVER002.html

http://www.tmc.edu/thi/cad.html

http://www.tmc.edu/thi/cad.html

http://www.medlib.med.utah.edu/WebPath/CVHTML/CV012.html

BIOL 4292

Important Notice: Students enrolled in BIOL 4292 MUST take (or have taken) the Major Field Test in Biology. There is no charge to the student for taking this standardized test, but it will be administered outside of the regularly scheduled class periods. More information (including test dates and locations) will be distributed as it becomes available.
SENIOR PRESENTATION
BIOL 4292

REVIEWED
EVALUATION
FORM*

Preparation, organization
and knowledge of topic (also)
ability to respond to questions
(if asked any)

Appearance,
posture

Abstract
evaluation

Verbal citation of relevant literature

Adequate number and
proper use of visual
aids.

Clarity of presentation

Total evaluation points

*Please rank the above criteria on a scale of 1 to 4
4 = Excellent to outstanding; few if any improvements suggested
3 = Above average, overall good, but with minor improvements needed.
2 = Average; room for improvement, but adequate
1 = Below average to unsatisfactory, insufficient level of performance based on student's
potential. Serious inadequacies and/or room for many improvements.

NOTE: Please fill in all blanks
Suggestions: It is mandatory that you write out commentary for criticizing or commending
the speaker. Use the back if necessary

(continue comments on lower half of the back)