BCIT® BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY
A POLYTECHNIC INSTITUTION

school of health sciences
part-time studies program guide
september 2002 to june 2003

part-time studies calendar

www.health.bcit.ca

part-time studies calendar

www.health.bcit.ca

Term dates

Session 2002/2003

Fall
term starts Sept. 9, 2002, ends Nov. 30, 2002
Winter
term starts Jan. 6, 2003, ends March 29, 2003
Spring
term starts April 7, 2003, ends June 28, 2003

Registration start and end dates

Fall
registration opens June 3, 2002, closes Sept. 6, 2002
Winter
registration opens Oct. 28, 2002, closes Jan. 3, 2003
Spring
registration opens February (date to be determined),
and closes the Friday prior to term start (April 4, 2003)

Sneak Preview is Friday prior to registration opening dates.

To find out more about us

E-mail: health@bcit.ca
Web: www.health.bcit.ca

For general BCIT information

Web: www.bcit.ca

To register

Online: www.bcit.ca/AdmissionsRegistration/pts
Telephone: 604-451-6733 or 1-800-663-6542 ext. 6733

welcome

Welcome to BCIT's School of Health Sciences!

Instant global access to information and rapid technological change make these very interesting times. Add to this progress the current economic challenges, and the need for leadership at all levels in health care becomes very apparent. BCIT programs will assist you to position yourself so that you can influence clinical and management practice.

Good luck with your studies and your career.

George Eisler

Dean, School of Health Sciences

contents

quick reference

All telephone numbers listed in this booklet can be called toll-free at 1-800-663-6542. After the prompt, enter the last four digits of the person or department you wish to reach.

Health Care Management

Health Care Management
604-451-7117
Jennifer_Perry@bcit.ca

Clinical Research
Health Care Quality Management
Health Information Systems Technology
Health Technology Management
604-456-8087
Gail_Hourigan@bcit.ca

Bachelor of Technology in Management – Health Specialty
604-432-8658
mgmtdegr@bcit.ca

Health Care Management
Fax: 604-434-3261

Health Technologies

Adult Echocardiography
Biomedical Engineering
604-451-7117
Jennifer_Perry@bcit.ca

Basic Health Sciences
Medical Imaging
Nuclear Medicine
604-432-8727
Victoria_Banham@bcit.ca

Occupational Health and Safety
604-432-8429
Diane_Pollock@bcit.ca

Cardiology
Cardiovascular
604-451-7137
Teana_Wong@bcit.ca

Health Technologies Fax: 604-435-5153

Nursing Specialties

Bachelor of Technology in Specialty Nursing
604-451-7100
specnurs@bcit.ca

Critical Care
Core Courses
604-451-7103
Joan_Nielsen@bcit.ca

Emergency
Nephrology
604-451-7094
Maya_Heskia@bcit.ca

Neonatal
Perinatal
Pediatric/Pediatric Critical Care
604-432-8982
Sheila_Torgerson@bcit.ca

Occupational Health
Perioperative
Donna_Mitchell@bcit.ca

***Nursing Specialties Fax:* 604-604-454-9731**

Bachelor of Technology in Nursing

604-432-8853
Dina_Bedard@bcit.ca

To receive a brochure on any of these programs, call or e-mail one of the above contacts.
Check our Web site for up-to-date information.

British Columbia Institute of Technology
3700 Willingdon Avenue, Burnaby, B.C., Canada V5G 3H2
Annual distribution of this brochure allows students to plan courses in advance.

BCIT School of Health Sciences offers courses in September 2002, January 2003, and April 2003 terms unless otherwise indicated.

registration checklist

Learning at BCIT made easy

- ☑ Visit program of interest Web site.
- ☑ Explore program content.
- ☑ Relate program requirements to your skills and background.
- ☑ You must be a Registered Nurse prior to taking any clinical Nursing Specialty courses.

Prerequisites

- ☑ Note and check that you meet the prerequisites.

fact You are responsible for having all prerequisites or equivalent knowledge for each and every course that you choose. Any particular course will not cover content of lower level courses, as you are expected to have met the prerequisites. If you do not have the prerequisites, you are unlikely to be successful in that course. Be sure that you are registering in the appropriate level.

Course Identification

- ☑ Identify the subject code and course reference number of the course(s).

fact Each course has a unique subject code and course reference number. A subject code is represented by four letters and four numbers. A course reference number is represented as a five digit number.

Request approval to register

- ☑ You must obtain program head approval for some courses before registering. Contact the program head or program assistant for your program to obtain this approval.
- ☑ Expect a response in two to five business days. During the week prior to the course start date, BCIT will process approvals as they are received.

Obtain a BCIT student ID

- ☑ If you are new to BCIT and do not have a BCIT student ID, you can obtain your student ID by completing the online form through the BCIT Student Information System (on our Web site at www.bcit.ca).

Prepare for your course

- ☑ Read the BCIT School of Health Sciences Student Handbook.
- ☑ Review your study skills
- ☑ Review BCIT Library – Distance Education Services and Resources.

Register for your course

- ☑ Register through the Internet, or by telephone, mail, or fax. BCIT processes registrations instantly when received through the Internet.*
- ☑ Note the start and end dates.

* refer to 'How to Register,' below

Materials ordering

fact Some courses include "optional" materials, indicating a choice in ordering and paying for them at the time of registration. Whether or not you choose to order these materials from BCIT, they are required in the course.

Delivery of learning materials

- ☑ BCIT ships materials in the month prior to your course start date. If you submit your registration via the Internet during this time, you will receive your materials within approximately five to seven business days.

fact To ensure you receive your course materials on time, register for your course(s) a minimum of two weeks prior to term start. BCIT sends course materials via mail or courier. We do not provide in-person pickup. Registration cutoff is the Friday prior to term start. Any registrations occurring within the week prior to term start will result in materials arriving after the term start date. In this case, no extensions are granted. The responsibility is yours to ensure any/all missed course time is made up.

Questions

- ☑ For administrative issues regarding fees, registration or course materials, (textbooks, CD-ROMs, reading packages, etc.), contact the program assistant.

How to Register

Now that you have completed the registration checklist, get started on registering for your course...register for Part-time Studies courses in five ways:

1. **Online Registration** – easy, secure, quick: www.bcit.ca/AdmissionsRegistration/pts/
2. **Telephone Registration** – be patient, your call will be answered. Call Part-time Registration at 604-451-6733 or toll-free 1-800-663-6542 x 6733
3. **By Fax** – easy, direct and fast: Complete the enclosed Registration Form and fax it to 604-430-1331.
4. **In Person** – Register in person at the Registration Office, Building SW-1, BCIT Burnaby Campus. Pay by VISA, MasterCard, American Express, cheque, debit card or cash.
5. **By Mail** – Complete the enclosed Registration Form and mail it with your cheque (sorry, no post-dated cheques) or credit card number to:

   BCIT Registration
   3700 Willingdon Avenue
   Burnaby, B.C. V5G 3H2

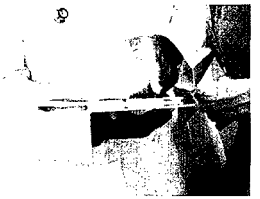
fact Payment must be made at the time of registration. All prices and course availability are subject to change without notice.

Student Services on the Web

See what you can do online at www.bcit.ca!

- sneak preview courses prior to registration opening
- register for your courses instantly
- access the BCIT Part-time Studies flyer
- check your grades online
- contact a program advisor
- receive the most current tuition and materials information
- contact your program assistant at www.health.bcit.ca
- check out upcoming information sessions
- access downloadable forms
- download the BCIT School of Health Sciences Student Handbook
- change your address
- view a map of the BCIT Burnaby Campus

administrative matters



Planner/Scheduler

Session 2002/2003

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Exam Schedule

5th week	of class start date*
7th week	of class start date*
9th week	of class start date*
13th week	of class start date FINAL EXAM*

*Request to Write Examination at BCIT: Write exams only on the Monday of the fifth, seventh, ninth and thirteenth week of your course. If Monday falls on a holiday, the exam is scheduled on the Tuesday.

*Request to Write Examination Off-Campus: Exam writing dates and times are flexible and can be rescheduled between proctor and student if the original time is not convenient. The only exception to this flexibility is the writing date of all final exams. You must write final exams on or before the end of the term.

Examination Dates and Procedures

Take immediate note of the number of exams in your course and the suggested dates for writing them. Decide when, where and how you will write your exam. You must inform BCIT by completing a Request to Write Examination at BCIT form if you wish to write at the Burnaby Campus, or a Request to Write Examination Off-Campus form if you wish to write using a professional as a proctor at the location of your choice.

You must complete all examinations within the allotted term dates. BCIT does not return your examinations to you after marking.

Assignments

Read the Course Outline at the beginning of your Course Manual. Pay particular attention to the section titled Student Evaluation, which lists any course assignments. Note the due dates of your assignments; marks may be deducted for late assignments.

Online Access

For all of our online courses, BCIT provides access only from the start date of the course. Access courses at http://online.bcit.ca

Online Course Information

Courses delivered via the Internet allow you to complete all course activities online. These activities include assignments, cases, team discussions and projects, quizzes and midterm exams. These courses also provide an instructor or tutor.

Prior Learning Assessment and Recognition

Applicable to Nursing Specialty students.
If you have already taken applicable credit-granting courses or non-credit granting courses in a nursing specialty, or if you have experiential learning in the specialty to which you are applying for certification, you may be eligible for prior learning assessment and recognition (PLAR).

Credit-based courses

If you have obtained credits applicable to your specialty from a recognised Canadian university or college, they can be assessed for transfer of credit. You must include with your application form an official transcript of course(s) taken and course outline(s).

Non-credit based learning

If you have taken non-credit courses and/or have previous experience in a specialty, you can apply for PLAR by

a) applying for credit from non-credit based courses

b) submitting a portfolio of your experience, or

c) challenging courses in the program.

If you are interested in either a) or b) of these options, contact the program head of the specific specialty. If you are interested in c), register in the 'challenge' section of the course. As a challenge student, you receive the course material, and must write a comprehensive assignment(s) and/or exam before the end of the term in which you are registered. If you challenge successfully, we grant you the appropriate credits. Should your challenge prove unsuccessful, you can register for the course in the following term. For more information on PLAR, contact the program head of your specialty.

Clinical

BCIT offers clinical courses at clinical sites throughout B.C. on a full-time or part-time basis: you may negotiate individually any clinical placements outside of B.C. If you did not receive a registration/application package in the prior theory course, contact the appropriate program assistant. BCIT must receive application and fees by:

- July 15 for the September term
- Nov. 15 for the January term
- Feb. 15 for the April term.

fact BCIT does not refund fees for clinical courses. The program head must receive an application/approval form prior to registration.

Compressed Time Frame Programs

BCIT makes special arrangements with hospitals and/or institutions for some courses in a "compressed time frame" format. Contact the specialty's program head to confirm that CTF courses are available and to make arrangements. Refer to the list of contact numbers on the inside front cover for telephone numbers.

Re-registration

If you are registered in a distance education theory course but are unable to complete the course within the 12-week term, you may ask for the one-time option of re-registering into the following term. You must advise your program assistant and tutor of your intention to do so, and provide a significant reason for not completing the assigned course of studies within the 12-week term. Due to the interactive/collaborative nature and team approach used in most online courses, we do not advise re-registration. To qualify, you must not have written the final examination and must demonstrate that you have started the course (i.e. submitted assignments).

Weekend

For those weekend courses requiring pre-reading, you must register six weeks prior to the start date to ensure timely delivery of materials. We cannot refund fees after course materials have been shipped.

Cancellations

BCIT may cancel courses with insufficient registration. You will then have the opportunity to transfer into another course, or, provided you return course materials unopened and in excellent condition, apply for a full refund.

Counselling Services

For academic assistance in the School of Health Sciences, call 604-434-1610 to speak to a counsellor.

