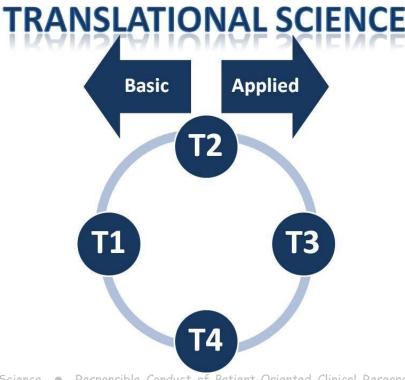


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Introduction to Translational Science Responsible Conduct of Patient-Oriented Clinical Research Patient-Oriented Clinical Research Methods Patient-Oriented Clinical Research Principles Clinical Research Patient-Oriented Clinical Research Principles Commentation of Research Principles Commentation of Research Principles Commentation of Research Principles Clinical Research Principles Commentation of Research Principles Clinical Research Principles

CTS Program policies and guidelines are in compliance with those established by the UT System (http://www.utsystem.edu/) Board of Regents (https://www.utsystem.edu/offices/board-regents/regents-rules-and-regulations), The UT Health San Antonio (https://www.uthscsa.edu/hop2000/), and the Graduate School of Biomedical Sciences (https://catalog.uthscsa.edu/) of UT Health San Antonio provides general information and regulations that relate to students. In the event of discrepancies between MSCI-TS Program policies/guidelines and those established by UT governing components, those described by the governing components will prevail.

Please note that the policies of the CTS Program are regularly reviewed and updated; therefore, this printed copy may not be the most current. Current policies are provided in the CTS Handbook that is electronically available at the CTS website: http://iims.uthscsa.edu/ed_certificate_in_ts.html



CTS Program
IIMS/OREM – MC 7757
UT Health San Antonio
7703 Floyd Curl Drive
San Antonio, Texas 78229-3900
210-567-4631 (voice)
E-mail: machuca@uthscsa.edu

UT Health San Antonio is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (http://www.sacscoc.org/) (1866 Southern Lane, Decatur, Georgia 30033-4097; telephone number 404-679-4501) to award certificates, and baccalaureate, master's, doctoral, and professional degrees.

Certificate in Translational Science Program, Policies, and Guidelines — Graduate School of Biomedical Sciences Copyright © 2019 UT Health San Antonio

Certificate in Translational Science (CTS)

Program, Policies, and Guidelines

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UT HEALTH SCIENCE SAN ANTONIO GRADUATE SCHOOL OF BIOMEDICAL SCIENCES

Certificate in Translational Science (CTS)

AIMS/OBJECTIVES

The goal of this program is to provide graduate students, postdoctoral fellows, faculty, and other health care professionals with formal education in the essential components of translational science. That is, the advancement of scientific discoveries made in basic biomedical research towards clinical applications and improvements in human health. This training program will prepare professionals to integrate within interdisciplinary investigative teams for the conduct of clinical and translational research in culturally diverse settings.

The specific aims of the CTS Program are to:

- Support the intellectual environment at UT Health San Antonio for clinical and translational science.
- Provide fundamental curricular activities in translational science to
 UT Health San Antonio students, postdoctoral trainees, clinical residents and fellows,
 and faculty from the Schools of Medicine, Nursing, Dentistry, Allied Health, and
 Graduate School of Biomedical Sciences (GSBS) as well as from local organizations
 that are partnered with UT Health San Antonio.

The aims of the CTS Program will be achieved *via* participation and successful completion of required didactic coursework.

Certificate Program Governance

Oversight for the routine operations and implementation of the Certificate in Translational Science (CTS) Program will be provided by the Master of Science in Clinical Investigation and Translational Science (MSCI-TS) Program and the corresponding MSCI-TS Committee on Graduate Studies (COGS).

Admission Requirements

All students should have a sufficient educational background in the biological or biomedical sciences prior to admission to the program. It is expected that most students will have a health professional degree (*e.g.*, MD, DDS/DMD, DVM, or BS in nursing and/or allied health) or a BS/BA, MS, or PhD degree with emphasis in a health-related discipline. The following general requirements will be applied:

- A medical, dental, master's and/or baccalaureate **degree** from an accredited institution in the United States or an U.S. equivalent degree and training at a foreign institution as determined by an evaluation from the Educational Credential Evaluators, Inc. (ECE) or the World Education Services, Inc. (WES) of the foreign transcripts.
- A grade point average (GPA) no lower than B (3.00 in a 4.00 system) in the last 60 hours of coursework for a BS/BA degree or a GPA of at least 3.0 for applicants with a MS degree.
- A satisfactory score for the combined verbal and quantitative portions of the Graduate Record Examination (GRE). Scores on GRE tests taken more than five years prior to the date of application will not be accepted. Applicants who have completed a graduate degree in a health-related discipline or an U.S. equivalent degree (if awarded from a foreign institution, in a health-related discipline) (MD, DDS, RN, or PhD) are exempted from the requirement to complete the GRE.
- A minimum score of 560 on the paper version or 68 on the internet version of the Test of English as a Foreign Language (**TOEFL**) or 6.5 on the academic version of the International English Language Testing System (**IELTS**) for applicants from countries where English is not the native language. Scores on the TOEFL and IELTS (academic version) tests taken more than two years prior to the date of matriculation will not be accepted.

