



Learning Centre
Labelle
Centre d'innovation
et d'apprentissage

2021/2022 Annual Report

Table of Contents

The Big Move	3-4
Thank You to All of Our Donors!	5
Message from the Medical Lead	6
HSN Simulation Lab's Vision, Mission, and Learning Contract	7
Simulation Executive Group (SEG)	7
Year at a Glance	8-9
New Simulation Event Highlights	11
Continued Robust Simulation Programming	_ 12-13
Creative Corner	13
Research & Scholarly Work	14
Future Directions	15
Aligning with HSN and NOSM University Strategic Goals & Directions _	16
Undergraduate Medical Education and Physician Assistant Students	17
Postgraduate Medical Education	17
Medical Learner Trainee Days (by fiscal year)	18
Academic and Research Impact	19
The Health Sciences Library in 2021	20
Library Requests	20
Library Activities	21

THE BIG MOVE

When

- In November 2021, the Health Sciences North (HSN) Simulation Laboratory moved from its previous space at the Sudbury Outpatient Centre on Regent St., to the newly built Labelle Innovation and Learning Centre.
- In December 2021, the new Medical Learner Centre followed, officially moving to the Labelle Centre from the 2nd floor of North Tower.
- With the move, the Undergraduate Medical Education & Physician Assistant Students Advisor, Postgraduate Medical Education Advisor, Student Placement Associate, and our Librarian joined the Labelle Innovation and Learning Centre.

Where

• The Labelle Innovation and Learning Centre is located at HSN's Ramsey Lake Health Centre at 41 Ramsey Lake Road.

• It is accessible through the 3rd floor, near the centre tower elevators.

What

- The Labelle Innovation and Learning Centre accommodates a Medical Learner's Centre on the 3rd floor and a state-of-the-art Simulation Laboratory on the 4th floor.
- The building has a total footprint of 28,000 square feet.
- The Labelle Innovation & Learning Centre is truly a space that learners can call home while learning at HSN.



THE BIG MOVE





Medical Learner Space Highlights:

The 3rd floor Medical Learner space is available to all students and medical residents on placement at HSN.

Features:

- A lounge filled with natural light overlooking Ramsey Lake. It offers learners the opportunity to relax, socialize, eat lunch, or work
- 10 sleep rooms to accommodate learners assigned to overnight call
- Two classrooms fully integrated with the latest video conferencing platforms
- Two offices and a meeting room that can be used as quiet study spaces, for meetings with preceptors or peers, or for completing research projects

•Two locker rooms with ample room to allow learners to store their belongings and change from street clothes to their clinical attire

Simulation Laboratory Space Highlights:

The newly built HSN Simulation Laboratory is a state-of-the-art, fully equipped facility with adaptable (adjustable) spacing to suit various simulation scenarios (operating room, patient room, etc.)

Features:

- Three spacious **Simulation Suites**, each equipped with a control room for state-of-the-art simulation
- Three dedicated **Debriefing Rooms** for safe learning and team reflection
- A large **Classroom** with an adjoining **Kitchenette** for instructional sessions in a comfortable setting
- A spacious **Multi-skills Room** for multi-purpose training and skill development
- A **Preparatory Room**, equipped with auto-clave and sterilization equipment





THANK YOU TO ALL OF OUR DONORS!

The Labelle Innovation and Learning Centre was made possible thanks to a \$22,826,100 grant from the <u>Ontario Ministry of Health</u>, the generous contributions of many donors and the support of the <u>HSN Foundation</u>.

We would especially like to thank the <u>Marcel and Frances Labelle Foundation</u> for their transformative gift of \$5 million dollars, <u>Crosstown Chevrolet</u> for their donation of \$500,000, <u>BMO Bank of Montreal</u> for their donation of \$400,000, and <u>TD Bank</u> for their donation of \$250,000. The impacts of this learning centre have already been felt and voiced by our learners, faculty, and staff;





"Words can't adequately express how grateful my colleagues and I are to the Labelle family for providing us with the phenomenal learner centre. True to its name, we not only now have ample space to study, socialize, and rest, we also now have everything central to our educational needs easily accessible to us including the newly migrated simulation centre and all the wonderful support staff."