OneCard

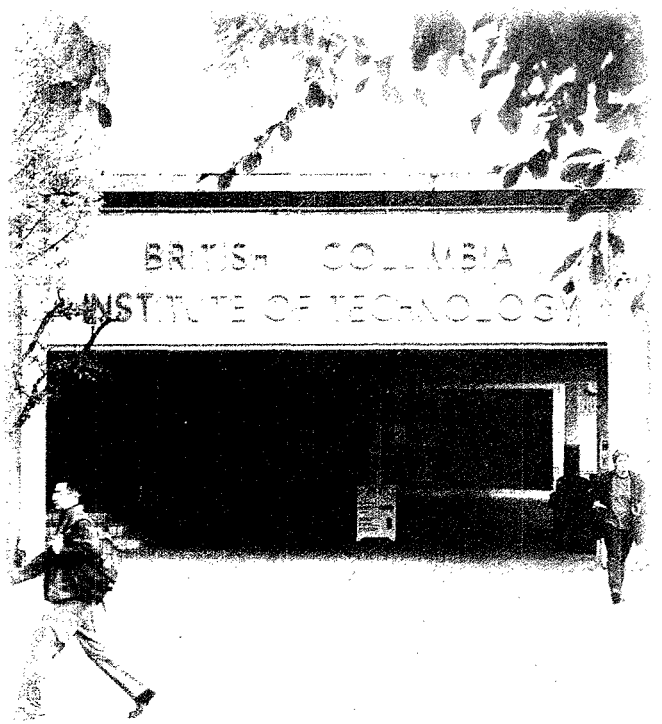
If you are a part-time student enrolled in courses of 30 hours or more, BCIT requires you to have a BCIT OneCard. The program excludes distance education, industry services and courses shorter than 30 hours. The OneCard program can take your photo and issue a card at the start of any term. The OneCard fee is $2.50 per term.

Library

As a registered part-time student, you are eligible to access the BCIT library. Check the new Library Catalogue System at www.lib.bcit.ca. For assistance by telephone, call 604-432-8371.

Parking

On the Burnaby Campus, purchase parking passes at the Cashier's Office (adjacent to Registration) or purchase daily tickets from machines in the parking lots. For further information, call the Parking Office at 604-432-8719.



finance matters

Course Payment

How do I pay for my course? Options – Internet, phone, fax, by credit card

You must pay for your course at the time of registration. There are six ways to pay for a course: (1) Cash or Interac, in person only, (2) VISA, Mastercard, American Express, (3) Cheques and money orders, (4) Letter of authorization from employer to be invoiced by BCIT, (5) Web online registration and payments by credit card through www.bcit.ca, (6) Telephone payments: 604-432-8732

If your employer is paying your course fees, the fees must be paid at the time of registration. Include a letter, detailing invoicing information, with your registration form. Unfortunately, BCIT does not accept telephone or Internet registrations when such a letter is being used for payment purposes.

BCIT reserves the right to change prices and course availability without notice. Students are reminded to refer to www.bcit.ca for current information.

Refunds

How much of a refund will I receive? How do I apply for a refund?

Course refund deadlines vary. You will receive a full refund, less 15% tuition, if you withdraw within the following deadlines:

For all paper-based distance education courses

Fall 2002	deadline date Sept. 30, 2002 to receive tuition refund less 15%
Winter 2003	deadline date Jan. 31, 2003 to receive tuition refund less 15%
Spring 2003	deadline date April 30, 2003 to receive tuition refund less 15%

For all online courses

You may drop the course and request a refund of tuition less 15% provided that you make the request within the first two weeks of term start and you return materials unopened and in unmarked condition.

If you withdraw after refund deadline dates, tuition is non-refundable. Fees for clinical courses are non-refundable.

Early Registration Refund Policy

If you withdraw 30 days prior to term start, you will receive a 100% refund.

fact This refund policy applies upon registration.

Return of Materials

BCIT will issue the refund once you have returned all materials unopened and in unmarked condition. Send materials to your program assistant:

BC Institute of Technology
3700 Willingdon Avenue, Burnaby, B.C. V5G 3H2

BCIT issues refunds only in the form of a cheque. If you have withdrawn from a course and have sent materials back to BCIT but have not received your refund cheque, call 604-432-8212.

Withdrawals

If you wish to withdraw from a course after the refund deadline date, you must do so officially. To withdraw from a Part-time Studies course prior to the refund deadline date, contact Registration at 604-451-6733. After the refund deadline date, contact Student Records at 604-451-6959.

Financial Aid

For information on financial assistance for B.C. part-time students (B.C. Grants, Canada Student Loans and out-of-province assistance), contact BCIT's Financial Aid and Awards reception in Student Services, SW1-2300, or call 604-432-8555, Monday to Friday between 0830 and 1630.

Fees

A $5 registration fee may be applied. This fee will be rebated for all registrations completed via the Web.

To continue providing the variety and quality of Part-time Studies courses, BCIT anticipates a price adjustment. For course and textbook pricing, consult the BCIT Web site at www.bcit.ca, Registration at 604-451-6733, or your program assistant.

Tuition/Texts

All tuition and text fees are subject to change without prior notice. Tuition fees for distance courses include a student activity fee. Part-time Studies classroom courses levy a building fee and a student activity fee. Text prices include GST. If you are a U.S. or international student, your fees will be higher; e.g. for a 3-credit, non-degree course, the tuition fee is $465 CDN; for a degree course, $837 CDN.

Materials ordering

fact Some courses include "optional" materials, indicating a choice in ordering and paying for them at the time of registration. Whether or not you choose to order these materials from BCIT, they are required in the course.

Shipping/Handling

BCIT charges a shipping and handling fee to cover the cost of ordering, inventory handling, assembling and shipping course materials. Delivery takes place during regular business hours (0800-1700), so you must ensure that someone is available at your shipping address to receive course materials, or delivery will be delayed and you may incur extra costs. BCIT does not deliver to post office boxes.

For non-Canadian destinations, shipping and handling fees are higher than domestic fees.

Transfer/Change

BCIT charges a $15 fee to transfer from one course to another, and from one term to another. Prior to the transfer, you must return course materials in excellent condition; otherwise, you will incur additional costs for replacement of course materials.

Prior Learning Assessment and Recognition

Applicable to Nursing Specialty students.
The fee for the PLAR manual is $15.
Credit based courses
We do not charge for assessment and transfer of credit.
Non-credit based learning
Challenging courses in the program: Register in the challenge section at 50% of the full course fee. Should your

challenge prove unsuccessful, you can register for the course in the following term, at the full course fee.

Re-registration

The fee for re-registration is 30% of the tuition fee. A minimum charge of $50 applies.

Tuition Fees for Degree Courses

BCIT policy states that degree courses be charged at $180 per credit. Fees are subject to change without prior notice. Unless otherwise indicated, BCIT offers all courses in September, January and April terms.

serious about standards

As a student attending BCIT and/or registered in BCIT courses, you are subject to all BCIT policies and procedures.

BCIT has implemented policies to ensure academic honesty and integrity. You are responsible for knowing these policies. For a complete list refer to www.bcit.ca/~presoff/catlist.htm

career services

Find work! If you are looking for full-time, part-time on- or off-campus work, remember BCIT's Student Employment Services. Register for eJobs, BCIT's online job posting system, post your resume online and e-mail employers. This service averages more than 100 new jobs per week. E-mail bcitses@bcit.ca.

Find out more about the services BCIT offers to current and past students.

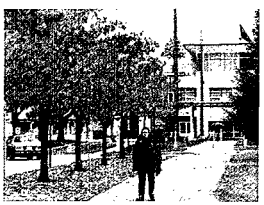
BCIT provides the following associations for its students:

- Aboriginal Programs and Services
- Disability Resource Centre
- NOW Access Centre
- Alumni Association

All of these services provide a vital communication link between students and BCIT.

symbol guide

Unless otherwise indicated, BCIT offers all courses in September, January and April terms.



Classroom

Part-time Studies classroom courses are delivered at our Burnaby and Downtown campus locations. Classroom courses may also be customised for industry and held off-campus. BCIT reserves the right to cancel courses due to insufficient registration.

Clinical

BCIT School of Health Sciences co-ordinates clinical practicum courses for post-diploma certificate programs. For further information, check with the appropriate program contact.

Guided Learning/Distance Education

Guided Learning courses are provided in distance education format: self-directed study supported by telephone tutoring. To ensure delivery of course materials, register one month prior to term start. All course materials are couriered; in-person pick-up is not available.

Online

Online learning integrates computer technologies and print-based material with telephone, fax, and e-mail access to tutorial and technical support. Courses delivered via the Internet allow you to complete all course activities online.

health care management

Department Overview

BCIT's Health Care Management department is a leading provider of up-to-date management knowledge and skills for current and potential health care managers.

We envision our graduates as specialists and leaders in their health care organizations. Established in 1970, the Health Care Management department offers opportunities for team- and program- leaders, and health care professionals, to develop management skills relevent to today's complex health care system.

Today's health care organizations are constantly required to keep up with rapidly changing technologies and knowledge. For health care professionals who already have a diploma or degree and want to augment their education and experience in specialized areas of interest, our department offers four advanced specialty certificates in an innovative online learning format. These advanced certificates are practical and leading edge. Each advanced certificate includes seven courses offered online and a final project completed in the workplace.

We offer programs at the Certificate, Advanced Specialty Certificate, Bachelor and Master levels in classroom, weekend, correspondence and online learning formats. We deliver our programs in a flexible, part-time format to allow working professionals to learn new skills while continuing to work in the health care field. We have organized our programs into two program groups.

The first group includes the **Advanced Specialty Certificate** programs. Courses in the programs meet BCIT baccalaureate level criteria and may be eligible for transfer credit within other BCIT post-diploma advanced specialty certificate and degree programs (e.g. Bachelor of Technology, Health Care Management certificates) as well as external related degree programs.

The second group includes **Level 1 and 2 Certificates, Bachelor and Master** programs. In this group you can ladder from Certificate Levels 1 and 2 programs to the Bachelor of Technology in Management-Health Specialty, then to the UBC/BCIT Masters in Health Administration.

In summary, the programs we offer include:

- Advanced Specialty Certificates
  - Clinical Research
  - Health Care Quality Management
  - Health Information Systems Technology
  - Health Technology Management.
- Certificate, Bachelor, Master Programs
  - Certificate Level 1
  - Certificate Level 2
  - Bachelor of Technology in Management-Health Specialty
  - Master of Health Administration.

Advanced Specialty Certificates

BCIT offers four advanced specialty certificates for health care professionals who want to augment their skills in specialized areas of current interest to employers. These are practical courses with current information relevant to keeping your workplace up-to-date with the latest developments. Each Certificate is 24 credits, eight courses offered by online distance education.

At a glance – Advanced Specialty Certificate Program Matrix

In the advanced specialty certificate programs, students are able to select relevant courses from other certificate programs. This process allows students from across disciplines to share experiences. You must take some courses, like Project Management in Health Care and the Integrative Project, in all of the advanced certificate programs. You can take other courses as electives.

See following page.

