

## **Introduction to Translational Science**

Wednesday 3-5PM, AL&TC 1.105

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### **Introduction to Translational Science Competencies**

1. Define and explain basic principles, processes, and outcomes of translational research across its entire spectrum.
2. Define and identify the resources needed to conduct T1, T2, T3 and T4 research.
3. Display knowledge of T1, T2, T3 and T4; how they interact with each other to improve human health.

### **Class Assignments and Grades**

There will be assigned readings, mostly review articles. Each student will be expected to actively participate in class primarily through discussion. Students will be paired for a final project. Each pair will choose an example of Translational Research and explain how the chosen example meets the requirements of T1, T2, T3 and T4 research. Each pair will have 20 minutes (10 minutes for each partner) and 10 minutes of active discussion from the rest of the class. The presentations will be on the last days of class and be worth 50% of the grade. The other 50% will be based on class participation throughout the semester.

Each student will be allowed one unexcused absence. More than one unexcused absence will result in a grade of unsatisfactory. There will be a mandatory sign-in sheet for each class.

## **Reading Assignments**

Reading assignments will consist of original and review articles that pertain to the topic of the next class.

A pdf file of the slides for the next lecture will be provided online.

## **Computer Requirements:**

Students are required to have a laptop computer that can connect to and operate over a wireless network.

Software required:

- Microsoft Office Suite (A personal copy of the latest version can be purchased at The UTHSCSA bookstore at student pricing with a student ID)

All laptops will connect to The UTHSCSA network via the HSCwave broadcast wireless connection. Authentication for wireless use is based on The UTHSCSA domain username and password.

Assistance is available thru the IMS Service Desk

- Telephone:(567-7777
- E-mail ([ims-servicedesk@uthscsa.edu](mailto:ims-servicedesk@uthscsa.edu))

## **REQUESTS FOR ACCOMODATIONS FOR DISABILITIES**

In accordance with policy 4.2.3, **Request for Accommodation Under the ADA and the ADA Amendments Act of 2008 (ADAAA)**, any student requesting accommodation must submit the appropriate request for accommodation under the American with Disabilities Act (ADA, form 100). to his/her appropriate Associate Dean of their School and a copy to the ADA Coordinator. Additional information may be obtained at <http://uthscsa.edu/eo/request.asp>.

## **ACADEMIC INTEGRITY AND PROFESSIONALISM**

Any student who commits an act of academic dishonesty is subject to discipline as prescribed by the UT System Rules and Regulations of the Board of Regents. Academic 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 exam for another person, signing attendance sheets for another student, and any act designed to give unfair advantage to a student or the attempt to commit such an act. Additional information may be obtained at <http://catalog.uthscsa.edu/generalinformation/generalacademicpolicies/academicdishonestypolicy/>

## **TITLE IX AT UTHSCSA**

### **Title IX Defined:**

Title of the Education Amendments of 1972 is a federal law that prohibits sex discrimination in education. It reads “no person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance.”

### **University of Texas Health Science Center San Antonio’s Commitment:**

University of Texas Health Science Center San Antonio (UTHSCSA) is committed to maintaining a learning environment that is free from discriminatory conduct based on gender. As required by Title IX, UTHSCSA does not discriminate on the basis of sex in its education programs and activities, and it encourages any student, faculty, or staff member who thinks that he or she has been subjected to sex discrimination, sexual harassment (including sexual violence) or sexual misconduct to immediately report the incident to the Title IX Director.

In an emergency, victims of sexual abuse should call 911. For non-emergencies, they may contact UPD at 210-567-2800. Additional information may be obtained at <http://students.uthscsa.edu/titleix/>

**E-mail** questions, concerns, topics at anytime to [loverde@uthscsa.edu](mailto:loverde@uthscsa.edu). At the same time, students are expected to check their university email inboxes on a regular basis so that any announcements, instructions, or information regarding this course will be received in a timely manner. Missed communications due to inadequate monitoring of incoming emails on the University's email server is not a valid excuse.

**Please note that the first class is on August 29. October 3, 10 and 24 classes are each a week apart.**

<p>August 28 Lecturer-Philip LoVerde</p>	<p><b>Translational Science (TS), an Evolving Discipline</b> T1 ↔ T2 ↔ T3 ↔ T4 Team Science Funding Resources for TS: NIH,WHO, Foundations, Industry; CTSA infrastructure</p>
<p>September 11 Lecturer-Phil LoVerde</p>	<p><b>Overview of Responsible Conduct of Research in TS</b> Animals Humans Conflict of Interest <b>Cervical Cancer and Human Papilloma Virus (HPV)</b></p>
<p>September 25 Lecturer-Phil LoVerde</p>	<p><b>Bench to Bedside (T1 → T2)</b> <b>Causal relationship between HPV and Cervical Cancer; Development of a vaccine</b> <b>Clinical Trials (T2)</b> Phase I (T2), Phase II (T2), Phase III (T2)</p>

	<b>HPV Clinical Trials</b>
October 9 Lecturer-Phil LoVerde	<b>T3: Implementation Research</b> Health Services Research Practice-based Research Networks (PBRN) Community-based participatory research <b>HPV Vaccine / Industry / Clinical Trials</b>
October 23 Lecturer- Leonid Bunegin	<b>Industry and Business</b> Industry vs. Academia Industry ↔ Science <b>Patents</b>
October 30 Lecturer-Phil LoVerde	<b>T4: Policy, Politics and Society</b> <b>Marketing and Bias</b> <i>HPV Vaccine Use / Marketing HPV Vaccine / Politics and Society</i>
November 20 Lecturer - Phil LoVerde, Students	Student presentations
December 4 Lecturer-Phil LoVerde Students	Student presentations