- TIAN XIAO, PGY3 INTERNAL MEDICINE

MESSAGE FROM THE MEDICAL LEAD



After a long Northern Ontario winter, spring is in the air. What a wonderful time to welcome you to explore HSN's Simulation Lab that is blooming in its stunning new location in the Labelle Innovation and Learning Centre. Through the incredible generosity of the Labelle Family and other donors, the Simulation Lab offers a dedicated learning space for clinical practice and improvement with breathtaking views of Ramsey Lake. Its proximity to clinical areas will create rich opportunities to increase the number of learners accessing the Lab and the types of innovative events offered.

The Sim Lab team would like to recognize the monumental role that Suzanne Lortie-Carlyle played in the development of the Simulation Lab from its infancy through to the move into our new building. As Simulation Manager, she has been instrumental in supporting the growth of the simulation community locally and throughout our region. We wish her a very happy retirement!

We are very proud of the growth and achievements of our simulation community over the past year. Our simulation research impact and innovation continue to blossom with new partnerships and investigative undertakings. Last fall, the inaugural Simulation Lab's Research and Innovation Spotlight provided an opportunity to showcase these projects with our regional academic partners. The Sim Lab staff has created a moulage catalogue and continues innovations in 3D printing and manikin/task trainer modifications. Our community is creating and mentoring an Interprofessional Debriefing Team and improving the life-long learning and growth culture at HSN.

I continue to be absolutely amazed by HSN's simulation community and the positivity, creativity, and passion that drives new ideas and plans. The sky is no limit for such a phenomenal team. In my mind, the best part about simulation education is its ability to unite passionate teachers and learners from all departments of medicine and all stages of learning with a common goal to better ourselves, our teams, our systems and ultimately, better our patient care.

If you wish to learn more about simulation education and scholarship or are interested in joining the simulation community, we are always open to welcoming new people and ideas.

"I continue to be absolutely amazed by HSN's simulation community and the positivity, creativity, and passion that drives new ideas and plans."

HSN SIMULATION LAB'S VISION, MISSION, AND LEARNING CONTRACT



Mission:

The HSN Simulation Laboratory provides unique, realistic, simulated learning events that transform participants by opening doors to new skills and creating high-performing teams, clinical teachers and leaders to enhance the quality of patient care. Students, residents, practicing clinicians, faculty and Simulation Lab staff work collaboratively in an engaging, supportive environment that brings out the best in everyone. Continuous attention to quality improvement and scholarship supports innovation and efficiency



Vision: To create a culture of quality improvement and patient safety across Northern Ontario by providing and fostering innovative, collaborative simulation-based education for all health care providers



Learning Contract:

We believe that everyone participating at the HSN Simulation Lab is intelligent, motivated, cares about doing their best, and wants to improve

Simulation Executive Group (SEG)

The Simulation Executive Group provides oversight, support and direction for operations of the HSN Simulation Lab. Membership reflects the multiple partners and stakeholders at the executive level to ensure appropriate understanding and influence regarding collaborations and budgetary considerations. Present membership includes:

· Medical Lead, HSN Simulation Lab (Chair)
· HSN, Simulation Lab Manager
· Vice-President, Academic and Research Impact (NOSM
University/NOAMA)
· HSN, Senior Vice President and COO
· NOSM University, Vice Dean Academic
· HSN, Vice President & Chief Nursing Executive
· HSN, President and Chief Development Officer, Foundations
· Laurentian University, Dean, Faculty of Health

YEAR AT A GLANCE

We are accredited! The HSN Simulation Laboratory is accredited by the Royal College of Physicians and Surgeons of Canada.







YEAR AT A GLANCE

Did You Know... 😯

Healthcare Simulation works towards facilitating patient safety, and can be said to have four overarching principles:

EDUCATION, ASSESSMENT, RESEARCH and HEALTH SYSTEM INTEGRATION

In 2021, we added a new high-fidelity pediatric manikin to our inventory:



Institutions Hosting Events with the HSN Simulation Laboratory

	Organizational Affiliation	<u>% of Events</u>
	Health Sciences North	54%
秦 0 令	Northern Ontario School of Medicine University	43%
	Science North	3%
THE STREET	Laurentian University	<3%

Meet the Simulation Team!



