



UNIVERSITY OF TORONTO

**Proposal for**

**Graduate Diploma in Anesthesia Care Program  
(GDipNPAC)**

in the  
Lawrence S. Bloomberg Faculty of Nursing

**January 2010**

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## 1. Executive Summary

### **Academic**

The Lawrence S. Bloomberg Faculty of Nursing is proposing Master of Nursing (MN) (NP Field) Graduate Diploma in Anesthesia Care. The diploma will be offered in two forms: as a concurrent diploma for students in the MN (NP Field) program and as a post master diploma for Nurse Practitioners (NPs) who have already completed their MN (NP Field). The program length for the Concurrent Diploma is two years of full-time study to meet the MN requirements and three sessions of full-time study for the Diploma, with two sessions embedded within the MN NP Field and one additional session. The Post-Master diploma has a program length of three sessions. Both the concurrent and post-master format require the same 3.0 FCE courses. The program aims to provide the knowledge and skill necessary for the continuum of anesthesia care including pre-operative, peri-operative, post-operative, and ambulatory care. The program offers options focusing on either the adult or child. The overall aim is to prepare NPs for a key role in health service delivery, improving access to anesthesia care services and health care for Ontarians. Completion of either Diploma will build on the capacity of currently registered RN(EC) NPs, and graduates will be employed in a number of capacities, including anesthesia care, palliative care, and pain teams.

The diplomas in Anesthesia Care is the first programs of its kind in Canada and enables the Lawrence S. Bloomberg Faculty of Nursing continued leadership role in Nurse Practitioner education in Canada and beyond. Current and anticipated gaps in service and the creation of Anesthesia Care Teams (ACT) by the government's HealthForceOntario Health Human Resource Strategy support the collaborative practice model that includes NPs with Diplomas in Anesthesia Care.

The Concurrent Diploma must be completed in conjunction with the MN curriculum that includes all NP courses required in the NP Field of the MN Program. Students must meet all School of Graduate Studies requirements for admission to and completion of the MN program, whether or not they complete the Diploma program.

### **Consultation**

Extensive consultation was involved in the planning, and feedback has been included from both the University of Toronto community (nursing faculty, the current and former two Deans of Nursing, students, graduates of the program, administrative and support staff, and the Faculty of Medicine) and external organizations (Ontario Ministry of Health and Long Term Care, College of Nurses of Ontario, Canadian Nurses Association, Registered Nurses of Ontario, Nurse Practitioner Association of Ontario, Ontario Medical Association, and clinical agencies). External consultations also included the Director of Accreditation and Education, the USA Council on Accreditation of Nurse Anesthesia Educational Programs, and nurse anesthetists from Norway, UK and USA.

An NP Advisory Committee was jointly established between the Lawrence S. Bloomberg Faculty of Nursing and the Department of Anesthesia, Faculty of Medicine. Drs. Gerald O'Leary, Claire Middleton and Sharon Davies (all anesthesiologists) were active members of the committee from its inception. Dr. O'Leary is the lead for anesthesia education at the Faculty of Medicine and was asked to collaborate with us on the direction of Dr. Brian Kavanagh, the Department of Anesthesia Chair. Formal Committee meetings were held bi-monthly beginning in late 2007, continuing through 2008 and 2009. The Department of

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Anesthesia members provided excellent advice related to program development, content expertise, the Michener Anesthesia Assistant Program, clinical supervision of student learning and integration of NP roles into the Anesthesia Care Team, a concept central to the current practice context. Dr Gerald O'Leary, Chief of Anesthesia at University Health Network is cross-appointed to the Faculty as Associate Professor.

**Appropriateness of name/designation**

The designation as a Diploma meets the requirements as specified by OCGS By-laws in 2007, that the **MN (NP Field) Concurrent Diploma in Anesthesia Care** is a Type 2 diploma offered in conjunction with a master's degree within the NP Field and the **Post MN (NP Field) Diploma in Anesthesia Care** is a Type 4 diploma which is offered as a stand-alone, direct-entry diploma developed by a unit already offering a master's degree.

**Expected start date:** January 2011

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## 2. Academic

### 2.1 Description and rationale for the proposal

#### 2.1.1 Description of proposed program

The Lawrence S. Bloomberg Faculty of Nursing currently offers two graduate programs leading to the degrees of Master of Nursing (MN) and PhD. The MN program comprises three fields: Nursing Administration, Clinical Nursing, and Nurse Practitioner (MN NP Field). The Faculty is a Canadian leader in Nurse Practitioner (NP) education with 15 years of experience delivering NP education to over 500 graduates of Nurse Practitioner programs in Adult, Paediatric and Primary Health Care specialties.

