

## Memorandum

**To:** Members of the Committee on Academic Policy and Programs  
**From:** Carolyn Tuohy  
**Date:** April 9, 2002

### **Item Identification**

University of Toronto at Scarborough: Proposal for the establishment of a Specialist Program in Paramedicine – joint program with Centennial College.

### **Sponsor**

Carolyn Tuohy, Vice-President, Policy Development and Associate Provost

### **Jurisdictional Information**

The Committee approves major program and curriculum changes.

### **Highlights**

The proposed Specialist Program, which must be taken within the four-year Honours degree, will provide the first B.Sc. in Paramedicine in Canada. The program will be offered in collaboration with Centennial College, which currently offers a three-year diploma in the field. Students who successfully complete the program will qualify for both the degree and the diploma, and will be eligible to write Ministry of Health examinations to qualify to practice as a paramedic.

Applicants will apply to the limited enrolment joint program through UTSC, and must satisfy the admission requirements of both UTSC and Centennial. Those who qualify for admission will be registered as UTSC students. The program will be governed by a protocol (draft attached) similar to that which was developed for joint programs in Journalism and in New Media.

Admission will be direct from high school, but places will also be available for selected students who seek to transfer into the program after one year of university study. The specialist program requires the completion of 13.5 full-course equivalents, including 7.0 F.C.E. taught by Centennial faculty.

### **Action Sought**

Approval of the following motion:

THAT the proposal for the establishment of a new Specialist Program in Paramedicine, offered jointly with Centennial College, as described in the submission from the University of Toronto at Scarborough, dated April 10, 2002, be recommended to the Academic Board for approval, effective September 2003.



## University of Toronto at Scarborough

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Council of the University of Toronto at Scarborough

1265 Military Trail, Scarborough  
Ontario, Canada M1C 1A4

April 10, 2002

### Memorandum

To: Professor Ruth Gallop  
Chair, Academic Policy and Programs Committee of the Academic Board

From: Professor John Kennedy  
Chair, University of Toronto at Scarborough Divisional Council

### Re: Joint Program in Paramedicine

The proposal to introduce a Specialist Program in Paramedicine to be offered in collaboration with Centennial College was approved by the Academic Committee at its meeting of April 9, 2002. On behalf of the University of Toronto at Scarborough Divisional Council, the proposal was also ratified on April 10, 2002 by its Executive Committee. It is now presented to the Academic Policy and Programs Committee of the Academic Board for approval.

A handwritten signature in cursive script that reads "John M. Kennedy".

Professor John Kennedy  
Chair, University of Toronto at Scarborough Divisional Council

cc: Professor C. Tuohy

## **PROPOSAL FOR A JOINT PROGRAM IN PARAMEDICINE BETWEEN UNIVERSITY OF TORONTO AT SCARBOROUGH AND CENTENNIAL COLLEGE**

The University of Toronto at Scarborough is seeking early approval of a **new Specialist Program in Paramedicine** to take effect in 2003-04. The program will be offered in collaboration with Centennial College, which currently offers a two-year diploma in the field. The current annual intake to the Centennial diploma program is 64 students (about one-third of whom have university degrees), selected from an applicant pool of over 1000. The proposed Specialist Program, which must be taken within the four-year Honours degree, will provide the first B.Sc. in Paramedicine in Canada. Students who successfully complete the program will qualify for both the degree and the diploma, and will be eligible to write Ministry of Health examinations to qualify to practice as a paramedic.

Applicants will apply to the limited enrolment joint program through UTSC, and must satisfy the admission requirements of both UTSC and Centennial. Those who qualify for admission will be registered as UTSC students. The program will be governed by a protocol similar to that which was developed for joint programs in Journalism and in New Media.

Admission will be direct from high school, but places will also be available for selected students who seek to transfer into the program after one year of university study. The specialist program requires the completion of 13.5 full-course equivalents, including 7.0 F.C.E. taught by Centennial. Centennial courses will carry the UTSC designation PMD, and will normally be taken in the second and third years of study. During the development of the joint program proposal, Centennial undertook a revision of its curriculum in order to ensure that it will mesh successfully with the coursework taken at UTSC. Students admitted to the second year of the program in the fall of 2003 will take Centennial courses at the Warden Woods Campus. However, as of 2004, Centennial's School of Applied Arts & Health Sciences will be relocated to their new facility on the UTSC campus, and all courses will be taught here.