Back Row: Melissa Bennett (Admin Assistant), Scott Ropp (Sim Tech), Kyle Mispel-Beyer (Sim Educator) and Sebastien Perth (Sim Tech)
Front Row: Suzanne Lortie-Carlyle (Manager), Samantha St. Pierre (Sim Tech) and Holly Sarvas (Sim Educator)
Absent: Chantal Lecuyer (Sim Tech) and Dr. Mary Catherine Kerr (Medical Director)



NEW SIMULATION EVENT HIGHLIGHTS



Advanced Cardiac Life Support Mine Rescuer Certification:

Our Simulation team held an Advanced Cardiac Life Support (ACLS) certification course for local mine rescue personnel.

This innovative approach was brought forth by our Pre-Hospital Medical Director and Emergency Department Nurse Clinician. It provided mine rescue personnel the skills necessary to provide critical life support to miners and associated mine personnel while in confined spaces for extended periods with minimal access to EMS support.

ED Red Zone Orientation:

The Emergency Nursing Critical Care Orientation is a training program for nurses looking to gain an understanding of trauma care in the emergency department. The course encompasses two major simulation cases.

Throughout the day the learners also practice many skills such as airway and vents, chest tube maintenance, arterial lines, patient warming, interosseous insertion, as well as the application of a Thomas splint.





HSN Outpatient In-situ Code Blue Simulation Initiative:

The Northeast Cancer Centre (NECC) held two half-day sim sessions (Chemo Suite & Radiation Suite) and the Sudbury Outpatient Centre held four 1-hour sim sessions (Geriatric Care, Bariatric Care x2, & BSAS) for staff to learn the first 5-minute response to Code Blue activation within their unique settings.

Systems-level process changes were enacted; and faculty felt empowered to continue teachings after Sim Lab departure.

Pediatric Virtual Critical Care SickKids Systems-Testing:

Our department collaborated with HSN's Virtual Critical Care (VCC), HSN's Pediatric/NICU department, and SickKids to systems-test the new teleconferencing software to be installed at HSN.

This included running a neonatal simulation case and adaptatiing an observer and latent safety threat checklist to optimize integration before real-life patient implementation.



CONTINUED ROBUST SIMULATION PROGRAMMING



Anesthesia Boot Camp (ABC):

This high intensity, high-fidelity simulation course draws national attention, bringing Family Practice -Anesthesia residents from across the country to HSN's Sim Lab for this multiday course run by the Anesthesia department.

The course showcases airway and anesthesia management emergencies with startling realism and great attention to detail. This is both the first and the longest running high-fidelity simulation course offered at the Sim Lab.

Concepts in Critical Care:

With the growing need for critical care management skills and a workforce stretched thin from the pandemic, this simulation course offers crisis management and hands-on learning to Registered Nurses, Respiratory Therapists, and Physician Assistants across the vast region of Northern Ontario.

The content and high-fidelity cases are uniquely tailored to the equipment and human resources of the participant's community setting.





Critical Care Crash Course:

HSN's Sim Lab in collaboration with the departments of Critical Care, Emergency Medicine, Anesthesia, Thoracic Surgery and Obstetrics/Gynecology have developed this unique, jam-packed, four-day simulation and skills course focusing on the care of the critically ill for residents and physicians in practice in Northern Ontario.

Learning focuses on crisis management, skill acquisition, leadership, and team performance.

CONTINUED ROBUST SIMULATION PROGRAMMING



Emergency Medicine Simulation Programming:

Impressive moulage and real-life cases bring the learning alive with the robust Emergency Medicine programming for undergraduate, post-graduate and current health care providers.

Programming ranges from teaching important skills like suturing, interprofessional code blue training, and complex trauma cases. The dedication and excitement of the teaching faculty and staff are inspiring.

Obstetrics and Gynecological Programming:

Important surgical skills, critical thinking and hands-on birthing practices are highlighted in the unique programming lead by the Obstetrics and Gynecology department.

Learners can practice various crucial skills in the safe space of the Sim Lab.



CREATIVE CORNER

- "Moulage" applies special effects to replicate illnesses, injuries, and other effects for training healthcare personnel in simulation.
- Our HSN Simulation Technicians have recently created a Moulage Catalogue that showcases the vast array of realistic cosmetics that can be created at our simulation laboratory using silicone, foam, 3D printing, makeup, and other materials.
- Not only does this document speak to the creativeness and skillful hands of our staff, but also to our ability to create high fidelity simulations!