The Faculty is proposing Master of Nursing (MN) (NP Field) Graduate Diploma in Anesthesia Care. The diploma will be offered in two forms: as a concurrent diploma for students in the MN (NP Field) program and as a post master diploma for Nurse Practitioners (NPs) who have already completed their MN (NP Field). The program length for the Concurrent Diploma is two years of full-time study to meet the MN requirements and three sessions of full-time study for the Diploma, with two sessions embedded within the MN NP Field and one additional session. The Post-Master diploma has a program length of three sessions. Both the concurrent and post-master format require the same 3.0 FCE courses. The program aims to provide the knowledge and skill necessary for the continuum of anesthesia care including pre-operative, peri-operative, post-operative, and ambulatory care. The program offers options focusing on either the adult or child. The overall aim is to prepare NPs for a key role in health service delivery, improving access to anesthesia care services and health care for Ontarians. Completion of either Diploma will build on the capacity of currently registered RN(EC) NPs, and graduates will be employed in a number of capacities, including anesthesia care, palliative care, and pain teams.

Currently, there are no education programs for Nurse Practitioners in Anesthesia Care in Canada. These graduate diplomas have been designed to provide advanced education for Nurse Practitioners interested in developing their knowledge and skill related to the continuum of anesthesia care including pre-operative, peri-operative, post-operative, and ambulatory care. These practitioners will play a key part in health service delivery, improving access to anesthesia care services and health care for Ontarians.

In Canada, both federal and provincial levels of governments have examined current and anticipated gaps in service and the need to increase access to surgical care in a cost-effective manner (CNA, 2006; CNO, 2006). Anesthesia Care Teams (ACT) have been created, as a collaborative practice model including NPs with a Diploma in Anesthesia Care, as part of the government's HealthForceOntario Health Human Resource Strategy. The Operative Anesthesia Committee's (Ontario Medical Association [OMA], Ontario Ministry Of Health and Long Term Care [MOHLTC] collaboration) survey of anesthesiologists in Ontario Academic Health Science Centres indicated that specially trained nurses would improve patient safety and satisfaction (OAC, 2006). Nurse Practitioners with specialist education in anesthesia care can complement and collaboratively provide a range of anesthesia care and related services in a variety of settings; nurse anesthetists are well established in the US and provide 65% of all anesthesia care, including 70-80% in rural areas. This new role is collaborative and well positioned to be a member of Anesthesia Care Teams. While it is interdependent on physician

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partnerships, it is also collaborative and MN NPs are self regulating through the College of Nurses of Ontario.

Education, Regulation and Practice must align to best support the introduction of this new Nurse Practitioner specialty. The Faculty, with its long history of advanced practice programs, is well-positioned to address this need and has received funding from the Ontario Ministry of Health and Long Term Care for this purpose.

The MN (NP Field) Concurrent Diploma in Anesthesia Care must be completed in conjunction with the MN curriculum that includes all NP courses required in the NP Field of the MN Program. Students must meet all School of Graduate Studies requirements for admission to and completion of the MN program, whether or not they complete the Diploma program.

Students in both formats are required to complete the same 3.0 FCE graduate courses, equivalent to 2 half courses and two full courses. Two courses require clinical hours along with 3 hours of weekly seminars with presentations and papers. Therefore a minimum total of 600 clinical hours are required beyond the seminar and paper requirements. Course options focus on either a) acute care adult or b) acute care child. The program is completed in three sessions (e.g. winter, spring/summer, fall). The Anesthesia Graduate Certificate (basic) (Pass Grade) from the Michener Institute is a pre-requisite for the diploma.

### **2.1.2 Rationale for proposal**

The proposed diploma has been designed to meet the current demand for educational preparation in the specialization within the MN NP Field and for Nurse Practitioners following their master's degree. The overall aim is to prepare Nurse Practitioners for a key role in health service delivery, improving access to anesthesia care services and health care for Ontarians. Completion of the program will build on the capacity of currently registered RN(EC), Nurse Practitioners in either the Adult or Pediatric specialty and graduates will be employed in a number of capacities, including anesthesia care, palliative care, and pain teams.

