BHSc Course Changes August 14th, 2019

Course Code	REPD 473	GLPH 271	BMED 386	BCHM 218	BMED 270	BMED 483
New Course Code						
Course Name	Developmental Origins of Health and Disease	Global and Population Health	Fundamentals of Immunology in Health and Disease	Molecular Biology	Fundamentals of Health Research Methodology	Advanced Topics in Infectious Diseases
New Course Name						
Current Pre-reqs	Minimum 4th year (Level 4) standing and (one of PHAR 270/3.0 or PHAR 340/3.0) and REPD 372/3.0.		Minimum 3rd year (level 3) standing and one of (BCHM 218/3.0 or BCHM 270/3.0), and one of (MICR 270/3.0 or MICR 221/3.0), or equivalent courses with permission of the instructor.	Minimum 2nd year (Level 2) standing and (BIOL102/3.0 and CHEM112/6.0) or (CHEM114/3.0 and PHGY170/3.0) or permission of instructor.	Minimum 2nd year (Level 2) standing and one of STAT 263/3.0; BIOL 243/3.0; CHEE 209/3.0; ECON 250/3.0; GPHY 247/3.0; KNPE 251/3.0; NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 267/3.0; STAT 367/3.0; COMM 162/3.0 or permission of the instructor.	Minimum 4th year (Level 4) standing and one of (MICR 382/3.0; MICR320/3.0; MICR270/3.0; MICR221/3.0), or permission from the instructor.
New Pre-reqs	Minimum 4th year (Level 4) standing and (one of PHAR 230/3.0; PHAR 270/3.0; PHAR 340/3.0; PHAR 380/3.0) and REPD 372/3.0.		Minimum 3rd year (level 3) standing and one of (BCHM 218/3.0 or BCHM 270/3.0), and one of (MICR 270/3.0; MICR 271/3.0; MICR 221/3.0), or equivalent courses with permission of the instructor.	Minimum 2nd year (Level 2) standing and one of (BIOL102/3.0; PHGY 170/3.0) and one of (CHEM112/6.0; CHEM114/3.0).	Minimum 2nd year (Level 2) standing and one of STAT 263/3.0; BIOL 243/3.0; CHEE 209/3.0; ECON 250/3.0; GPHY 247/3.0; KNPE 251/3.0; NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 267/3.0; STAT 367/3.0; COMM 162/3.0; STAM 200/3.0 or permission of the instructor.	Minimum 4th year (Level 4) standing and one of (MICR320/3.0; MICR270/3.0; MICR221/3.0; MICR 271/3.0), or permission from the instructor.
Current Exclusions		HTLH 205/3.0				
New Exclusions		None				
Current Course Description	This course will cover how the early-life environment contributes to later-life health. Specifically, students will learn about how prenatal, neonatal, and early childhood exposures and environments contribute to health and disease later in life, including the development of numerous non-communicable diseases affecting numerous organ systems. Mechanisms of how these exposures are thought to contribute to the development of these diseases will also be discussed.					
New Course Description	REPD 473, Development Origins of Health and Disease, will cover how the early-life environment contributes to later-life health. Four major topics will be covered: maternal exposures, maternal nutrition, infection, and pregnancy complications. Students will learn about how alterations in the embryonic and fetal environment due to these four parameters can and do contribute to the development of non-communicable diseases that persist throughout life. Students will have the opportunity to explore and consolidate the academic literature pertaining to DOHaD, as well as investigating the resources available to these populations of patients.					

Current Learning Outcomes	1. Define the hypothesis and mechanisms of the Developmental Origins of Health and Disease (DOHAD) to explain the connection between the in utero environment and different adult diseases. (PLO 2, 3; Assessment 1) 2. Describe how and which insults to the in utero environment can disrupt development and lead to adult disease. (PLO 2 – 4; Assessment 2) 3. Discuss the types of adult diseases that are associated with the DOHAD hypothesis to collaborate and discuss causes and prevention. (PLO 3, 7; Assessment 3, 4) 4. Identify impacts of developmental disruptions and associated long term health to advocate for policy change with health care					
New Learning Outcomes	1) Consolidate information pertaining to an untoward embryonic/fetal environment in order to describe how that environment contributes to the individual's long-term health and disease (Assessment 1, 2, 3, 4) 2) Align principles of the developmental origins of health and disease hypothesis with primary literature in the field in order to present, connect, and extend concepts within the research article(s) (Assessment 1, 2) 3) Explain the consequences of developmental exposures in order to teach the public about a specified condition and advocate for support and resources for the patient population. (Assessment 3)					
Current Assessments	1. Module tests (30%) 2. Written Report (20%) 3. Advocacy Presentation (25%) 4. Advocacy Report (25%)					
New Assessments	1. Research Paper Presentation x2 (30% total) 2. DOHaD Review Paper (25% total) 3. Disease Prevention Assignment (15%) 4. Final Exam (30%)					
Current Competencies	1. Communicator (Assessment 1 – 4) 2. Advocate (Assessment 3, 4) 3. Leader (N/A) 4. Scholar (Assessment 2 – 4) 5. Professional (Assessment 3, 4) 6. Collaborator (Assessment 3, 4)					
New Competencies	1. Communicator (Assessment 1 – 4) 2. Leader (Assessment 1) 3. Scholar (Assessment 2, 3) 4. Professional (Assessment 1, 3) 5. Collaborator (Assessment 2) 6. Advocate (Assessment 3) 7. Content Expert (Assessment 2, 4)					