The introduction of the joint program has been discussed with the Faculty of Medicine, which has indicated support. Discussion is continuing with a view to facilitating access by students to the Advanced Care Practitioner Certificate currently offered by Emergency Medicine at Sunnybrook and Womens' College Health Sciences Centre with the Flight Academy.

## **Program Description: SPECIALIST JOINT PROGRAMME IN PARAMEDICINE**

This programme may be taken in fulfilment of the requirements of a four-year (20-course) Honours B.Sc. Degree. Students who complete the requirements of the program will also qualify for the Emergency Medical Care Attendant diploma from Centennial College. Students who have completed the requirements for Centennial's diploma, are eligible to take the Ministry of Health exams required to qualify as a Paramedic. (Typically, these could be taken in the June following the end of three years of full-time study).

### *Program Admission Requirements*

Limited enrolment. Applicants must fill out a collaborative programme application form. Applicants must also pass Centennial's screening process ( which includes attendance at an information session, possession of a class F driver's licence, medical certificate, completion of a CPR course in the past two years, completion of a standard first aid course: see Centennial's website for complete details: <http://www.centennialcollege.ca/programs/program.html>). Applicants may arrange to complete these requirements during the first year of their studies at the University of Toronto at Scarborough.

### *Program Requirements*

Students must complete the following courses (the equivalent of twenty-seven semester-courses):

PMDB22H	Prehospital Care Theory and Lab I
PMDB25H	Therapeutic Approaches to Behavior in Crisis
PMDB41H	Professional Issues, Research and Leadership
PMDB30H	Alterations of Human Body Function I
PMDB36H	Pharmacology
PMDB32B	Prehospital Care Theory and Lab II
PMDC40H	Alterations in Human Body Function II
PMDC43H	Medical Directed Therapeutics
PMDC42A	Advanced Prehospital Care Theory and Lab I
PMDC54B	Advanced Prehospital Care Theory and Lab II
PMDC56H	Primary Care Practice Integration and Decision Making

BGYA01Y	Introduction to Biology
BGYB10H	Cell Biology
BGYB33H	Human Biology I: Development and Anatomy
BGYC17H	Microbiology I
BGYC33H	Human Biology II: Physiology
PSYA01Y	Introduction to Psychology
PSYB10H	Introduction to Social Psychology
PSYB32H	Abnormal Psychology
POLC55H	Canadian Health Policy

**AND** any 2 semester-courses from the following:

ANTB56H	Health and the Urban Environment
ANTC01H	The Anthropology of the Body
ANTC61H	Medical Anthropology: Illness and Healing in Cultural Perspective
ANTC62H	Medical Anthropology: Biological and Demographic Perspectives
BGYC50H	Foundations of Epidemiology
CHMA02Y	Introductory Chemistry

HLTA01H	Plagues and Peoples
HLTD01H	Health Research Seminar
IDSB04H	International Health Policy
PSYB45H	Behavior Modifications
PSYC14H	Cross-cultural Social Psychology

Students should pay careful attention to prerequisites, and should check the program website for a suggested course sequence which will allow for timely program completion.

### **Academic Rationale**

This collaborative program will provide the first Bachelor of Science with a Specialist in Paramedicine in Canada. It will provide an extremely attractive option for students who wish to have the professional certification in paramedicine at the primary care level, combined this with an Honours BSc. Discussion between the two institutions involved (UTSC and Centennial College), in conjunction with the Faculty of Medicine and the Flight Academy as well, has provided the incentive to streamline the curriculum in the Primary Care and Advanced Care certificates, to eliminate overlap and increase efficiency for the student. It is anticipated that we will be able to add an option to this program to allow students to proceed expeditiously to the Advanced Care Practitioner Certificate (offered by Faculty of Medicine/the Flight Academy). This will follow in a subsequent curriculum cycle, and is in development. The program uses existing practicum spaces available to Centennial. This should prove a new and distinctive “niche” program to students with interests in human biology and human health.