Graduates of the Concurrent Diploma must meet all overall objectives of the MN program as well as those required for the Diploma that outline the scope and responsibilities defined by the College of Nurses of Ontario (2006). Post master Diploma students must meet the same objectives that outline the scope and responsibilities defined by the College of Nurses of Ontario (2006). Therefore both graduates will be able to:

1. use appropriately anesthetic drugs to manage fluid and blood replacement therapy;
2. interpret sophisticated technical data from monitoring devices;
3. recognize and correct complications during the course of anesthetic care;
4. provide airway and ventilatory support during resuscitation;
5. provide appropriate pain management;
6. engage in research, education and administrative functions related to anesthetic care.

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Both graduates must also meet specific objectives related to anesthesia care and will be able to:

1. demonstrate acquired knowledge of anatomy, pathophysiology and complications in the care of patients undergoing anesthesia care, specifically in the care of patients presenting with cardiac disease, respiratory disease, obstructive sleep apnea, diabetes, obesity, neurological disorders, renal disease, liver disease, hematological problems, musculoskeletal disease, obstetrics, depression, alcohol and substance use, pseudocholinesterase deficiency, Down's syndrome, and other rare and coexisting diseases.
2. conduct both comprehensive and/or focused pre-operative, pre-anesthetic, and/or pre-procedure/therapy assessments of clients.
3. assess the need for and recommending appropriate laboratory and diagnostic tests required prior to the delivery of anesthesia.
4. assess the risks of anesthesia, documenting pre-anesthesia assessments and communicating with the patient and family.
5. identify risk factors for morbidity and mortality associated with anesthesia.
6. explain emergence of anesthesia and managing initial resuscitative measures in emergency situations
7. recognize and manage post-operative complications.

The curriculum is designed to provide students with the skills and competencies required for the Nurse Practitioner role in anesthesia care. All courses have clearly articulated learning objectives that, in combination, provide students with the knowledge and skills viewed to be essential to advance practice nurses who are Nurse Practitioners in anesthesia care, as specified by the Canadian Nurses Association (2006) and future employers of our students. All courses have clear evaluation methods to insure objectives are met. To address the diversity of student interests and career paths (i.e. anesthesia care, palliative care, and pain teams), field placements are tailored to meet individual needs and interests that contribute to their leadership and clinical development. As well, students are exposed through their coursework to outstanding practitioners in Canada.

Both formats for the diploma require students to take the same four graduate courses that provide the theoretical and research scholarship and immersion in clinical practice required for this specialization.

## **2.2 Pedagogical and other academic issues, including expected benefits of the proposed program**

The proposed diploma has been developed in consultation with the Canadian Nurses Association, College of Nurses of Ontario, Registered Nurses of Ontario, Ontario Medical Association, Ontario Ministry of Health and Long Term Care and Faculty of Medicine, Department of Anesthesia. Currently there are no education programs for Nurse Practitioners in Anesthesia Care in Canada The diploma has been designed to meet the current demand for educational preparation in the specialization within the MN NP Field and for Nurse Practitioners following their master's degree (NP Field).

The Diploma program requirement is three consecutive sessions and courses have been developed in collaboration with the Department of Anesthesia, Faculty of Medicine. The series

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of courses have been designed to provide advanced education for Nurse Practitioners interested in developing their knowledge and skill related to the new role in the care of patients along the continuum of anesthesia care including pre-operative, peri-operative, post-operative, and ambulatory care.

Students come from a diversity of clinical experience backgrounds. All MN (NP Field) Concurrent Diploma in Anesthesia Care students are required normally to have a minimum of 2 years of experience prior to entering the MN NP but may have significantly more previous work experience. All students are encouraged to share their diverse experiences throughout the program to enrich the learning environment and provide socialization opportunities. Students build their portfolio that documents their evolving expertise, acquisition of learning and competency attainment.

Through their course work, students are exposed to the most current clinical anesthesia care practices essential to work in Canada's changing health system, as well as to leading practitioners in nursing in Ontario, Canada, and those with an NP in Anesthesia internationally. As the Diplomas in Anesthesia Care support a new role in Canada, leading practitioners in medicine will also be involved. Students are required to complete specific objectives for core content and are evaluated consistently. Practicum placements are components of two courses (NUR1209, NUR 1210) and are specifically tailored to individual student needs, given their past/current work experience and their specific learning and career objectives.

Students' professional socialization occurs through many channels, including residencies, preceptor experiences, as well as weekly discussions amongst students and teachers and faculty site visits. Weekly dialogue between students and teachers contributes to intellectual cohesion in the program and helps to address any challenges in this complex area. Faculty provide consultations with students related to their experiences and course planning, as well as help with career counselling in face-to-face sessions, by phone, and/or on-line.

