

Competencies

General Epidemiology – MHS and ScM Department of Epidemiology

1. Develop a strong foundation in epidemiologic and statistical methods and a broad understanding of general principles of the dynamics of health and disease in human populations

| | | | Evaluation Opportunities | | |
|---|--|---|--------------------------|---------------|-------------------------|
| Specific Competencies | Learning Opportunities | | Course Work/Exam | Written Comps | MHS Essay or ScM Thesis |
| Describe and critically assess risk factors for common chronic diseases | 340.607 | Epidemiologic and Preventive Aspects of Cardiovascular Diseases | X | X | |
| | 340.624-5 General Epidemiology Journal Club | Etiology, Prevention, and Control of Cancer I-II | | | |
| Describe and critically assess prevention strategies for common chronic diseases by means of familiarization with key documents describing such strategies (Guide to Clinical Preventive Services, Report of the US Preventive Services Task Force, etc.) | 340.607 | Epidemiologic and Preventive Aspects of Cardiovascular Diseases | X | X | |
| | 340.624-5 General Epidemiology Journal Club | Etiology, Prevention, and Control of Cancer I-II | | | |
| Use epidemiologic findings in a causal framework to identify prevention needs and develop prevention strategies a chronic disease and associated disabilities | 340.751 | Epidemiologic Methods 1 | X | X | X |
| | 340.752 Journal Clubs | Epidemiologic Methods 2 | | | |
| Explain and interpret epidemiologic findings pertaining to chronic diseases for non-epidemiologists in the public health area | 340.843 | Translating Epidemiology for the Web | X | X | |
| | 340.851 Journal Clubs | Phase Internship | | | |

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| | | | Evaluation Opportunities | | | |
|--|--|-------------------------------|---|---------------|-------------------------|---|
| | | | Course Work/Exam | Written Comps | MHS Essay or ScM Thesis | |
| 1. Develop a strong foundation in epidemiologic and statistical methods and a broad understanding of general principles of the dynamics of health and disease in human populations, continued | | | | | | |
| Specific Competencies | | Learning Opportunities | | | | |
| Write a scientific proposal, select an appropriate design and develop detailed study hypotheses related to chronic disease outcomes and to the evaluation of health care interventions and programs | | 340.715 | Problems in the Design of Epidemiologic Studies (Grant Writing) | X | | X |
| | | 340.717 | Health Survey Research Methods | | | |
| | | Journal Clubs | | | | |
| | | MHS Essay or ScM Thesis | | | | |
| Identify main sources of bias and variability, including those resulting from long latency periods and long preclinical phases characterizing many chronic diseases | | 340.752 | Epidemiologic Methods 2 | X | X | |
| | | 340.753 | Epidemiologic Methods 3 | | | |
| | | Journal Clubs | | | | |
| Write critical reviews of the literature on chronic diseases using both narrative and meta-analytic techniques, and reports of findings of empirical research | | 340.840 | Special Studies and Research Epidemiology | X | X | X |
| | | Journal Clubs | | | | |
| | | MHS Essay or ScM Thesis | | | | |
| Advise in contexts external to the public health environment on issues of prevention of major chronic diseases, and on evaluation of health interventions | | 340.843 | Translating Epidemiology for the Web | X | X | X |
| | | 340.851 | Phase Internship | | | |
| | | Journal Clubs | | | | |