Applicant Documentation Requirements

- 1. **Completed and submitted GSBS online application.** The GSBS online application can be found on the GSBS homepage at http://www.uthscsa.edu/academics/biomedical-sciences/what-know-you-apply.
- 2. **Official transcripts** from **ALL** colleges and universities attended.
- 3. **Course by Course Translation of foreign** transcripts to include GPA and U.S. degree equivalency by the ECE or WES agencies.
- 4. **Official GRE scores** taken within the past five (5) years.

- 5. **Official TOEFL or IELTS (academic version) scores** taken within the past two (2) years for foreign national applicants.
- 6. **Three (3) Letters of Recommendation** attesting to the applicant's readiness for graduate level studies in translational science. These letters should be uploaded to the Recommendation Form by the individual recommenders who will receive an email from the online application system (EMBARK) with a link to the Recommendation Form.
 - 1. Students from a GSBS graduate program who have a Supervising Professor are required to submit one (1) of the three (3) letters from their Supervising Professor with a statement indicating the availability and approval of release time for the completion of the CTS educational activities.
 - 2. Residents or fellows in an approved UT Health San Antonio residency or fellowship program are required to submit one (1) of the three (3) letters from the departmental chair with a statement indicating the availability and approval of release time for the completion of the CTS educational activities.
 - **3.** UT Health San Antonio faculty and staff are required to submit one of the three (3) letters from their authorized supervisor with a statement indicating the availability and approval of release time for the completion of the CTS educational activities.
- 7. A **Statement of Purpose** (a.k.a. **Personal Statement**) (1-2 pages) that includes a brief description of the applicant's background, long term research and/or career goals, and an indication of the basis for application into the CTS Program including how this program fits into the applicant's career objectives. The Statement of Purpose should be submitted with the on-line application to the GSBS.
- 8. A **current curriculum vitae.** This should be submitted with the on-line application to the GSBS.
- 9. A copy of current visa for foreign national applicants.
- 10. Copy of U.S. Medical License/Certificate for licensed health care professionals.

Official test scores, transcripts, and foreign transcript translations, mentioned above, should be sent to:

Registrar's Office-Graduate Admissions MSC 7702 UT Health San Antonio 7703 Floyd Curl Drive San Antonio, Texas 78229-3900

> gsprospect@uthscsa.edu Phone: 210-567-2667

Applicants should utilize the <u>checklist</u> of required documentation for admission that is provided in the Appendix of this Handbook.

All of the **required** information previously discussed **must** be submitted in order for an applicant to be considered by the MSCI-TS Student Admissions Committee. Requests for an exemption to any of these general admission requirements should be addressed to the CTS Program Director and sent directly to the CTS Academic Coordinator at the address below.

Academic Coordinator CTS Program Room 7.742F (MED) IIMS/OREM - MC 7757 UT Health San Antonio 7703 Floyd Curl Drive San Antonio, Texas 78229-3900

Application Process

Application. An <u>online application</u> for admission into the CTS Program must be processed through UT Health San Antonio Graduate School of Biomedical Sciences (GSBS). This application is available at: <u>uthscsa.edu/academics/biomedical-sciences/what-know-you-apply.</u>

As described in the online application for admission into the GSBS, official transcripts from **ALL** colleges and universities attended by the applicant are required; these must be submitted in sealed institutional envelopes. In addition, all transcripts from foreign institutions must be translated and submitted by one of the above mentioned approved foreign credentialing evaluation agencies. Official GRE and TOEFL test scores must also be submitted

Deadlines. The CTS Program has an open application policy and will accept applications for admission at any time. However, *GSBS deadlines* (submission of application and required documentation) for matriculation in a specific academic semester are listed below.

Applicatio	n Deadlines
Fall Semester	April 1
Spring Semester	October 1
Applicants Requiri	ng an F-1, J-1 or H-1B Visa:
Fall Semester Only:	February 1

Applicants will have the responsibility for the timely submission of application materials in order to meet the deadlines established by the GSBS for registration and course enrollment.

Application Review. Operational processes used by the CTS Program are provided by the Master of Science in Clinical Investigation and Translational Science (MSCI-TS) Committee on Graduate Studies (COGS). Thus, after receipt of the online application together with all of the required admission

materials outlined above, the MSCI-TS Admissions Committee will review and provide a recommendation to the MSCI-TS COGS.

Each application will be individually reviewed to consider: the applicant's undergraduate and graduate course work and degree(s), scores on the GRE and TOEFL or IELTS (academic version), if applicable tests, research experience, and all other required documentation submitted with the online application. The admission decision is based on the personal statement as well as record of academic achievement, research experience, coursework, and letters of recommendation.