## Calendar Descriptions of Courses to be Taught by Centennial College

### PMDB22H: Prehospital Care Theory and Lab I

Allows students to develop the critical thinking skills and problem solving approaches needed to provide quality prehospital emergency care. The course emphasizes the components of primary and second assessment, and the implementation of patient care based on interpretation of assessment findings. Discusses principles of physical and psycho-social development, and how these apply to the role of the paramedic. Students develop skills related to airway, breathing, bleeding and fracture management. Efficient body mechanics for safe lifting is a mandatory component of the course. This course is taught on the Centennial campus.

Prerequisites: BGYA01Y; PSYA01Y

Corequisites: PMDB25H, PMDB41H, BGYB33H

Enrollment is restricted to students in the Joint Program in Paramedicine.

### PMDB25H: Therapeutic Approaches to Behavior in Crisis

Focuses on the utilization of effective communication tools when dealing with persons facing health crises. The helping relationship will be explored in relation to individuals in crisis along the health-illness continuum. Students will learn about coping mechanisms utilized by patients and families as a result of stress, and the effects of death and dying on the individual and significant others. Students will have the opportunity to visit community services and do class presentations as to how these services relate to prehospital care practices and effects on health care. This interactive course will provide the opportunity for the student to role-play scenarios requiring good therapeutic communication skills. This course is taught on the Centennial campus.

Prerequisites: BGYA01Y; PSYA01Y

Corequisites: PMDB22H, PMDB41H, BGYB33H

Enrollment is restricted to students in the Collaborative Program in Paramedicine.

### AMBB41H: Professional Issues, Research and Leadership

Discusses the changing role of the paramedic and introduces the student to the non-technical professional expectations of the profession. Students are introduced to fundamental principles of medical research and professional principles which are applied through the program. Topics covered include the role of professional organizations, the role of relevant legislation, the labour/management environment, the field of injury prevention, and basic concepts of medical research. Students develop leadership skills reflective of the evolving changes within the profession as a key course outcome. This course is taught on the Centennial campus.

Prerequisites: BGYA01Y; PSYA01Y

Corequisites: PMDB22H, PMDB25H, BGYB33H

Enrollment is restricted to students in the Collaborative Program in Paramedicine.

### PMDB30H: Alterations of Human Body Function I

Discusses how human body function is affected by a variety of pathophysiological circumstances. The variety of health states and their subsequent alterations is determined by the potential threat to life which they represent, and the statistical evidence of their frequency within the area of prehospital emergency client care. The theoretical framework includes the main concepts of crisis, the adaptation of the body by way of compensatory mechanisms, the failure of these compensatory mechanisms and the resulting physiological manifestations. The development of the manifestations of these compensatory and decompensatory consequences form a required knowledge base for determining the effects and/or potential life threats to an individual. The student will be required to identify such manifestations and explain the physiological bases for their occurrences. This course is taught on the Centennial campus.

Prerequisites: PMDB22H, PMDB25H, PMDB41H, BGYB33H

Corequisites: PMDB32B, PMDB36H, BGYC33H

Enrollment is limited to students in the Specialist Program in Paramedicine.

### PMDB32B: Prehospital Care Theory and Lab II

Provides the necessary knowledge, skill and value base that will enable the student to establish the priorities of assessment and management for persons who are in stress or crisis due to the effects of illness or trauma. The resulting pathophysiological or psychological manifestations are assessed to determine the degree of crisis and/or life threat. This course is taught on the Centennial campus.

Prerequisites: PMDB22H, PMDB25H, PMDB41H, BGYB33H

Corequisites: PMDBB30H, PMDB36H, BGYC33H

Enrollment is limited to students in the Specialist Program in Paramedicine

### PMDB36H: Pharmacology

Introduces principles of Pharmacology, essential knowledge for paramedics who are expected to administer medications in Prehospital care. Classifications of drugs will be discussed in an organized manner according to their characteristics, purpose, physiologic action, adverse effects, precautions, interactions and Prehospital applications. Students will use a step-by-step process to calculate drug dosages. This course is taught on the Centennial campus.

Prerequisites: PMDB22H, PMDB25H, PMDB41H, BGYB33H

Corequisites: PMDBB30H, PMDB32H, BGYC33H

Enrollment is limited to students in the Specialist Program in Paramedicine

### PMDC40H: Alterations of Human Body Function II

Strengthens students' decision-making skills and sound clinical practices. Students continue to develop an understanding of various complex alterations in human body function from a variety of pathophysiological topics within the area of prehospital emergency care. Physiologic alterations will be discussed in terms of their potential life threat, their effect on the body's compensatory and decompensatory mechanisms, their manifestations and complications and

treatment. The student will be required to identify manifestations and explain the possible physiological basis for their occurrences. This course is taught on the Centennial campus.

