Student Orientation to Clinical & Population Translational Sciences Program

Program Co-Directors:
Janet Tooze, PhD, MPH (Biostatistical Sciences)
Capri Foy, PhD, MS (Social Sciences & Health Policy)

Program Coordinator: Tina Church (Administration)
• 10:00 a.m.
  • Welcome and Introductions
  • Program and Course Overview
  • Building Emergency Procedures
  • Administrative Details

• 11:00 a.m. - Tour of Building

• 11:30 a.m. - Break / forms / photographs

• 12:00 – 1:00 p.m. – Lunch with faculty
• Welcome and Introductions
• Program and Course Overview
• Building Emergency Procedures
• Administrative Details
• Break: Photographs and Tour of Floor
• Lunch
• Mary Branch
• Charles German
• Matthew Singleton
• Mia Yang
• Samuel Yates
• Name

• Background

• Research Interests

• Other areas of interest (personal hobbies, etc.)

• We will ask you to introduce yourself to the faculty at lunch
• Taking Courses
  • Roy Strowd
  • Zanetta Lamar

• Working on Thesis
  • Amber Brooks
  • Tokir Mujtaba
  • Adam Pflum
  • Terry Opina
  • Jason Stropyna
  • Amer Aladin
  • Parag Chevli
  • Diana Nakad-Rodriguez
  • Muhammad Imtiaz Ahmad
  • Christopher Schaich
• Welcome and Introductions
• Program and Course Overview
• Building Emergency Procedures
• Administrative Details
• Break: Photographs and Tour of Floor
• Lunch
Contacting Us

- **cpts@wakehealth.edu**
  - Using this email helps us stay organized and track communications
  - Allows us to direct your questions to the right person

- If you feel something is an emergency, it is best to contact Tina directly at **tchurch@wakehealth.edu** or x 6-3804.

- **Dr. Janet Tooze**  [jtooze@wakehealth.edu](mailto:jtooze@wakehealth.edu)  x 6-3833
- **Dr. Capri Foy**  [cfoy@wakehealth.edu](mailto:cfoy@wakehealth.edu)  x 6-3896
• Graduate School Bulletin
  graduate.wfu.edu/bulletin.html

• CPTS web presence
  www.phs.wakehealth.edu/public/edu.cfm?
  Includes links to
  • Program Handbook, which contains:
    • Program Details;
    • Required Coursework and Course Descriptions;
  • Program Forms; and
  • Thesis details
• **Provide students with the skills necessary to:**
  
  • translate discoveries generated during laboratory research to human populations
  
  • conduct research aimed at enhancing the adoption of best practices in health care settings and the community
  
  • function in multidisciplinary teams that will conduct the translational research of the future
• Develop meaningful and feasible research questions based on literature review and appropriate biological and psychosocial conceptual frameworks.

• Design and implement studies to answer research questions, with appropriate balancing of competing considerations involved in decisions about study design; participant sampling and recruitment; and approaches to data collection.

• Perform and interpret statistical analyses based on a foundation of statistical literacy, with graduates able to perform basic analyses on their own and prepared to collaborate with statisticians for more complex analyses.
• Conduct research in a responsible and ethical manner.

• Communicate scientific concepts orally and in writing, including through grant applications, protocols, manuscripts, abstracts, and presentations.

• Collaborate productively in the context of multidisciplinary scientific teams comprised of basic, clinical, and population scientists.
• **Formal coursework for one year (full time students)**
  - Courses held on Tuesdays and Thursdays
  - Classes begin on Tuesday, August 28th

• **Thesis**
  - Apply knowledge and skills obtained during coursework
  - Publishable quality
  - Closely aligned with the student’s interests and career objectives

