Science and Engineering First Year Seminar (UCCP 1101.811), Fall 2012
Science, Society, and Ourselves

Instructor: Mark McNamara  
Office: Faculty Center (FC) 123  
Email: Mark.McNamara@tamucc.edu  
Phone: 361-825-3364  
Office hours: M/W 3-3:30 in FC 123, T/TH 10:30-11 in BH 113, & 1:30-2:30 in FC 123  
Also by appointment any time I am available. See schedule on my homepage under the dancing crab.  
Home page: http://falcon.tamucc.edu/wiki/MarkMcNamara/Home

Science Learning Communities

FIRST-YEAR SEMINAR I. - 71094 - UCCP 1101 – 843  
Meets: 9:30 am – 10:20 TTH BH 113 No Composition

FIRST-YEAR SEMINAR I. - 71084 - UCCP 1101 – 812  
Meets: 11:00 am – 11:50 TTH BH 113 Johnson

FIRST-YEAR SEMINAR I. - 71542 - UCCP 1101 – 811  
Meets: 12:30 pm – 1:20 TTH BH 113 Johnson

Other Learning Community Classes:  
Biology 1407  
Chemistry 1311  
English Composition 1301 * if you have an English course linked to your learning community

Course Description:  
First Year Seminar I, is a discovery of the skills necessary for your success as a university student in science and as a future science professional. Acquisition of these skills is integrated into an exploration of the concepts encountered in one or more of the following classes: BIOL 1406, CHEM 1311, and in ENGL 1301 composition course. Seminar is a one credit hour discussion course where you learn to communicate verbally, work collaboratively on complex science topics, and relate them to your role as a developing scientist.  

To achieve success in science you will need 3 basic things:  
• Expert science knowledge and critical thinking ability.  
• Superb communication skills, specific to science discourse.  
• The ability to get along with others and work as a team.

The first year program provides students with the framework to achieve these critical goals by combining the science foundational courses of biology and chemistry with the first year writing course and seminar discussion course in an integrated first year experience.

This course uses both Blackboard and face-to-face class meetings. Be sure to check Blackboard daily for assignments, discussions, and other important announcements.

Seminar Course Objectives:  
The primary objectives of First Year Seminar are for students to:  
• Explore the interconnections among the Triad/Tetrad courses;  
• Develop critical thinking skills and significant learning;  
• Clarify personal values, goals, and strengths;  
• And develop the ability to learn through study, discussion, writing, cooperation, and collaboration

Seminar Learning Outcomes:  
• Students will apply interdisciplinary knowledge to address and analyze real-world issues  
• Students will interpret and evaluate various research materials and/or perspectives

Science Learning Community Specific Learning Outcomes:  
• Take personal responsibility and become a self-directed college learner.  
• Effectively read and comprehend scientific articles, reports, and books.  
• Evaluate the scientific accuracy of claims made in literature relating to science.  
• Apply scientific principles to make decisions.  
• Understand the scientific method.  
• Understand the assumptions and limitations of science.
Collaborate effectively as both an effective leader and follower.
Communicate on controversial topics related to science.
Relate science to other ways of knowing.
Understand the nature of scientific research.
Apply concepts of biology and chemistry to new situations.
Understand the role and purpose of different forms of science literature.
Effectively use library research tools to research on science topics.
Communicate about science topics verbally, in writing, and via multimedia presentation.
Understand and apply the conventions of science discourse.
Get along with others.
Develop awareness of one's present and future role in the science community.
Understand the role of science in greater sociopolitical world context.
Understand the role of mathematics in science.
Be able to use mathematics such as graphs and basic statistics to support scientific hypotheses.
Develop interpersonal communication skills.
Use online learning technology effectively.
Be successful.

Course Materials:
Seminar is a discussion course focused on the readings and information gained in your large lecture course/s. You will work with the books from your other learning community courses. Additional readings may also be supplied to you as handouts, online postings, or from your textbooks for discussion in seminar. As in your lecture classes it is vitally important that you keep up with readings that are assigned in all courses. If you do not keep up with readings it will affect your ability to participate in seminar discussions and will lower your participation grade. Freestanding seminars not connected to composition will not be required to purchase the composition texts, but they are recommended. Daily computer access is required.

Course Evaluation:
- **Attendance:** 20% - Active participation is absolutely vital to this class. Your knowledge and opinion is valued and appreciated at every class meeting. **While this syllabus gives an outline of the course, most of the detailed information needed to understand and complete the assignments will be conveyed through in-class discussions. If you are not present and engaged in these discussions, you will be lost.**
  - Attendance is taken randomly 10 times per semester.
    - I will record 10 participation grades throughout the semester randomly worth 10 points each.
    - These attendance grades may come from completing online assignments, in class writings or handouts, informal reading quizzes, sign in sheets.
    - **It is up to the student to pay close attention at all times to know when and how attendance is counted since any exercise may become an attendance grade.**
    - Always keep up with required readings in all learning community classes.
    - You cannot be successful in college unless you develop the habit of never missing any class, so if your punctuality or your attendance becomes a serious problem I will speak with you individually.
    - I curve your attendance grade by 20%. This means you may miss 2 classes and still have a 100 for attendance. On the other hand, if you miss no classes, you will have 120% for your attendance grade!
- **Participation:** 10% - This course is designed to be effective when students actively engage and contribute to the success of the class, therefore a participation score of 0 to 100 will be given based on your contribution to the class. An A is not difficult to attain if you come to class, bring in any requested material, are prepared for discussion, and actively engage in a positive way. However, simply showing up will not earn you full points. Your participation in discussions, group work, etc. will determine your participation grade. Obviously if you have an attendance problem, you can expect this score to be correspondingly low, but factors such as excessive off topic talking, sleeping, inappropriate internet use (Facebook, email, games, chat) and other inappropriate behaviors will lower your participation grade. Being a good citizen of the university and learning community is **required**.
- **Reflective Assignments:** 40% - Three reflective assignments will comprise 40% of your course grade. Consider these assignments to be like your “exams” and the Integrated Research Experience discussed below to be like your final exam. The reflective assignments are designed to develop your metacognitive abilities. Metacognition basically means thinking about your own thinking. The more you reflect on your own experiences in college and make positive steps to improve, the better you will do. The three assignments are as follows. More information will be given in class.
• Group Video- Adjustment to University Life: Living your Islander Pledge - 10%
• Academic Portfolio- Prove how you are adapting academically with documents, pictures and words- 15%
• End of Semester Reflection- Action Plan for Next Semester Success- 15%

