

HTH SCI 1CC6
Integrated Biological Bases of Nursing Practice I
Fall Term – 2021

Course Description

Welcome! The aim of this course is to systematically review the cellular, anatomical, and physiological concepts directly relevant to professional nursing practice at a baccalaureate level. Students will apply the biological principles essential to the assessment and understanding of health care challenges. This intensive course is organized as a one-term course and accounts for six units of your program. It has been structured as lecture and tutorial based course and will use elements of the problem-based learning approach and incorporate self-directed learning.

Learning Outcomes

This is a level one science course and after completing this course the RPN to BScN students are able to expand on their background empiric and personal knowing of how the sciences inform thinking about and in professional nursing practice.

This course supports the health and healing process and discusses how the patients remain in homeostasis. With discussion around structural features and functions of the human body at a cellular and systems level, empiric knowledge is presented to facilitate the student's noticing, at a more in depth level, what is going on with patients within the clinical reasoning process. As these students are preparing for the transition to increased responsibility as RNs, this course challenges them to achieve a high level of interpretation and response to subsequent health challenges. These students are able to interpret salient aspects of noticing and knowing of patients' health status.

Overview of Approach to Teaching and Learning

Course Format:

This course will include:

a) **Virtual Lectures:** There will be one 2-hour virtual lecture per week

These virtual lectures will be presented according to the class schedule and will present empiric knowledge and summarize the most important concepts for the topic under discussion.

b) **Virtual Tutorials:** There will be one 2-hour virtual tutorial per schedule.

Each tutorial will look at clinical situations and objectives allowing for revision and re-evaluation of anatomical, physiological, and biochemical concepts presented in class, enabling students to challenge their own clinical reasoning and judgement within an online setting. Conceptually, these

tutorials will allow the students to become familiar and comfortable with the “basic sciences” in a way that will assure professional relevance during the discussions.

c) **On-line Tutorials and Associated Quizzes:** There will be on-line tutorials released according to the class schedule. Each of these modules/tutorials will give students an opportunity to rehearse some of the key topics that are discussed in the course. It is important to note that access to these tutorials will be time sensitive – meaning each tutorial is only available for a period of 2 weeks. The goal is to allow for flexible timing to maximize independent learning but also to assist students' pacing through the empiric knowledge presented.

Please refer to the lecture schedule, the week-by-week list of tutorial activities, and the online tutorials all outlined in Avenue to Learn (A2L) for more specific information.

Evaluation Measures

Students' final grade will be based on a variety of evaluation measures and they will include:

Evaluation Component	Weighting in Relation to Final Course Grade	When
Virtual tutorial performance	10%	See Course Schedule
On-line tutorial quizzes	15%	See Course Schedule
Midterm exam	15%	See A2L
Virtual assignment	20%	See A2L
Final exam	40%	Final Exam Timetable
Total Mark	100%	

NOTES:

- The instructor reserves the right to modify elements of the course and will notify students appropriately, either in class or on Avenue to Learn (A2L) as per McMaster Undergraduate Course Management Policy.
- There is no extra credit work in HTH SCI 1CC6 and grades will not be bell curved. Issues related to grades posted on A2L must be reported to the course instructor before the final exam is written.
- The on-line tutorial quizzes must be completed on A2L.
- Students are required to be available for the entire examination period as listed in the *Sessional Dates* section of the Undergraduate Calendar for the final exam.
- This course will require students to take their final exam using proctoring software that uses the computer's webcam or other technology to monitor and/or record activity during the exam.
- Grades are not official until released from the Office of the Registrar.

Tutorial Performance:

Virtual Tutorials: The marking for the virtual (synchronous) tutorials are done by the tutorial assistant (TA) in each group and accounts for 10% of your final mark. The specific information for each tutorial session can be found in the Course Content – Tutorials section on A2L.

On-line Tutorials with a Quiz: In this course students will be using the online Learning Management System called Avenue to Learn (A2L). Students should be aware that, when they access the electronic components of this course, private information such as first and last names, user names for the McMaster e-mail accounts, and program affiliation *may* become apparent to all other students in the same course. The available information is dependent on the technology used. Continuation in this course will be deemed consent to this disclosure. If you have any questions or concerns about such disclosure, please discuss this with the course planner.

The marking for the on-line tutorials will be comprised of your on-line quiz results and as mentioned above accounts for 15% of your final mark.

Virtual Assignment:

All information pertaining to the assignment's criteria, grading rubrics, and dates are found in the Course Content – Assignment section on A2L.