After sequential review by the MSCI-TS COGS and the GSBS, applicants will be formally notified of the outcome by the Graduate Dean of the Graduate School of Biomedical Sciences (GSBS). The MSCI-TS COGS recommends admission to the most highly qualified applicants regardless of ethnicity, gender, age, sexual orientation, nation of origin, or disability.

After acceptance, students may complete the requirements for certificate completion while enrolled as either a full-time or part-time student.

Graduate students who are enrolled in the Master of Science in Clinical Investigation and Translational Science (MSCI-TS) Program or the Certificate in Cancer Prevention (CCP) Program are ineligible to concurrently enroll in the CTS Program. However, coursework accomplished towards the Certificate in Translational Science may be applied to the MSCI-TS degree or the CCP.

Tuition and Fees

Tuition and Fees. Rates for in-state and out-of-state graduate student tuition and fees are established by the institution and subject to adjustment. A summary of current rates is provided in the Appendix.

Student Pathways in the CTS Program

Regular Students. After acceptance as a candidate working towards the certificate, students may undertake course requirements for graduation while enrolled as either a full-time or part-time student.

Full-Time students. Full-time students are enrolled in **at least eight (8)** semester credit hours (SCH) per semester during the Fall and Spring semesters.

Part-time Students. Part-time students are enrolled for **minimum of four (4)** credit hours per semester during the Fall and Spring semesters.

UT Health San Antonio Faculty and Staff as Students in the CTS Program.

UT Health San Antonio faculty and staff may apply for admission in the CTS Program. The amount of course work that can be taken by faculty or staff in a given semester is subject to the 'quantity of work' rules outlined in the current UT Health San Antonio <u>Catalog</u> and <u>Handbook of Operating Procedures</u> (HOP).

Non-Degree Seeking Students in the GSBS. Non-degree seeking students may enroll in courses and receive GSBS course credit *without* matriculation (admission) into a graduate program. For those not already matriculated into other GSBS graduate programs, an <u>on-line application</u> must be submitted to the GSBS for approval by the Dean [this would also include UT Health San Antonio faculty, staff, or others]. The appropriate Course Director must approve the enrollment of any non-degree seeking student in their course and sign course cards (provided by the GSBS Dean's office).

Course credit earned as a non-degree seeking student can be applied towards a Certificate in Translational Science following formal application and acceptance into the CTS Program. Note that enrollment as a non-degree seeking student in the GSBS is limited to four (4) semesters. Additional details about non-degree seeking students are available at:

http://gsbs.uthscsa.edu/graduate_programs/non-degree-student-status

Certificate Requirements

Coursework. Completion of the CTS Program requires the satisfactory completion of required and elective coursework. Twelve (12) semester credit hours (SCH) of didactic coursework are required to obtain the CTS. All course-related rules established by the MSCI-TS Program and listed in the MSCI-TS Handbook will be endorsed and followed by the CTS Program.

Required Courses. Students in the CTS Program must successfully complete the following didactic courses.

TSCI 5070 (2 SCH)	Responsible Conduct of Research
TSCI 5071 (2 SCH)	Patient-Oriented Clinical Research Methods -I
TSCI 5072 (2 SCH)	Patient-Oriented Clinical Research Biostatistics - I
TSCI 6001 (1 SCH)	Introduction to Translational Science
TSCI 6101 (1 SCH)	Topics in Translational Science

Elective Courses. Diverse elective courses are available to CTS graduate students. These courses may be taken in any semester when offered and include:

TSCI 5050 (1 SCH)	Introduction to Data Science
TSCI 5073 (1 SCH)	Integrating Molecular Biology with Patient-Oriented Clinical Research
TSCI 5074 (2 SCH)	Data Management, Quality Control, and Regulatory Issues
TSCI 5075 (2 SCH)	Scientific Communication
TSCI 5076 (1 SCH)	Introduction to Informatics

TSCI 5077 (1-3 SCH)	Practicum in Translation Science
TSCI 5078 (1 SCH)	Introduction to Intellectual Property, Tech Transfer, & Communication
TSCI 5079 (.5 SCH)	Practicum in Intellectual Property, Tech Transfer & Communication
TSCI 5080 (1 SCH)	Practicum in Integrating Molecular Biology with Patient-Oriented Clinical Research
TSCI 6060 (2 SCH)	Patient-Oriented Clinical Research Methods -2
TSCI 6061 (2 SCH)	Patient-Oriented Clinical Research Biostatistics - 2
TSCI 6064 (1 SCH)	Grantsmanship and Peer Review
TSCI 6065 (2 SCH)	Health Services Research
TSCI 6067 (1 SCH)	Genomic Healthcare
TSCI 6100 (1 SCH)	Practicum in IACUC Procedures
TSCI 6102 (1 SCH)	Practicum in IRB Procedures
TSCI 6105 (1 SCH)	Topics in Cancer Prevention
TSCI 6106 (.5 – 1 SCH)	Practicum in Cancer Prevention Science

Timeline for Coursework. A typical schedule for a full-time CTS student is provided in the Appendix of this Handbook.

