

Ph.D. in Clinical Translational Sciences

Sample Curriculum for Phoenix Students:

Required Courses *

- Principles:
 - Cellular, Molecular and Neural Biology (CTS 555) – 6 units [*for post-baccalaureate students*]; OR
 - Principles of Clinical Research I and II (CTS 502 and CTS 503, 4 units each); 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
 - InnoVention and Entrepreneurship in Medicine (CTS 590A) – 1 unit
 - Professional & Career Training Series (CTS 595D) – 2 units
 - Or similar courses in other departments.
- Biostatistics:
 - Biostatistics in Public Health (BIOS 576A) – 3 units [offered online in Spring semester].
- Seminar and/or journal club/colloquium – 2 units total (1 unit per enrollment; 6 total enrollments).
 - The CTS seminar course in Phoenix is Biomedical Sciences Seminar (CTS 696B). *Postgraduate students may earn credit in CTS 696A, Medical Sciences Seminar, for attendance at relevant grand rounds series in a clinical department.***
 - The CTS journal club/colloquium course available to Phoenix students is Biomedical Sciences Journal Colloquium (CTS 595) – different topics by section. *Postgraduate students may earn credit in CTS 595 for participation in clinical case conferences or a residency/fellowship program's journal club.***
 - Seminar or journal club/colloquium courses offered via online instruction by Tucson campus graduate programs.
- 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

- Human Systems Neuroscience (CTS 556) – 3 units [offered Spring semester]
- Functional Human Histology (CMM 525A) – 4 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]
- Immunology Basics (CMM 537) – 1 unit [offered online in Spring semester]
- Fundamentals of Cardiovascular Hematology (MEDP 620) – 6 units [offered Spring semester]
- Neuropharmacology (PHCL 553) – 3 units [offered Spring semester with video link to Phoenix campus]
- Or any other graduate courses recommended by the faculty mentor.