

Translational and Clinical Investigation, Graduate Certificate

Requirements

The graduate Certificate in Translational and Clinical Investigation requires 17 s.h. of graduate credit and may be completed in one year. Certificate requirements include didactic coursework, clinical research preceptorships, and clinical research seminar participation.

The Department of Epidemiology and the Institute for Clinical and Translational Science (ICTS) offer the certificate for clinicians who seek advanced training in clinical methodology and applied patient-oriented research skills. The certificate program is open to individuals who hold a doctoral-level degree in a clinical discipline (e.g., MD, DO, DDS, PhD, PharmD, DVM), are practicing academic clinicians, and are admitted as graduate students to the College of Public Health or are enrolled in a basic or health science doctoral program at the University of Iowa. Other admission requirements are similar to those for the MS program in epidemiology.

The Certificate in Translational and Clinical Investigation requires the following work.

Required Courses

| Course # | Title | Hours |
|---------------|---------------------------------------|-------|
| All of these: | | |
| BIOS:4120 | Introduction to Biostatistics | 3 |
| EPID:4400 | Epidemiology I: Principles | 3 |
| EPID:5500 | Introduction to Clinical Epidemiology | 3 |
| EPID:6950 | Clinical Research Ethics | 2 |

Electives

| Course # | Title | Hours |
|---------------------------------------|--|-------|
| 6 s.h. from these: | | |
| BIOS:6210/ IGPI:6210 | Applied Survival Analysis | 3 |
| BIOS:6310/ IGPI:6310/ STAT:6550 | Introductory Longitudinal Data Analysis | 3 |
| BIOS:6610/ IGPI:6610 | Statistical Methods in Clinical Trials | 3 |
| BIOS:7600/ IGPI:7600 | Advanced Biostatistics Seminar | 0-3 |
| CBH:5235 | Community-Based Participatory Research | 3 |
| CBH:5305 | Evaluation: Approaches and Applications | 3 |
| CBH:6205 | Designing and Implementing Interventions | 3 |
| DPH:6004 | Principles of Oral Epidemiology | 0-3 |

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| EPID:5200/ IGPI:5220 | Principles of Public Health Informatics | 3 |
| EPID:5214 | Meta-Analysis of Epidemiologic Studies | 3 |
| EPID:5560 | Biomarkers in Epidemiology | 3 |
| EPID:5610 | Intermediate Epidemiology Data Analysis with SAS and R | 3 |
| EPID:5570 | Zoonotic Diseases | 3 |
| EPID:5600 | Introduction to Epidemiology Data Management and Analysis | 3 |
| EPID:6000 | Independent Study in Epidemiology | arr. |
| EPID:6100 | Writing a Grant Proposal | 3 |
| EPID:6150 | Writing for Medical Journals | 1 |
| EPID:6250 | Genetics and Epidemiology | 3 |
| EPID:6330 | Global Nutrition Policy | 2-3 |
| EPID:6350 | Nutritional Epidemiology | 2 |
| EPID:6360 | Nutrition Intervention in Clinical Trials Research | 2 |
| EPID:6370 | Nutrition Intervention in Research Lab | 3 |
| EPID:6400 | Epidemiology II: Advanced Methods | 4 |
| EPID:6510/ OEH:6520 | Injury Epidemiology | 3 |
| EPID:6550/ GHS:6550 | Epidemiology of Infectious Diseases | 3 |
| EPID:6560 | Hospital Epidemiology | 2 |
| EPID:6600 | Epidemiology of Chronic Diseases | 3 |
| EPID:6655/ BIOS:6650/ IGPI:6650 | Causal Inference | 3 |
| EPID:6900 | Design of Intervention and Clinical Trials | 3 |
| EPID:6910 | Pharmacoepidemiology and Comparative Effectiveness Research | 3 |
| EPID:6950 | Clinical Research Ethics | 2 |
| EPLS:5165/ PSQF:5165 | Introduction to Program and Project Evaluation | 3 |
| GEOG:3110/ GHS:3111 | Geography of Health | 3 |
| HMP:5315 | Health Information Systems | 2-3 |
| HMP:5410 | Health Economics I | 3 |
| HMP:7550 | Cost Effectiveness and Decision Analysis | 3 |
| HMP:7960 | Analytic Issues in Health Services Research I | 3 |
| HMP:7965/ PHAR:7331 | Analytic Issues in Health Services Research II | 3 |
| PCOL:5136 | Pharmacogenetics and Pharmacogenomics | 1 |
| PHAR:5310 | Health Services Research Seminar | 1-2 |
| PHAR:5350 | Introduction to Research Methods | 3 |
| PHAR:6305 | Foundation Literature in Health Services Research | arr. |

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| TBM:5001 | Introduction to Translational Biomedicine | 3 |
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