

TABLE OF THE PROGRAM	
<p>School of Public Health - 30 Credits Required of all Biostatistics and Epidemiology Students Course #, Name (credits)</p>	<p>Graduate School of Biomedical Sciences - 21 Credits Course #, Name (credits)</p>
<p>PHCO 0501 - Health Care Systems and Policy (3) PHCO 0502 - Principles of Epidemiology (3) PHCO 0503 - Introduction to Environmental Health (3) PHCO 0504 - Introduction to Biostatistics (3) Students must pass the QSA to take PHCO 0504. PHCO 0505 - Health Education & Behavioral Science in Public Health (3) Note: Students should take PHCO 0502 and 0504 ASAP after entering the program (preferably in the fall) because they are pre-requisites for upper level QM courses.</p>	<p>Required Core Courses GSND N500A - Fundamentals of Biomedical Sciences 1 (3) GSND N500 B - Fundamentals 2: Cellular Biology (3) MSBS 5910 - Seminar in Biomedical Sciences (1) MSBS 593A - Research in Biomedical Sciences (2)</p>
<p>Public Health Core Credits 15 credits</p>	<p>Biomedical Sciences Core Credits 9 credits</p>
<p>Public Health Specialization Courses <u>Biostatistics Concentration</u> Required Credits 15 credits QNME 0611 Design of Epidemiologic Studies and Clinical Trials(3) QNME 0612 Linear Models: Regression and ANOVA (3) QNME 0584 Computing II: EPI- Info (1) QNME 0585 Computing I: Introduction to Microsoft Office (1) QNME 0583 Computing III: Using SAS (1 credit) Computing I and III have been combined into 1 course called QNME 0587 Intro to SAS for Data Analysis in Public Health (2 credits) Note: Students are encouraged to take QNEM 0584 Computing II: EPI-Info during the same semester as PHCO 0502 Principles of Epidemiology. QNME 0614 Categorical Data Analysis (3) QNME 0613 Life Tables and Survival Analysis (3) ----- Public Health Specialization Courses <u>Epidemiology Concentration</u> Required Credits 15 credits 5 Required Courses: (9 credits) QNME 0611 Design of Epidemiologic Studies and Clinical Trials (3) QNME 0612 Linear Models: Regression and ANOVA (3)</p>	<p>Biomedical Sciences Elective Courses 12 credits Students must complete 12 credits from the following list of elective courses. At least one of the three asterisked (*) courses should be included among the courses selected. Courses not listed can be substituted only with GSBS permission.</p> <p>MSBS 5140 Biological Terrorism & Weapons Mass Destruction (2)* GSND N5310 Clinical Trials Overview (3)* GSND 5235 Principles of Clinical & Translational Res. Oncology (2) * BIOC N5002 Introduction to Genomics, Proteomics and Bioinformatics (3) PATH 5100 Cellular Pathology (3) NEUR 5200 Fundamentals of Neuroscience (3) NEUR N5031 Neural Substrates of Aggressive Behavior (3) CBMM N5001 Basic Histology (3) CBMM 5350 Molecular Medicine of the Heart (3) MSBS 5130 Stem Cell Biology & Applications Molecular Medicine (3) MSBS 520A Advanced Stem Cell Seminar (2) PHPY N5021 Fundamentals of Pharmacology (3) PHPY N5225 Principles of Toxicology (3) PATH N5209 The Business of Science: Drug Development – From</p>

<p>QNME 0584 Computing II: EPI Info (1) QNME 0585 Computing I: Introduction to Microsoft Office (1) QNME 0583 Computing III: Using SAS (1) Computing I and III have been combined into 1 course called QNME 0587 Intro to SAS for Data Analysis in Public Health (2 credits) Note: Students are encouraged to take QNEM 0584 Computing II: EPI-Info during the same semester as PHCO 0502 Principles of Epidemiology.</p> <p>And students are required to take 1 of these 3 methods courses: (3 credits) QNME 0621 Survey Research Methods Questionnaire Design(3) QNME 0614 Categorical Data Analysis (3) QNME 0613 Life Tables and Survival Analysis (3)</p> <p>And Choose 1 Elective Course (preferably within QNME): (3 credits) Please note: a. Epidemiology students without a clinical background must take one course that provides the medical basis for the etiology and prevention of diseases of public health importance. b. Epidemiology students who choose to pursue one of the approved collateral programs (e.g. injury or infectious diseases) would take the approved collateral courses as part of their elective course work. This would increase the number of credits required for the dual degree.*</p>	<p>Molecules to Medicine (3) BIOC 5170 Molecular Methods in Biochemistry (3) CBMM 5002 Practical Approaches for Studying Protein Function (2) DENT 5150 Metallic Systems & Dental Biomaterials (2) DENT 5160 Polymeric Systems in Biomaterial Sciences (2) DENT 5220 Methods in Microscopic Imaging (2) DENT 5300 Oral Microbiology (3) BIOC 5003 Advances Genomics, Proteomics, & Bioinformatics (2) GSND 5113 Gene Expression (2) PATH N5211 Immunology (3) NEUR N5040 Neurobiology of Disease (3) MICR N5233 Microbes and Infectious Disease (3) MICR 5231 Molecular Virology (3) CBMM N594A Regional Gross Anatomy: Thorax & Abdomen (3) GSND 5225 Cancer Biology MSBS N5134 Hematopoietic Stem Cell Biology (2) MSBS N512 Topics in Cancer Stem Cell Biology (2) GSND 5115 Molecular Basis of Reproduction (2) BIOC 5100 Molecular Oncology (2) BIOC 5330 Signaling Mechanisms in Biochemical Systems (2) PHPY N526 Principles of Toxicology II (3) GSND 5215 Animal Models in Biomedical Research (2) MSBS N517 Introduction to Select Agent Biology (2) MSBS N5010 Seminar in Homeland Security and Domestic Preparedness (2) MSBS 5100 Current Molecular Techniques (3) DENT 5310 Oral Immunology (3) PHPY N5030 Topics in Pharmacology (3)</p>
<p>Total Didactic Course Credits Public Health - 30 credits*</p>	<p>Total Didactic Course Credits Biomedical Sciences - 21 credits</p>
<p>Public Health Fieldwork and Biomedical Sciences Research – SPH course numbers FDWC 0600 (1) and FDWC 0601 (5) 6 credits</p>	
<p>Public Health - 30 Credits * Biomedical Sciences - 21 Credits Fieldwork/Research - 6 Credits Total 57 Credits</p>	