Course Offerings and Details

Course dates and times are subject to change. Priority registration is provided to students accepted into Center for Clinical and Translational Science (CCaTS) programs. Please contact ctsceducation@mayo.edu for additional information.

CTSC 5010: Clinical Research Proposal Development
Andrew Rule, M.D.
2 Credits
Prerequisites: CTSC 5300 or CTSC 5370/5310 & CTSC 5600

April 1–June 17, 2020
Format: Blended (Online and classroom setting)
- Large group sessions: 4/6; 9:00-11:00am (CT), 4/8; 9:00-11:00am (CT), 4/22; 8:00-11:00am (CT), 4/23; 12:30-2:30pm (CT)
- Small group sessions (3 sessions/3 hours each): scheduled during the weeks of 5/11, 5/25 and 6/8
Specific times and dates will be announced the first day of class.

CTSC 5330: Ethical Issues in Population Health Science
Karen M. Meagher, Ph.D.
1 credit
Prerequisites: None

April 10 – May 15, 2020
Format: In-Person
Friday, 10:00 – 12:00pm (CT)

CTSC 5601ACC: Utilizing Statistics in Clinical Research – Accelerated
David M. Zahrieh, Ph.D., Jeremiah A. Aakre, M.P.H., Travis J. Dockter
1 credit
Prerequisites: CTSC 5600

April 7 – May 20, 2020
Format: Blended (Online and classroom setting)
- *Lecture: 4/6, 9:00-10:00am (CT)
- *Introductory Lab: 4/7, 8:00am-Noon (CT)
- Lab(s): 4/10, 4/14, 4/27, 5/1, 5/4, 5/8, 5/15; 8:00-10:30am (CT), 4/20, 5/11; 8:30-11:00am (CT)
- *Midterm Exam: 4/24; 9:00-11:00am (CT) (Name: A-L) or 1:00-3:00pm (CT) (Name: M-Z)
- Q&A: 5/18; 9:00 – 11:00am (CT)
- *Final Exam: 5/20; 9:00-11:30am (CT) (Name: A-L) or 12:30-3:00pm (CT) (Name: M-Z)

*Required Sessions

CTSC 5641: Propensity Scoring Methods for Observational Health Services Research
Lindsey R. Sangaralingham, M.P.H., Xiaoxi Yao, Ph.D. M.P.H.
1 credit
Prerequisites: CTSC 5600, CTSC 5610 and CTSC 5640 (previously or concurrent)

April 27 – June 15, 2020
Format: Blended (Online and classroom setting)
Monday, 1:00 – 2:30pm (CT)
### CTSC 5650: Survival Analysis
David M. Zahrieh, Ph.D., Nathan Foster, M.S.

1 credit

**Prerequisites:** CTSC 5600, CTSC 5601 & CTSC 5610 (a grade of “B” or better) or equivalents

**May 21 – June 26, 2020**

**Format:** Didactic

Thursday, 2:30-4:30pm (CT) and Friday, 1:00-3:00pm (CT)

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### CTSC 5770: Diagnostic Testing Strategies
Colin P. West, M.D., Ph.D.

1 credit

**Prerequisites:** CTSC 5600 or equivalent

**April 7 – June 23, 2020**

**Format:** Blended (Online and classroom setting)

Tuesday, Noon-1:30pm (CT)

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### CTSC 5810: Qualitative Research Design, Methods & Analysis
Ashok Kumbamu, Ph.D.

1 credit

**Prerequisites:** None

**April 8 – May 27, 2020**

**Format:** Blended (Online and classroom setting)

Wednesday, 2:00-3:30pm (CT)

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### CTSC 5815: Qualitative and Mixed Methods Research for Translational Science
Kasey Boehmer, Ph.D., Joan Griffin, Ph.D., Jennifer Ridgeway, Ph.D.

2 credits

**Prerequisites:** None

**April 6 – June 22, 2020**

**Format:** In-Person

Monday, 2:30-4:30pm (CT); and Thursday 5/28, 8:00-10:00am (CT)

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### CTSC 5820: Introduction to Survey Research
Kathleen Yost, Ph.D.

1 credit

**Prerequisites:** CTSC 5600

**April 7 – June 2, 2020**

**Format:** In-Person

Monday, 2:00-3:30pm (CT)
**Course Offerings and Details**

Course dates and times are subject to change. Priority registration is provided to students accepted into Center for Clinical and Translational Science (CCaTS) programs. Please contact ctseducation@mayo.edu for additional information.

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**CTSC 5870: Social & Behavioral Foundations of Health in Health Sciences Research**  
David Elton, Ph.D.  
1 credit  
Prerequisites: None

-April 7 – May 21, 2020  
Format: In-Person  
Tuesday & Thursday, 10:30-11:30am (CT)

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**CTSC 6110: CTS Works in Progress**  
CTS Ph.D. students only  
Anthony J. Windebank, M.D.  
1 credit  
Prerequisites: None

-March 2 – June 30, 2020  
Format: Blended (Online and classroom setting)  
Wednesdays, Noon – 1:00pm (CT)

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**CTSC 6130: CTS Journal Club**  
CTS Ph.D. students only  
Anthony J. Windebank, M.D.  
1 credit  
Prerequisites: None

-April 6 – June 26, 2020  
Format: Blended (Online and classroom setting)  
Wednesdays, Noon – 1:00pm (CT)

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**CORE 6510: Molecular Mechanisms of Human Disease**  
Debabrata Mukhopadhyay, Ph.D., Anthony J. Windebank, M.D.  
3 credits  
Prerequisites: None

-April 6 – June 26, 2020  
Format: Blended (Online and classroom setting)  
Monday, Wednesday & Friday, 11:00 – Noon (CT)
The following courses are not being offered during Spring 2020:

CTSC 5035: Case Studies in Regulatory Science
Anthony J. Windebank, M.D.
1 credit
Prerequisites: None*

*CTSC 5020 & CTSC 5025 are complimentary to this course.

CTSC 5350: Ethical Issues in Artificial Intelligence and Information Technologies
Richard Sharp, Ph.D.
1 credit
Prerequisites: None

Note: Course coming Spring 2021

CTSC 5410: Molecular Variant Evaluation
Brittany Thomas, MS, LCGC
1 credit
Prerequisites: None

Note: Course coming soon

CTSC 5500: Genetic Epidemiology: Association Studies
Joanna M. Biernacka, Ph.D.
1 credit
Prerequisites: CTSC 5300/5370, CTSC 5600, CTSC 5610

Note: Course is offered in odd years only.

CTSC 5761: Evidence-Based Medicine for Clinical Researchers
Victor M. Montori, M.D., M. Hassan Murad, M.D. and Ian Hargraves, Ph.D.
1 credit
Prerequisites: CTSC 5300 or CTSC 5370/5310 & CTSC 5600

CTSC 5900: Introduction to Health Services Research
Sarah K. Meier, Ph.D.
1 credit
Prerequisites: None

Note: Course coming Spring 2021