

Ph.D. in Clinical Translational Sciences

Sample Curriculum for Phoenix Students:

Required Courses *

- Principles:
 - Fundamentals of Clinical Translational Science (CTS 500) – 4 units; OR
 - Cellular, Molecular and Cancer Biology (CTS 555) – 3 units [*for post-baccalaureate students*]; OR
 - Principles of Clinical Research I and II (CTS 501 and CTS 502) – 4 units each, offered Fall and Spring semester; OR
 - Principles of Surgery or Principles of Medicine (CTS 610 or CTS 620A/B/C) – 3-6 units [*for postgraduate students*].
- Professional Development Series - minimum 4 units chosen from:
 - Responsible Conduct of Research (CTS 595C) – 1 unit/semester; taken Fall and Spring semesters [required]And an additional 2 units chosen from:
 - Individualized Scientific Writing (CTS 585) – 2 units
 - Professional & Career Training Series (CTS 595D) – 2 units [*for post-baccalaureate students*]
 - Or similar courses in other departments by prior approval of the CTS program.
- Biostatistics:
 - Biostatistics in Public Health (BIOS 576A) – 3 units [offered online in Spring semester].
- Seminar and/or journal club/colloquium – 4 units total (1 unit per enrollment; 4 total enrollments).
 - Biomedical Sciences Journal Colloquium (CTS 595) – semester offered and topic differ by instructor/section.
 - Biomedical Sciences Seminar (CTS 696B) – offered Fall and Spring semester.
 - Students may take any regularly scheduled graduate seminar course in a department relevant to the student's research interests. The CTS Director of Graduate Affairs can inquire whether a Phoenix student can join and participate remotely in a Tucson-based seminar. *Postgraduate students may earn credit in CTS 696A for attendance at relevant grand rounds series in a clinical department.***
 - Students may take any regularly scheduled graduate journal club/colloquium course in a department relevant to the student's research interests. The CTS Director of Graduate Affairs can inquire whether a Phoenix student can join and participate remotely in a Tucson-based journal club. *Postgraduate students may earn credit in CTS 595 for participation in clinical case conferences or a clinical department journal club.***
- Dissertation Research (CTS 920) – 18 units

* May substitute other courses with CTS approval with the exception of CTS 920.

** Seminar or journal club credit for activities other than CTS courses toward Ph.D. requires prior approval from CTS.

Elective Options

Note that the following are simply selected options and not a complete list of possible electives.

- Informatics for Clinical Research (CTS 503) – 4 units [offered Spring semester]
- Introduction to Bioinformatics (CTS 505) – 3 units [offered Fall semester]
- Neurodevelopment in Action (CTS 572) – 4 units [offered Spring semester]

- Human Histology: An Introduction to Pathology (CMM 510) – 3 units [offered online in Fall semester]
- Basic Principles of Epidemiology (EPID 573A) – 3 units [offered online in Fall and Spring semester]
- Inflammation and Immune Pathology (CMM 550) – 1 unit [offered online in Spring semester]
- Genomic Medicine (CMM 534) – 1 unit [offered online in Spring semester]
- Principles of Cardiovascular Hematology (MEDP 620) – 6 units [offered Spring semester]
- Human Neurobiology Basics (PHCL 544) – 2 units [offered online in Fall semester]
- **Or** any other graduate courses recommended by the faculty mentor, including courses offered online.

Note: Phoenix students who find a course of interest that is offered in Tucson (and not via online instruction) may ask the CTS Director of Graduate Affairs to contact the offering department/program to ask whether the student can join the course and participate remotely from Phoenix.