• Integrated Research Experience- Composition/ Seminar Scientific Poster Presentation- 30%
  First year seminar I is a true academic seminar class, where in conjunction with your composition class (if you have one) you will work as a research team with classmates to become subject matter experts on a current topic of science, in an area of mutual interest. Through collaborative library research, a writing sequence designed for science students, and regular discussions in seminar, you will ultimately produce and present a scientific poster presentation to tetrad faculty, students, and other invited guests. This is a shared tetrad interdisciplinary assignment combining your writing, discussion, presentation, biology, chemistry, and other interdisciplinary skills.

  The assignment consists of the following graded components:

  o Writing process:
    ▪ Team contract/Teamwork (2%)
    ▪ Annotated bibliography (4%)
    ▪ Draft presentations (4%)

  o Final Presentations (20%)*
    ▪ In class and at First Year Celebration

*Final presentation grade for the assignment will be included in your final grade for all Learning Community classes (see each instructor syllabus for details). By the end of the first year, students will have the skills and confidence needed to present complex information clearly at any academic conference. You will present your topic at Celebration Day.

Assignment Due Dates:

• Thursday, August 23- First Day of classes
• Friday, August 31- Syllabus Quiz due on Blackboard by 11pm, Class Photo Album Powerpoint slide due on discussion forum in Blackboard by 11pm
• Friday, September 7- Research Team Contract due on Blackboard by 11pm
• Tuesday, September 25- Reflective Assignment 1- Group Video turned in to Blackboard by class time. Be prepared to present them in class.

• Friday, October 11- Annotated Bibliography due by 11pm
• Friday, October 26- Reflective Assignment 2- Online Academic Portfolio due on Blackboard by 11pm
• Friday, November 9- Draft of Poster in PowerPoint Format due to blackboard by 11pm. Be prepared to present these drafts as a rehearsal next week.

• Monday-Wednesday, Nov 19, 20, 21 – Final Poster Presentation. Your group will sign up for a presentation time on one of these days.

• Thanksgiving Nov 22- Eat /Watch Football
• Thursday, November 29- Celebration Day Poster Presentation
• Friday, November 30- Reflective Assignment 3- End of Semester Reflection due by 11pm
• Tuesday, November 4- Last day of seminar, Assessment of Collaboration
I require few assignments, so note that if you fail to turn in any assignment you drop one to two full letter grades.

If you do not have composition, or if you drop composition or other tetrad classes during the semester, you must still complete all assignments, or contact me via email and in person for alternate assignments.

Expectations:
In this class we are learning how to be successful both in college and in life as science professionals. For this reason my philosophy is to treat you as the professional that you are aspiring to be. Let this thought guide you any time that you are not sure how you should conduct yourself in seminar:

"How would I be expected to conduct myself if I were already working as a professional scientist and if my paycheck depended on professional behavior."

- To further guide you here are a few suggestions:
  - Your participation is appreciated and expected, but make sure that you have the floor before speaking!
  - Only one person should speak at any given time.
  - Silence all electronic devices during a meeting.
  - Use portable devices maturely to add to the discussion, but do not allow them to distract you.
  - Absolutely do not check e-mail, text messages, play games, surf the web, or receive non-emergency communications of any kind via any electronic device unless it is part of the class discussion.
  - The preferred method of contacting me is via email. If you ask me something in class, be prepared to follow up the discussion with a reminder email.
  - Your writing in e-mail should be very concise and to the point, but should also be professional.
  - E-mail is not the same as instant messaging or text messaging and should have appropriate grammar, punctuation, and capitalization throughout even if you are using a handheld device.

Rights Responsibilities and Civil Discourse:
Students are expected to read and follow the University Code of Conduct in the Student Handbook, given to them in class at the beginning of the 1st semester. They are expected to conduct themselves according to the Islander Pledge.

Students with Disabilities and Veterans:
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 or visit Disability Services at (361) 825-5816 in Driftwood 101. 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.

Academic Advising:
The College of Science and technology 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. The College's Academic Advising Center is located in Faculty Center Room 178. Phone is (361) 825-6094.

Grade Appeal Process:
As stated in University Rule 13.02.99.C2, Student Grade Appeals, 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 Rule 13.02.99.C2, Student Grade Appeals, and University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules Web site at http://www.tamucc.edu/provost/university_rules/index.html. For assistance and/or guidance in the grade appeal process, students may contact the Office of Student Affairs.

I am thrilled that you chose Texas A&M University- Corpus Christi and Science Learning Communities.
Go Islanders!