Health Information Systems Technology (HIST)	Health Technology Management (HTM)	Health Care Quality Management (HCQM)	Clinical Research (CRP)
Required	**HTMT 5100** Health Technology Management and the Health Care Environment	**HMGT 5700** Total Quality Management and CQI Tools	**CRPT 5001** Clinical Trials by Design
HINS 5100 Introduction to Computers and Telecommunications in Health	**BMET 7101** Medical Technology Management Practice	**HMGT 5740** Accountability Measures	**CRPT 5002** Ethical and Legal Issues of Clinical Trials
HINS 5200 Information Systems in Health Care	**HTMT 5300** Leading Technological Change and the Learning Culture	**HMGT 5760** Integrating Quality, Utilization and Risk Management	**Choose 2 or more of:**
HINS 5205 Introduction to Health Informatics	**HTMT 5500** Organizing Teams for Innovation and Organizational Flexibility	**HTMT 5300** Leading Technological Change and the Learning Culture	**CRPT 5004** Laboratory Issues for Clinical Trials
HINS 5400 Telehealth Concepts		**HTMT 5500** Organizing Teams for Innovation and Organizational Flexibility	**CRPT 5005** Mastering Study Conduct for CTs
HINS 5700 Health Information Systems and Telehealth in Clinical Practice		**HINS 5200** Information Systems in Health Care	**CRPT 5006** Recruiting Subjects and Sponsors for Clinical Trials
			CRPT 5008 Pharmacology for Clinical Trials

Management Courses Required in Each Certificate

HMGT 5500 Project Management in Health Care

HMGT 5800 Integrative Project

Electives

Choose additional management courses to complete your certificate of 24 credits

Online Courses:

- CRPT 5001 Clinical Trials by Design
- CRPT 5002 Ethical and Legal Issues of Clinical Trials
- CRPT 5006 Recruiting Subjects and Sponsors for Clinical Trials
- HINS 5200 Information Systems in Health Care
- HMGT 5640 BC Healthcare Financial Planning and Management
- HMGT 5700 Total Quality Management and CQI Tools
- HMGT 5740 Accountability Measures
- HTMT 5300 Leading Technological Change and the Learning Culture
- HTMT 5500 Organizing Teams for Innovation and Organizational Flexibility

Correspondence Courses:

- HMGT 4110 Health Care Organization Behaviour 1
- HMGT 4150 Human Resource Management
- HMGT 5120 Health Care Principles of Management

Weekend Classroom Courses:

- HMGT 4450 Team Building for Health Care Managers
- HMGT 5170 Health Care Law 1 (1.5 credits)
- HMGT 5270 Health Care Law 2 (1.5 credits) (Law 1 or CRPT 5002 as prerequisite)

All courses are 3 credits unless otherwise specified.

Clinical Research

IMPORTANT: Check for up-to-date information on course content and scheduling on our Web site at www.health.bcit.ca/CRP

Purpose

The Clinical Research program prepares health care professionals to participate in the clinical phase of human research for sponsoring pharmaceutical, medical device, and biotechnology companies. Students and graduates obtain the practical skills and knowledge base that enables them to manage and conduct clinical trials across a broad range of therapeutic areas and institutional settings.

Career Opportunities

Examples of where our graduates find employment:

- clinical research sites as clinical research coordinators; and as site, project, and data managers
- academic medical institutions as clinical research assistants
- pharmaceutical, medical device, and biotech companies as clinical research associates.

The Program

The clinical research phase of new medical products development is highly competitive and requires motivated individuals with expertise and with an eclectic range of skills. To provide the sound theoretical background needed during this phase of experimentation on humans, the CR program embraces a cross-disciplinary approach. It combines the relevant areas from medical product regulations, project management, business development, research methodology, marketing, communication and study conduct.

Program Delivery

BCIT offers the CR program under the Health Care Management department by innovative online delivery. Web-based technologies such as electronic mail, electronic conferencing, chat, and web links enable you to access course experts, information and resources at a time and place convenient for you. Through personal computers at a distance, you can solve cases with other class members, post your opinions of specific issues to a bulletin board and read a wealth of up-to-date information regarding clinical research. These are online courses so you can access them 24 hours a day, but there is a schedule for completing assignments. The assignments are a blend of individual, collaborative, and team work.

BCIT provides students with necessary resources and support such as access to BCIT's virtual library, online student orientation manuals, and access to student help using e-mail, phone, or the online.bcit.ca Web site. Access to instructors or tutors for the program is made easy through WebCT – one of BCIT's online course delivery tools. WebCT provides you with private e-mail, bulletin boards, and a chat tool that reduces the barrier of isolation sometimes felt in a distance education course.

Credential

Advanced Specialty Certificate

BCIT awards a 24-credit advanced specialty certificate.

Individual courses within the CR certificate program meet BCIT bachelor degree-level criteria.

BCIT has designed advanced credentials to provide practising health care professionals with advanced knowledge, skills and attitudes necessary for professional competence, advanced technical, clinical or management roles, or for individual growth.

Admission Requirements

These requirements ensure that students have a working knowledge of basic human anatomy, physiology and medical terminology as well as the experience of 'patient care.'

- A diploma or degree in the health care field including but not limited to nursing, physiotherapy, respiratory and laboratory technology, kinesiology, and engineering.
- English language proficiency, English 12 (B)
- Basic computer skills proficiency: word processing, e-mail, Internet. (Many hospitals offer basic computer courses for staff; check out yours.)
- Access to a computer with Internet capability.

Registration Process

If you have not yet taken a course in this program, you must obtain program head approval before registering. To register for courses or request approval to register, complete the steps listed in the registration checklist at www.health.bcit.ca/online/checklist.htm.

Program Content

Clinical Research, Advanced Specialty Certificate (24 credits)

Program Matrix

Group A: Required Courses (12 credits)

CRPT 5001 Clinical Trials by Design

CRPT 5002 Ethical and Legal Issues of Clinical Trials

HMGT 5500 Project Management

HMGT 5800 Integrative Project (formerly CRPT5009) or
CRPT5010 Guided Project in Clinical Research

Group B: Choose 2 or more of: (6 - 12 credits)

CRPT 5004 Laboratory Issues for Clinical Trials

CRPT 5005 Mastering Study Conduct for Clinical Trials

CRPT 5006 Recruiting Subjects and Sponsors for Clinical Trials

CRPT 5008 Pharmacology for Clinical Trials

Group C: Electives from HCM department (0 - 6 credits)

Correspondence Courses:

HMGT 4110 Health Care Organization Behaviour 1

HMGT 4150 Human Resource Management

HMGT 5120 Health Care Principles of Management

Weekend Classroom Courses:

HMGT 4450 Team Building for Health Care Managers

HMGT 5170 Health Care Law 1 (1.5 credits)

HMGT 5270 Health Care Law 2 (1.5 credits)
(Law 1 or CRPT 5002 as prerequisite)

Online Courses:

HMGT 5700 Total Quality Management and CQI Tools

HMGT 5740 Accountability Measures

Please use the 'Program Finder' at www.bcit.ca to locate the most up-to-date course descriptions and dates offered. Search Health Care Management for the Group C courses.

Clinical Research Course Schedule 2002–3

Course	Sep 9 – Nov 29, 2002	Jan 6 – Mar 28, 2003	Apr 7 – Jun 27, 2003
CRPT 5001	✔		✔
CRPT 5002	✔	✔	
CRPT 5004	✔	✔	
CRPT 5005		✔	
CRPT 5006	✔		✔
CRPT 5008	✔	✔	
CRPT 5010		As required	As required
HMGT 5500	✔	✔	✔
HMGT 5800	✔	✔	✔

For Group C electives, view the course schedule under Health Care Management.

Program Contacts

For more information on the BCIT Clinical Research Advanced Specialty Certificate program, please call or e-mail the contact personnel listed below or visit our Web site at www.health.bcit.ca/CRP.

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Program Head, Clinical Research
School of Health Sciences
British Columbia Institute of Technology
3700 Willingdon Avenue
Burnaby, BC V5G 3H2
604-432-8329
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Mary_Sue_Fairbarn@bcit.ca

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Program Assistant
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Gail_Hourigan@bcit.ca

Health Care Quality Management

Purpose

The advanced specialty certificate in Health Care Quality Management prepares managers and health care professionals to plan, develop and implement successful continuous quality improvement/management programs in their organizations and health care regions. Graduates enhance their health organizations' ability to move into integrated delivery of quality health care services that are accountable to clients of the system, the government and the public.

Admission Requirements

- A minimum of a two year diploma in a health profession or the Health Care Management Certificates Levels 1 and 2, or a health professional degree and two years experience in a health care setting.
- English language proficiency. English 12(B).

Registration Process

If you have not yet taken a course in this program, you must obtain program head approval before registering. To register for courses or request approval to register, complete the steps listed in the registration checklist at www.health.bcit.ca/online/checklist.htm.

Online Program Delivery

The online program uses a variety of educational media to meet the needs of today's learner. Providing this type of flexible delivery enables you to interact with the instructor, course materials and other learners at a time that is convenient for you, your family and work schedules.

We have designed it to accommodate a geographically diverse student population and be national and international in scope.

You require a computer capable of running Netscape 3.0 or higher, a modem and an Internet service provider (ISP). Students have access to technical and educational support

(e.g. tutors, mentors) via telephone, e-mail and fax, Internet links, bulletin boards and chat lines. BCIT provides students with necessary resources and support such as access to BCIT's virtual library, online student orientation manuals and access to student help using e-mail, phone, or the online.bcit.ca Web site.

Program Goals

Upon successful completion of the certificate program, you are able to:

- Manage and lead quality improvement initiatives.
- Design, organize and analyze information related to quality improvement, risk management and utilization.
- Apply problem solving skills to analyze problems and issues related to quality.
- Determine appropriate personnel and structures to solve quality problems.
- Facilitate organizational change.
- Develop integrated systems for quality, utilization and risk management.
- Develop accountability measures.
- Design appropriate organizational structures and teams to implement quality solutions.

Visit our Web site at www.bcit.ca/hcqm/.

Program Matrix

The Advanced Specialty Certificate is a 24-credit online program comprised of eight 3-credit courses.

Course		Credits
HMGT 5700	Quality Management CQI and Tools	3
HMGT 5740	Accountability Measures	3
HMGT 5760	Integrating Quality, Utilization and Risk Management	3
HMGT 5500	Project Management in Health Care	3
HINS 5200	Information Systems in Health Care	3
*HTMT 5300	Leading Technological Change and the Learning Culture	3
*HTMT 5500	Organizing Teams for Innovation and Organizational Flexibility	3
HMGT 5800	Integrative Project	3
Total Credits for Certificate		24

*HMGT 4410 or HMGT 4450 can be substituted for these courses.

2002 – 2003 Online Course Schedule
Health Care Quality Management

	Sep 9 – Nov 29, 2002	Jan 6 – Mar 28, 2003	Apr 7– Jun 27, 2003
HMGT 5700 Total Quality Management and CQI Tools	✔	✔	✔
HMGT 5740 Accountability Measures	✔		✔
HMGT 5760 Integrating Quality, Risk and Utilization Management		✔	✔
HINS 5200 Information Systems in Health Care	✔	✔	✔
HMGT 5500 Project Management	✔	✔	✔
HTMT 5300 Leading Technological Change and the Learning Culture	✔		✔
HTMT 5500 Organizing Teams for Innovation and Organizational Flexibility		✔	
HMGT 5800 Integrative Project	✔	✔	✔

Program Contacts

Lorna Romilly, Program Head
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Lorna_Romilly@bcit.ca

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Gail Hourigan@bcit.ca

Health Information Systems Technology

Health information has a key role in the new health care paradigm that requires efficient and effective health information transfer across an integrated health care system to enhance information flow and decision-making.

The successful utilization of health informatics and health information system initiatives such as telehealth, depends on health care professionals who can apply their expertise in health and medical informatics.

BCIT defines Health Information Systems Technology (HIST) as the development of systems, thinking, knowledge and competencies to bridge health information sciences, patient care and management. The HIST certificate program bridges many aspects of health informatics, health information science and health information management.

Purpose

The purpose of the Health Information Systems Technology Certificate program are:

- To provide employees in the health care system with an opportunity for career development
- To respond to the need for informed health information systems users, consumers and advocates
- To provide both training and graduates for vendors of health information systems.

The HIST certificate program includes required, elective and project courses. We have designed individual courses within the HIST certificate program to meet BCIT baccalaureate-level criteria. It is also possible that these courses will be eligible for transfer credit within other BCIT post-diploma advanced specialty certificate and degree programs (e.g. Bachelor of Technology in Management: Health Care Specialty), as well as external, related degree programs.

