FACULTY OF HEALTH SCIENCES

UNDERGRADUATE CURRICULUM REPORT

TO UNDERGRADUATE COUNCIL
CURRICULUM AND ADMISSIONS COMMITTEE

FOR THE 2014-15 CALENDAR

November 25, 2013
Approved by Faculty Executive
REPORT TO SENATE

FACULTY OF HEALTH SCIENCES
SUMMARY OF CURRICULUM CHANGES FOR 2014-15

This report highlights substantive changes being proposed. For a complete review of all changes, please refer to the Faculty of Health Sciences Curriculum Report for changes to the 2014-2015 Undergraduate Calendar, found at: http://fhs.mcmaster.ca/main/documents/health_sciences_curriculum_report_2014_15.pdf

NEW PROGRAMS
NONE

PROGRAM CLOSURES
NONE

MAJOR REVISIONS
NONE
REPORT TO UNDERGRADUATE COUNCIL

FACULTY OF HEALTH SCIENCES

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BACHELOR OF HEALTH SCIENCES (HONOURS) PROGRAM

- Revision to Admission for Global Health Specialization
  - Applicants may be asked to submit a statement of interest and may be interviewed.
- Revision to Admission for Child Health Specialization
  - Applicants may be asked to submit a statement of interest and may be interviewed.
- Revision to Academic Regulations
  - Continuation in the Program
- Revisions to Program Requirements
  - Child Health Specialization
    - 6-9 units HTH SCI 4A09 or 4B09
    - 12-15 units Electives
  - Global Health Specialization
    - 3 units HTH SCI 2J03 for Level II
    - 6 units Electives for Level II
    - 3 units HTH SCI 3G03 for Level III
    - 3 units Elective for Level III
  - Biomedical Sciences Specialization
    - 3 units BIOCHEM 3EE3 for Level III

- 3 New courses
- 3 Course deletions
- Changes to 5 existing courses

BACHELOR OF HEALTH SCIENCES MIDWIFERY PROGRAM

- Updated the Ontario Secondary School requirements
- 1 Course deletion

BACHELOR OF SCIENCE NURSING PROGRAM

- Revision to Admission
  - Applicants from Pre-Health Sciences Program
- Revisions to Curriculum
  - Diploma R.N. (B) Stream {6391} removed
  - Post Diploma R.P.N. (E) Stream removed
  - Basic-Accelerated (F) Stream {6381} removed
- Revision to Academic Regulations
  - B.Sc.N Program Academic Regulations: Basic (A); Post Diploma (B), (E); And Basic-Accelerated (F) Streams – renumbering of notes, addition of one note
  - Aboriginal Section RPN to B.Sc.N. Stream – Mohawk Site (revision to academic regulations based on previous courses changes prior to printing of undergrad calendar)
  - update in statement related to which courses are offered at Six Nation Polytechnic
- 3 New Courses
Policy on the Extension of Clerkship Initiative Following an Unsuccessful CaRMS Match

1. Background and Principles:

During the third and final year of training in the MD Program, most students will elect to enter the process for securing a residency position in a Canadian residency program. Students enter the residency matching process through the Canadian Residency Matching System (CaRMS). Occasionally, students will participate in the CaRMS process, in good faith, and remain unmatched to a residency program. Students will have successfully completed the requirements of their MD Degree and therefore are not eligible to continue training in the university. This limits their opportunities to engage in additional electives that may improve their chances at matching in subsequent CaRMS application cycles.

The goal of this policy is to provide additional training opportunities for students who were unsuccessful during the CaRMS matching process. This program should be seen as a less desirable “back up” to the normal CaRMS process to discourage students from potentially taking multiple attempts to match to highly competitive specialties while supporting students who have made reasonable attempts to engage in the matching process in good faith. The principles applied in the development of this policy reflect our goal to achieve the balance between support and adherence to the spirit of the CaRMS process in Canada.

2. Extension to Clerkship Initiative:

2.1. Eligibility

Students must meet the following criteria to be eligible to apply for this initiative:

- Be in good standing in the MD Program at time of application;
- Satisfactorily completed the electives diversification requirements at time of application with all appropriate paperwork submitted;
- Participated in both the first and second iteration of the CaRMS match in good faith;
- Are engaging in reflective dialogue with the career counselling services offered by the MD Program to re-evaluate their options for subsequent CaRMS applications;
- Have not previously participated in an Extension to Clerkship Initiative.

2.2. Application

Students will apply to the initiative by submitting a brief proposal.

Application must be made to the Assistant Dean, UGME within fourteen days following the second iteration CaRMS match date.

The proposal will include the following information:
- A brief statement of the student’s overall approach to career decision-making based on their prior match results and discussions related to career counselling. This description should also include an explanation of how the *Extension to Clerkship Initiative* is integral to their current career decision-making approach.

- A schedule outlining how the time will be spent during the *Extension to Clerkship Initiative* adhering to the rules outlined below. At the time of application, it is recognized that specific details (e.g. names and locations of elective supervisors, etc.) will not be available. The proposal should include an outline of the disciplines, locations, and duration of electives that will be completed as well as a brief rationale for each elective. Students should consult with any of their Student Advisor, Student Affairs Director, MD Program Career Counsellors, or mentors in developing this proposal.

- A signed contract indicating agreement to the terms of the *Extension to Clerkship Initiative*.

2.3. Selection

Applications to the *Extension to Clerkship Initiative* will be reviewed by a committee consisting of the:

- Assistant Dean, UGME;
- Clerkship & Electives Chair;
- Chair, Student Affairs; and,
- Program Manager, UGME.