### **2.3 Projected student demand**

Current and anticipated gaps in service and the creation of Anesthesia Care Teams (ACT) by the government's HealthForceOntario Health Human Resource Strategy support the collaborative practice model that includes NPs with a Diploma in Anesthesia Care. The Operative Anesthesia Committee's (OMA, MOHLTC collaboration) survey of anesthesiologists in Ontario Academic Health Science Centres indicated that specially trained nurses would improve patient safety and satisfaction (OAC, 2006). Nurse Practitioners with specialist education in anesthesia care can complement and collaboratively provide a range of anesthesia care and related services in a variety of settings; nurse anesthetists are well established in the US and provide 65% of all anesthesia care, including 70-80% in rural areas.

We anticipate that enrolment for those MN students in the NP Field and those NPs with an MN degree who want to acquire additional credential of Diploma in Anesthesia Care will increase with the demand from the health service sector and recognition of the scope of the master's prepared NP with a Diploma in Anesthesia Care. Current and anticipated gaps in service and the creation of Anesthesia Care Teams (ACT) support the collaborative practice model of NPs with a Diploma in Anesthesia Care. This is the first of its kind in Canada and numbers are difficult to project; we anticipate enrolment total of about 10 annually (six for Type 2 and four for Type 4), without increasing the total quota for masters enrolment. Since



the initial announcement of this program in 2006, the Faculty has received constant inquiries concerning this course. There has been a significant amount of interest from the Ontario Perianesthesia Nurses Association & National Association for Perianesthesia Nurses.

YEAR	FULL-TIME				TOTAL ENROLMENT	
	Intake		Enrolment		Diploma (Type 2)	Diploma (Type 4)
	Diploma (Type 2)	Diploma (Type 4)	Diploma (Type 2)	Diploma (Type 4)		
2010-11	6	4	6	4	6	4
2011-12	6	4	6	4	6	4
2012-13	6	4	6	4	6	4
2013-14	6	4	6	4	6	4
2014-15	6	4	6	4	6	4
2015-16	6	4	6	4	6	4
2016-17	6	4	6	4	6	4

#### 2.4 Evidence of consultation with other affected divisions

Extensive consultation was involved in the planning and feedback has been included from both the internal community (nursing faculty, the current and former two Deans of Nursing, students, graduates of the program, administrative and support staff) and external affiliates (Faculty of Medicine including anesthesia, Ontario Ministry of Health and Long Term Care, College of Nurses of Ontario, Canadian Nurses Association, Registered Nurses of Ontario, Nurse Practitioner Association of Ontario, and clinical agencies). External consultants also included the Director of Accreditation and Education, the USA Council on Accreditation of Nurse Anesthesia Educational Programs, and nurse anesthetists from Norway, UK and USA.

The NP Advisory Committee was jointly established between the Lawrence S. Bloomberg Faculty of Nursing and the Department of Anesthesia, Faculty of Medicine. Drs. Gerald O'Leary, Claire Middleton and Sharon Davies (all anesthesiologists) were active members of the committee from its inception. Dr. O'Leary is the lead for anesthesia education at the Faculty of Medicine and was asked to collaborate with us on the direction of Dr. Brian Kavanagh, the Department of Anesthesia Chair. Formal Committee meetings were held bi-monthly beginning in late 2007, continuing through 2008 and 2009. The Department of Anesthesia members provided excellent advice related to program development, content expertise, the Michener Anesthesia Assistant Program, clinical supervision of student learning and integration of NP roles into the Anesthesia Care Team, a concept central to the current practice context. Dr Gerald O'Leary, Chief of Anesthesia at University Health Network is cross-appointed to the Faculty as Associate Professor.

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## **2.5 Appropriateness of the name and designation of the new program**

The designation as a Diploma meets the requirements as specified by OCGS By-laws in 2007, that the **MN (NP Field) Concurrent Diploma in Anesthesia Care** is a Type 2 diploma offered in conjunction with a master's degree within the NP Field and the **Post MN (NP Field) Diploma in Anesthesia Care** is a Type 4 diploma which is offered as a stand-alone, direct-entry diploma developed by a unit already offering a master's degree. The designation as MN (NP Field) Concurrent Diploma in Anesthesia Care in conjunction with the master's degree or as Post MN (NP Field) Diploma in Anesthesia Care reflects the program focus (anesthesia care) and degree requirement (either MN (NP Field) concurrent completion or post an MN (NP Field)).