BCIT offers the HIST program under the Health Care Management department via Web-based technologies. We have designed it for practising health care professionals who currently possess diplomas or degrees in related

fields. It is primarily competency-based using a problem solving learning strategy. We target the program towards mature adults working in the health care system as health care providers, in health governance organizations, funding agencies or commercial vendors. Thus, learner profiles are quite varied and provide for meaningful dialogue among participants. We offer provisions for recognition of prior learning experiences through a variety of assessment strategies.

Program Delivery

BCIT offers the program at a distance, utilizing Web-based technologies to meet the needs of today's learner. This program provides you with both a knowledge base and a practical component and includes completion of a project management course and a project course. The project course provides you with an opportunity to apply problem solving skills to actual experiences in the health care setting. Courses include both theory and practice using a variety of learning activities such as case-based and problem-based approaches. We make assignments as relevant as possible to your specific discipline in the health care system, while providing an overview of applications to the health care system as a whole.

Competency-driven Program

The BCIT HIST program bases its educational competencies on those validated by the International Medical Informatics Association (IMIA) and the HEALNet Health Informatics Curriculum Development Project (McMaster University). Working from these competencies, we designed learning outcomes and activities to help graduates perform effectively and efficiently in their roles.

Problem-centred Learning Approach

Health care professionals must make sound decisions on problems and issues in health technology. This program prepares you for these challenges by providing opportunities to solve real life problems and cases. These cases and problem scenarios enable you to apply decision-making, critical thinking, and problem solving skills – critical skills for the health care professional.

Web-based Technologies

Web-based technologies such as electronic mail, electronic conferencing, chat, and Web links enable you to access course experts, information, and resources at a time and place convenient for you. Through personal computers at a distance, you can solve cases with other class members, post your opinions of specific issues to a bulletin board, and read a wealth of up-to-date information regarding health information systems technology.

Entrance Requirements

- A minimum two-year diploma of technology (e.g. Nursing, Medical Laboratory, Medical Imaging, etc.) or equivalent,

or

- A degree in health care or a related field or equivalent, and
- Two years experience in a health care setting.
- We also consider a suitable combination of work experience and education (as determined by the program area).
- English language proficiency, English 12(B).

Registration Process

If you have not yet taken a course in this online program, you must obtain program head approval before registering. To register for courses or request approval to register, complete the steps listed in the registration checklist at www.health.bcit.ca/online/checklist.htm.

Program Length

Complete the program via Part-time Studies. We have designed it for you to complete in approximately 24 months.

Tuition Fees

Canadian Students: $180/credit (CDN$)
International Students: $279/credit (CDN$)

Credential

BCIT awards a 24-credit advanced specialty certificate. You may credit individual courses taken prior to registration in the certificate program to the certificate credential. We have designed advanced credentials to provide practising

technologists with advanced knowledge, skills and attitudes necessary for professional competence, advanced technical, clinical or management roles, or for individual growth.

Upon successful completion of the requirements for certification, you must apply to the registrar to be granted the advanced specialty certificate credential.

We have designed individual courses within the HIST certificate program to meet BCIT baccalaureate-level criteria and be eligible for transfer credit within other BCIT post-diploma advanced specialty certificate and degree programs (e.g. Bachelor of Technology, Health Care Management) as well as external degree programs.

Program Matrix

Course		Credits
Required		
HINS 5100	Introduction to Computers and Telecommunications in Health	3
HINS 5200	Information Systems in Health Care	3
HINS 5205	Introduction to Health Informatics	3
HINS 5400	Telehealth Concepts	3
HINS 5700	Health Information Systems andTelehealth in Clinical Practice	3
HMGT 5800	Integrative Project	3
HMGT 5500	Project Management in Health Care	3
Electives (one of the following)		
HTMT 5300	Leading Technological Change andThe Learning Culture	3
HTMT 5500	Organizing Teams for Innovation and Organizational Flexibility	3
Total Credits for Certificate		24

Please use the 'Program Finder' at www.bcit.ca to locate the most up-to-date course descriptions and dates offered.

Program Contacts

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Visit Our Web Site

Information in this publication is subject to change. For current information, visit our Web site at www.health.bcit.ca/HIST/.

Health Technology Management

In today's economy, the effective use of technology increasingly determines the success of an organization. The rapid introduction and obsolescence of new technologies, the strategic use of technology for competitive advantage, and the need for constant learning have increased the need for senior level managers with strategic technology management skills.

Likewise, health care managers must manage technological change and use technology effectively, yet align with the unique social and economic context of the health care organization. From the global perspective, the situation is also critical – health care technology in many developing countries is often wasted, inappropriate, or in need of repair.

These rapid changes increasingly require decision-makers in regional, national, and international health care organizations to demonstrate competency in managing health technology to support their organization's goals and to contribute to the health status of their patient populations.

Purpose

BCIT has designed the Health Technology Management (HTM) Advanced Specialty Certificate program to provide the health care professional with the fundamental knowledge and skills of technology management in the health care setting. We have developed this profile of knowledge and skills in accordance with the curriculum suggested by the World Health Organization (WHO).

Program Length

To earn the certificate in HTM, you must successfully complete seven 3-credit courses and one 3 credit project, for a total of 24 credits. Generally, course participants who work full-time complete one to two courses per term; thus it takes two years on average to complete the certificate program.

Credential

Graduates of this online Part-time Studies program earn an Advanced Certificate in Health Technology Management (HTM). Individual courses in the HTM advanced specialty certificate program meet BCIT bachelor degree-level criteria to allow laddering within other BCIT post-diploma advanced specialty certificate and degree programs as well as external degree programs. Upon successful completion of the requirements for certification, you must apply to the registrar to be granted the advanced specialty certificate credential.

Career Opportunities

Upon successful completion of this program, you will be competent in aligning health technology with the strategic goals of your organization. Your skills will be in demand in the following health care fields:

- Health policy planning and implementation of health technology assessment programs for public sector and consulting organizations.
- Technology management in corporations that research or produce health care technologies and/or pharmaceuticals.
- Policy advising in government institutions responsible for solving health technology problems.
- Technology decision-making within middle and senior levels of health care organizations.

Admission Requirements

These requirements apply to individual courses as well as admission to the program.

- A diploma or degree in a health or business-related field, including but not limited to nursing, laboratory technology, engineering, and health care management.
- English language proficiency, English 12(B).
- Relevant work experience.
- Access to a computer with Internet capability. We recommend a Pentium level computer running Netscape 4.0 or higher (except 6.0) or Internet Explorer 4.0 or higher.

Registration Process

If you have not yet taken a course in this online program, you must obtain program head approval before registering. To register for courses or request approval to register, complete the steps listed in the registration checklist at www.health.bcit.ca/online/checklist.htm.

Program Delivery

We completed the design and development of this program with advice from a team of experts from the health technology assessment and technology management fields, instructional designers, technical advisors, writers, and graphic designers. Our team approach to program development ensures that you receive a program designed to meet your needs and the needs of technology management in health care.

Competency-driven Program

BCIT bases the educational competencies for the HTM program on a content analysis of the 'best practices' in the Management of Technology (MOT) and health-related technology management literature. We have developed this competency profile in accordance with the curriculum suggested by the World Health Organization (WHO).

Problem-centred Learning Approach

As a health care professional, you will be faced with problems, challenges, and issues in health technology management that require you to make sound decisions every day. This program prepares you for these daily challenges by providing you with opportunities to solve real life problems and cases. These cases and problem scenarios will enable you to apply decision-making, critical thinking, and problem solving skills – essential skills for the health care professional.

Web-based Technologies

Web-based technologies such as electronic mail, electronic conferencing, chat, and Web links enable you to access course experts, information, and resources at a time and place convenient for you. At a distance, you can solve cases with other class members, post your opinion of specific issues to a bulletin board, gain insight into international health technology management concerns, read a wealth of up-to-date information regarding health technology management – all with the click of a mouse.

Program Matrix

Course		Credits
HTMT 5100	Health Technology Management and the Health Care Environment	3
BMET 7101	Medical Technology Management Practice	3
HTMT 5300	Leading Technological Change and the Learning Culture	3
HTMT 5400	Balancing the Product/Service Innovation Process with Health Technology Assessment	3
HTMT 5500	Organizing Teams for Innovation and Organizational Flexibility	3
HMGT 5500	Project Management in Health Care	3
HTMT 5700	HTM Strategy, Technology Scanning, and the Executive Role	3
HMGT 5800	Integrative Project	3
Total Credits for Certificate		24

Note: We are developing some of these courses. Please consult the Health technology Management program Web site for updates on the program: www.health.bcit.ca/HTM.

Please use the 'Program Finder' at www.bcit.ca to locate the most up-to-date course descriptions and dates offered.

Program Contacts

For more information on the BCIT Health Technology Management Advanced Specialty Certificate program, call or e-mail the people listed below or visit our Web site.

Shan Satoglu, Program Head
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3700 Willingdon Avenue
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Fax: 604-434-3261
Shan_Satoglu@bcit.ca
www.health.bcit.ca/HTM

Gail Hourigan, Program Assistant
604-456-8087
toll-free (1-800) 663-6542, ext 8087
Fax: 604-435-5153
Gail_Hourigan@bcit.ca

HCM Certificate, Bachelor and Master Programs

Certificate Program, Level 1

(24 credits)

To achieve certification, you must complete 24 credits (288 hours) of courses. Courses offer management principles, skills and practice in their application.

Certificate Program, Level 2

(21 credits)

After achieving the 24-credit Health Care Management Certificate program

(Level 1), you can complete this 21-credit (252 hours) Level 2 program. This program is designed to increase your breadth of knowledge through new subject material and your depth of knowledge through advanced subjects. You can then solve problems using theory and skills gained in earlier mandatory courses.

We have designed the Health Care Management certificate program for health care professionals in a management position who wish to upgrade their management skills.

Admission Requirements

- A certificate, diploma or degree in a health-related field
- Work experience in a health organization
- English language proficiency according to BCIT policy

We recommend that students take three courses prior to applying for entry into the program.

For application forms, contact:
Lorna Romilly, Program Head
604-451-6848
toll-free (1-800) 663-6542 ext 6848
Lorna_Romilly@bcit.ca

Note: The certificate program has been reorganized. If you are currently enrolled, you will be accommodated. Contact the program head for more information.

Program Matrix

Certificate Program Level 1 (24 Credits)

Certificate Program Level 1 requires 18 credits of mandatory courses and 6 credits of elective courses.

Mandatory Courses		Credits
HMGT 4110	Health Care Organizational Behaviour 1	3
HMGT 4150	Human Resource Management	3
HMGT 4160	Health Care Labour Relations 1	1.5
HMGT 5120	Health Care Principles of Management	3
HMGT 5160	Health Care Labour Relations 2	1.5
HMGT 5180	The Canadian Health System (combines 4180 + 4280)	3
HMGT 5640	B.C. Health Care Financial Planning and Management	3
Electives		6

Certificate Program Level 2 (21 Credits)

Certificate Program Level 2 requires 12 credits of mandatory courses and 9 credits of elective courses

Mandatory Courses		Credits
HINS 5200	Information Systems in Health Care	3
HMGT 5170	Health Care Law 1	1.5
HMGT 5270	Health Care Law 2	1.5
HMGT 5700	Total Quality Management and CQI Tools	3
HMGT 5800	Integrative Project	3
Electives		9

Electives can be taken in Health Care Management, the Advanced Specialty Certificates or the Business program or at other educational institutions with approval.

If you are enrolled in the previous certificate program, please contact Lorna Romilly, program head to work out a plan for completing your certificate.

Master of Health Administration (MHA)*

UBC in collaboration with BCIT

Program Matrix

The BCIT portion (first year) of the program requires 50 credits.