The committee will provide a decision to each applicant by email no later than April 30th. A follow-up letter will be provided with a copy of the student’s application.

2.4. Rules of the *Extension to Clerkship Initiative*

a) Students must satisfactorily complete all of the elements of the MD Program, including, the Concept Integration and Review period; electives, including all associated administrative obligations; Clerkship rotations; etc.

b) Students must be registered at McMaster University to ensure appropriate malpractice coverage. All of the rules, regulations, policies, and practices of the University, the Faculty of Health Sciences, and the MD Program will continue to apply during the period of registration.

c) The *Extension to Clerkship Initiative* may run any time between the Monday following the completion of the Concept Integration & Review period until the Friday of the last full week in October, inclusive.

d) Students are covered under Level 3 fees until August 31st. They will pay tuition and supplementary fees if registered in the program in the new academic year, beginning September 1st. Tuition will be pro-rated on a monthly basis at the rate equivalent to third year tuition applied in the year following the year of entry into the *Extension to Clerkship Initiative*.

e) Students may write the MCCQE Part 1 in either the Spring or the Fall of the year in which they enter the *Extension to Clerkship Initiative*.

f) Students will defer graduation from the MD Program until November of the year they enter the *Extension to Clerkship Initiative*.
g) The Extension to Clerkship Initiative may consist of up to sixteen (16) weeks of additional clinical or research elective activity. Electives should be used to learn more about the desired discipline(s) selected for residency or to enhance competencies in a clinical field which was not sufficiently explored during the 3 year program.

i) Electives must be a minimum of 2 weeks in duration (no one week electives);

ii) Up to 50% of the elective time can be spent in one discipline;

iii) The remaining 50% or greater of the elective time must be spent in alternative disciplines (according to the domains of the Electives Diversification Policy);

iv) Failure to achieve the diversification limits will result in an “Unsatisfactory” assessment on the Extension to Clerkship Initiative;

v) Electives will be registered in the MD Program database in the same manner as they are in the remainder of the MD Program;

vi) Electives will be evaluated in the same manner as they are in the remainder of the MD Program; and

vii) The same policies pertaining to electives will apply in the Extension to Clerkship Initiative as they do in the remainder of the MD Program.

h) Students will continue to engage in a reflective process with respect to career decision-making with members of the MD Program’s career counselling services throughout the Extension to Clerkship Initiative.

i) Student Affairs will provide students in the Extension to Clerkship Initiative with a new Student Advisor for the duration of the Program.

2.5. Student Assessment

Students will be assessed on their performance during the elective using the same assessment forms and practices as is used in the remainder of the MD Program. Elective supervisors may assess student performance as “Satisfactory”, “Provisional Satisfactory”, “Unsatisfactory”, or “Incomplete” according to the definitions of student performance in the Faculty Policy and Procedure for the Evaluation of Undergraduate Medical Students (hereafter referred to as the “Evaluation Policy”).

Students who receive a “Provisional Satisfactory”, “Unsatisfactory”, or “Incomplete” performance assessment will be subject to the procedures outlined in the Evaluation Policy as summarized below:

- The Clerkship & Electives Chair will review the elective performance assessment with the elective supervisor and make a final determination of the appropriate performance assessment.

- “Incomplete” performance assessments will require the development of a plan that will have the elective satisfactorily completed before October 15th. Electives that remain “Incomplete” at that time will be converted to “Unsatisfactory”.

- Performance assessments that remain “Provisional Satisfactory” or “Unsatisfactory” will require that the elective be successfully remediated in its entirety. To facilitate remediation timeliness with respect to the Academic Progress Committee (APC) process, students may choose one of the following three options:
i) Propose a remediation program to the Electives Chair. The program must be in the same discipline as the provisional satisfactory or unsatisfactory elective and for the same duration. The Electives Chair may approve the proposed remediation elective or may refer the matter to the APC. The Electives Chair will have the opportunity to review the learner’s MD Program Student Evaluation File and to consult with the Program Manager/ Administrator and/or the Evaluation Chair in deciding the most appropriate course of action. The Electives Chair will consider the nature of the reasons for the unsuccessful assessment and the existence and nature of prior difficulties or remediation in making her/his decision. The proposed remediation program will form the basis for a Learning Assistance Contract as described in the Evaluation Policy, Section IV. The new elective supervisor will be the learning assistance tutor; or,

ii) Request to proceed immediately to APC. Based on the file review process outlined in (i) above, the Electives Chair will determine whether the student may continue in other electives while waiting for an APC meeting; or,

iii) Appeal the result of the elective evaluation to the Assistant Dean, UGME following the normal University appeals process.

- Successfully remediated electives will replace unsuccessful electives.
- Unsuccessfully remediated electives will be referred to the APC. Students with unsuccessfully remediated electives may not continue in the Extension to Clerkship Initiative unless sanctioned to do so by the APC. The APC will meet in the usual manner as described in the Evaluation Policy in Section IV, Paragraph 8. Options available to the APC are designed to discourage students from completing “desired” electives at a satisfactory level for inclusion on the transcript and “less desired” electives at a provisional satisfactory or unsatisfactory level. These options include:

  a) Preventing the student from graduating and remove the student from the Program; and/or,
  
  b) Requiring additional remediation as outlined in a new Learning Assistance Contract; and/or,
  
  c) Indicating on the Student Transcript any of the following:

    i) “Unsatisfactory” performance on the elective in question (Note: if this option is chosen, the APC will remove any electives that cause the student not to satisfy the diversification requirement);
    
    ii) “Unsatisfactory” performance on the entire Extension to Clerkship Initiative; and/or,
    
    iii) A notation indicating the reason for the unsuccessful remediation; and/or,
    
  d) Providing a letter to the student’s matched residency program, following the CaRMS match completion, describing any outstanding concerns with the student’s performance that may require continued monitoring and remediation in the residency program; and/or,
    
  e) Any other sanctions that the APC may administer to a student in the regular course of the MD Program.
2.6. Withdrawal from the Program

Students may choose to withdraw from the program. A letter officially stating the student’s intent to withdraw from the program, including the reasons for withdrawal and the progress to date should be submitted to the Assistant Dean, UGME as soon as possible. Any elective that has already started at the time of receipt of the letter requires an evaluation.

