

## CLINICAL AND TRANSLATIONAL SCIENCE M.S.

All students must meet the Requirements for the Master's Degree (<http://catalogue.uvm.edu/graduate/degree/requirements/requirementsforthemastersdegree/>)

### OVERVIEW

#### Concentration in Investigation

This program is designed to effectively and efficiently transform doctoral level professionals drawn from the large array of disciplines contributing to health into successful independent clinical and translational science investigators.

#### Concentration in Research Management (not offered in 2021-22)

This program is designed for individuals who have an interest in becoming research coordinators, patient advocates, research administrators, study nurses and other science professionals.

### SPECIFIC REQUIREMENTS

#### Requirements for Admission to Graduate Studies for the Degree of Master of Science

##### CONCENTRATION IN INVESTIGATION

- Applicants should have a doctoral-level degree, expertise in their specialty and some general research experience.
- 4 semesters of college-level science highly recommended.
- 2 semesters of college-level mathematics or statistics highly recommended.
- 2 semesters of college-level English composition or equivalent.
- Interviews with appointed faculty are required.

##### CONCENTRATION IN RESEARCH MANAGEMENT

(Not accepting applications for academic year 2021-22)

- U.S. Baccalaureate degree or an equivalent international degree.
- 4 semesters of college-level science highly recommended.
- 2 semesters of college-level mathematics or statistics highly recommended.
- 2 semesters of college-level English composition or equivalent.
- Interviews with appointed faculty are required.

Applicants holding a degree from an unaccredited institution and International applicants should consult additional Graduate College Admission requirements

#### Minimum Degree Requirements

##### CONCENTRATION IN INVESTIGATION

The Master's in CTS (Investigation) is a 30 credit degree that includes 18 credits of core course work, 6 credits of electives, and 6 credits of supervised research. Individuals must also participate in the

weekly Seminar in CTS, successfully pass a comprehensive exam, and successfully complete and publicly defend a thesis.

Required Courses (Investigation Track):		
CTS 301	Design Clin&Translational Res	3
CTS 320	Analyze Clin&Translational Res	3
CTS 307	Cell to Society	3
CTS 310	Conduct Clin&Translational Res	3
CTS 325	Multi Analysis Clin&Trans Res	3
CTS 315	Report Clin&Translational Res	3

##### CONCENTRATION IN RESEARCH MANAGEMENT

The Master's in CTS (Research Management) is a 30-credit degree that includes 21 credits of core course work, 3 credits of electives, and 6 credits of a supervised research internship. Individuals must also participate in the Seminar in CTS and successfully pass a comprehensive exam.

Required Courses (Research Management Track):		
CTS 301	Design Clin&Translational Res	3
CTS 307	Cell to Society	3
CTS 310	Conduct Clin&Translational Res	3
CTS 315	Report Clin&Translational Res	3
CTS 320	Analyze Clin&Translational Res	3
CTS 392	Master's Research Internship	1-6
CTS 308 and CTS 309 are not offered in academic year 2021-22		

#### Comprehensive Examination

The comprehensive exam is a required component for both concentrations of the M.S. program. The goal of the comprehensive exam is to determine whether the student's depth and breadth of knowledge and ability to integrate information is within a scope expected as part of a master's program in clinical and translational science (CTS).

The written exam has 2 parts. The 1<sup>st</sup> part is writing a 1-2 page NIH-style project summary of a grant protocol. The 2<sup>nd</sup> part requires an analysis of an existing dataset using the concepts learned in the core courses

The oral exam requires students to meet with their Comprehensive Exam Committee to answer questions related to the written exam and concepts taught as part of the CTS core courses.

The comprehensive exam should be completed within 6 months of finishing the CTS core courses.

**Requirements for Advancement to Candidacy for the Degree of Master of Science**

Students must have completed all required courses including 15 graded credits and maintain an overall minimum grade point average of 3.00. Successful completion of oral and written comprehensive exam required.