Several May 23/1

HSN Simulation Lab

Moulage catalogue Faculty edition

RESEARCH & SCHOLARLY WORK

HSN Simulation Lab Research & Innovation Spotlight Evening:

On October 7th, we hosted a showcase of the amazing research and innovations occurring at or with the HSN Simulation Lab. Presenters and dozens of attendees from local clinical, research and academic institutions came together to network and learn more about simulation-based research.

We are published!

The HSN Simulation Team has a chapter on neonatal moulage published in the American Academy of Pediatrics, "Neonatal Simulation: A Practical Guide."

Representation at the Royal College Simulation Summit:

The Simulation Educators presented a workshop and an Emerging Investigator's presentation at the annual Simulation Summit. Holly's abstract for her Emerging Investigators presentation was published in the Advances in Simulation November 2021 issue.

The HSN Sim Lab continues to support grant-funded research.

Email <u>simeducators@hsnsudbury.ca</u> for more information.

Highlight of Grant Funded Sim Lab Research Studies

Social Justice in Emergency Simulation

Study at a Glance:

Aiming to create cases and an adapatable educational framework for simulation education that integrates patient voice and representation for social justice initiatives distinct to Northeastern Ontario

Interdisciplinary Code Blue Simulation

Study at a Glance:

Aiming to improve team efficency, CPR quality, and adherence to bestpractice standards for Advanced Code Blue response teams for cardiac arrest care through simulation



Study at a Glance:

Aiming to determine the impact and effectiveness of a robust critical event simulation course for non-physician healthcare providers working in rural and underserviced areas in Northeastern Ontario



For additional information on other grant-funded simulation research studies involving the HSN Sim Lab, please contact <u>simeducators@hsnsudbury.ca</u>

FUTURE DIRECTIONS

Our historic move into the new building offers the Simulation Lab staff an opportunity to review our practices and programming. We continue to engage with our key stakeholders to ensure that the Simulation Lab is meeting the needs of our learners and partners. In the true spirit of simulation education, we welcome feedback and are committed to process improvement.

In 2022-23, we look forward to continually strengthening our collaborations with our academic partners through joint research projects and educational programming. We will strive to incorporate Social Justice principles into simulation cases and debriefing opportunities.

Interprofessional simulation-based education is gaining momentum at HSN through the Interprofessional Code Blue Training research project and the Pediatric Critical Care simulations. It is exciting to see the level of engagement in staff and learners who participate in these projects as it renews a spark in frontline workers who have carried a large burden throughout this pandemic. It is encouraging to see the offshoots of this project, like the development and mentorship of debriefers from different disciplines and the development of an interprofessional debriefing format.

As an Accredited Simulation Lab of the Royal College of Physicians and Surgeons of Canada, we want to expand our role as a regional resource for Northeastern Ontario and partner with Thunder Bay and Northwestern Ontario. As we have developed our ability to conduct virtual simulations, virtual simulation education training, and tele-debriefing, we feel confident there are new opportunities for collaborations with our rural, remote and Northern partners.

The Simulation Lab will try to engage new departments and faculty to help build simulation opportunities for learners. We will highlight the task trainers and procedural skills available at the Sim Lab and will launch our Procedural Suite Pilot program for this purpose. The AV-IT equipment at the new site creates the potential to live stream operations for real-time viewing for learning purposes. The Sim Lab also has cadaver capabilities to support learning events for orthopedic surgeries, emergency procedures and anatomical learning.

We continue to promote student engagement and the bridging of knowledge through our Specialist High Skills Major (SHSM) health and wellness programming, Cambrian College third-year BScN community placement, and Cambrian College Mechanical Technician volunteership. We remain committed to promoting rich simulation learning experiences through student engagement with all levels and disciplines of medical learners in the North.

ALIGNING WITH HSN AND NOSM UNIVERSITY STRATEGIC GOALS & DIRECTIONS



Directions

Transform Health Human Resource Planning

Advance Social Accountability

Innovate Health Profession

Strengthen Research Capacity in Northern Ontario In 2020, HSN and NOSM University announced the signing of a five-year affiliation agreement.

The agreement focuses on shared responsibility for excellence in health professional education, resources, operational effectiveness, funding and collaborative research and strategic planning.