Any electives completed up until the date of withdrawal will be considered within the Extension to Clerkship Initiative for the purpose of applying the procedures outlined within this policy. At the time of withdrawal, if the student has not met the requirements of the Initiative, he/she will be subject to the sanctions outlined above, including sanctions applied by the APC.

Any electives that meet the requirements of the Initiative up until the date of withdrawal may be represented on the student transcript at the discretion of the APC.

3. Transcript:

The student transcript will include a separate section titled: “Extension to Clerkship”. Electives undertaken during the Extension to Clerkship Initiative will be noted in this section in the same manner as electives completed in the regular curriculum of the MD Program.

The Medical Student Performance Record (MSPR) Disclosure Form will include the following statement under the section “Explains any significant interruption or change in training”:

“Extension to Clerkship Initiative”
[Dates of Program]
“x weeks of additional electives”

(where x is the number of weeks of additional electives completed by the student that qualify for the Extension to Clerkship Initiative).

4. Appeals:

Students should appeal using the normal University appeals process.
BACHELOR OF HEALTH SCIENCES (HONOURS) PROGRAM

REVISION OF ADMISSION PROCEDURES AND REQUIREMENTS:

Global Health Specialization
Students registered in Health Science I who are interested in this specialization will apply during early March to early April via SOLAR by completing the Program Application for Current Level I Students. In addition, students must submit a 500 word statement of interest. Applicants may be asked to submit a statement of interest and may be interviewed. Instructions regarding content and process are posted in the Global Health Specialization folder on Learnlink. Enrolment is limited to approximately 20 to 30 students entering in Level II.

Child Health Specialization
Students registered in Health Sciences I who are interested in this specialization will apply during early March to early April via SOLAR by completing the Program Application for Current Level I Students. Applicants may be asked to submit a statement of interest and may be interviewed. Enrolment is limited to approximately 30 students entering in Level II.

Rationale:
Due to limited space and an increase in applications in both specializations applicants may be asked to submit a statement of interest and attend an interview to assist us with the selection process.

Continuation in the Program
Students must have a CA of 6.0 to continue in the program. If a CA of 5.5 to 5.9 is obtained, a student may remain in the program but will be placed on program probation for one reviewing period. A student may be on program probation only once.

If a CA of 3.5 to 5.4 is obtained, a student must transfer to another program for which he/she qualifies, or register in the B.H.Sc. (Honours) Program as an irregular student for one reviewing period. During that period a student cannot take B.H.Sc. (Honours) Program courses. At the end of that period a student may apply for readmission to the B.H.Sc. (Honours) Program.

If a CA of 3.0 to 3.4 is obtained, a student will be placed on academic probation. A student may continue in the program for one reviewing period as an irregular student but cannot take B.H.Sc. (Honours) Program courses. The purpose of this period is to prepare a student for a program outside the B.H.Sc. (Honours) Program. A student may be on academic probation only once.

If a CA of less than 3.0 is obtained, a student may not continue at the University.

Students who have a CA of 6.0 may continue in the program.

If a CA of 3.0 to 5.9 is obtained a student may remain in the program but will be placed on program probation. Students on program probation from a prior session who have a CA of 5.0 to 5.9 may continue in the program on program probation. Students on program probation from a prior session who have a CA of 3.5 to 4.9 may continue on program probation with the option of applying to transfer to another program. Students on program probation from a prior session who have a CA of 3.0 to 3.4 may not continue at the University. If a CA of less than 3.0 is obtained, a student may not continue at the University.

Rationale:
Adjust cumulative averages to enable students an opportunity to continue in the program if they are struggling academically. The change reflects current office procedures and result of session rules. The change will enable BHSc staff to assist and provide academic advising to students. Students may decide to transfer to another Faculty if they satisfy the admission requirements or remain in BHSc (Honours) on academic probation beyond the current one year period contingent on the CA rules noted above.
REVISION TO PROGRAM REQUIREMENTS:

**B.H.Sc. (HONOURS) – CHILD HEALTH SPECIALIZATION (2279)**

**Level IV: 30 units**
- 6 units HTH SCI 4CH6
- 6-9 units HTH SCI 4A09 or 4B06
- 3 units HTH SCI 4X03
- 3 units HTH SCI 4CH3
- 9 units 12-15 Electives

**Rationale:** Provide Child Health Specialization students with the opportunity to complete either 6 or 9 unit project/thesis course which is consistent with core BHSc curriculum. Remove 4CH3 as a required course and offer as an elective which will provide these students with more elective courses.