Coursework towards a Certificate in Translational Science must be accomplished within three (3) or less years prior to request for certification. Exceptions to this requirement will be considered by the MSCI-TS COGS on a case-by-case basis. A written request for exemption must be submitted to the CTS Program Director through the CTS Academic Coordinator and should include a brief description of the reason(s) for the request.

Grade Requirement. As detailed by the MSCI-TS Program, student performance in MSCI-TS courses is assessed on a satisfactory (S) / unsatisfactory (U) basis. Any student who receives less than a Satisfactory (S) assessment in any CTS required course will be required to re-take the course and receive a passing grade during the next academic year. In the event of a second failure in the same course, the MSCI-TS COGS will provide a recommendation to the GSBS Dean as to whether or not the student should be dismissed from the CTS Program.

Exemption of a Required Course. Exemptions to the requirement for completion of a required course will be considered by the MSCI-TS COGS on a case-by-case basis. A written request for exemption must be submitted to the CTS Program Director through the CTS Academic Coordinator and should include a brief description of the reason(s) for the request. In the event that prior coursework conducted at another institution is the basis for the request, details regarding the content of the substitute

course(s) must be provided. In the event that prior coursework conducted at another institution is the basis for the request the following supporting documents are required in addition to the written request.

- Official copy of the transcript from the institution where the course was taken, the transcript should include the number of credit hours earned and indicate successful completion of the course.
- Copy of the course description from the catalogue in effect when the course was taken.
- Copy of the course syllabus during the semester taken, if available.

MSCI-TS COGS approval of a request for exemption to a required course does not automatically result in approval of course credit hours towards the CTS degree. Transfer of coursework for credit is described below.

Transfer of Coursework for Credit. If a student has successfully completed graduate level coursework that is duplicative of required CTS courses, it is possible that transfer of course credit may be allowed. A written request for consideration of transfer of course credit in substitution for a given CTS course must be submitted to the CTS Program Director through the CTS Academic Coordinator. This request should include a comprehensive description of the prior course detailing when and where completed, course contact hours, and details of course content and objectives. The request should include an official transcript that indicates successful course completion and the grade issued. If the transfer of credit request is approved by the MSCI-TS COGS, the program will prepare a request for transfer of course credit (on the GSBS form) and submit to the GSBS for consideration/approval by the Dean. In no case will the allowable semester credit hour(s) of transfer for a given course exceed that of the corresponding MSCI-TS course. No more than 3 semester credit hours may be transferred towards the completion of a Certificate in Translational Science.

Class Attendance and Makeup Policy

Attendance. Attendance at scheduled classes and examinations is crucial to meeting course and program objectives. Therefore, regular attendance in class is expected of each student. Attendance is defined as being present within 15 minutes after the scheduled beginning of the class and until 15 minutes before the scheduled ending of the class.

Excused absences may be granted by the Course Director in cases such as formal presentations at scientific meetings, illness, or personal emergency. Excused absences are considered on an individual basis and require electronic communication with the Course Director to request an excused absence. The email request to the Course Director for consideration of an excused absence must provide details regarding the circumstances and specific dates. It is expected that students will provide *advanced notice* of absence for scheduled events.

Repeated unexcused absences make it impossible to achieve course objectives. Thus, if a student has excessive unexcused absences in a given course, they will automatically receive a grade of *unsatisfactory* unless *makeup* has been approved by the Course Director (see below). Allowable unexcused absences will be determined by the credit hours of the course as follows:

Course (Semester Credit Hours	Allowable Unexcused Absences
3	3
2	2
1	1

Absence Makeup. Makeup of absences (both excused and unexcused) is allowed at the discretion of the Course Director.

Other CTS Program Requirements



Laptop Computers. A required class (TSCI 5072) requires a laptop computer that is operational in a wireless mode. Software required for this course includes:

- Microsoft Office Suite (can be purchased at the UT HEALTH SAN ANTONIO bookstore with a student ID)
- R & R Studio (Open source, free, latest version)
 https://www.rstudio.com/products/RStudio/
 https://www.r-project.org/

Laptops with an Apple Mac-based operating system must be able to also perform as a PC-based operating system.

All laptops will connect to UT Health San Antonio network via the HSCwave broadcast wireless connection. Authentication for wireless use is based on the UT Health San Antonio domain username and password. Verification of proper operation **prior** to the start of class is highly recommended.

Assistance is available thru the IMS Service Desk (210-567-7777 or ims-servicedesk@uthscsa.edu). Assistance is also available at the IMS Student Support Center (ALTC 106).