Commitment:

The HSN Sim Lab is strongly committed to reflecting these strategic priorities in an ongoing fashion for the delivery of educational courses and research initiatives



Engagement:

Below are a few examples of some exciting activities undertaken by the Sim Lab, which align with highlighted institutional strategic initiatives

Strategic Simulation Laboratory Initiatives

✓ <u>Systems-tested</u> the Pediatric Virtual Critical Care model in collaboration with SickKids

- Performed <u>quality improvement initiatives</u> to ensure inter-professional representation
- Awarded a research grant to develop imbued social justice simulations that integrate patient and community partner voices
- Acquired two darker skin-toned manikins to <u>widen representation</u> reflective of the Northeastern Ontario population
- Offered <u>131 Simulation Events</u> and engaged <u>11 distinct HSN medical disciplines</u>
- Hosted a <u>research and innovation</u> spotlight evening, establishing a <u>network</u> in simulation-based research (attendees included various local research stakeholders)



Be Patient and Family Focused

Be Digitally Enabled

Be Socially Accountable

Support and Develop our People

Strengthen our Academic and Research Impact

UNDERGRADUATE MEDICAL EDUCATION AND PHYSICIAN ASSISTANT STUDENTS

2021 brought back some normalcy for undergraduate medical education. The 4th year medical students, who spend their last year in hospital, returned to 4 week rotations in core disciplines. The first and second year medical students also returned to HSN for their community learning sessions, electives and special education experiences. In September of 2021, the physician assistant students returned to HSN to complete their clinical training.



Medical student electives are still on hold on a national level through to the end of 2022/2023 class year, continuing the reduction of Medical Trainee Days (MTD) versus pre-pandemic numbers.

POSTGRADUATE MEDICAL EDUCATION

As one of the major academic health sciences centres, HSN took part in the regular accreditation review of NOSM University's Postgraduate Medical Education in November 2021. Accreditation of all postgraduate residency programs was granted. HSN looks forward to continuing its affiliation with NOSM University.

HSN recognizes the contributions and dedication of the residents who learn at HSN. Their ongoing commitment to healthcare both personally and professionally, has been extraordinary, especially during the last 24 months of the pandemic. We understand that completing their training while navigating the pandemic has not been easy. We are thankful for their steadfast determination.

MEDICAL LEARNER TRAINEE DAYS (BY FISCAL YEAR)

	2019-2020	2020-2021	2021-2022
Postgraduate Yr 1	6049	6705	5932
Postgraduate Yr 2	4497	5886	5750
Postgraduate Yr 3	3496	3260	3122
Postgraduate Yr 4	1201	1563	1571
Postgraduate Yr 5	834	1055	1290
Postgraduate Yr 6	56	0	0
Postgraduate Yr 7	0	29	0
International Medical Graduate	0	0	17
Undergraduate Yr 1	273		70
Undergraduate Yr 2	1045		652
Undergraduate Yr 3	361	14	62
Undergraduate Yr 4	7838	5802	7447
Physician Assistant Yr 2	569	236	577

Total:	<u>26219</u>	<u>24550</u>	<u>26490</u>
--------	--------------	--------------	--------------



ACADEMIC AND RESEARCH IMPACT

Academic Affairs includes medical learners from NOSM University and allied and non-allied learners from more than 50 post-secondary institutions across Ontario/Canada. Annually HSN accommodates over 1500 allied and non-allied placements across the organization. HSN also hosts professionals from partnering facilities to update their skills with HSN staff. Academic Affairs has implemented INPLACE, a student web-based hub that links post-secondary institutions with HSN to streamline placement process from start to finish. Below is an overview of the post-secondary institutions/disciplines accommodated over the last year.