**B.H.Sc. (HONOURS) – GLOBAL HEALTH SPECIALIZATION (2278)**

**Level II: 30 units**
- 3 units HTH SCI 2A03
- 3 units HTH SCI 2E03*
- 3 units HTH SCI 2G03
- 3 units HTH SCI 2J03
- 3 units HTH SCI 2K03
- 6 units HTH SCI 2Q06
- 3 units HTH SCI 2DS3
- 9 units 6 units Electives

**Level III: 30 units**
- 15 units HTH SCI 3A15
- 3 units HTH SCI 3Q03
- 3 units HTH SCI 3G03
- 3 units HTH SCI 3GG3
- 3 units HTH SCI 3H03
- 6 units 3 units Electives

*If a required course cannot be completed due to HTH SCI 3A15; the requirement(s) must be completed in Level IV

**Level IV: 30 units**
- 3 units from HTH SCI 4D03 or 4YY3 (4D03 topic on Health Policy)
- 3 units from HTH SCI 4D03, 4LD3, 4W03 or 4ZZ3 (4D03 or 4W03 topic on Global Governance)
- 3 units HTH SCI 4X03
- 6-9 units from HTH SCI 4A09 or 4B06 (Thesis/Senior Project topic must receive permission from the B.H.Sc. Global Health Specialization Coordinator Assistant Dean)
- 12-15 units Electives

**Rationale:** Add HTH SCI 2J03 (Health, Attitude and Behaviour) and HTH SCI 3G03 (Critical Appraisal of Medical Literature) as required Global Health Specialization courses given the importance of the course content which ultimately reduces the elective units in both levels.

Thesis/Senior Project topic must be approved by Assistant Dean, not Global Health Specialization Coordinator.

**B.H.Sc. (HONOURS) – BIOMEDICAL SCIENCES SPECIALIZATION (2277)**

**Level III: 30 units**
3 units HTH SCI 3E03
3 units HTH SCI 3G03
3 units HTH SCI 3V03
3 units HTH SCI 3W03 (BIOCHEM 3EE3 replaces HTH SCI 3W03 in 2013-14)
3-6 units from BIOCHEM 3A03, 3P03, or HTH SCI 3R06 (see Program Note 3 above)
3 units BIOCHEM 3D03
3 units CHEM 20B3
6-9 units Electives

Rationale: BIOCHEM 3EE3 was introduced in 2013/2014 in place of HTH SCI 3W03. HTH SCI 3W03 has been permanently replaced with BIOCHEM 3EE3 based on resources and curriculum changes.

NEW COURSES:

HTH SCI 1DT3 DISCOVER IMMUNOLOGY TODAY
This course is intended to inspire curiosity in questions generated by concepts in immunology that drive current research directions. Students will explore a spectrum of topics in immunology with research faculty. Two hours; one term.
Prerequisite(s): Registration in Level 1 B.H.Sc. (Honours) or Level 1 Science or Level 1 Arts & Science.
Course Capacity: 120 Categories: HSC (63%), SCI (30%), AS1 (7%)

Rationale: This course was developed in 2013/2014 (first offered in Winter 2014) to accommodate the increase in Level 1 student enrolment and to introduce first year students to immunology earlier in their academic career.

HTH SCI 4DM3 DEMYSTIFYING MEDICINE
Students will work in small cross-disciplinary groups on selected topics presented at the McMaster Demystifying Medicine Seminar Series. Students will acquire a broad overview of various clinical topics, patient needs and associated biomedical research. Students will translate the acquired knowledge to patients and public, and develop educational material.
Three hours; one term
Prerequisite(s): Registration in Level IV B.H.Sc. (Honours) or Level IV B.H.Sc. (Honours) Specializations or Level IV Arts & Science or Level IV Science.
HTH SCI 4DM3 may be repeated to a total of 6 units.
Course Capacity: 80 students (two sections) Categories: HSC (40%), SC4 (40%), AS4 (20%)

Rationale: This course was developed in 2013/2014 (first offered in Winter 2014) to provide students with a broad overview of clinical topics with practical application.

COURSE DELETIONS:

HTH SCI 3P06 Therapeutic Drugs: Molecules in the Marketplace
HTH SCI 4AA3 Group Dynamics and Processes
HTH SCI 4T03 Current Research Initiatives

Rationale: Courses not offered for the past three years due to minimal student interest. The course deletions will not have an impact on other students given that these courses were available to B.H.Sc. (Honours) students and have since been substituted with other new HSC elective courses.

CHANGES TO EXISTING COURSES:

HTH SCI 2Q06 FUNDAMENTALS OF GLOBAL HEALTH I
This course will provide various frameworks to contextualize and understand global health issues, look at the emergence of patient care in a historical context.

Three hours; two terms

Prerequisite(s): Registration in Level II of the B.H.Sc. (Honours) Global Health Specialization

Rationale: Change in course description to reflect current course content.

HTH SCI 4KK3  HUMAN PATHOPHYSIOLOGY II
This course is designed to take a more in-depth look at the principles underlying the pathophysiology of the various body systems. This course is designed to provide an in-depth look at the clinical, medical and pathophysiological aspects of infectious diseases. These fundamentals include taxonomy, diagnostic methodology, epidemiology and virulence factors of pathogens and pathophysiological events and responses in different body systems in the human host as a result of infections.

One lecture, one tutorial, one lab; one term

Prerequisite(s): HTH SCI 4K03

Rationale: Change in course description to reflect current course content.

HTH SCI 4CH6  CHS INQUIRY ADVANCED
The course will be a continuation of principles and core elements of knowledge, research, and application experienced in Level III. Students will be expected to integrate and apply their knowledge and critical thinking about child health at a more advanced level.