• **Graduates receive a Master of Science (MS) in Clinical and Population Translational Sciences**
<table>
<thead>
<tr>
<th>Fall (11 hours total)</th>
<th>Spring (12 hours total)</th>
<th>Summer (6 hours total)</th>
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</thead>
<tbody>
<tr>
<td>Epidemiology</td>
<td>Clinical Trial Methods</td>
<td>Research Grant Preparation</td>
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<tr>
<td></td>
<td>Applied Linear Models</td>
<td>Thesis Seminar</td>
</tr>
<tr>
<td>Introduction to Statistics</td>
<td>Population Methods II</td>
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<td>Population Methods I</td>
<td>Population Methods II</td>
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<tr>
<td>Ethics &amp; Responsibility in CPTS I</td>
<td>Ethics &amp; Responsibility in CPTS II</td>
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</table>
• **Coursework year**
  • Co-Directors (Janet & Capri)
  • Faculty mentor (often a fellowship director)

• **Thesis year(s)**
  • Thesis mentor/advisor
  • Thesis committee biostatistician
  • Thesis committee member
    • Clinical/population topic area expert
    • Research expert
• Fall 2018: Begin developing idea(s)
  • Occasional mentor meeting to discuss
  • Use topic area in coursework

• Spring/Summer 2019 (full time):
  • Form thesis committee; develop and receive approval for thesis proposal

• Fall 2019 onward:
  • Conduct analyses and write thesis

• When ready: Oral defense of thesis
11. Thesis Timelines

- Work with your advisor to establish a timeline with incremental, concrete steps.

- Please be aware of non-negotiable Graduate School deadlines, found at:
  
  http://graduate.wfu.edu/academic-calendars.html
<table>
<thead>
<tr>
<th>Step</th>
<th>Date of Completion</th>
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</thead>
<tbody>
<tr>
<td>Establish Goals on Thesis Hours Evaluation Form/Turn into CPTS Program</td>
<td>June 19, 2018</td>
</tr>
<tr>
<td>Identify faculty advisor</td>
<td>May/June</td>
</tr>
<tr>
<td>Form thesis committee</td>
<td>June/July</td>
</tr>
<tr>
<td>Obtain approval of thesis committee from the CPTS program</td>
<td>June/July</td>
</tr>
<tr>
<td>Turn in draft proposal to the CPTS Program</td>
<td>August 1, 2018</td>
</tr>
<tr>
<td>Commit to graduation timeline</td>
<td>August 1, 2018</td>
</tr>
<tr>
<td>Turn in completed Thesis Hours Evaluation From</td>
<td>August 3, 2018</td>
</tr>
<tr>
<td>Obtain approval of thesis proposal</td>
<td>August</td>
</tr>
<tr>
<td>Admission to degree candidacy</td>
<td>August</td>
</tr>
<tr>
<td>Step</td>
<td>Date of Completion</td>
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<tr>
<td>-----------------------------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td><strong>Desired Graduation Date</strong></td>
<td>December</td>
</tr>
<tr>
<td><strong>Meet with Advisor to review timeline</strong></td>
<td>Early August</td>
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<tr>
<td>(meet monthly)</td>
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<tr>
<td><strong>Start data analysis with statistician</strong></td>
<td>Early August</td>
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<tr>
<td>(meet monthly)</td>
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<tr>
<td><strong>Draft Chapter 1 of thesis</strong></td>
<td>Mid August</td>
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<tr>
<td><strong>Draft Introduction of Paper</strong></td>
<td>Late August</td>
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<tr>
<td><strong>Draft Methods Section of Paper</strong></td>
<td>Late August</td>
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<tr>
<td><strong>Draft tables for manuscript/meet</strong></td>
<td>Late August</td>
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<tr>
<td>with statistician</td>
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### Suggested Target Dates