Academic Institution	Program	Academic Institution	Program
Burwin Institute	Echocardiology	Laurentian University	
			Biomedical Internship
Cambrian College			BSCN Group
	Addictions and Mental Health Worker		BSCN Precepted Acute
-	BSCN Group		BSCN Precepted Community
	BSCN Precepted Acute		Indigenous Bachelors of Social Work
	BSCN Precepted Community		Kinesiology
-	Child and Youth Care Worker		Psychologist
	Human Resources		Social Worker Bachelors
	MRI	McGill University	
-	MRT (Medical Radiation Technologist)	•	Geneticist
-	Occupational Therapist Assistant	McMaster University	
-	Paramedic	-	Midwifery
	Paramedic - Advanced	Michener Institute	
	Physiotherapist Assistant		Chiropodist
	RPN Group		Perfusionist
	RPN Precepted		Radiation Therapist
	Ultrasonographer	Nipissing University	· · ·
Canadore College			BSCN Collaberative
	Respiratory Therapy		BSCN Precepted Acute
College Boreal			RPN to BSCN Blended Group
U	MRT (Medical Radiation Technologist)		RPN to BSCN Blended Program Precepted
-	RPN Group	Northern Ontario School of Medicine	
-	RPN Precepted		Dietitian
	Ultrasonographer		Occupational Therapist
CTS Canadian Career Co			Physiotherapist
	Addictions and Mental Health Worker		Speech Language Pathologist
	MLT/A -Medical Laboratory Technician/Assistant	Ryerson University	
	Paramedic		BSCN Collaberative
	Payroll		Health Service Management
	Pharmacy Technician	Trillium College	
	Secretary - Administrative	-	MLT/A -Medical Laboratory Technician/Assistant
	Secretary-Medical	TriOS College	
Fleming College		-	Secretary-Medical
	RPN Precepted	University of Saskatchewan	
Guelph-Humber Colleg	e	-	Pharmacist
· · · · · · · · · · · · · · · · · · ·	Kinesiology	University of Toronto	
Lambton College		-	Pharmacist
	Pharmacy Technician	Western Regional School of Nursing	
			BSCN Precepted Acute
			BSCN Precepted Community

THE HEALTH SCIENCES LIBRARY IN 2021

In 2021 the Health Sciences Library maintained the high-standards of its services and resources during another year of changes. With years of experience providing its services and resources electronically, the Health Sciences Library has a strong virtual footprint. Library online resources such as databases, journals, and the Library's catalogue are accessible via links on the Library's Hub Page and external webpage.

Assistance with literature searches, article/document/book retrieval, training on resources, and any other requests for information is available by filling out an online request form, clicking the "Request from HSL/Library" link in the database, by sending a request to library@hsnsudbury.ca, or by contacting the Library Supervisor.

When the Library lost its physical footprint in December of 2021, the pivot to the online/virtual environment for the Library services and resources was seamless. However, for the health care professionals, medical learners, and other library users, they had lost their "oasis" - a quiet place for study and reflection.

LIBRARY REQUESTS

In 2021, the Library received 1062 requests for articles. literature searches. abstracts. books. miscellaneous documents and reports (see chart for breakdown by Profession). To fill these 1062 requests, 8513 items were retrieved from the Library's journal and database collections, via the Interlibrary Loans Service, and from resources varietv of other а available in the Library's collections.



288 of these were requests for literature searches and 1666 of these retrieved items were COVID-19 related articles.

21

LIBRARY ACTIVITIES

- ✓ What Your Peers are Publishing bibliographies were compiled and posted in February 2021, August 2021 and January 2022. HSN, Health Sciences North Research Institute (HSNRI) and Northeast Cancer Centre (NECC) physicians, nurses, health care professionals, staff and researchers published 155+ articles in 2021.
- ✓ The Table of Contents Service (TOCs) distributed 2909 tables of contents in 2021, an average of 242 monthly. This service supports the HSN, HSNRI and NECC employees, medical staff, learners and researchers in continuing their professional development and certifications.
- ✓ The COVID-19 Resources Collection continues to reside on the Library's Hub Page to assist health care workers in staying current on topics related to COVID-19 (includes journals, Best- Practice (BP) and Evidence-Based (EB) databases).
- ✓ Starting in 2017, the Library has worked with the Mental Health and Addictions Program (MHAP) to maintain, process and circulate materials from their MHAP CBT Course Collection - 2021 welcomed its 3rd cohort.
- The Library's collaboration with MHAP expanded in 2021 as two new collections (the OSP Core Collection and the OSP Reference Collection) were created for their NEW Ontario Structured Psychotherapy Program.
- ✓ The Library continues to catalogue and process books and other materials for the Voices for Women's Client Collection. This collection currently has over 747 items.





Labelle Innovation and Learning Center | Centre d'innovation et d'apprentissage Labelle Health Sciences North | Horizon Santé-Nord Ramsey Lake Health Centre | Centre de santé du lac Ramsey

41 Ramsey Lake Road | 41, chemin du lac Ramsey Sudbury, Ontario P3E 5J1 T: 705-523-7100

academicaffairs@hsnsudbury.ca

simlab@hsnsudbury.ca

hsnsudbury.ca