Four hours; two terms

Prerequisite(s): Registration in Level IV of the B.H.Sc. (Honours) Child Health Specialization

First offered in 2014-15.

Rationale: Course will be offered in 2014/2015.

HTH SCI 4M03  ADVANCED CONCEPTS IN HEALTH PSYCHOLOGY
This course will explore the role of psychological factors in health and disease. Topics include stress, coping, health promoting/compromising behaviours, patient-physician communication, adherence, pain, heart disease and cancer.

Three hours; one term

Prerequisite(s): HTH SCI 2J03 and registration in Level III or above of the BHSc (Honours) Program, or registration in Level III or above of the BHSc (Honours) Specializations.

Offered on alternate years.

Rationale: Course prerequisite change to open registration to students registered in the BHSc Specializations.

HTH SCI 4YY3  HEALTH FORUM PRACTICUM
Students will come to understand the types of decisions that can have an impact on health, the roles of different organizations involved in making these decisions and the types of influences on these decisions. To accomplish this, students will organize, prepare for, and participate in a variety of simulations, including: hospital, Local Health Integration Network and WHO board meetings, as well as provincial and federal cabinet meetings.

Three hours; one term

Prerequisite(s): Registration in Level III or above and permission of instructor

Rationale: Course requisite change to open registration to BHSc students without seeking instructor permission.
BACHELOR OF HEALTH SCIENCES MIDWIFERY PROGRAM

CHANGES TO PROGRAM REQUIREMENTS

Prior/Current College Diploma Studies
Applicants with prior or current college diploma studies from accredited Canadian colleges must have successfully completed the following courses under the Ontario Secondary School curriculum with a minimum grade of 75% in each course:

1. Grade 12 English 12 U;
2. One of Grade 12 Biology 12 U or Chemistry 12 U (both are recommended);
3. One Grade 12 U or M course in a social science (ie Geography, History, Law, Psychology, Sociology); under the Ontario Secondary School curriculum, with a minimum grade of 75% in each course. In addition, the applicant’s overall average from the ten best, using most recent College coursework, including the three required subjects, must be a minimum of 75%.

In addition, the applicant’s overall average from their ten most recent College coursework and the three required subjects, must be a minimum of 75%. (refer to Midwifery Education Program website for further information)

Prior/Current University Students
Applicants with prior or current university studies, at the time of application must have Grade 12 U or M courses from high school or equivalent university courses in the three of the required subjects areas noted above. Students Applicants must have 75% in each of the three required subjects. In addition, the applicant's overall average from their most recent undergraduate coursework and the three required courses ten best most recent coursework must be a minimum of 75%. (refer to Midwifery Education Program website for further information)

COURSE DELETIONS:

HTH SCI 2BB3 HEALTH SCIENCE AND SOCIETY

This course is concerned with the biological, environmental, behavioural, social and economic factors that determine health needs of the population. The major components to the course are: measuring health status, the determinants of health, and the provision of health care services. Offered by Web CT/Print Management Based. The Program reserves the right to cancel the course due to low enrolment.

Prerequisite(s): Registration in Level II of the Midwifery Education program

Rationale: Not offered since 2008

BACHELOR OF SCIENCE NURSING PROGRAM

REVISION TO ADMISSION REQUIREMENTS

2. Admission/Transfer from Post-Secondary Institutions
   B. From Colleges of Applied Arts and Technology (page 14)
      Nursing
      1. Completion of an Ontario one-year certificate in pre-health sciences as full-time studies.
      2. Applicants who have completed previous university degree studies will NOT be considered based on a previous or subsequent pre-Health Certification from college.
      3. A minimum cumulative GPA equivalent to the required high school admission average of 3.6 (90%).
4. Completion of at least two semesters in length and includes one full (two semesters) or two half courses in each of Biology, Chemistry, English and Mathematics. Applications will not be considered from applicants who possess credit only in the required subjects.
5. Enrolment is limited and selection will be based on academic qualification and the information provided on the mandatory supplementary application.
6. Transfer credit will not be granted for any pre-health science courses.

Admission requirements
I. Basic (A) Stream McMaster Site
Applicants From Pre-Health Sciences Program
Applicants who have successfully completed a pre-health sciences program at an Ontario College of Applied Arts and Technology (CAAT) will be considered for admission to Level I of the B.Sc.N. program at all sites. Applicants who are currently registered in a pre-health sciences program may be given a conditional offer of admission based upon interim grades. The offer of admission will be withdrawn if the applicant does not complete the full program or does not meet the required admission cumulative average.

To be considered applicants must:
1. complete at least two semesters, including at least one full (two semesters) or two half courses in each of Biology, Chemistry, Mathematics and English. Applications will not be considered from applicants who possess one credit only in the required subjects. Please contact the Admission Coordinator for list of approved programs;
2. achieve a cumulative average in the pre-health sciences program that meets the minimum cut-off average of Ontario secondary school applicants to the program of 3.6 (90%);
3. apply online to OUAC at http://www.ouac.on.ca/ using Form 105D no later than February 1;
4. submit all secondary and post-secondary transcripts to the Office of the Registrar at McMaster University by February 1;
5. complete the supplementary application on-line at http://www.fhs.mcmaster.ca/nursing by February 1.
Note: Transfer credit will not be granted for any pre-health science courses.

REVISIONS TO CURRICULUM FOR THE B.SC.N. PROGRAM

Rationale: The closure of the Diploma R.N. (B) Stream was approved in the 2007-2008 submission and is now being removed from the calendar. The last intake was in 2008. There are no students remaining in this stream.