Pre-requisites: PMDB30H, PMDB32H, PMDB36H, BGYC33H

Co-requisites: PMDC42A, PMDC41H, BGYB10H

Enrollment is limited to students in the Specialist Program in Paramedicine

#### PMDC42A: Advanced Prehospital Care Theory and Lab I

Provides students, in a highly interactive way, with the necessary theoretical concepts and applied knowledge and skills for managing a variety of prehospital medical and traumatic emergencies. Particular emphasis is placed on advanced patient assessment, ECG rhythm interpretation and cardiac emergencies, incorporation of symptom relief pharmacology into patient care and intravenous and intraosseous access and fluid administration. This course has two main components: classroom and laboratory instruction with a concurrent clinical experience. The intent of the program is to integrate theory and practice through simulated and real experiences in a controlled environment. There will be a strong emphasis on assessment, critical thinking and decision making in all areas of the course. This course is taught on the Centennial campus.

Pre-requisites: PMDBB30H, PMDB32H, PMDB36H, BGYC33H

Co-requisites: PMDC40H, PMDC43H, BGYB10H

Enrollment is limited to students in the Specialist Program in Paramedicine

#### PMDC43H: Medical Directed Therapeutics

Applies concepts and principles from pharmacology, pathophysiology and prehospital care to make decisions and implementation of controlled or delegated medical acts for increasingly difficult case scenarios in a class and lab setting. Ethics and legal implications/responsibilities of actions will be integrated throughout the content. This course is taught on the Centennial campus.

Pre-requisites: PMDBB41H, PMDB32H, PMDB36H, BGYC33H

Co-requisites: PMDC40H, PMDC42A, BGYB10H

Enrollment is limited to students in the Specialist Program in Paramedicine

#### PMDC54B: Advanced Prehospital Care Theory and Lab II

Combines theory, lab and field application. Students will integrate the theory and practice skills from previous Paramedic courses into their final field and lab practice. New concepts of pediatric trauma and Basic Trauma Life Support will be added to the skill and knowledge base. Students will be guided to develop a final portfolio demonstrating experiences, reflection and leadership. Students must pass each component (theory, lab and field) of the course to be successful. Students are expected to prepare independently for their program comprehensive exams through self-study modules. This course is taught on the Centennial campus.

Prerequisites: PMDC40H, PMDC42A, PMDC43H, BGYB10H

Corequisites: PMDC56H

Enrollment is limited to students in the Specialist Program in Paramedicine



**PMDC56H: Primary Care Practitioner Integration and Decision Making**

Challenges students with increasingly complex decisions involving life-threatening situations, ethical-legal dilemmas, and the application of sound foundational principles and knowledge of pharmacology, pathophysiology, communication, assessment and therapeutic interventions. Students will analyze and discuss real field experiences and case scenarios to further develop their assessment, care and decision-making. This course is taught on the Centennial campus.

**Prerequisites:** PMDC40H, PMDC42A, PMDC43H, BGYB10H

**Corequisites:** PMDC54B

**Enrollment is limited to students in the Specialist Program in Paramedicine**

Draft 1  
9 April

## **INTRODUCTION**

**The purpose of this Memorandum of Understanding between Centennial College and University of Toronto is to establish a collaborative program in Paramedicine.**

1. Centennial and University of Toronto shall offer until otherwise agreed the collaborative Paramedicine program, as approved by the University of Toronto's Academic Policy and Programs Committee and the Board of Governors of Centennial College.
2. Students who successfully complete the program will receive a Bachelor of Science degree granted by the University of Toronto and a diploma from Centennial College. The name of the diploma and the degree will be approved by the appropriate bodies of the University of Toronto and Centennial College.