<table>
<thead>
<tr>
<th>Step</th>
<th>Date of Completion</th>
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<tbody>
<tr>
<td>Meet with advisor and other committee members to:</td>
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<tr>
<td>*discuss results</td>
<td>December: Early September</td>
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<tr>
<td>*determine additional analyses</td>
<td>May: Early January</td>
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<tr>
<td>*points for discussion/Chapter 3</td>
<td>August: Early May</td>
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<tr>
<td>*determine readiness to submit intent to graduate form</td>
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<tr>
<td>Submit Intent to Graduate Form to Graduate School – see academic</td>
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<tr>
<td>calendar</td>
<td>September: Early September</td>
</tr>
<tr>
<td>Submit <strong>complete draft</strong> of thesis to thesis committee – allow 2</td>
<td>January: Late January</td>
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<td>weeks</td>
<td>May: Mid May</td>
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<tr>
<td>Incorporate edits from thesis committee review</td>
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<td></td>
<td>September: Mid October</td>
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<td></td>
<td>February: Mid February</td>
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<td></td>
<td>May: Mid</td>
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<td>Step</td>
<td>Date of Completion</td>
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<tr>
<td>Meet with thesis advisor and committee members to discuss final thesis</td>
<td>December: Early October</td>
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<td>May: Late February</td>
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<td>August: Late May</td>
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<tr>
<td>With support of faculty advisor and committee, request formation of an Examination Committee and scheduling the oral defense – <strong>no later than 6 weeks prior to last date to defend</strong></td>
<td>December: Mid October</td>
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<td>May: Early March</td>
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<td></td>
<td>August: Early June</td>
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<tr>
<td>Meet with registrar to go over formatting of final thesis – see academic calendar</td>
<td>December: Late October</td>
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<td>May: Late March</td>
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<td>August: Late June</td>
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<tr>
<td>Step</td>
<td>Date of Completion</td>
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<tr>
<td>Submit revised, final draft of thesis to Examination Committee and</td>
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<td>the CPTS program – <strong>no later than 3 weeks prior to defense date</strong></td>
<td>Early November  Early</td>
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<td></td>
<td>April  Early July</td>
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<tr>
<td>Defend thesis at final (oral) examination – see academic calendar</td>
<td>Early December  Late</td>
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<td></td>
<td>April  Late July</td>
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<tr>
<td>Submit final thesis and any other required paperwork per requirements</td>
<td>Early December  Early</td>
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<tr>
<td>of the Graduate School (they provide a checklist when reviewing the</td>
<td>May  Late July</td>
</tr>
<tr>
<td>draft thesis) – see academic calendar</td>
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</table>
• Must demonstrate thesis progress each semester per thesis mentor and program co-directors

• Expectation: Final thesis submitted and defended within 1 year of completing coursework (2 years from matriculation for full-time students)

• Opportunity to request a one-year extension from program co-directors
  • Requires explanation of delay
  • Specific plans for completing thesis
DISCUSSION? QUESTIONS?
We take this code seriously and turn any suspicions of violation(s) over to the Honor Code Panel for investigation and adjudication.

Your acceptance of this code is confirmed by signing an electronic form.

• WFUHS policy: http://ctsi.wakehealth.edu/research-integrity

• Covers students in proposing, performing or reviewing research

• Forbids:
  • Fabrication (making up data/results and recording/reporting them)
  • Falsification (manipulating methods so research not accurately represented in research record)
  • Plagiarism (appropriation of another person’s work without giving appropriate credit)
• Collaboration accepted and expected for non-evaluative situations
  • Improves learning and develops a number of relevant skills

• Own work required for evaluative situations

• If unclear about what is acceptable, consult course instructor or one of the program co-directors
• Welcome and Introductions
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• Break: Photographs and Tour of Floor
• Lunch
Evacuation Route

525@vine  3rd Floor

- Area of Refuge
- Fire Extinguisher
- Manual Fire Alarm

You Are Here
Route
Emergency Assembly Points (EAPs)
• Welcome and Introductions
• Program and Course Overview
• Building Emergency Procedures
• Administrative Details
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• Graduate School web page for students: 
  graduate.wfu.edu/students/

• Course-specific materials (CANVAS): 
  http://wfusm.instructure.com

• Registration: 
  http://internal.graduate.wfu.edu/students/bg_registration.html

• PHS Webpage: 
  https://www.phs.wakehealth.edu/public/edu.cfm

• Registrar: 
  Susan Pierce (spierce@wakehealth.edu)
• Textbooks
• Laptops
• Parking
• Canvas
• SAS installation
• Severe Weather Policy
• Graduate Student Association representative
• Honor Code Panel representative
Severe Weather Policy

• Every year, usually during the Spring Semester, the weather occasionally becomes severe enough to warrant the cancelation of classes. This information is given to avoid confusion about the status of CPTS classes during bad weather.