DIPLOMA R.N. (B) STREAM (6391)
Last intake was in September 2008
The program of study for Diploma Registered Nurses is integrated with existing course offerings. The practice of nursing in diverse clinical settings will occur in all academic terms. The curriculum is designed to build on the existing knowledge and skills of the students, to prevent duplication of learning experiences and to prepare the students to function in an expanded role in community and institutional settings.
The curriculum is planned for five academic terms if taken on a full-time basis. If taken on a part-time basis, students are normally allowed six years after the first Nursing course to complete the program requirements.
Electives
Twenty-four units of electives are to be selected from disciplines of the student’s choice, of which a minimum of 12 units are to be chosen from courses designated as Level II or above. For some courses, the amount of duplication of required content will preclude their being used for elective credit in the B.Sc.N. Program.
Requirements
Advanced Credit: 42 units
Level III: 45 units
(Units graded: 45)
**Terms 1 and 2: 33 units**
- 21 units HTH SCI 1CC7, 2C07, 3B03 (or 2RR3), 3C04
- 12 units NURSING 3MM3, 3N03, 3T03, 3VY3
- 1 course WHMIS 1A00 (or NURSING 1A00)

**Spring Term: 6 units**
- 6 units Electives

**Summer Term: 6 units**
- 6 units Electives

**Level IV: 34 units**
(Units graded: 22; Units Pass/Fail: 12)
**Terms 1 and 2: 34 units**
- 2 units HTH SCI 4L02
- 20 units NURSING 4P04, 4Q04, 4S06, 4T06
- 12 units Electives

**TOTAL UNITS: 121**

**Rationale:** The Post Diploma R.P.N. (E) STREAM is still offered, but there are no students in the program who entered in 2007. The 2007 information is no longer necessary to be in the calendar

**POST DIPLOMA R.P.N. (E) STREAM**

**Requirements for Students who Entered in 2007 or Prior**

**Advanced Credit: 30 units**

**Level II: 31 units**
(Units graded: 31; Units Pass/Fail: 0)

- 44 units HTH SCI 1CC7, 2C07
- 11 units NURSING 2A04, 2AA4, 3LL3
- 6 units Electives
- 1 course WHMIS 1A00 (or NURSING 1A00)

**Level III: 32 units**
(Units graded: 28; Units Pass/Fail: 4)

- 7 units HTH SCI 3B03 (or 2RR3), 3C04
- 13 units NURSING 2Q03 (or 3QQ3), 3S03, 3T03, 3X04
- 12 units Electives

**Level IV: 30 units**
(Units graded: 16; Units Pass/Fail: 14)

- 2 units HTH SCI 4L02
- 22 units NURSING 4J07, 4K07, 4P04, 4Q04
- 6 units Elective

**Total Units: 123**
**Rationale:** The BASIC ACCELERATED (F) STREAM is still offered, but there are no students in the program who entered in 2007. The 2007 information is no longer necessary to be in the calendar.

**BASIC-ACCELERATED (F) STREAM (6382)**

**Requirements for Students who Entered in 2007**

**Advanced Credit:** 54 units

**Units Taken at McMaster:** 69

(Uits graded: 41)

**Term 1:** 15 units

- 6 units HTH SCI 2H03, 3B03 (or 2RR3)
- 9 units NURSING 2I06, 3LL3
- 1 course WHMIS 1A00 (or NURSING 1A00)

**Term 2:** 15 units

- 3 units HTH SCI 2H13
- 12 units NURSING 2J04, 2Q03 (or 3QQ3), 3S03, 3U02

**Spring/Summer Term:** 11 units

- 11 units NURSING 3T03, 3X04, 3Y04

**Term 4:** 15 units

- 4 units HTH SCI 3C04
- 11 units NURSING 4J07, 4P04

**Term 5:** 13 units

- 2 units HTH SCI 4L02
- 11 units NURSING 4K07, 4Q04

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**REVISIONS TO ACADEMIC REGULATIONS**

**B.Sc.N. PROGRAM ACADEMIC REGULATIONS**

**BASIC (A); POST DIPLOMA (B), (E); AND BASIC-ACCELERATED (F) STREAMS**

**B.Sc.N. Program Academic Regulations**

**BASIC (A); POST DIPLOMA (B), (E); AND BASIC-ACCELERATED (F) STREAMS**

**9. Travel within the Program:** Students are responsible for arranging their own travel to and from learning settings external to the University and for covering any costs incurred. All students who enrol in the B.Sc.N. program are expected to travel to any learning setting in Hamilton and the surrounding area, including but not limited to Halton, Peel, Brant, Haldimand-Norfolk, Niagara and Wellington regions (McMaster and Mohawk sites); and Kitchener-Waterloo and surrounding area, including but not limited to Wellington, Brant and Halton regions (Conestoga site).

**Rationale:** To clarify that students may be required to travel to a clinical setting outside of their personal expected region.

**NEW COURSES**

**COLLAB 2P03**  **EPIDEMIOLOGY IN PUBLIC HEALTH**
This course is designed to provide an introduction to the applications of epidemiology in public health. Fundamental methods will be introduced so that the work of public health professionals can fully be appreciated.

Two hours (lecture), one hour (tutorial); one term

**Prerequisite:** Registration in B.Sc.N. Basic (A) or Post Diploma R.P.N. (E) Streams (Conestoga College site)

**Anti-requisite:** none

**COLLAB 2R03 EPIDEMIOLOGICAL METHODS**

This course is designed to provide an introduction to the epidemiological methods used to study health and disease in populations. Fundamental methods for the measurement of population health and disease and study designs will be presented.