Courses		Credits
Required		
HMGT 4150	Human Resource Management	3
HMGT 4160	Health Labour Relations 1	1.5
HMGT 5160	Health Labour Relations 2	1.5
HMGT 5170	Health Care Law 1	1.5
HMGT 5180	*Canadian Health System*	3
HINS 5200	Information Systems in Health Care (online only)	3
HMGT 5270	Health Care Law 2	1.5
HMGT 5640	B.C. Health Care Financial Planning and Management	3
ECON 2100	Microeconomics	3
FMGT 3210	Cost and Managerial Accounting	4

Courses		Credits
OPMT 1197	Statistics for Business and Industry	4
OPMT 2197	Quantitative Methods	3
HMGT 6320	*Clerkship*	17.5
Total Credits		50

Apply to the program head for transfer credit for courses previously taken.

*UBC is changing the format of the MHA. The first year will no longer be delivered at BCIT. If you are currently in the program, you will complete the first year at BCIT.

At a Glance – Certificate and Master Program Course Schedule

BCIT's Health Care Management Courses offered for the 2002/2003 school year.
(1) = Certificate Level 1 (2) Certificate Level 2 (E) = Elective (M) = MHA GL = Guided Learning Class = Classroom O = Online
Weekend courses are held at the BCIT Downtown Campus, 555 Seymour Street, Vancouver.

	Sep 9 – Nov 29, 2002	Jan 6 – Mar 28, 2003	Apr 7– June 27, 2003
HMGT 4110 Health Care Organizational Behaviour GL (1)	✔	✔	✔
HMGT 4150 Human Resource Management GL (1)	✔	✔	✔
HMGT 4160 Health Labour Relations 1 Class (1)	1 weekend Sep 27-29	1 weekend Jan 24–26	✔
HMGT 5120 Health Care Principles of Management GL (1) One section offers tutor time at Children's and Women's Hospital	Mondays 1615–1715	✔	✔
HMGT 5160 Health Labour Relations 2 Class (1)		1 weekend Feb 28, Mar 1–2	1 weekend May 2–4
HMGT 5170 Health Care Law 1 Class (2)	1 weekend Oct 19–20		
HMGT 5180 Canadian Health System GL (1)	✔	✔	✔
HMGT 5270 Health Care Law 2 Class (E)		1 weekend Feb 7–9	
HINS 5200 Information Systems in Health Care O (2	✔	✔	✔)
HMGT 5640 BC Health Care Financial Planning and Management Available online only	✔	✔	✔
HMGT 5700 Total Quality Management and CQI Tools O (2)	✔	✔	✔
HMGT 5800 Integrative O (2)	✔	✔	✔
HMGT 6320 Clerkship (M) To be arranged (3 months full-time or equivalent – for Masters students only)		✔	✔
Electives			
HMGT 4410 Managing Organizational Change and Development (E) 2 weekends to complete	Oct 4–6, Nov 1–3		
HMGT 4310 Conflict Management Development (E) 2 weekends to complete		Jan 17–19, Feb 21–23	
HMGT 4280 Health Care Systems 2 GL (E) 1.5 credits Course ends in 6 weeks			May 16
HMGT 4450 Team Building (E) 2 weekends to complete		Jan 31–Feb 2, Mar 8–10	
HMGT 4210 Organizational Behaviour 2 (E) 2 weekends to complete			Apr 11–13, May 9–11

Choose electives from any of the new Advanced Specialty Certificates, Clinical Research (CRPT), Health Care Quality Management(HCQM), Health Information Systems Technology (HIST) or Health Technology Management (HTM).

MHA Program Contacts:

MHA (Health Administration) Program
Laurel Slaney
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Program Contacts

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Bachelor of Technology in Managment – Health Specialty

This bachelor degree with a health specialty is available to you if you have a related diploma or management certificate, and are career-focused and currently employed. The degree program is competency-based with coaches at BCIT and in your workplace. We offer the program by flexible, innovative methods.

Classroom courses are an option but not a requirement in this self-paced, self-directed program. BCIT delivers this program in distance education format using e-mail, telephone and online chats to communicate with your degree coach and student groups. You may complete the program quickly or over a period of up to six years.

For more information:

Marnie Wright
604-432-8658
Marnie_Wright@bcit.ca

Entrance Requirements

The following complete package of information should be submitted with the application fee to the Registrar's office:

- BCIT Diploma or equivalent
- Two years of relevant full-time work experience (preference will be given to those in supervisory/managerial roles)
- English 12 or equivalent
- Computer literacy: working knowledge of MS Word, MS Excel, e-mail and Internet
- Math 12 or equivalent
- Strong communication skills: assessed through written letters and interview
- Completion of diploma-level accounting: FMGT 1100 or FMGT 1152 or equivalent
- A letter explaining the relationship between the degree program and the candidate's personal goals

- A letter of support from the employer stating a willingness of the organization to facilitate the employee taking the degree and also identifying a workplace advisor for the student
- Two letters of support from colleagues, supervisors, educators, clients or customers commenting on the applicant's ability to complete the degree
- Resume stressing skills developed, training and projects undertaken
- An interview with the program head. The interview will not be granted until all other entrance requirements have been met.

Program Length

The bachelor degree must be completed within six years of acceptance into the program. The program is designed to be completed in two years.

Program Delivery

This program is delivered in a distance education format, using e-mail, telephone and online chats to communicate with a degree coach and student groups. Students do not attend BCIT campus for lecture-style classes.

The bachelor degree is a self-paced and self-directed program. Prior to application, each student is asked to identify a workplace advisor who should be willing to support and encourage the student throughout the degree process.

The program uses a proven electronic mentoring and management development software system, which will keep the student on-track, focused and paced towards gaining the degree.

Web-based research is required in many modules of work.

The system requirements are: 486 PC with 8 MB of RAM, Microsoft Windows 3.1 (or better), Internet connection with e-mail program.

Program Content

There are 2 key components:

Advanced Technical Specialty	48 credits
Liberal Education	12 credits
Total	**60 Credits**

Advanced Technical Specialty Courses for the Health Specialty

	Credits
Self-Awareness And Self-Management	
MGMT 8010 Self-Awareness and Self-Management	3
Communication and Interpersonal Skills	
MGMT 8110 Communicate Effectively	3
MGMT 8120 Build Effective Working Relationships	4
Leadership Skills	
MGMT 8210 Develop Leadership Roles	1
MGMT 8220 Foster Teamwork	2
MGMT 8230 Lead Effectively	2
Quality Change Management	
MGMT 8310 Prepare for Change	1
MGMT 8320 Plan Quality Change	2
MGMT 8330 Manage Change	2
Operational Performance	
MGMT 8410 Manage a Work Unit's Human Resources	4
HMGT 4160/5160 Health Labour Relations	2
MGMT 8420 Manage Financial Resources	6
MGMT 8430 Manage Operational Performance	7
Global Perspectives	
HMGT 5180 Canadian Health System	2
HMGT 5170/5270 Health Care Law	3
MGMT 8530 Organizational and Personal Ethics	2

Strategic Perspectives		
HINS 5200	Health Information Systems (was HMGT 5130/5230)	2
Total Credits for Certificate		**48**

Cost: $180 per credit

Liberal Education

Students must complete 12 credits of Liberal Education. For further information please contact the Bachelor of Technology department in the Registrar's office at 604-432-8230.

Program Contacts

Program Assistant, Business Programs
Tel: 604-432-8658
Fax: 604-436-0810

health technologies

Basic Health Sciences

The Department of Basic Health Sciences (BHSC) offers a variety of health-related courses in human biology and the behavioural sciences. While most courses are principally aimed at students in day school programs, some are available in distance education formats through BCIT's Part-time Studies program. These courses are described below.

Designed to meet the requirements of specific programs, these courses are also available to be taken for general interest, professional upgrading or as preparation for pursuit of another health discipline.

Program Contacts

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John_Emes@bcit.ca

Teana Wong, Program Assistant
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Teana_Wong@bcit.ca
for courses:

BHSC 1117	BHSC 2217
BHSC 1146	BHSC 3302

Victoria Banham, Program Assistant
604-432-8727 or toll-free (1-800) 663-6542 ext 8727
Victoria_Banham@bcit.ca
for courses:

BHSC 0100	BHSC 7602
BHSC 5610	BHSC 7603
BHSC 7601	

Adult Echocardiography

Echocardiography uses high frequency sound waves to examine the heart. We have designed this distance education course for sonographers and other health professionals who are interested in learning about this dynamic imaging modality.

- Advanced Specialty Certificate
- All academic courses are 12 weeks in length.
- Continuing education credits (CSDMS) applied for.
- We strongly recommend that students have access to a computer with Windows 95 or higher and a CD-ROM drive. The Applied Echocardiography courses have echocardiographic images and video clips on a CD-ROM.

Clinical Experience

Students must obtain program approval prior to clinical registration.

ECHO 6003 is a 16-week clinical rotation for ARDMS registered sonographers.

ECHO 6004 is a 48-week clinical rotation for other health professionals who meet the requirements for program approval.

- Students must initiate their own clinical placements.
- Clinical experience is a full-time (five days per week) rotation.
- Clinical placement depends on site availability.
- BCIT cannot guarantee a clinical placement.
- Some clinical sites may charge an extra clinical fee.
- BCIT does not provide WCB coverage to out-of-province or out-of-country students. BCIT does not offer professional liability insurance to out-of-country students.

Program Requirements

- ARDMS registered sonographer

or

- Graduation from a minimum two-year allied health program

or

- Graduation from a bachelor degree program with an emphasis on human anatomy and physiology (i.e. kinesiology)

plus

- English 12 with a B or better. All ESL applicants must undergo a verbal assessment (TSE 50+ or equivalent) in addition to other testing in reading, writing and grammar.
- Diploma of Technology in a minimum two-year allied health program such as Radiography, Nuclear Medicine or Registered Nursing, or a Bachelor of Science in an appropriate health-related field, and with an emphasis on human anatomy and physiology.

and

- Patient care experience

and

- Current CPR

and

- References.

Program Map

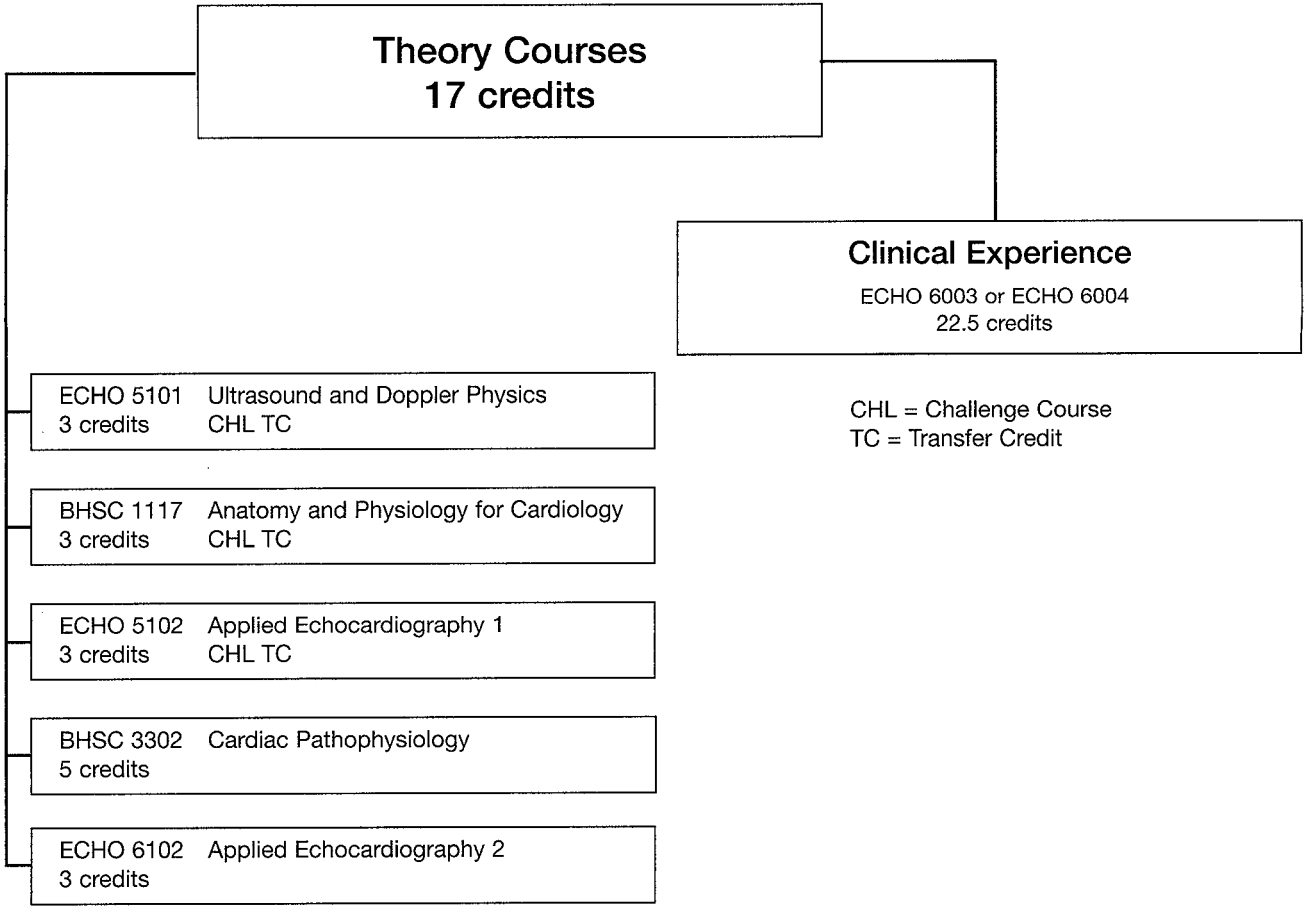
Course Name/Number		Credits
BHSC 1117	Anatomy and Physiology for Cardiology	3
BHSC 3302	Cardiac Pathophysiology	5
ECHO 5101	Ultrasound and Doppler Physics	3
ECHO 5102	Applied Echocardiography 1	3
ECHO 6102	Applied Echocardiography 2	3
ECHO 6003	Clinical Experience in Echocardiography or 6004	22.5