Ethics/Professionalism Policy

The CTS Program expects all students to exhibit the highest standards of conduct, honesty, and professionalism. Academic misconduct includes activities that undermine the academic integrity of the institution. The University may discipline a student for academic misconduct as outlined in the UT Health San Antonio Catalog and Handbook of Operating Procedures. Academic misconduct may involve human, hard-copy, or electronic resources. Policies of academic misconduct apply to all course-, department-, school-, and university-related activities including conferences and off-campus performances. All cases of academic misconduct must be reported to the Dean of the Graduate School of Biomedical Sciences (GSBS) and the seriousness of the violation may be taken into account in assessing a penalty. Academic misconduct includes, but is not limited to, the following:

- *Cheating*. Any attempt to use or provide unauthorized assistance, materials, information, or access in any form and in any academic exercise or environment is considered cheating and is expressly forbidden.
- *Fabrication*. A student must not falsify or invent any information or data including, but not limited to, records or reports, data analyses, and citation to the sources of information.
- Plagiarism. Plagiarism is defined as presenting someone else's work as one's own. Ideas or
 materials taken from another source for either written or oral use must be fully acknowledged. The
 adoption or reproduction of ideas, opinions, theories, formulas, graphics, or research results of
 another person without acknowledgment is expressly forbidden. Credit must be given to the
 originality of others whenever:
 - Quoting the works of another
 - o Using another person's ideas, opinions, or theories
 - o Paraphrasing the words, ideas, opinions, results, or theories of others
 - o Borrowing facts, statistics, or illustrative material
 - o Offering materials assembled or collected by others

Facilitating Academic Dishonesty. A student must not intentionally or knowingly help another student commit an act of academic misconduct, nor allow another student to use his/her work or resources to commit an act of misconduct.

Completion of the CTS Program

Recommendation for Granting the Certificate in Translational Science. A graduate student must be accepted into in the CTS Program to be eligible to receive a certificate. Upon satisfactory completion of all required didactic and elective coursework, the CTS student will complete and submit the CTS Request for Certification form to the MSCI-TS Academic Coordinator for review and approval by the MSCI-TS COGS. Once approved by the MSCI-TS COGS, the Chair of the MSCI-TS COGS will then submit a recommendation form to the Graduate Faculty Council (GFC) of the Graduate School of Biomedical Sciences (GSBS) through the Dean of the GSBS for further consideration and approval.

Time-to-Certificate. The CTS Program can be completed within 1 year of study. Some students may require 2 to 3 years to complete certificate requirements. If a CTS student has not completed the necessary coursework within 3 years, the MSCI-TS COGS Chair will form a special committee to review progress with the student. The special committee's responsibility will be to either recommend a course of action to expedite completion or recommend termination of the enrollment of the student in the program.

Helpful Online Connections

<u>CTS Program</u> <u>http://iims.uthscsa.edu/ed_certificate_in_ts.html</u>

CTS Forms http://iims.uthscsa.edu/ed_certificate_in_ts_forms

MSCI-TS Course Schedules

https://iims.uthscsa.edu/Education/MSCI/ed_msci_schedule.html

Graduate School of Biomedical

GSBS Academic Calendar

Sciences (GSBS)

http://gsbs.uthscsa.edu/

GSBS Application for Admission https://www.utr

https://www.uthscsa.edu/academics/biomedical-

sciences/what-know-you-apply

http://students.uthscsa.edu/registrar/wp-

content/uploads/sites/2/2013/04/School-of-

GSBS.pdf

GSBS Syllabus Depot http://gsbssyllabus.uthscsa.edu/

CANVAS http://www.uthscsa.edu/university/canvas

UT Health San Antonio Catalog http://catalog.uthscsa.edu/

UT Health San Antonio
Handbook of Operating
Procedures (HOP)

http://www.uthscsa.edu/hop2000/

Institute for the Integration of Medicine and Science

http://iims.uthscsa.edu/

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2019-2020 Committee on Graduate Studies (MSCI-TS COGS)

Donald M. Dougherty, PhD *MSCI-TS COGS Chairman*

Meyad Baghezza, BA, CIP Research Regulatory Program

Alex Bokov, PhD Epidemiology & Biostatistics

Carrie Jo Braden, RN, PhD Nursing

Leonid Bunegin, BSc Anesthesiology

Andrew Cap, MD, PhD, FACP Program Director Clinical Investigation Fellowship San Antonio Military Medical Center