Two hours (lecture), one hour (tutorial); one term

**Prerequisite:** Registration in B.Sc.N. Basic (A) or Post Diploma R.P.N. (E) Streams (Conestoga College site)

**Anti-requisite:** none

**COLLAB 2T03 AGING IN PLACE**

This course will explore and discuss the research, evidence, and trends related to predictors of "Aging in place", which acknowledges that older adults wish to live in their own communities for as long as possible and that home and community services will support this aim while being cost effective. Throughout the course, knowledge related to theory and experience will be applied to examples of those who are part of this population or will become part in the near future.

Three hours; one term

**Prerequisite:** Registration in B.Sc.N. Basic (A) Post Diploma R.P.N. (E) Streams (Conestoga College site), Level 2 or above; and permission of instructor

**Anti-requisite:** none

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**BACHELOR OF HEALTH SCIENCES PHYSICIAN ASSISTANT PROGRAM**

No Changes.

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**UNDERGRADUATE MEDICAL PROGRAM**

**EXTENSION TO CLERKSHIP INITIATIVE**

Provide additional training opportunities for students who were unsuccessful during the CaRMS matching process.

Policy on the Extension of Clerkship Initiative Following an Unsuccessful CaRMS Match

1. **Background and Principles:**

During the third and final year of training in the MD Program, most students will elect to enter the process for securing a residency position in a Canadian residency program. Students enter the residency matching process through the Canadian Residency Matching System (CaRMS). Occasionally, students will participate in the CaRMS process, in good faith, and remain unmatched to a residency program. Students will have successfully completed the requirements of their MD Degree and therefore are not eligible to continue training in the
university. This limits their opportunities to engage in additional electives that may improve their chances at matching in subsequent CaRMS application cycles.

The goal of this policy is to provide additional training opportunities for students who were unsuccessful during the CaRMS matching process. This program should be seen as a less desirable “back up” to the normal CaRMS process to discourage students from potentially taking multiple attempts to match to highly competitive specialties while supporting students who have made reasonable attempts to engage in the matching process in good faith. The principles applied in the development of this policy reflect our goal to achieve the balance between support and adherence to the spirit of the CaRMS process in Canada.

2. Extension to Clerkship Initiative:

2.1. Eligibility

Students must meet the following criteria to be eligible to apply for this initiative:

- Be in good standing in the MD Program at time of application;
- Satisfactorily completed the electives diversification requirements at time of application with all appropriate paperwork submitted;
- Participated in both the first and second iteration of the CaRMS match in good faith;
- Are engaging in reflective dialogue with the career counselling services offered by the MD Program to re-evaluate their options for subsequent CaRMS applications
- Have not previously participated in an Extension to Clerkship Initiative

2.2. Application

Students will apply to the initiative by submitting a brief proposal.

Application must be made to the Assistant Dean, UGME within fourteen days following the second iteration CaRMS match date.

The proposal will include the following information:

- A brief statement of the student’s overall approach to career decision-making based on their prior match results and discussions related to career counselling. This description should also include an explanation of how the Extension to Clerkship Initiative is integral to their current career decision-making approach.
- A schedule outlining how the time will be spent during the Extension to Clerkship Initiative adhering to the rules outlined below. At the time of application, it is recognized that specific details (e.g. names and locations of elective supervisors, etc.) will not be available. The proposal should include an outline of the disciplines, locations, and duration of electives that will be completed as well as a brief rationale for each elective. Students should consult with any of their Student Advisor, Student Affairs Director, MD Program Career Counsellors, or mentors in developing this proposal.
- A signed contract indicating agreement to the terms of the Extension to Clerkship Initiative.

2.3. Selection

Applications to the Extension to Clerkship Initiative will be reviewed by a committee consisting of:

- Assistant Dean, UGME;
- Clerkship & Electives Chair;
The committee will provide a decision to each applicant by email no later than April 30th. A follow-up letter will be provided with a copy of the student’s application.

2.4. Rules of the Extension to Clerkship Initiative

j) Students must satisfactorily complete all of the elements of the MD Program, including, the Concept Integration and Review period; electives, including all associated administrative obligations; Clerkship rotations; etc.

k) Students must be registered at McMaster University to ensure appropriate malpractice coverage. All of the rules, regulations, policies, and practices of the University, the Faculty of Health Sciences, and the MD Program will continue to apply during the period of registration.

l) The Extension to Clerkship Initiative may run any time between the Monday following the completion of the Concept Integration & Review period until the Friday of the last full week in October, inclusive.

m) Students are covered under Level 3 fees until August 31st. They will pay tuition and supplementary fees if registered in the program in the new academic year, beginning September 1st. Tuition will be pro-rated on a monthly basis at the rate equivalent to third year tuition applied in the year following the year of entry into the Extension to Clerkship Initiative.

n) Students may write the MCCQE Part 1 in either the Spring or the Fall of the year in which they enter the Extension to Clerkship Initiative.

o) Students will defer graduation from the MD Program until November of the year they enter the Extension to Clerkship Initiative.

p) The Extension to Clerkship Initiative may consist of up to sixteen (16) weeks of additional clinical or research elective activity. Electives should be used to learn more about the desired discipline(s) selected for residency or to enhance competencies in a clinical field which was not sufficiently explored during the 3 year program.