• Specifically related to the classes in our program, Dr. Foy is the person who will officially decide whether CPTS classes are to be canceled. Here’s what will happen:
  1) She will make a decision by 6:30 a.m. on the morning in question.
  2) She will decide whether to cancel either the first class of the day or the whole day.
  3) If she decides to cancel either, then she will immediately send a blast e-mail to all of you from her home.
  4) If you do not hear from her, assume classes will be held.
• Please note that for the purpose of weather-related class cancelations, our CPTS program is completely independent of decisions made by the Medical Center and/or Wake Forest University. So no matter what you might hear on TV, the radio, or over the internet, you need to hear from Dr. Foy (or your instructor) for the official word.

• Finally – if Dr. Foy has not cancelled classes but you are be unable to come anyway (e.g., because the weather is especially bad where you live or you have child care issues or whatever), then do not come. Use common sense and your own judgment. We don’t want anyone hurt.
• SAS Enterprise Guide and SAS should be installed on your laptop by Academic Computing.

• Academic Computing is located in the Bowman Gray Center for Medical Education Building 3rd floor, Room 3311 (inside the resource center)
<table>
<thead>
<tr>
<th>TIME</th>
<th>TUESDAY</th>
<th>THURSDAY</th>
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</thead>
<tbody>
<tr>
<td><strong>8:00 – 10:00 a.m.</strong></td>
<td>CPTS 720: Epidemiology (Jensen &amp; Mongraw-Chaffin)</td>
<td>CPTS 720: Epidemiology (Jensen &amp; Mongraw-Chaffin)</td>
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<tr>
<td><strong>10:15-11:15 a.m.</strong></td>
<td>CPTS 703: Ethics &amp; Responsibility in CPTS I (King &amp; Andrews)</td>
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<tr>
<td><strong>12:30-2:30 p.m.</strong></td>
<td>CPTS 730: Introduction to Statistics (Beavers)</td>
<td>CPTS 730: Introduction to Statistics (Beavers)</td>
</tr>
<tr>
<td><strong>2:45-4:45 p.m.</strong></td>
<td>CPTS 748: Population Research Methods I (Foy)</td>
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</tbody>
</table>
Dining/Beverage Options

- **Food trucks in Bailey Park**
- **Alma Mexicana in Bailey Power Plant**
  - Open 10:30 a.m. – 10:00 p.m.
- **Chef’s Palette**
  - Across the street in Biotech Place, 1st floor
  - Sandwiches, salads, soup, coffee drinks, adult beverages
  - Open 7:00 a.m. - 3:30 p.m.
- **Medical Grounds Cafe**
  - 1st floor of the Medical Education Building
  - Sandwiches, salads, soup, Starbucks’s coffee
  - Hours are from 7:30 a.m. – 4:30 p.m.
- **Coffee, tea, hot chocolate, refrigerator & microwave are located in break rooms**
- **Soda and other vending machines on 5th floor**
Downtown Coffee Shops

- Krankies Coffee (free wifi)
  http://www.krankiescoffee.com/
- Washington Perk & Provisions (free wifi)
  https://www.facebook.com/washingtonperk/
- Camino Bakery (free wifi)
  http://www.caminobakery.com
- The Legendary Goat Coffee House
  http://www.legendarygoat.com/
Quick/Take Out Dining Options Near Building

- Mooney’s Mediterranean Café
- Downtown Deli
- Jimmy John’s (online ordering available)
  [https://online.jimmyjohns.com/#/delivery](https://online.jimmyjohns.com/#/delivery)
- Washington Perk & Provisions (free wifi)
  [https://www.facebook.com/washingtonperk/](https://www.facebook.com/washingtonperk/)
- Camino Bakery (vegetarian, free wifi)
• Tour of Building / Area
• Photos
• Brief bio paragraph
• Lunch
• I am a faculty member here at Wake Forest in the Dept of Pediatrics. I am currently enrolled in the graduate school CPTS program with the goal of providing a research and statistical foundation to further my knowledge. My current research interests include following growth outcomes in the first two years of life in ex-preterm infants with chronic lung disease.