Byeongyeob Choi, PhDEpidemiology & Biostatistics

Robert A. Clark, MDOffice of the VP for Research

Donald M. Dougherty, PhDPsychiatry/Alcohol & Drug Abuse

Bertha E. Flores, PhD, APRN School of Nursing

Christopher Frei, PharmD, MSc Pharmacology Ed& Research Cntr

Jonathan Gelfond, MD, PhD Epidemiology and Biostatistics

Goutam Ghosh-Choudhury, PhD Medicine/Renal Diseases

Helen P. Hazuda, PhDMedicine/Renal Diseases

Teresa Johnson-Pais, PhD Urology

Donna M. Lehman, PhD Medicine/Cardiology

Philip T. LoVerde, PhD Biochemistry/Pathology

Linda M. McManus, PhD Pathology

Polly H. Noel, PhDFamily & Community Medicine

Hai Rao, PhD Molecular Medicine

Bill Sanns, BAEpidemiology & Biostatistics

Joseph O. Schmelz, PhDOffice of the VP for Research

Maureen J. Simmonds, PhD, PT Physical Therapy

Kimberly Summers, PharmD Research Regulatory Program

Rudy J. Trevino, MS, CPIA Research Regulatory Program

Chen-Pin Wang, PhD
Epidemiology and Biostatistics

Michael J. Wargovich, PhD Molecular Medicine/CTRC

Typical schedule for a One Year CTS Student

Year 1 - Fall Semester

TSCI 5070 (2 SCH) – Responsible Conduct of Research

TSCI 5071 (2 SCH) – Patient Oriented Clinical Research Methods -1

TSCI 5072 (2 SCH) – Patient Oriented Clinical Research Biostatistics -1

TSCI 6001 (1 SCH) – Introduction to Translational Science

Year 1 – Spring Semester

TSCI 6101 (1 SCH) - Topics in Translational Science

TSCI electives (4 SCH) - Elective coursework

CTS Elective Courses (may be taken in any semester when offered)

TSCI 5050 (1 SCH) – Introduction to Data Science

TSCI 5073 (1 SCH) – Integrating Molecular Biology with Patient Oriented Clinical Research

TSCI 5074 (2 SCH) – Data Management, Quality Control, and Regulatory Issues

TSCI 5075 (2 SCH) – Scientific Communications

TSCI 5076 (1 SCH) – Introduction to Informatics

TSCI 5077 (1 SCH) – Practicum in Translational Science

TSCI 5078 (1 SCH) – Intro to Intellectual Property, Tech Transfer, & Communication

TSCI 5079 (.5 SCH) – Practicum in Intellectual Property, Tech. Transfer, & Communication

TSCI5080 (1 SCH) – Practicum in Integrating Molec Biology with Pt-Orient. Clin. Research

TSCI 6060 (2 SCH) – Patient Oriented Clinical Research Methods -2

TSCI 6061 (2 SCH) – Patient Oriented Clinical Research Biostatistics -2

TSCI 6064 (1 SCH) – Grantsmanship and Peer Review

TSCI 6065 (2 SCH) – Health Services Research

TSCI 6066 (1 SCH) – Instrument Development and Validation

TSCI 6067 (1 SCH) – Genomic Healthcare

TSCI 6068 (1 SCH) – Cross Cultural Adaptation of Research Instruments

TSCI 6069 (2 SCH) – Statistical Issues, Planning, & Analysis of Contemporary Clin. Trials

TSCI 6070 (2.5 SCH) – Biostatistics Methods for Longitudinal Studies

TSCI 6100 (1 SCH) – Practicum in IACUC Procedures

TSCI 6102 (1 SCH) – Practicum in IRB Procedures

TSCI 6103 (1 SCH) – Selected Topics in Advanced Research Ethics

TSCI 6105 (1 SCH) – Topics in Cancer Prevention

TSCI 6106 (.5 - 1 SCH) – Practicum in Cancer Prevention

Twelve (12) semester credit hours (SCH) are required to obtain the Certificate in Translational Science (CTS). Students **must** be admitted to the CTS program to be eligible for certification.

CTS Program 2019-2020 Tuition and Fee Breakdown Estimate

Breakdown of Cost	Cost
Tuition - Texas Resident (per semester credit hour)	50.00
Designated Deregulated Tuition (per semester credit hour)	12.43
Tuition - Non-Texas Resident (per semester credit hour)	472.00
Designated Deregulated Tuition (per semester credit hour)	71.43
Differential Tuition (per semester credit hour)	64.58
Designated Tuition (per semester credit hour)	46.00
Fitness Center Fee	240.00
Student Service Fee	110.00
Medical Service Fee	106.20
Library Fee	150.00
Late Registration Fee	100.00
Graduation Fee (Semester Graduating)	100.00
Student Health Insurance	1,394.50
Total semester credit hours (sch) to complete program is 12 sch	
Texas Resident (Total Does Not Include Student Insurance):	
Tuition (per sch):	600.00
Designated Deregulated Tuition (per sch):	149.16
Differential Tuition (per sch):	774.96
Designated Tuition (per sch):	552.00
*Fitness Center Fee (Full-time = 2 semesters):	480.00
Student Service Fee (Full-time = 2 semesters):	220.00
*Medical Service Fee (Full-time = 2 semesters):	212.40
*Library Fee (Full-time = 2 semesters):	300.00
Graduation Fee (Graduating Semester):	100.00
Total (Based on Full-time Enrollment):	3,388.52
Non-Texas Resident (Total Does Not Include Student Insurance):	
Tuition (per sch):	5,664.00
Designated Deregulated Tuition (per sch):	857.16
Differential Tuition (per sch):	774.96
Designated Tuition (per sch):	552.00
*Fitness Center Fee (Full-time = 2 semesters):	480.00
*Student Service Fee(Full-time = 2 semesters):	220.00
*Medical Service Fee (Full-time = 2 semesters):	212.40
*Library Fee (Full-time = 2 semesters):	300.00
Diploma Fee (Graduating Semester):	100.00
Total (Based on Full-time Enrollment):	9,160.52