The passing grade for all theory courses is 60%.

This program is designed with student/employer flexibility in mind. Students may:

- Take part or all of this program
- Enrol in Cardiac Pathophysiology and Applied Echocardiography 2, concurrent with clinical experience.

adult echocardiography
advanced specialty certificate



CHL = Challenge Course
TC = Transfer Credit

Program Contacts

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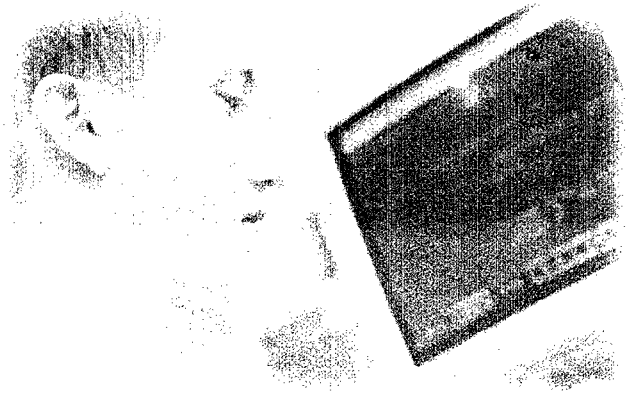


Cardiology Technology

Cardiology Technology is a guided learning/distance education program designed to fulfill the need for trained technologists skilled in a variety of non-invasive diagnostic cardiology procedures. This program exposes students to a range of cardiac patients and a variety of the biomedical equipment found within a hospital or laboratory environment.

The program offers the opportunity to gain a BCIT diploma and prepares the student for the national certification examination.

BCIT has designed the program to provide for:

- course-by-course registration if you wish to acquire specific skills and knowledge (BCIT may waive basic prerequisites)
- full diploma program if you have basic prerequisites
- diploma program completion if you have prior credentials (i.e. diploma or degree in a health discipline) or current cardiology certification.

Taking a single course or multiple courses in sequence does not guarantee acceptance into the Cardiology program.

The Cardiology diploma allows graduates to enter other post-diploma specialties such as:

- Cardiovascular Technology
- Adult Echocardiography

Basic Prerequisites

High school graduation with the following courses, or their equivalents, all with C+ or better. You should have completed the prerequisites within the last five years.

- Biology 12 (to include Human Biology)
- Chemistry 11
- English 12
- Math 12 or Applied Math 12
- Physics 11 or Applied Physics 12
- Basic computer keyboard skills

Additional Requirements

BCIT requires the following as part of the application process.

- 500-word essay detailing interest in the program
- work-related or volunteer experience (highly recommended)
- visit to a cardiology department
- resume, including work history and two personal references
- proof of current CPR "C" certification (ACLS preferred)
- proof of CSCT memberships
- English language proficiency (for ESL applicants).

Application to Cardiology Program

You are formally admitted into the program only after you have completed the first five Level 1 theory courses including CARD 1103, BHSC 1117, BMET 1107, CARD 1285, CARD 1101, as outlined in the Cardiology program, and have secured a clinical placement at a BCIT affiliated site(s). Contact your clinical co-ordinator six months prior to the start of your practicum for your clinical application package. At that time, applicants must submit their required documentation as outlined in the clinical package, and may be required to undergo a criminal record check.

NB: *Clinical site training offers limited seats; therefore,* preference is given to students with good academic standing and a favourable interview with clinical site representatives. BCIT does not guarantee a clinical placement.

Grading

BCIT requires a passing grade of 60% for all theory courses in the Cardiology Technology Diploma program.

The Program

This unique, distance education program combines theory and clinical experience in hospitals and diagnostic laboratories. Students receive an introduction to fundamental principles of biomedical electronics and patient care skills, with special emphasis on cardiac and respiratory anatomy and physiology. The program emphasises theoretical and clinical application of electrocardiography, cardiac pathology, cardiac pharmacology and cardiac physiology.

In addition to the theoretical basis contained in the courses, the clinical practicums offer students the opportunity to practise the fundamentals required to perform the following:

Level 1

- electrocardiograms
- exercise tolerance testing (physician supervised)
- ambulatory ECG monitor hookup and scanning
- routine venipuncture
- arrhythmia recognition
- event monitoring

Level 2

- ambulatory ECG analysis
- pacemaker assessment and programming (supervised)
- exercise tolerance testing
- pacemaker/lead analysis on implant
- advanced elective procedures

Program Length

We recommend taking no more than six to eight credits per term if you are taking the program on a part-time basis. The program can be completed in two to five years, depending on the number of courses you take per term, but you must complete it within five years. One credit is equal to a 12-hour course load per term, i.e. approximately one hour per week.

Program Completion – Part-time or Full-time Program	Credits
Level 1	
Course Work	23.5
Clinical Practicum 1	37.5
Credits	61.0
Level 2	
Course Work	38.0
Clinical Practicum 2	25.0
Credits	63.0
Total Credits	**124.0**

Professional Association Registration

The Canadian Society of Cardiology Technologists (CSCT) encourages all Canadian students enrolled in the BCIT Diploma program to register with their provincial association of the CSCT as an associate or student member. You must be an associate/student member in order to be eligible to do the Level 1 practicum portion of the Cardiology program. Upon completion of the diploma program, graduates are eligible to write the national registration exams administered by the CSCT.

For information on your provincial association, please contact:
Registrar, CSCT, Box 3221, Winnipeg, MB Canada R3C 4E6
or www.csct.ca

Education Credits

The Canadian Society of Cardiology Technologists has approved BCIT

Diploma courses for CSCT continuing education units.

1 credit = 6 units
2 credits = 12 units
3 credits = 18 units
4 credits = 24 units
5 credits = 30 units

Transfer Credit

To apply for course transfer credits, attach your original transcripts along with course outlines of each course for which you are requesting a transfer credit review.

Compressed Time Frame (CTF)

BCIT offers Compressed Time Frame for Clinical Practicums on an individual basis, for those who have the relevant background, knowledge and skills.

Challenge Exams

BCIT offers Challenge exams for selected courses.
(See Registration Information)

Employment Opportunities

Students may choose specific areas of this program to add to their existing medical technology knowledge and skill, or the entire diploma program to assist in gaining employment in hospital cardiology departments, private physicians' offices and laboratories.

Graduates are involved in the performance of vital cardiac testing, and utilise a wide range of sophisticated medical equipment that is essential for providing the cardiologist with valuable diagnostic information. Cardiology is a fast-paced medical discipline with opportunities throughout Canada and abroad.

Program Map

Recommended sequence of courses:

Level 1

Course		Credits
BHSC 1117	Anatomy and Physiology for Cardiology	3
BMET 1107	Basic Cardiac Instrumentation and Electricity	2
CARD 1103	Medical Terminology	1.5
CARD 1285	Communication for Allied Health Professionals	3
CARD 1101	Introduction to Cardiology	4
CARD 1186	*Patient Care for Allied Health Professionals*	3
CARD 2201	ECG Interpretation	3
CARD 2202	Cardiology Diagnostic Testing Methodology	3
NMED 1117	Basic Venipuncture for Allied Health Professionals	1

plus

(You must successfully complete the courses above, prior to entry into the clinical practicum.)

CARD 2252	Cardiology Practicum 1 (25 weeks)	37.5
Level 1 Total Credits		**61**

Level 2

Course		Credits
Prerequisite: Cardiology Technology Level 1 or equivalent:		
BHSC 1146	Human Behaviour	3
BHSC 2217	Essentials of Anatomy and Physiology	3
BHSC 3302	Cardiac Pathophysiology	5
CARD 1187	*Introduction to Statistics for Health*	3
CARD 3205	Introduction to Health Informatics	3
CARD 3330	Electrocardiography and Pacemakers	5
CARD 3360	Cardiac Pharmacology	3
CARD 4201	Concepts in Ambulatory ECG	2
CARD 4202	Concepts in Exercise Tolerance Testing	2
CARD 4203	Concepts in Pacemakers	3

plus

Level 2

Course		Credits
Elective Courses		
(total of 6 credits) from any two of the following courses:		
BUSA 7250	Management Skills and Applications	3
MIMG 7006	Understanding Research in Health Sciences	3
CARD 3280	Introduction to Cardiac Rehabilitation	3
CARD 3209	Radiation Protection for Cardiac Imaging	3