Midterm and Final Exams:

The midterm exam will be scheduled according to the course schedule (see Avenue to Learn for specific dates). The final exam is scheduled by the registrar and may occur at any time during the December exam period. Please note as per the Undergraduate Calendar, you must be available for the entire range of examination dates as listed in the Sessional Dates Section. For Fall 2021, the Sessional Dates for Final Exams are December 9th to 22nd inclusive.

The midterm exam will focus primarily on the first part of the course, the cumulative final exam will include any of the concepts covered in the lectures and virtual tutorials during the term.

Proctoring Software:

This course will be using proctoring software for the Virtual Assignment and both the midterm and final exams. This software will require you to turn on your video camera, present identification, monitor and record your computer activities, and lock down your browser during this testing duration. This software will need to be installed before these evaluation measures begins. If you have questions or concerns about this software, please contact your instructor.

Required Learning Resources

Required:

- Marieb, E. & Hoehn, K. (2019). *Human Anatomy & Physiology* (11th ed.). USA: Pearson Education, Inc.
 - Includes "Interactive Physiology" CD and useful online resources

Recommended:

- Hannon, R. & Porth, C. (2017). *Porth Pathophysiology, Second Canadian Edition*. Philadelphia: Lippincott, Williams & Wilkins.

Note: This will be the required textbook for HTH SCI 2CO6 in the Winter term

Academic Accommodations

Student registered with SAS (McMaster and Mohawk sites) or Accessibility Services (Conestoga site) are required to make a virtual appointment with the course instructor (Dr Hannon at hannonr@mcmaster.ca) to discuss their accommodations needs throughout the term. The course instructor's contact information is listed on page 7 for those who need to set up an appointment.

Accommodations must be initiated and organised by the student. If a student fails to make such arrangements, they will be required to follow the same process as all other students seeking relief from missed work or the writing of a deferred exam.

University and BScN Program Policies and Procedures

The University has defined its expectations of students in both the academic and non-academic life of the University community. Policies that govern these practices can be found on the Undergraduate Academic Calendar or on the University website <http://www.mcmaster.ca/policy>. As policies are reviewed and revised on a regular basis, students are responsible for checking the Policies, Procedures and Guidelines section of the University website for the most up-to-date information (adapted from the Undergraduate Calendar, 2021-2022).

Conduct Expectations

As a McMaster student, you have the right to experience, and the responsibility to demonstrate, respectful and dignified interactions within all of our living, learning and working communities. These expectations are described in the [Code of Student Rights & Responsibilities](#) (the “Code”). All students share the responsibility of maintaining a positive environment for the academic and personal growth of all McMaster community members, **whether in person or online**.

It is essential that students be mindful of their interactions online, as the Code remains in effect in virtual learning environments. The Code applies to any interactions that adversely affect, disrupt, or interfere with reasonable participation in University activities. Student disruptions or behaviours that interfere with university functions on online platforms (e.g. use of Avenue 2 Learn, WebEx or Zoom for delivery), will be taken very seriously and will be investigated. Outcomes may include restriction or removal of the involved students’ access to these platforms.

Copyright and Recording

Students are advised that lectures, demonstrations, performances, and any other course material (including course outlines and manuals) provided by an instructor include copyright protected works. The Copyright Act and copyright law protect every original literary, dramatic, musical and artistic work, **including lectures** by University instructors.

The recording of lectures, tutorials, or other methods of instruction may occur during a course. Recording may be done by either the instructor for the purpose of authorized distribution, or by a student for the purpose of personal study. Students should be aware that their voice and/or image may be recorded by others during the class. Please speak with the instructor if this is a concern for you.

Extreme Circumstances

The University reserves the right to change the dates and deadlines for any or all courses in extreme circumstances (e.g., severe weather, labour disruptions, etc.). Changes will be communicated through regular McMaster communication channels, such as McMaster Daily News, A2L and/or McMaster email.

Students in the BScN program must also refer to program specific policies and procedures, which are found in the Undergraduate Nursing Education Program Handbook. This Handbook is located on A2L in the student resource section of the course. Ensure you are familiar with this document, including the following important policies:

- Attendance Expectations, Policies and Procedures
- Academic Accommodation of Students with Disabilities Policy
- Academic Integrity Policy
- BScN Program Viewing Final Exams Policy
- Code of Student Rights and Responsibilities
- Discrimination, Harassment & Sexual Harassment: Prevention & Response
- Faculty of Health Science Professional Behaviour Code of Conduct for Learners
- IT Communication Policy
- McMaster University Grading Scale
- Student Appeal Procedures

Course Specific Policies and Procedures

Please refer to the following documents located in the course policies and procedures section of A2L for information regarding the policies and procedures governing all in course-related activities.

- HTH SCI 1CC6 Tutorial Absence Policy
- HTH SCI 1CC6 Procedure for Deferred Midterm Exam