i) Electives must be a minimum of 2 weeks in duration (no one week electives);

ii) Up to 50% of the elective time can be spent in one discipline;

iii) The remaining 50% or greater of the elective time must be spent in alternative disciplines (according to the domains of the Electives Diversification Policy);

iv) Failure to achieve the diversification limits will result in an “Unsatisfactory” assessment on the Extension to Clerkship Initiative;

v) Electives will be registered in the MD Program database in the same manner as they are in the remainder of the MD Program;

vi) Electives will be evaluated in the same manner as they are in the remainder of the MD Program; and

vii) The same policies pertaining to electives will apply in the Extension to Clerkship Initiative as they do in the remainder of the MD Program.

q) Students will continue to engage in a reflective process with respect to career decision-making with members of the MD Program’s career counselling services throughout the Extension to Clerkship Initiative.

r) Student Affairs will provide students in the Extension to Clerkship Initiative with a new Student Advisor for the duration of the Program.
2.5. Student Assessment

Students will be assessed on their performance during the elective using the same assessment forms and practices as is used in the remainder of the MD Program. Elective supervisors may assess student performance as “Satisfactory”, “Provisional Satisfactory”, “Unsatisfactory”, or “Incomplete” according to the definitions of student performance in the *Faculty Policy and Procedure for the Evaluation of Undergraduate Medical Students* (hereafter referred to as the “Evaluation Policy”).

Students who receive a “Provisional Satisfactory”, “Unsatisfactory”, or “Incomplete” performance assessment will be subject to the procedures outlined in the *Evaluation Policy* as summarized below:

- The Clerkship & Electives Chair will review the elective performance assessment with the elective supervisor and make a final determination of the appropriate performance assessment.
- “Incomplete” performance assessments will require the development of a plan that will have the elective satisfactorily completed before October 15th. Electives that remain “Incomplete” at that time will be converted to “Unsatisfactory”.
- Performance assessments that remain “Provisional Satisfactory” or “Unsatisfactory” will require that the elective be successfully remediated in its entirety. To facilitate remediation timeliness with respect to the Academic Progress Committee (APC) process, students may choose one of the following three options:
  
i) Propose a remediation program to the Electives Chair. The program must be in the same discipline as the provisional satisfactory or unsatisfactory elective and for the same duration. The Electives Chair may approve the proposed remediation elective or may refer the matter to the APC. The Electives Chair will have the opportunity to review the learner’s MD Program Student Evaluation File and to consult with the Program Manager/Administrator and/or the Evaluation Chair in deciding the most appropriate course of action. The Electives Chair will consider the nature of the reasons for the unsuccessful assessment and the existence and nature of prior difficulties or remediation in making her/his decision. The proposed remediation program will form the basis for a Learning Assistance Contract as described in the *Evaluation Policy*, Section IV. The new elective supervisor will be the learning assistance tutor; or,
  
ii) Request to proceed immediately to APC. Based on the file review process outlined in (i) above, the Electives Chair will determine whether the student may continue in other electives while waiting for an APC meeting; or,
  
iii) Appeal the result of the elective evaluation to the Assistant Dean, UGME following the normal University appeals process.

- Successfully remediated electives will replace unsuccessful electives.
- Unsuccessfully remediated electives will be referred to the APC. Students with unsuccessfully remediated electives may not continue in the *Extension to Clerkship Initiative* unless sanctioned to do so by the APC. The APC will meet in the usual manner as described in the *Evaluation Policy* in Section IV, Paragraph 8. Options available to the APC are designed to discourage students from completing “desired” electives at a satisfactory level for inclusion on the transcript and “less desired” electives at a provisional satisfactory or unsatisfactory level. These options include:
  
iv) Preventing the student from graduating and remove the student from the Program; and/or,

v) Requiring additional remediation as outlined in a new Learning Assistance Contract; and/or,

vi) Indicating on the Student Transcript any of the following:
i) “Unsatisfactory” performance on the elective in question (Note: if this option is chosen, the APC will remove any electives that cause the student not to satisfy the diversification requirement);

ii) “Unsatisfactory” performance on the entire Extension to Clerkship Initiative; and/or,

iii) A notation indicating the reason for the unsuccessful remediation; and/or,

i) Providing a letter to the student’s matched residency program, following the CaRMS match completion, describing any outstanding concerns with the student’s performance that may require continued monitoring and remediation in the residency program; and/or,

j) Any other sanctions that the APC may administer to a student in the regular course of the MD Program.

2.6. Withdrawal from the Program

Students may choose to withdraw from the program. A letter officially stating the student’s intent to withdraw from the program, including the reasons for withdrawal and the progress to date should be submitted to the Assistant Dean, UGME as soon as possible. Any elective that has already started at the time of receipt of the letter requires an evaluation.

Any electives completed up until the date of withdrawal will be considered within the Extension to Clerkship Initiative for the purpose of applying the procedures outlined within this policy. At the time of withdrawal, if the student has not met the requirements of the Initiative, he/she will be subject to the sanctions outlined above, including sanctions applied by the APC.

Any electives that meet the requirements of the Initiative up until the date of withdrawal may be represented on the student transcript at the discretion of the APC.

3. Transcript:

The student transcript will include a separate section titled: “Extension to Clerkship”. Electives undertaken during the Extension to Clerkship Initiative will be noted in this section in the same manner as electives completed in the regular curriculum of the MD Program.

The Medical Student Performance Record (MSPR) Disclosure Form will include the following statement under the section “Explains any significant interruption or change in training”:

“Extension to Clerkship Initiative”
[Dates of Program]
“x weeks of additional electives”

(where x is the number of weeks of additional electives completed by the student that qualify for the Extension to Clerkship Initiative).

4. Appeals:

Students should appeal using the normal University appeals process.