## **2.6 Program description and requirements, course titles/numbers, and faculty members**

### **2.6.1 Admission Requirements**

#### **1) MN (NP Field) Concurrent Diploma in Anesthesia Care–Type 2**

The MN (NP Field) Concurrent Diploma in Anesthesia Care is offered to students who have successfully completed a minimum of two sessions in the MN NP Field program. Applicants must apply directly to the Lawrence S. Bloomberg Faculty of Nursing by June 1 in year one of the MN NP Field program and are selected by an internal process involving the Faculty Admissions Committee. Applicants must have the two years of experience required for the MN NP Field, normally in critical care or equivalent, and submit a written statement to support their interest and future application of this program

Successful completion of the Anesthesia Graduate Certificate (basic) (Pass Grade) from the Michener Institute is a pre-requisite.

The MN (NP Field) Concurrent Diploma in Anesthesia Care is offered in conjunction with the MN degree. Therefore, the candidate must be first admitted to the master's program under the general regulations of the School of Graduate Studies. Meeting minimal requirements does not ensure admission. Only successful applicants to the MN NP Field can apply to the MN (NP Field) Concurrent Diploma in Anesthesia Care.

The MN (NP Field) Concurrent Diploma in Anesthesia Care must be completed in conjunction with the MN curriculum that includes all NP courses required in the NP Field of the MN Program. For this Type 2 Diploma, students must meet all School of Graduate Studies requirements for admission to and completion of the MN program, whether or not they complete the Diploma program requirements.

#### **2) Post MN (NP Field) Diploma in Anesthesia Care–Type 4**

Eligible candidates include individuals with a University of Toronto Master of Nursing degree (NP Field), or equivalent, who are currently registered or are eligible for registration with the College of Nurses of Ontario as a Nurse Practitioner-Adult or Nurse Practitioner-Paediatrics. Applicants must normally have two years of experience in critical care or equivalent, provide three letters of reference (academic, professional, and clinical --NP or MD), and submit a written statement to support their application to this program. Successful completion of the Anesthesia Graduate Certificate (basic) (Pass Grade) from the Michener Institute is a pre-requisite. Applicants must apply to the Lawrence S. Bloomberg Faculty of Nursing by June 1 and are selected by a process involving the Admissions Committee.

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### **Program description and requirements**

The MN (NP Field) Concurrent Diploma in Anesthesia Care–Type 2, completed in conjunction with the MN NP program, requires two years of full-time study to meet the MN requirements and three sessions of full-time study for the Diploma, with two sessions embedded within the MN NP Field and one additional session. The program length for the Post MN (NP Field) Diploma in Anesthesia Care–Type 4 is three sessions of full-time study; the Type 4 diploma is designed to meet the needs of Nurse Practitioners who are graduates of the MN (NP Field) program. The overall aim is to provide the skill and knowledge required for the clinical care of those patients in pain and/or receiving sedation and anesthesia, in either the Adult or Pediatric specialty. Graduates will be employed in a number of capacities, including anesthesia care, palliative care, and pain teams. Students in both the Diploma–Type 2 and Diploma–Type 4 are required to complete the same graduate courses, equivalent to 6 half courses. Successful completion of the Anesthesia Graduate Certificate (basic) (Pass Grade) from the Michener Institute is a pre-requisite for both Diploma–Type 2 and Diploma–Type 4.

Courses have been developed in consultation with the Department of Anesthesia, Faculty of Medicine. The series of courses have been designed to provide advanced education for Nurse Practitioners interested in developing their knowledge and skill related to in the care of patients along the continuum of anesthesia care including pre-operative, peri-operative, post-operative, and ambulatory care. Course options focus on either a) acute care adult or b) acute care child.

For both the MN (NP Field) Concurrent Diploma in Anesthesia Care–Type 2 and the Post MN (NP Field) Diploma in Anesthesia Care–Type 4, the program requirement is two half courses (NUR 1201H, NUR 1202H) and two full courses (NUR 1209Y, NUR 1210Y). Two consecutive courses (NUR 1209Y, NUR 1210Y) each require 3 hours of weekly seminars with presentations and papers as well as additional hours that require at least 32 clinical hours a week. Therefore a minimum of 600 clinical hours are required beyond the seminar requirement. The Diploma Programs (Type 2 & 4) each require three consecutive sessions. The Diploma Programs are offered on a full-time basis; a part-time option is not proposed at this time. The time limit for each Diploma Program is 24 months.