• In my downtime, I like to read murder mysteries and “who-dun-it” type fiction. I enjoy moderate physical activity of various sorts including jogging, running 5-K races, whitewater rafting, hiking, soccer and volleyball.
• Thanks for your attention.

• We are happy to have you here!!

• Lunch – introduce yourself to the faculty

• Please contact us if you have questions, problems, suggestions:
  • cpts@wakehealth.edu
  • Directly if urgent (Tina best first contact)
Concentration in Antimicrobial Stewardship and Infection Prevention

- In-depth training in Antimicrobial Stewardship, Infection Prevention, and Global Health
- Taking 3 courses (7 credits) in addition to Epidemiology (B or better) and a focus in this area on your thesis will earn a concentration with your MS degree
  - CPTS720 (Fall) or BMSC713 (Spring) (Epidemiology courses)
  - CPTS725 Global Health Seminar Series (Fall)
  - CPTS722 Antimicrobial Stewardship (Spring)
  - CPTS723 Infection Prevention and Health System Epidemiology (Summer)
CPTS 725 Global Health Seminar Series

Objectives:

- Global Burden of Disease, Social Determinants of Health, Governance and Global Health Systems, Global health Successes, Challenges and Opportunities
- Epidemiology, Clinical Manifestations and Treatment of Infectious Diseases of Major Public Health Importance:
  - HIV
  - Hepatitis
  - Sexually Transmitted Diseases
  - Diarrheal Pathogens
- Understand the Threat of Emerging and Reemerging Infectious Diseases (e.g. Zika, Dengue and Chikungunya)
- Vaccines and Vaccine Preventable Diseases (e.g. Measles)
- Conduct Outbreak Investigations
Concentration in Antimicrobial Stewardship and Infection Prevention

• **CPTS 722 Antimicrobial Stewardship Objectives**
  
  • to improve awareness and understanding of antimicrobial susceptibility, antibiotic resistance and breakpoints;
  
  • to strengthen knowledge of Antimicrobial Stewardship through surveillance and research;
  
  • to reduce the incidence of infection;
  
  • to optimize the use of antimicrobial agents including empiric antimicrobial therapy for common inpatient and outpatient infections;
  
  • to develop the economic case for sustainable investment in Antimicrobial Stewardship taking into account the needs of diverse countries and regions;
  
  • to work within the Antimicrobial Stewardship team to design and carry out a research project.
Concentration in Antimicrobial Stewardship and Infection Prevention

- CPTS 723 Infection Prevention and Health System Epidemiology Objectives:
  - Demonstrate use and mastery of specific methods relating to infection prevention and health system epidemiology including surveillance, pathogen resistance development, outbreak management, communicable diseases, occupational health, quality and performance improvement, patient safety, and ethical considerations.
  - Develop skills needed to establish an infection prevention and health system epidemiology program.
  - Utilize clinical research study designs as applied to infection prevention research.
  - Discuss relevant thematic topics including reduction strategies for isolation precautions and hand hygiene, infection prevention in special populations, healthcare system preparedness, and environmental aspects of infection prevention.
  - Work within the infection prevention and health system epidemiology team to design and carry out a research project.
• Thanks for your attention.

• We are happy to have you here !!

• Lunch – introduce yourself to the faculty

• Please contact us if you have questions, problems, suggestions:
  • cpts@wakehealth.edu
  • Directly if urgent (Tina best first contact)