## **GOVERNANCE**

3. Two administrative co-leaders will be named, one from Centennial and one from the University of Toronto, who will deal with all administrative issues at the institutional level. Each institution will appoint a senior academic leader to these positions.
4. All relevant present and future statutes, by-laws, regulations and policies of the University of Toronto shall apply to the academic affairs of students within the program. Also, all students enrolled in this program shall be governed by legislation passed by the University of Toronto.
5. Students who are studying at a campus of Centennial College will be subject to all of the college's policies governing students.
6. All changes to the program and the addition or deletion of courses, must be agreed by both Centennial and the University of Toronto and approved by the University of Toronto's Academic Policy and Programs Committee and the Board of Governors of Centennial College.

## **REGISTRATION AND STUDENT ASSISTANCE**

7. All students will be deemed as University of Toronto students for all record keeping including admission through the Ontario Universities Application Centre (OUAC).
8. Students in Paramedicine will apply for financial assistance in the same way as other University of Toronto students.

9. Successful applicants to the collaborative program must meet the admissions requirements of both Centennial College and the University of Toronto.
10. Financial aid income received in terms of gifts or from government funding will be administered by University of Toronto with the total funding received, less administrative costs, allocated to students in the program.

#### **STUDENT AFFAIRS**

11. Paramedicine students will be governed by the University of Toronto's Code of Student Conduct and by the Code of Behaviour on Academic Matters. In addition, when Paramedicine students are on the Centennial campus they will be subject to the relevant code of conduct of the College.

#### **HUMAN RESOURCES**

12. The conduct of faculty and staff shall be governed by the appropriate statutes, by-laws, regulations, policies and collective agreements, present and future, of the institution that is their employer.
13. The parties agree to develop protocols to govern any circumstances where the faculty of one employer is teaching at the campus of the other employer.

#### **COMMUNICATIONS**

14. All formal public statements relating to the collaborative program shall be collaborative communiqués, approved by both institutions.
15. The parties may establish collaborative communications initiatives such as written publications and a web-site. The costs of these initiatives shall be divided equally between the parties.
16. Neither party shall use the name of the other institution for promotional purposes without the consent of the other party.

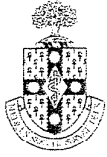
#### **FINANCIAL ARRANGEMENTS**

17. The University of Toronto and Centennial College agree to maximize the resources generated by students enrolled in the Paramedicine program in terms of grants and fees, consistent with Government policy of the day. At present, the University operating grants formula provides a greater amount of resources per student than the college formula would provide.

18. It is understood that University of Toronto and Centennial are moving forward with the requirement that Government fund the students in this program at full average funding per student.
19. Given the above, the maximum will be achieved by the University of Toronto collecting academic fees and government grants for the program. Centennial will receive directly from the University of Toronto the pro-rata share based on the contribution to teaching credits \*(estimated at 35% or 7 full course equivalents out of a total of 20) of the total fees and grants received by the University of Toronto. Any management costs or similar program-wide costs incurred by the University of Toronto will be deducted from the gross revenues generated by the program, and the net revenues will be distributed on a prorata basis. Such costs will be defined by mutual agreement. A portion of the tuition revenue (at present 30 per cent) will be retained by the University of Toronto for student aid.
20. The University of Toronto and Centennial will work out the operational issues surrounding ancillary fees based on the principle that Paramedicine students, although attending classes on two campuses should pay a fair ancillary fee that approximates the ancillary fee of a full-time UTSC student. In this regard, UTSC will issue the parking pass that will be recognized on both campuses with the fees collected for parking shared in the pro-rata fashion noted above. In cases where students have double access, such as students having lockers on both campuses, ancillary fees will reflect the double cost. Ancillary fees will be billed and collected by the University of Toronto. University of Toronto will send Centennial its fair share of the ancillary income as defined by mutual agreement.
21. Subject to agreement of both institutions, funding can be taken "off-the-top" before the pro-rata split to fund exceptional opportunities that would not be possible to afford by the single institution alone.
22. University of Toronto and Centennial will promote the program to Government at a BIU weight of 2.0 in the upper three years of study.

#### **REVIEW AND TERMINATION**

23. The parties shall review this agreement at the end of five years. Either party may request a review at any time prior.
24. This agreement may be terminated by providing adequate notice to the other party of an intention to withdraw from the agreement. Adequate notice is defined as eighteen months in advance of the entry of the final first-year cohort.
25. In the event that either or both parties choose to terminate participation in the collaborative program, such termination must allow for students already enrolled in the program to fully complete the program.