The MN (NP Field) Concurrent Diploma in Anesthesia Care–Type 2 must be completed in conjunction with the MN curriculum that includes all NP courses required in the NP Field of the MN Program (*see Table below*). Students who decide to not complete the Diploma–Type 2 must complete all requirements of the master's program to graduate with the MN. Students who do not complete the MN Program will not receive the Diploma.

**MN (NP Field) Concurrent Diploma in Anesthesia Care (OCGS Type 2) Program Plan**  
 (courses in **bold boxes** are Diploma requirements)

	Fall	Winter	Spring/Summer
<b>Year 1</b>	<b>NUR 1100</b> Advanced Pathophysiology and Therapeutics		<b>NUR 1101/02</b> Advanced Health Assessment 100 Clinical Hours
	MN Foundation Course # 1	MN Foundation Course # 2	MN Foundation Course # 3
<b>Year 2</b>	<b>NUR 1109</b> Advanced Nursing Care I 300 Clinical Hours	<b>NUR 1110</b> Advanced Nursing Care II 300 Clinical Hours	<b>NUR 1209Y</b> Advanced Nursing Care: Anesthesia I 300 Clinical Hours (1.0 FCE)
	MN Foundation Course #4	<b>NUR 1201H</b> Principles of Anesthesia for Nurse Practitioners (0.5 FCE)	
<b>Year 3</b>	<b>NUR 1202H</b> Advanced Pain Management across Clinical Settings (0.5 FCE)		
	<b>NUR 1210Y</b> Advanced Nursing Care: Anesthesia II 300 Clinical Hours (1.0 FCE)		

**Post MN (NP Field) Diploma in Anesthesia Care (OCGS Type 4) Program Plan**

	Fall	Winter	Spring/Summer
<b>Session 1</b>		<b>NUR 1201H</b> Principles of Anesthesia for Nurse Practitioners <i>(0.5 FCE)</i>	
<b>Session 2</b>			<b>NUR 1209Y</b> Advanced Nursing Care: Anesthesia I <i>300 Clinical Hours (1.0 FCE)</i>
<b>Session 3</b>	<b>NUR 1202H</b> Advanced Pain Management across Clinical Settings <i>(0.5 FCE)</i>		
	<b>NUR 1210Y</b> Advanced Nursing Care: Anesthesia II <i>300 Clinical Hours (1.0 FCE)</i>		

**Course and Diploma (Type 2 and 4) Requirements**

1. To qualify for the Diploma, a candidate shall complete a program of study consisting of 3.0 FCE outlined by the Department of Nursing Science.
2. The required 4 courses to be completed are NUR1201H, NUR1202H, NUR 1209Y, and NUR1210Y. NUR1209Y and NUR1210Y must be taken sequentially.
3. Students must enrol on a full-time basis.

The MN (NP Field) Concurrent Diploma in Anesthesia Care–Type 2, completed in conjunction with the MN NP program, requires two years of full-time study to meet the MN requirements and three sessions of full-time study for the Diploma, with two sessions embedded within the MN NP Field and one additional session. Time limit is 24 months.

**Language requirements**

English Facility Requirements – Students are referred to the School of Graduate Studies website.

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## **2.6.2 Course titles/numbers**

The following courses will be taught in both the MN (NP Field) Concurrent Diploma in Anesthesia Care–Type 2 in addition to their MN requirements and the Post MN (NP Field) Diploma in Anesthesia Care–Type 4. All courses have been approved by SGS and the Faculty Council.

### **NUR 1201H: Principles of Anesthesia Care**

This course will provide advanced theoretical knowledge about the care of patients undergoing anesthesia. It will provide opportunities for learners to explore how to assess and manage of patients presenting with comorbidities such as cardiac, endocrine, renal, neurological, respiratory or pain syndrome complications etc, pre-operatively, intra-operatively, and post-operatively. This course will deliver theoretical content in order to assist learners to assess the risks of anesthesia, the need for appropriate laboratory and diagnostic tests prior to the delivery of anaesthesia, the methods of monitoring patients' physiological and emotional conditions, the clinical indicators used to recognize and understand how to appropriately respond to complications and emergency situation in the context of anesthesia care.