Master of Science in Clinical Investigation and Translational Science (MSCI-TS) Program Certificate in Translational Science (CTS) Program

CHECKLIST OF REQUIRED DOCUMENTATION FOR APPLICATION

See CTS Handbook at http://iims.uthscsa.edu/ed_certificate_in_ts_handbook

for full program requirements
Submit an on-line application to the UT Health San Antonio Graduate School: http://gsbs.uthscsa.edu/
Official transcripts of ALL foreign colleges/universities from the ECE or WES credentialing agencies should be sent from the credentialing agency (in a sealed envelope) to The UTHSCSA Registrar's Office as directed in the on-line application instructions. The translation must be from the ECE or WES credentialing agencies which part of the NACES organization which has been approved by the UTHSCSA Registrar's Office.
Official translation of foreign transcripts including GPA of ALL foreign colleges/universities from credentialing agencies should be sent from the credentialing agency (in a sealed envelope) to The UTHSCSA Registrar's Office as directed in the on-line application. The translation must be from a credentialing agency approved by the UTHSCSA Registrar's Office.
Three Letters of Recommendation (LOR) should attest to the applicant's readiness for graduate level studies in translational science and be addressed to Dr. Linda McManus, CTS Program Director. If a matriculated graduate student has a Supervising Professor or Program/Track Director, one letter must be provided by this individual.
(Note: LOR's should be uploaded to your on-line application by the references you named in your on-line application.)
□ LOR1 - Reference:
LOR2 - Reference:
□ LOR3 - Reference:
General Record Examination (GRE) scores (exam taken within the past five years) sent directly to The UTHSCSA from the Educational Testing Service (ETS). UTHSCSA code: 6908 (Note: The GRE is not required for applicants who have completed a graduate degree in a health related discipline, i.e., a MSN, MD, DDS, or PhD.)
Test of English as a Foreign Language (TOEFL) or the academic version of the Test of English as a Foreign Language (IELTS) scores (test taken within the past two years) sent directly to The UTHSCSA from the ETS. UTHSCSA code: 6908 (Note: The TOEFL or IELTS (academic version) is required for all non-US citizens whose first language is not English.)
addition to the above, the documents listed below are required and should be uploaded to your online lication.
Curriculum vitae (CV) of applicant.
Statement of Purpose (Includes a brief description of the applicant's background, long term career goals, and an indication of the basis for application into the CTS Program.)
Revised: 03/21/2018

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Master of Science in Clinical Investigation & Translational Science (MSCI-TS) Program

Certificate in Translational Science (CTS) Program Student Program Status Checklist