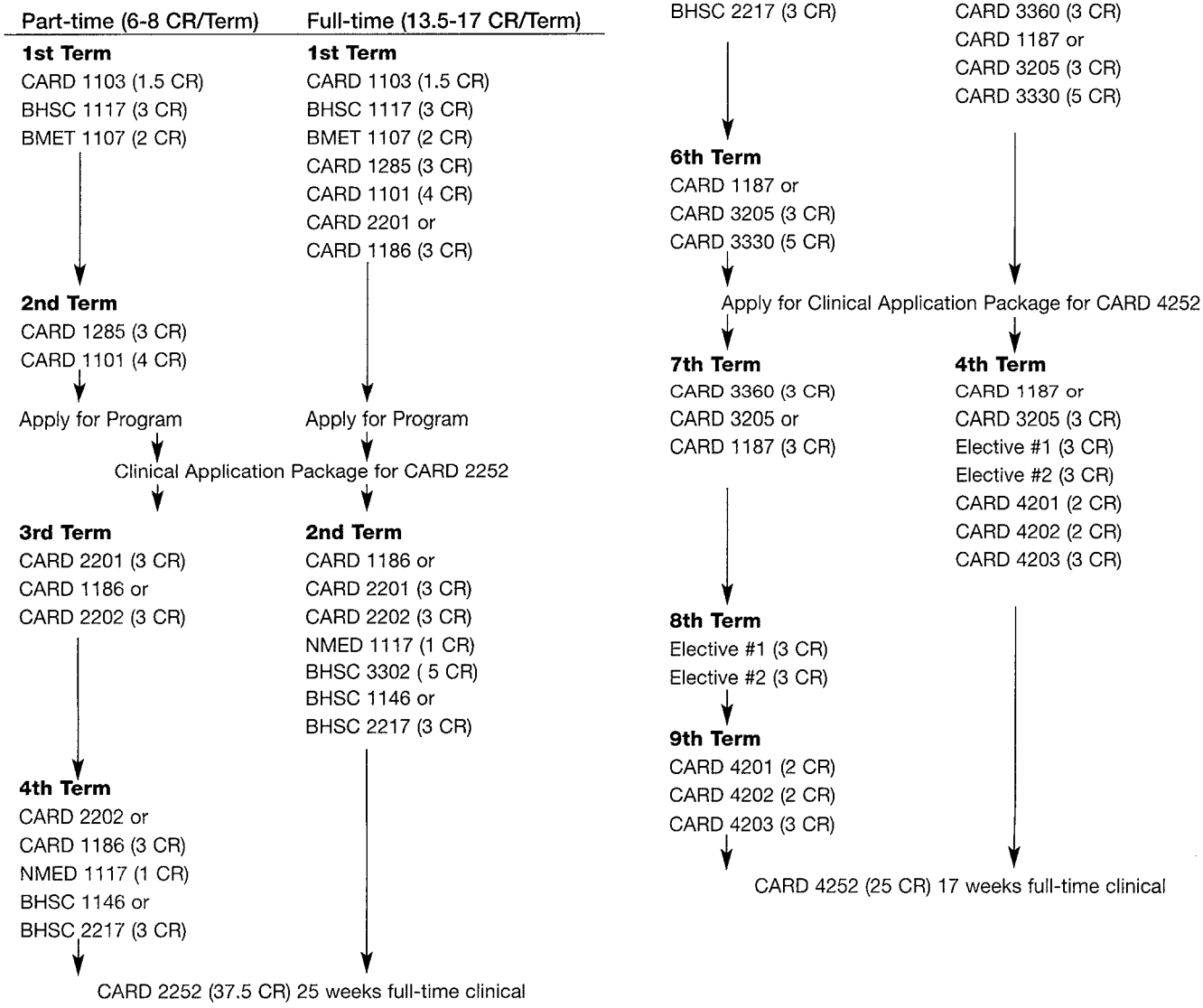
plus

(You must successfully complete this complete set of courses courses prior to entry into the clinical practicum.)

CARD 4252	Cardiology Practicum 2 (17 weeks)	25
Level 2 Total Credits		**63**
Diploma Total Credits		**124**

Cardiology Program Completion

Part-time or Full-time



Notes:

- CARD 1186, CARD 3205, CARD 3280 and BHSC 2217 are offered only in the Sept-Nov and Jan-Mar terms.
- . BHSC 1146, CARD 1187, and CARD 3209 are offered only in the Sept-Nov and Apr-June terms.
- You can start the program at the beginning of any one of the three 12-week terms (Sept-Nov, Jan-Mar, or Apr-June).
- Since enrolment in some courses may be limited, it is recommended that you register at least one month prior to the start of the term.
- If you do the theory courses of the program based on the part-time schedule above (i.e., 6-8 credits per term) it will take you about four years to complete the program, but you have up to five years to complete the program.
- If you do the theory courses of the program based on the full-time schedule outlined in this brochure, it will take you about two years to complete the program.
- You must take any two of the following electives: BUSA 7250, CARD 3210, CARD 3280, MIMG 7006 or CARD 3209.
- You can take courses in different sequences than suggested if you meet the prerequisites and if the course is offered in that term.

2002/2003 Cardiology Course Schedule

Sep-Nov 2002	Jan-Mar 2003	Apr-June 2003
BHSC 1117	BHSC 1117	BHSC 1117
BMET 1107	BMET 1107	BMET 1107
CARD 1103	CARD 1103	CARD 1103
CARD 1285	CARD 1285	CARD 1285
CARD 1101	CARD 1101	CARD 1101
CARD 1186	CARD 1186	
CARD 2201	CARD 2201	CARD 2201
CARD 2202	CARD 2202	CARD 2202
CARD 3360	CARD 3360	CARD 3360
NMED 1117	NMED 1117	NMED 1117
BHSC 1146		BHSC 1146
BHSC 2217	BHSC 2217	
CARD 2252	CARD 2252	CARD 2252
BHSC 3302	BHSC 3302	BHSC 3302
CARD 3330	CARD 3330	CARD 3330
CARD 1187		CARD 1187
CARD 3205	CARD 3205	
CARD 4201	CARD 4201	CARD 4201
CARD 4202	CARD 4202	CARD 4202
CARD 4203	CARD 4203	CARD 4203
CARD 3280	CARD 3280	
BUSA 7250	BUSA 7250	BUSA 7250
MIMG 7006	MIMG 7006	MIMG 7006
CARD 3209		CARD 3209
	CARD 4252	CARD 4252

Visit our Web site

www.health.bcit.ca/cardiology

Program Contacts

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604-451-7137or toll-free (1-800) 663-6542 x 7137

Cardiovascular Technology

The Cardiovascular Technology (CVT) guided learning distance education program offers working technologists or nurses an opportunity to advance their educational awareness in the highly specialised field of cardiovascular technology. The courses we offer will not only provide the theoretical knowledge, but also basic principles and practices, which are applied in almost every lab.

This course provides a great opportunity for personnel who have received their training on the job to receive educational recognition and to pursue a Diploma in Cardiovascular Technology.

You may take individual courses for continuing education purposes, or complete all ten (10) courses in this program and receive a Diploma in Cardiovascular Technology. Taking a single course or multiple courses in sequence does not guarantee acceptance into the CVT program (refer to the section on Program Eligibility).

If you are currently working in the field, you may challenge clinical courses by applying for Compressed Time Frame (CTF). Contact the CVT Program Head.

We look forward to your enrolment into our course(s) or program. You will join the growing number of other cardiovascular personnel who have made the same decision to enhance their education.

Please review the program information carefully. If you have any other questions, please feel free to contact us.

Program Eligibility

Applicants to the Cardiovascular Technology Program must possess or meet one of the following:

- recognised allied health diploma or degree
- recognised diploma or degree in nursing
- relevant BSc with appropriate allied health experience (proof of allied health exposure must be available for review by the program head).

Application to the Cardiovascular Program

Six months prior to completion of the mandatory theory courses, contact your program assistant for your clinical application package.

Prerequisites

Students who intend to complete the post-diploma program must ensure they meet the following program prerequisites:

- meet the above eligibility requirements and supply official transcripts
- successfully complete all seven (7) theory courses
- complete CPR "C" certificate (ACLS certification is preferred for those individuals working in the field and requesting prior learning assessment)
- have a favourable interview with the program head or delegate from a prospective clinical site
- English 12
- provide a completed Verification of Cath Lab Visit form
- provide a completed Verification of Work Experience if applying for Compressed Time Frame.

Limited seats are available for Canadian clinical site training; therefore, preference is given to students with good academic standing, related work experience (cardiac catheterisation lab or allied health field), and a favourable interview with the program head.

Professional Association Registration

The CVT program is endorsed by the Canadian Association of Cardiopulmonary Technologists (CACPT) and meets the post-diploma requirement for invasive cardiology. The CACPT encourages all Canadian students enrolled in the BCIT CVT program to register with the CACPT as a student member. Subject to the bylaws of the CACPT, graduates may write the CACPT cardiovascular registration examination. Those who are successful obtain the designation RCPT(C) (Registered Cardiopulmonary Technologist [Cardiac]) which signifies the student has attained a specific level of standardised training in the cardiovascular specialty. For information on the CACPT, please contact:

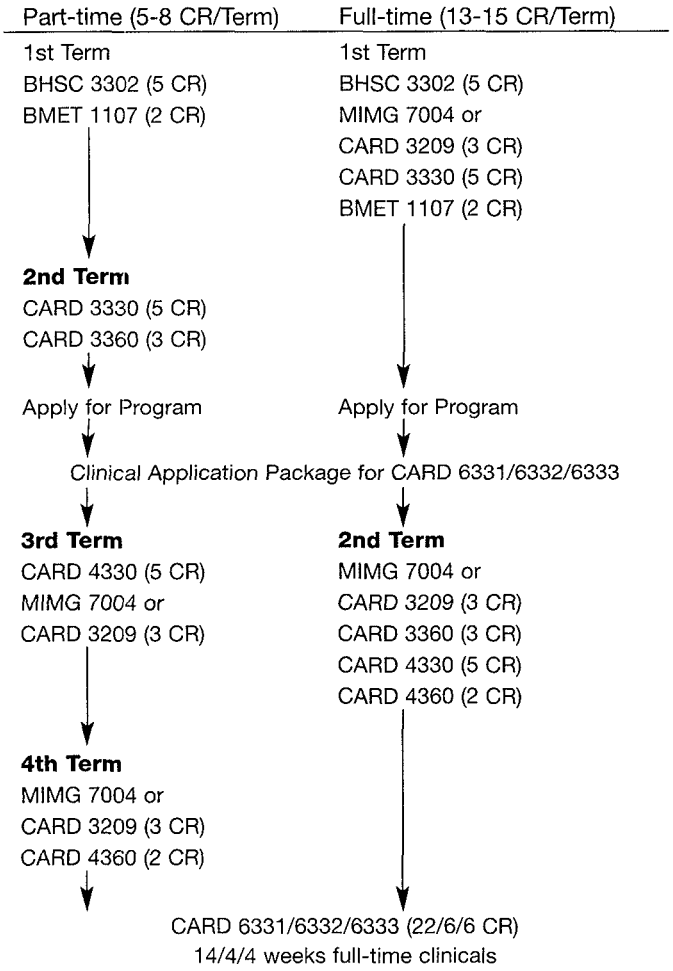
CACPT
P.O. Box 848, Station "A", Toronto, ON M5W 1G3
www.cacpt.ca
Laura Seed
CACPT Education Chair
(416) 867-5220
lseed@hotmail.com

Program Map

Mandatory Theory Courses		Credits
BHSC 3302	Cardiac Pathophysiology	5
CARD 3330	Electrocardiography and Pacemakers	5
CARD 3360	Cardiac Pharmacology	3
MIMG 7004	Advanced Topics in Patient Care	3
CARD 3209	Radiation Protection for Cardiac Imaging	3
CARD 4330	Cardiac Catheterisation: Principles and Practice	5
CARD 4360	Interventional Cardiac Catheterisation	2
BMET 1107	Basic Cardiac Instrumentation and Electricity	2
plus		
Clinicals		
(Program Head approval required)		
CARD 6331	Cardiovascular Clinical 1: Physiological Monitoring and Electronic Instrumentation	21
CARD 6332	Cardiovascular Clinical 2: Surgical Scrub Technologist Techniques	6
CARD 6333	Cardiovascular Clinical 3: Circulating Technologist Techniques	6
Total Minimum Credits		**61**

You may challenge clinical courses. Apply for the Compressed Time Frame format.

Cardiovascular Program Completion Part-time or Full-time



Notes:

- BCIT offers MIMG 7004 only in the Sept-Nov and Jan-Mar terms.
- BCIT offers CARD 3209 only in the Sept-Nov and Apr-June terms.
- You may start the program at the beginning of any one of the three 12-week terms (Sept-Nov, Jan-Mar, or Apr-June).
- Since enrolment in some courses may be limited, we recommend that you register at least one month prior to the start of the term.
- If you take the theory courses of the program based on the part-time schedule outlined here, you can complete the program in two to three years, but you have up to five years to complete the program.
- If you take the theory courses of the program based on the full-time schedule above, you can complete the program in approximately one year.