### **NUR 1202H: Advanced Pain Management across Clinical Settings**

Pain is a prevalent and universal symptom that can have a major impact on individuals of all ages, their family and society. This course will include theoretical models and research directed to specific pain assessment and management practices of Nurse Practitioners (NPs) and related diagnostic reasoning and management. This highly specialized course will educate NPs working in pain and/or anesthesia roles in a variety of practice settings with diverse populations, including an emerging role in health care supported by the Ontario Ministry of Health & Long-Term Care.

Students will critique the basis for current pain practices/policies/standards and develop strategies for improved patient care and clinical outcomes. Specific approaches and procedures will be discussed for patients with acute and/or persistent pain and various comorbidities. Discussion of the CNA (2008) domains of advanced nursing practice and implementation as an interprofessional care team member will be integrated throughout.

### **NUR 1209Y: Advanced Nursing Practice in Caring for Clients and Families Requiring Anaesthesia I**

This field experience course incorporates a combination of clinical practice and learner/faculty-facilitated seminars (total of 300 hours). The course provides learners with opportunities to analyse, synthesize and integrate theoretical principles and concepts into clinical practice with emphasis on systems thinking, developmental issues and collaboration with clients, families and other health professionals. The course has two major components.

Clinical practice settings that offer experiences with common client/family health and illness states in the continuum of anaesthesia care (pre-operative, peri-operative, post-operative) to facilitate the learners' development of advanced skills (interviewing, physical examination, diagnostic reasoning, invasive procedures) in the evaluation of patients being treated by an NP working in Pain, Sedation and/or Anesthesia. Learners will build relevant competencies across their clinical assessment skills incorporating specific learning about the evaluation of patients before anaesthesia, during administration of anaesthesia, and through to recovery

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from anaesthesia and pain management. Learners will integrate diagnostic testing and treatment planning in preparation for a Nurse Practitioner role within an Interprofessional Team grounded in collaborative practice. Application of the clinical reasoning process is integral to the learners' experiences. Learners will increase their focus on caring for clients and families experiencing acute and chronic illness states with moderately complex needs undergoing surgical or procedural intervention. *(Total clinical hours 300 hours)*

### **NUR 1210Y: Advanced Nursing Practice in Caring for Clients and Families Requiring Anaesthesia II**

The course provides learners with opportunities to continue the analysis, synthesis and integration of advanced theoretical principles and concepts related to advanced nursing practice, using the national framework for advanced nursing practice (CNA, 2002, 2008 in press). Within this framework, advanced nursing practice (ANP) is defined as nursing practice that "maximizes the use of in-depth nursing knowledge and skill in meeting the health needs of clients (individuals, families, groups, populations or entire communities). Learners continue to build and refine their knowledge and skill that are consistent with the domains as outlined in the framework. Learners will further their discovery of trends and issues that influence collaborative practice models in Anesthesia Care and develop their understanding of various outcomes evaluation frameworks, including the PEPPA framework.

Practice settings that offer experiences across the continuum of anaesthesia care (pre-operative, peri-operative, post-operative) with clients and families experiencing acute and chronic illness states with specialized, multiple and complex needs are used to allow learners to consolidate skill development related to the comprehensive care of clients across the health-illness continuum. The clinical environment is one that facilitates the learner's ongoing integration of all domains into their nursing role.

Learners critically examine legal, organizational, and systems issues and how these influence the scope and standards of ethical practice, professional accountability and outcomes of advanced practice. *(Total clinical hours minimum 300 hours)*

#### **2.6.3 Faculty members**

Excellence in NP education requires that faculty be qualified both academically as well as being outstanding clinical leaders in NP practice. In keeping with the Canadian academic experience related to the slowly increasing availability of doctorally prepared NP academics, currently 4 faculty hold doctoral degrees, two of whom are tenured and two of whom are in tenure track positions. One faculty has NP anesthesia preparation and another is an NP currently completing a Certificate in Anesthesia Care who also trained as a non-Canadian medical anesthetist. The Head of the Department of Anesthesia has been engaged in consultation in the development of the program from the outset and the Department of Anesthesia has provided support on program development and content expertise. The Chief of Anesthesia at University Health Network is cross-appointed to the Faculty as Associate Professor.

All faculty are appointed to the School of Graduate Studies and will teach students from both Diploma (Type 2) within the MN NP Field and Diploma (Type 4) for the Post MN (NP Field) students.