		Student Program Status (hecklist	
	The information contained below	w is subject to change at the Program's and	or Instructor's discretion with Semester	out notice.
	Course Cat	alog Number & Title	Course Schedule	Pre-Req
YEAR	1 (FALL SEMESTER):		100 M 100 M 100 M	
	TSCI 5070 (2.0 sch): Respoi	nsible Conduct of Research	Mondays, 3-5 p.m.	
	TSCI 5071 (2.0 sch): Pt Orie	ented Clinical Research Methods – 1	Tuesdays, 3-5 p.m.	
	TSCI 5072 (2.0 sch): Pt Orie	ented Clinical Research Biostats – 1	Thursdays, 3-5 p.m.	
	TSCI 6001 (1.0 sch): Introd	uction to Translational Science	Tuesdays, 3-5 p.m.	
YEAR	1 (SPRING SEMESTER):			
	TSCI 6101 (1.0 sch): Topics	in Translational Science	TBA	
	4.0 sch of Electives (below)		All Semesters	
	Submitted Certification I	Request Form to Program (12 sch are	required for CTS Program Grad	luation)
	CTS Pr	rogram Electives	Semester	
	Course Cat	talog Number & Title	Course Schedule	Pre-Req
	TSCI 5050 (1.0 sch): Introd	uction to Data Science	All Semesters (TBA)	
	TSCI 5073 (1.0 sch): Integra	at Molec Bio w/Pt Orient Clin Res	Spring Semester (TBA)	
	TSCI 5074 (2.0 sch): Data M	Igmt, Quality Control & Reg Issues	Spring Semester Tuesdays, 3-5 p.m.	
	TSCI 5075 (2.0 sch): Scienti	fic Communication	Fall Semester Wednesdays, 3-5 p.m.	
	TSCI 5076 (2.0 sch): Introde	uction to Informatics	Spring Semester (TBA)	
	TSCI 5077 (1.0 sch): Practic	um in Translational Science	All Semesters (TBA)	77.7
		o Intellectual Property, Tech nsfer & Communication	All Semesters (TBA)	
		cum in Intellectual Property, Tech nsfer & Communication	All Semesters (TBA)	
		cum in Integrat Molec Bio w/Pt- ent Clin Res	Fall Semester (TBA)	TSCI 5073
	TSCI 6060 (2.0 sch): Pt Orie	ented Clinical Research Methods – 2	Spring Semester Mondays, 3-5 p.m.	TSCI 5071
	TSCI 6061 (2.0 sch): Pt Orie	ented Clinical Research Biostats – 2	Spring Semester Thursdays, 3-5 p.m.	TSCI 5072
	TSCI 6064 (1.0 sch): Grants	manship & Peer Review	Spring Semester (Bi-Wkly) Mondays, 11:00-1:00 p.m.	
	TSCI 6065 (2.0 sch): Health	Services Research	Fall Semester Thursdays, 3-5 p.m.	TSCI 5071 TSCI 6060
	TSCI 6066 (1.0 sch): Instru	ment Development & Validation	Spring Semester (Bi-Wkly) Thursdays, 3-5 p.m.	
	TSCI 6067 (1.0 sch): Genom	nic Healthcare	Spring Semester (Bi-Wkly) Wednesdays, 3-5 p.m.	
	TSCI 6068 (1.0 sch): Cross-	Cultural Adapt of Res Instruments	Spring Semester (Bi-Wkly) Wednesdays, 3-5 p.m.	
		ical Issues, Planning & Analysis of mporary Clinical Trials	Spring Semester (TBA)	TSCI 5072 TSCI 6061
	TSCI 6070 (2.5 sch): Biostat	tistics Methods for Longitudinal Studies	All Semesters Wednesdays, 1-4 p.m.	TSCI 5072 TSCI 6061
	TSCI 6100 (1.0 sch): Practic	cum in IACUC Procedures	All Semesters Wednesdays (TBA)	
	TSCI 6102 (1.0 sch): Practic	cum in IRB Procedures	All Semesters Tuesdays (TBA)	
	TSCI 6103 (2.0-3.0 sch): Top	oics in Adv Research Ethics	All Semesters (TBA)	
	TSCI 6105 (1.0 sch): Topics		Fall Semester (TBA)	
		cticum in Cancer Prevention Science	All Semesters (TBA)	
			R	evised: 08/24/2016

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Student Name:				
	iter: Fall Spring Double Click on Box & Mark "Che	1.00	ır:	
Regular UTHSCSA	Graduate Student: 🔲 Y	es 🗌 No		
If yes, gradua	ate program/track			
Department/Divis	sion:			
Date admitted to C	TS Program:			
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Course ID	npleted towards a		Translation	
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		I .		
Signature confirms co	ourse information above:		Ibmission to MSCIon Recommendati	
Signature confirms co	ourse information above:			

CTS Contact Information

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Program Director
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210-567-1874 (fax)
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CTS Program
IIMS/Research Education Office – MC 7757
UT Health San Antonio
7703 Floyd Curl Drive
San Antonio, Texas 78229-3900

This educational program is supported in part by a grant provided by the National Center for Research Resources of the National Institutes of Health (U54 RR024387)

Introduction to Translational Science • Responsible Conduct of Patient-Oriented Clinical Research • Patient-Oriented Clinical Research Methods • Patient-Oriented Clinical Research Biostatistics • Integrating Molecular Biology with Patient-Oriented Clinical Research • Data Management, Quality Control, and Regulatory Issues • Grantsmanship and Peer Review • Health Services Research • Instrument Validation and Development • Genetics and Genetic Epidemiology • Cross Cultural Adaptation of Research Instruments • Introduction to Translational Science • Responsible Conduct of Patient-Oriented Clinical Research • Patient-Oriented Clinical Research Methods • Patient-Oriented Clinical Research Biostatistics • Integrating Molecular Biology with Patient-Oriented Clinical Research • Data Management, Quality Control, and Regulatory Issues • Grantsmanship and Peer Review • Health Services Research • Instrument Validation and Development • Genetics and Genetic Epidemiology • Cross Cultural Adaptation 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Research • Instrument Validation and Instruments • Introduction to Trans Oriented Clinical Research Methods • Oriented Clinical Research • Data Mar Services Research • Instrument Valid Research Instruments • Responsible C Patient-Oriented Clinical Research Bios Management, Quality Control, and Regula



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Validation and Development • Genetics and Genetic Epidemiology • Cross Cultural Adaptation of Research Instruments • Introduction to Translational Science • Responsible Conduct of Patient-Oriented Clinical Research Methods • Patient-Oriented Clinical Research Biostatistics • Integrating Molecular Biology with Patient-Oriented Clinical