

## Seminar in Mathematical Biology Syllabus

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**Office Hours:** by appointment or drop by

**Course Number, Section Number, and Course Title:** MATH/BIOL 4150 Seminar in Mathematical Biology

### Time and Place of Class Meetings:

Friday 11:00- 12:00 pm: Cohort 2 B27 Computer lab, Cohort 3 LS 128

**Description of Course Content:** A one hour discussion of research in mathematical biology.

**Required Textbooks and Other Course Materials:** None

**Descriptions of major assignments and examinations with due dates:** Attendance and participation is required for a passing grade. Students will have to work in groups of two to lead one paper discussion.

**Student learning outcomes:** to learn about current research at the interface of Math and Biology.

### Weekly Schedule – Cohort 2 Life Science B27 Computer lab

**Jan 20<sup>st</sup>** - Orientation (all cohorts) in LS 128

**Jan 27<sup>th</sup>** – Write ACES abstracts

**Feb 3<sup>th</sup>** - Write ACES abstracts/Work on technical report

**Feb 6<sup>th</sup>** – ACES abstracts due

**Feb 10<sup>th</sup>** – Write **SMB Annual Meeting** abstracts

**Feb 17<sup>th</sup>** – Work on technical report

**Feb 24<sup>th</sup>** - Work on technical report

**March 2<sup>th</sup>** - work on ACES talk/poster

**March 9<sup>th</sup>** – work on ACES talk/poster

**March 16<sup>th</sup>** – Spring Break

**ACES Thursday March 22<sup>nd</sup>**

**March 23<sup>rd</sup>** - Frederick R. Adler, Professor of Mathematics and of Biology Department of Mathematics University of Utah (<http://www.math.utah.edu/~adler/>)

**March 30<sup>th</sup>** – work on technical report

**April 6<sup>th</sup>** – work on MAA presentations

**April 13<sup>th</sup> – No Class** -Texas MAA meeting April 12 - 14, 2012:  
<http://www.elcentrocollege.edu/Program/CommMath/maa/>

**April 20<sup>th</sup>** - Hermann J. Eberl, Professor and Canada Research Chair, Director, Biophysics Interdepartmental Program, Department of Mathematics and Statistics, University of Guelph, Canada (<http://www.uoguelph.ca/~heberl/>)

**April 27<sup>th</sup>** – Phil Stewart, Director, Center for Biofilm Engineering, Professor, Chemical and Biological Engineering, Montana State University  
(<http://www.biofilm.montana.edu/people/faculty/stewart-phil.html>)

**May 4<sup>th</sup>** – Final meeting – Technical report due

**2012 SMB Annual Meeting July 25-28, 2012:** <http://www.nimbios.org/SMB2012/>

### **Weekly Schedule – Cohort 3 LS 128**

**Jan 20<sup>st</sup>** - Orientation (all cohorts) in LS 128

**Jan 27<sup>th</sup>** – The scientific method/Hypothesis development and testing

**Feb 3<sup>th</sup>** - Vector- born diseases

**Feb 10<sup>th</sup>** – Vector- born diseases

**Feb 17<sup>th</sup>** – Vector- born diseases

**Feb 24<sup>th</sup>** – Wildlife diseases

**March 2<sup>th</sup>** - Wildlife diseases

**March 9<sup>th</sup>** – Bacteria physiology

**March 16<sup>th</sup>** – Spring Break

## **ACES Thursday March 22<sup>nd</sup> – Go see Cohort 2 presentations**

**March 23<sup>rd</sup>** - Frederick R. Adler, Professor of Mathematics and of Biology Department of Mathematics University of Utah (<http://www.math.utah.edu/~adler/>)

**March 30<sup>th</sup>** – Bacterial physiology

**April 6<sup>th</sup>** – Bacterial physiology

**April 13<sup>th</sup>** - Texas MAA meeting April 12 - 14, 2012:  
<http://www.elcentrocollege.edu/Program/CommMath/maa/>

**April 20<sup>th</sup>** - Hermann J. Eberl, Professor and Canada Research Chair, Director, Biophysics Interdepartmental Program, Department of Mathematics and Statistics, University of Guelph, Canada (<http://www.uoguelph.ca/~heberl/>)

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(<http://www.biofilm.montana.edu/people/faculty/stewart-phil.html>)

**May 4<sup>th</sup>** – Final meeting

### **Important University Policies**

**Drop Policy:** Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance.** Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. Contact the Financial Aid Office for more information.

**Americans with Disabilities Act:** The University of Texas at Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including the *Americans with Disabilities Act (ADA)*. All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Any student requiring an accommodation for this course must provide the instructor with official documentation in the form of a letter certified by the staff in the Office for Students with Disabilities, University Hall 102. Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at [www.uta.edu/disability](http://www.uta.edu/disability) or by calling the Office for Students with Disabilities at (817) 272-3364.

**Academic Integrity:** It is the philosophy of The University of Texas at Arlington that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures. Discipline may include suspension or expulsion from the University. According to the UT System Regents' Rule 50101, §2.2, "Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts."

**Student Support Services Available:** The University of Texas at Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. These resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals to resources for any reason, students may contact the Maverick Resource Hotline at 817-272-6107 or visit [www.uta.edu/resources](http://www.uta.edu/resources) for more information.

**Electronic Communication Policy:** The University of Texas at Arlington has adopted the University "MavMail" address as the sole official means of communication with students. MavMail is used to remind students of important deadlines, advertise events and activities, and permit the University to conduct official transactions exclusively by electronic means. For example, important information concerning registration, financial aid, payment of bills, and graduation are now sent to students through the MavMail system. All students are assigned a MavMail account. ***Students are responsible for checking their MavMail regularly.*** Information about activating and using MavMail is available at <http://www.uta.edu/oit/email/>. There is no additional charge to students for using this account, and it remains active even after they graduate from UT Arlington. To obtain your NetID or for logon assistance, visit <https://webapps.uta.edu/oit/selfservice/>. If you are unable to resolve your issue from the Self-Service website, contact the Helpdesk at [helpdesk@uta.edu](mailto:helpdesk@uta.edu).