**Table 1 - Faculty Members by Field**

Faculty Name & Rank	M/F	Home Unit <sup>1</sup>	Supervisory Privileges <sup>2</sup>
<b>Category 1</b>			
<b>Parry, Monica</b> <i>Assistant Professor</i>	F	Faculty of Nursing	Associate
<b>Peter, Elizabeth</b> <i>Associate Professor</i>	F	Faculty of Nursing	Full
<b>Rose, Louise</b> <i>Assistant Professor</i>	F	Faculty of Nursing	Associate
<b>Category 2</b>			
<b>Hublely, Pam</b> <i>Assistant Professor (status)</i>	F	Hospital for Sick Children	Associate
<b>Jiang, Jiao</b> <i>Assistant Professor (status)</i>	F	University Health Network	Associate
<b>Category 5</b>			
<b>Watt-Watson, Judy</b> <i>Professor Emerita</i>	F	Faculty of Nursing	Full
<b>Category 6</b>			
<b>O'Leary, Gerald</b> <i>Associate Professor</i>	M	Faculty of Medicine	Associate

<sup>1</sup> This is the budget unit paying the salary: department, school, research centre or institute, or other.

<sup>2</sup> Supervisory Privileges:

**Full** – Full Members may act as the sole or major supervisor of a doctoral thesis, and as a member of thesis committees; serve as a chair or voting member of a final oral examination committee, where such examinations are required by SGS, and perform all associated duties; assume responsibility for the setting and marking of comprehensive examinations; teach, set and mark examinations for a graduate course and give such other direction as may be required.

**Associate** – Associate Members act as a member of thesis committees and teach, set and mark examinations and course work for graduate courses.

**Category 1:** tenured or tenure-track core faculty members whose graduate involvement is primarily in the Department of Nursing Science

**Category 2:** non-tenure-track core faculty members whose graduate involvement is primarily in the Department of Nursing Science.

**Category 3:** tenured or tenure-track core faculty members who are involved in teaching and/or supervision in other graduate program(s) in addition to being a core member of the Department of Nursing Science.

**Category 4:** non-tenured or tenure-track core faculty members who are involved in teaching and/or supervision in other graduate program(s) in addition to being a core member of the Department of Nursing Science.

**Category 5:** faculty members from other Universities, Healthcare Agencies, Government, Emeritus Professors who have been granted a graduate appointment in the Department of Nursing Science for the purposes of participating on a thesis committee.

**Category 6:** non-core faculty who participate in the teaching of graduate courses.



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### 3. Students

#### 3.1 Student affairs and services

Students have access to all Lawrence S. Bloomberg Faculty of Nursing facilities and services. Students come from a diversity of clinical experience backgrounds. Students are encouraged to share their diverse experiences throughout the program to enrich the learning environment and provide socialization opportunities. Students build their portfolio that documents their evolving expertise, acquisition of learning and competency attainment.

Through their course work, diploma students are exposed to the most current clinical anesthesia care practices essential to work in Canada's changing health system, as well as to leading practitioners in nursing in Ontario, Canada, and those with an NP in Anesthesia internationally. As NP in Anesthesia Care is a new role in Canada, leading practitioners in medicine will also be involved. Students are required to complete specific objectives for core content and evaluation to ensure competencies is rigorous and included in every course. Practicum placements are a component of two courses (NUR 1209, NUR 1210) and are specifically tailored to individual student needs, given their past/current work experience and their specific learning and career objectives.

Students' professional socialization occurs through many channels, including residencies, preceptor experiences, as well as weekly discussions amongst students and teachers and faculty site visits. Weekly dialogue between students and teachers contributes to intellectual cohesion in the program and helps to address any challenges in this complex area. Faculty provide consultations with students related to their experiences and course planning, as well as help with career counselling in face-to-face sessions, by phone, and/or on-line.

All of the usual University and SGS services for graduate students are available for these students.

#### 3.2 Student conduct and discipline

Student admission, conduct, grading, and progress through the program are governed by the policies of the School of Graduate Studies. All students are expected to meet the University of Toronto *Standards of Professional Practice Behaviour for all Health Professional Students* (2008).

#### 3.3 Financial Support

At the current time we are in discussions with MTCU about scholarship support and it is likely initial cohorts will receive fee subsidy and funding.

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### **3.4 Student registration and information systems**

Students are governed by the general regulations of the School of Graduate Studies. All applications are reviewed by a sub-committee of the Lawrence S. Bloomberg Faculty of Nursing Admissions Committee and recommendations forwarded to the Chair of the Admissions Committee for final approval.

The diploma captured by section 20.0 of the University's Guidelines for Graduate Diploma programs. Therefore, students will have ROSI registration and are tracked by the University systems such that they receive a diploma at convocation.