**FACULTY OF MEDICINE**

Inter-faculty & Graduate Affairs  
University of Toronto

Office of the Dean



Professor Carolyn Tuohy  
Vice-President, Policy Development and Associate Provost  
Senior Assessor to AP&P Committee  
Rm 206, Simcoe Hall  
University of Toronto

April 1, 2002

Dear Professor Tuohy,

**Re: Specialist Collaborative Program in Paramedicine**

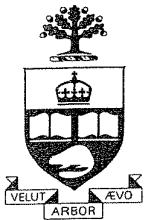
On behalf of the Faculty of Medicine, may I provide a letter of support for the planning and implementation of the proposed program in Paramedicine as a collaboration between UTSC and Centennial College. I have reviewed the program with Professor Joan Foley and the senior academic leaders at Centennial College and congratulate them on this innovative partnership. The development of this joint program is truly an important step forward in higher level training of paramedic personnel in Ontario. At present, the Faculty of Medicine has no involvement in this joint venture, but recognizes both the need and logical academic fit between the Life Sciences BSc program at UTSC and the established Emergency Medical Care Attendant diploma program at Centennial College.

The Division of Emergency Medicine in our Department of Medicine is potentially interested in future liaison with this new joint program. The faculty members in this Division are currently contracted by the Ministry of Health and Long Term Care to provide training of paramedics leading to an Advanced Care Practitioner Certificate (following the above diploma qualifications). It should be noted that the collaboration between UTSC and Centennial College and the establishment of their new joint program does not in any way require liaison with our faculty members or their current training program in Advanced Care. Nevertheless, discussions will continue about the possibility of future integration of advanced training if our faculty can be assured of appropriate funding from MOHLTC.

Sincerely,

Cathy Whiteside, MD PhD  
Associate Dean Graduate and Inter-Faculty Affairs  
Faculty of Medicine

xc: Joan E. Foley



# UNIVERSITY OF TORONTO

Office of the Vice-Provost, Planning and Budget

27 King's College Circle, Toronto, Ontario, Canada M5S 1A1 Tel: (416) 978-7116 Fax: (416) 978-1029 E-Mail: d.mccammond@utoronto.ca

## MEMORANDUM

April 12, 2002

**To:** Planning and Budget Committee

**From:** Derek McCammond

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### Item Identification

Proposal for a joint undergraduate program in Paramedicine at UTSC and Centennial College.

### Sponsor

Derek McCammond, Vice-Provost, Planning and Budget

### Jurisdictional Information

Excerpt from the terms of reference for the Planning and Budget Committee:

*ii) "Programs" within a particular degree (for example, specialist, major and minor programs offered by the Faculty of Arts and Science) are primarily handled through the curriculum approval process of the Committee on Academic Policy and Programs. The administration brings the resource aspects of these programs to the Committee for consideration only if they involve allocation of Central University resources, significant shifts in divisional resources and/or significant implications for other divisions, institutions, or the public. Where program changes reviewed by the Committee on Academic Policy and Programs do not require submission to the Planning and Budget Committee, the administration documents the basis on which this decision is made and reports periodically to the Committee.*

### Highlights

This is the third joint program with Centennial College to be considered by the Committee, programs in Journalism and New Media were approved at the March 2002 meeting. Enrolment in each of the programs is limited to 25 students per year and entry to second year will be available as of fall 2002. Direct entry from high school will be available as of 2003. Applicants must satisfy the admissions requirements of both UTSC and Centennial, but will be registered as UTSC students.

The proposed Specialist Program, which must be taken within the four-year Honours degree, will provide the first B.Sc. in Paramedicine in Canada. The program will be offered in collaboration with Centennial College, which currently offers a three-year diploma in the field. Students who successfully complete the program will qualify for both the degree and the diploma, and will be eligible to write Ministry of Health examinations to qualify to practice as a paramedic.

The Program will be considered by the Committee on Academic Policy and Programs on April 17, 2002.

### Resource Implications

These programs are part of the general expansion of undergraduate enrolment which will occur at UTSC and which will receive full average funding from the Provincial Government. The costs associated with the programs will be met entirely from UTSC's allocations from the Enrolment Growth Fund resulting from the planned expansion.

### Action Sought

For information only.