# Course Offerings and Details

**CTSC 5010: Clinical Research Protocol Development**  
Jon O. Ebbert, M.D.  
**2 credits**  
Prerequisites: CTSC 5300, 5310, and 5600; CTS students only

**April 4 – June 24**  
**Classroom setting**
- Large group sessions: 8 to 11 a.m., on 4/4, 4/5, 4/25 and 5/2
- Three small group sessions (3 hours each) to be scheduled on the week of 5/16, 5/30 and 6/13. Sign-up for specific dates and times will be announced the first day of class.

**CTSC 5190: Complementary and Alternative Medicine Research**  
Amit Sood, M.D.  
**1 credit**  
Prerequisites: None

**May 3 – June 3**  
**Classroom setting**
Tuesday and Friday; 9 to 10 a.m.  
*Exceptions: 5/3 and 5/17 class scheduled 9 to 11 a.m.*

**CTSC 5601ACC: Utilizing Statistics in Clinical Research – Accelerated**  
Felicity T. Enders, Ph.D.  
**1 credit**  
Prerequisites: CTSC 5600

**April 5 – May 20**  
**Online with in-person lab**
4/5 In-person lecture, 9 to 10 a.m.  
4/6 Introductory lab, 8am-12pm  
4/7, 4/19, 4/27, 4/29, 5/2, 5/5, 5/11 Lab, 8 to10am. 4/11,4/25; Lab, 1 to 3 p.m.  
4/21 Midterm Exam 8 to 9 a.m. or 10 to 11 a.m.  
5/12 Q&A, 9 to11 a.m.  
5/13 Final Exam, 8 to 10 a.m. or 11 a.m. to 1 p.m.

**CTSC 5641: Propensity Scoring Methods for Observational Health Services Research**  
Bijan Borah, Ph.D.  
**1 credit**  
Prerequisites: CTSC 5600, 5610 and 5640 (previously or concurrent)

**May 2 – June 20**  
**Classroom setting**
Monday; 1 to 2:30pm

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Notice: Priority for class registration is provided to students accepted into a Center for Clinical and Translational Science (CCaTS) program. Course dates and times are subject to change. Please contact Cindy Gosse at CCaTS for additional information. Phone: 507-255-9590

2/12/16
Spring 2016

CTSC 5650: Survival Analysis
Jun (Vivien) Yin, Ph.D.
1 credit
Prerequisites: CTSC 5600, 5601 and 5610

April 5 – April 29
Classroom setting
Lectures: Tuesday & Thursday; 2:30- to 3:30 p.m.
4/5, 4/7, 4/12, 4/14, 4/19, 4/21, 4/26, 4/28
Labs: Friday 9 to 11 a.m.
4/8, 4/15, 4/22, 4/29

CTSC 5761: Evidence-Based Medicine for Clinical Researchers
Victor M. Montori, M.D. and M. Hassan Murad, M.D.
1 credit
Prerequisites: CTSC 5300, 5310 and 5600

April 7 – June 23
Classroom setting
Thursday; 7:30 to 8:30 a.m.

CTSC 5770: Diagnostic Testing Strategies
Colin P. West, M.D., Ph.D.
1 credit
Prerequisites: CTSC 5600 or equivalent and CTSC 5760 is highly recommended

April 5 – June 14
Classroom setting
Tuesday; noon to 1:30 p.m.
Exceptions: No class 5/10, 5/17 and 5/24

CTSC 5810: Qualitative Research Design, Methods & Analysis
Ashok Kumbamu, Ph.D.
1 credit
Prerequisites: None

April 6 – May 25
Classroom setting utilizing Blackboard
Wednesday; 2 to 3:30 p.m.

CTSC 5820: Introduction to Survey Research
Kathleen J. Yost, Ph.D.
1 credit
Prerequisites: CTSC 5600

April 12 – May 31
Classroom setting
Tuesday; 2 to 3:30 p.m.

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2/12/16
CTSC 5870: Social & Behavioral Foundations of Health in Health Sciences Research
David T. Eton, Ph.D. and Carmen Radecki Breitkopf, Ph.D.
1 credit
Prerequisites: None

April 5 – May 12
Classroom setting
Tuesday and Thursday; 10:30 to 11:30 a.m.

CTSC 5961: Health Information Technology
Vitaly Herasevich, M.D., Ph.D.
1 credits
Prerequisites: None

April 6 – May 18
Classroom setting utilizing Blackboard
Wednesday; Noon to 2 p.m.
Exception on 4/27, class will be from 11am-1pm.

CTSC 6110: CTS Works in Progress
Stephen C. Ekker, Ph.D.
1 credit
Prerequisites: CTS Ph.D. students only

April 4 – June 24
Classroom setting
2nd and 4th Wednesdays; Noon to 1 p.m.

CTSC 6130: CTS Journal Club
Stephen C. Ekker, Ph.D.
1 credit
Prerequisites: CTS Ph.D. students only

April 4 – June 24
Classroom setting
1st and 3rd Wednesdays; Noon to 1 p.m.

Core 6510: Molecular Mechanisms of Human Disease
Dev Mukhopadhyay, Ph.D. and Anthony J. Windebank, M.D.
3 credits
Prerequisites: Limited to those with no medical degree

April 4 – June 24
Classroom setting
Monday, Wednesday and Friday; 11 a.m. to noon
**MPET 6820: Regenerative Medicine**
Andre Terzic, M.D., Ph.D. and Anthony J. Windebank, M.D.

2 credits
Prerequisites: None

April 6 – June 22
Classroom setting
Wednesday; 8 to 10 a.m.

**CTSC 6821: Regenerative Medicine Journal Club**
Anthony J. Windebank, M.D.

1 credit
Prerequisites: MPET 6820 previously or concurrently

April 4 – June 20
Classroom setting
Monday; 3-4 p.m.

**CTSC 5880: Health Communication Theory and Innovation**
Amenah A. Agunwamba, Ph.D.

1 credit
Prerequisites: None

May 5 – June 16
Classroom setting
Thursday; 12-2pm
*Exception: No class on June 9th.*

**CTSC 6150: Case Studies in Entrepreneurship**
Stephen Ekker, Ph.D.

1 credit
Prerequisites: None

April 7 – June 23
Classroom setting
Thursday: 12-1pm

**CTSC 6160: Case Studies in Precision Medicine**
Erik Klee, Ph.D.

2 credit
Prerequisites: CTSC 5020 and CORE 6510 (Ph.D. Students Only)

April 4 – June 24
Classroom Setting
Dates and Time to be determined