2002/2003 Cardiovascular Course Schedule

Sep-Nov 2002	Jan-Mar 2003	Apr-June 2003
BHSC 3302	BHSC 3302	BHSC 3302
BMET 1107	BMET 1107	BMET 1107
CARD 3209		CARD 3209
CARD 3330	CARD 3330	CARD 3330
CARD 3360	CARD 3360	CARD 3360
CARD 4330	CARD 4330	CARD 4330
CARD 4360	CARD 4360	CARD 4360
MIMG 7004	MIMG 7004	
CARD 6331	CARD 6331	CARD 6331
CARD 6332	CARD 6332	CARD 6332
CARD 6333	CARD 6333	CARD 6333

Visit our Web site:

www.health.bcit.ca/cardiovascular

Program Contacts

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604-451-7137or toll free (1-800) 663-6542 x 7137

Medical Imaging

Medical Imaging is a Part-time Studies, distance education technology that includes four programs: a Bachelor of Technology degree program and three post-diploma certificate programs in Magnetic Resonance Imaging (MRI), Computed Tomography (CT), and Breast Imaging. BCIT offers these programs to successful applicants from B.C., Canada, and the rest of the world.

Currently, the programs are being delivered to students from as far away as Australia and the United Arab Emirates. Individuals who have completed the post-diploma certificate programs are eligible to apply for elective credits towards the Bachelor of Technology degree in Medical Imaging.

Transfer Credits from CAMRT

With the implementation of the Bachelor of Technology in Medical Imaging, many courses have or will be upgraded and revised; credits previously applied to many CAMRT courses have been suspended. Please call the program head for an assessment of credits for CAMRT courses applied to certificate or degree programs.

Courses should be current within six years to be eligible for credit to post-diploma certificates or the Bachelor of Technology in Medical Imaging.

Introducing Home Study Modules in Medical Imaging

Home Study Modules are short **non-credit** overviews of current topics in Medical Imaging.

We offer the Modules to you as Continuing Professional Education, at $50 per Module.You may earn points for Continuing Education through BCAMRT.

We will be offering these modules shortly. Contact the Medical Imaging program head for details of the first Home Study Module, Picture Archiving and Communication Systems (PACS).

Bachelor of Technology Program

This degree provides technologists with advanced training that has resulted from significant technical and clinical advances that have occurred in recent years.

Entry Requirements

The requirements for entry into the program include:

- A minimum of six months of relevant work experience prior to admission, and a minimum of two years relevant work experience (including the six months first noted) prior to graduation.
- English 12 or equivalent. The Registrar's Office will evaluate all equivalencies
- A Diploma of Technology in a Medical Imaging field such as Medical Radiography, Nuclear Medicine, or Diagnostic Medical Sonography.

Goals of the Program

On completion of the Bachelor of Technology degree in Medical Imaging, the graduate will be able to:

- Provide quality patient care in advanced imaging procedures
- Use digital imaging and information technology equipment competently, through the application of the principles and theories of its operation
- Evaluate performance characteristics of equipment
- Implement an effective radiation protection program by applying the principles of justification, optimisation, and dose limitation
- Apply the knowledge of human sectional anatomy to related clinical procedures
- Apply clinical imaging protocols to specialised imaging procedures
- Apply the principles of management, organisational behaviour, supervision, budgeting, human resource management and labour relations in a medical imaging environment
- Enhance human interaction and performance in the clinical environment by integrating liberal education concepts
- Adapt successfully to the changing nature of society by applying liberal education principles
- Solve practical problems in Medical Imaging by applying skills in critical thinking, problem solving, communication, numeracy, and computer literacy
- Plan for lifelong learning by continuously updating skills and knowledge
- Apply research skills to the investigation of problems in Medical Imaging and to the assessment and evaluation of instrumentation and procedures in Radiology.

The program requires that coursework be completed in these areas: eight three-credit required courses; 15 credits of elective courses; nine credits of management courses; and 12 credits of liberal education courses, totalling 60 credits.

Challenge Courses

BCIT also provides Challenge courses to meet the needs of those individuals with extensive work experience and those who have taken related courses from other institutions. Please refer to "Challenge" on page three for information on registering for Challenge courses. You must have at least one year of clinical experience in the related area of the challenge course.

For further information and a description of management courses, please refer to our Health Care Management brochure or call:

Jennifer Perry, Program Assistant
604-451-7117 or toll-free (1-800) 663-6542 ext 7117
Jennifer_Perry@bcit.ca

or

Lorna Romilly, MSc, CHE
Program Head, Health Care Management
604-451-6848
Lorna_Romilly@bcit.ca or toll-free (1-800) 663-6542 ext 6848

Note: See the Bachelor of Technology in Medical Imaging Program Framework for a listing of other elective Management courses.

Liberal Education Courses

Contact the Registrar's Office at 604-432-8230 for complete information.

bachelor of technology in medical imaging

(medical radiography)

Required Courses (24 credits)

- MIMG 7000 Technological Advances in X-Ray Imaging — 3 credits
- MIMG 7003 Digital Imaging Concepts (revised course) — 3 credits
- MIMG 7004 Advanced Topics in Patient Care (also available online) — 3 credits
- MIMG 7006 Understanding Research in Health Sciences — 3 credits
- MIMG 7007 Image Quality in Diagnostic Radiology — 3 credits
- MIMG 7008 Research Project — 3 credits
- MIMG 7009 Radiation Risks and Protection — 3 credits
- MIMG 7010 Quality Assurance in Diagnostic Radiology — 3 credits

Elective Courses (15 credits)

- MIMG 7011 Quality Assurance Project — 3 credits
- MIMG 7101 Advances in Special Procedures — 3 credits
- MIMG 7200 Magnetic Resonance Imaging 1 — 3 credits
- MIMG 7201 Magnetic Resonance Imaging 2 — 3 credits
- MIMG 7202 Magnetic Resonance Imaging 3 — 3 credits
- MIMG 7300 Computed Tomography 1 — 3 credits
- MIMG 7301 Computed Tomography 2 — 3 credits
- MIMG 7400 Breast Imaging 1 — 3 credits
- MIMG 7401 Breast Imaging 2 — 2 credits
- MIMG 7500 Bone Densitometry — 3 credits
- BHSC 7601 Sectional Anatomy Abdomen and Pelvis — 3 credits
- BHSC 7602 Sectional Anatomy Thorax — 3 credits

- BHSC 7603 Sectional Anatomy Head and Neck — 3 credits*
- BHSC 7604 Sectional Anatomy Musculoskeletal System — 3 credits

Management Courses (9 credits)

Required

BUSA 7250 — Management Skills and Applications (revised course) — 3 credits

Electives (credits)

HMGT 5120 — Health Care Principles of Management — 3 credits

HINS 5200 — Information Systems in Health Care — 3 credits

HMGT 5170 — Health Care Law 1 — 1.5 credits

HMGT 4140 — Budgeting in Health — 1.5 credits

HMGT 4150 — Human Resource Management — 3 credits

HMGT 4160 — Health Labour Relations 1 — 3 credits

HMGT 4310 — Conflict Management in Health — 3 credits

HMGT 4410 — Managing Organisational Change and Development — 3 credits

HMGT 4450 — Team Building for Health Care Managers — 3 credits

Liberal Education (12 credits)

Required

LIBS 7001 — Critical Reading and Writing — 3 credits

LIBS 7002 — Ethics Course — 3 credits

* also offered as challenge course

Magnetic Resonance Imaging

The BCIT Magnetic Resonance Imaging (MRI) post-diploma certificate program is one of only a few in Canada, with students from across Canada and the rest of the world. The program consists of theory courses in Physics and Instrumentation, Clinical Applications, Sectional Anatomy, and a three-month clinical practicum.

The program has established affiliation agreements with MRI sites in Canada and outside North America, for providing clinical training to students.

Program Goals

The overall goals of the Magnetic Resonance Imaging Certificate program are:

- To provide graduates with the knowledge and skills needed to work competently in MRI.
- To meet the requirements of the CAMRT that would allow students to access the certificate examination in MRI.

Specifically, graduates will be able to:

- Provide for the safety of patients and personnel in the conduct of the MRI examination
- Prepare and position patients for a wide variety of MRI examinations as defined in the record of clinical experience
- Operate the MRI scanner and its accessory equipment
- Operate image processing and recording equipment
- Manipulate MR images and communicate images electronically if required
- Perform selected quality control tests for MR imaging system performance
- Demonstrate professional conduct and attitudes
- Work as a member of the MRI team.

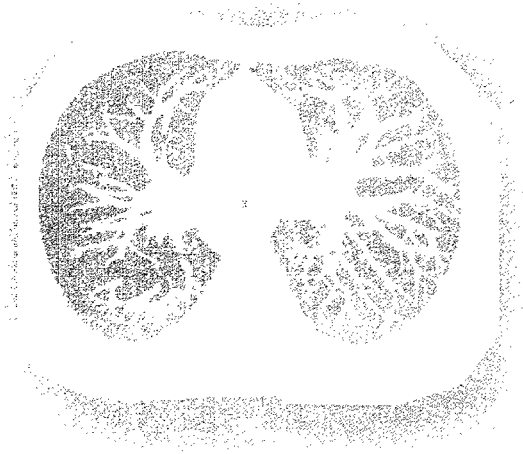
Program Requirements

To enter the program, all candidates must be registered technologists in Medical Radiography, Nuclear Medicine, or Diagnostic Medical Sonography.

Program Map

Please see descriptions under the Bachelor of Technology program and refer to program map on page 47.

Course Name/Number		Credits
MIMG 7200	Magnetic Resonance Imaging 1	3
MIMG 7201	Magnetic Resonance Imaging 2	3
MIMG 7202	Magnetic Resonance Imaging 3	3
BHSC 7601	Sectional Anatomy of the Abdomen and Pelvis	3
BHSC 7602	Sectional Anatomy of the Thorax	3
BHSC 7603	Sectional Anatomy of the Head and Neck	3
BHSC 7604	Sectional Anatomy of the Musculoskeletal	3
MIMG 6200	MRI Clinical Practicum	18



magnetic resonance imaging
certificate program

Theory Courses
21 credits

(15 credits may be applied as Elective Credits to the Bachelor of Technology in Medical Imaging)

MRI Clinical Practicum
18 credits

MIMG 6200 or MIMG 6200**
(No credits for Bachelor of Technology in Medical Imaging)

MIMG 7200 3 credits	Magnetic Resonance Imaging 1 (also offered online)
MIMG 7201 3 credits	Magnetic Resonance Imaging 2
MIMG 7202 3 credits	Magnetic Resonance Imaging 3
BHSC 7601 3 credits	Sectional Anatomy Abdomen and Pelvis
BHSC 7602 3 credits*	Sectional Anatomy Thorax
BHSC 7603 3 credits*	Sectional Anatomy Head and Neck
BHSC 76024 3 credits	Sectional Anatomy Musculoskeletal System

MIMG 7200 MRI 1 is also available online as an Internet delivered course, if you would prefer an alternate to the traditional paper-based distance education course. Please call to inquire and register.

* also offered as a challenge course
** also as compressed time frame (for practitioners)

Clinical Practicum

Please refer to the section outlining the details of the clinical practicum.

Note: Students must inform the CAMRT 90 days in advance of writing the MRI Certification Examination.

Computed Tomography

The Computed Tomography (CT) program is a post-diploma certificate program offered to technologists in Canada and the rest of the world. The program consists of five theory courses in Physics and Instrumentation, Clinical Applications, and Sectional Anatomy, and a three-month clinical practicum based on the MRI clinical practicum model.

Program Goals

To provide graduates with the knowledge and skills needed to work competently in CT.

Specifically, graduates will be able to:

- Provide for the safety of patients and personnel in the conduct of the CT examination
- Prepare and position patients for a wide variety of CT examinations as defined in the record of clinical experience
- Operate the CT scanner and its accessory equipment
- Operate image processing and recording equipment
- Manipulate and evaluate CT images and communicate images electronically if required
- Perform selected quality control tests for CT imaging system performance
- Demonstrate professional conduct and attitudes
- Work as a member of the CT imaging team.

Program Requirements

To enter the program, all candidates must be registered technologists in Medical Radiography.

Program Map

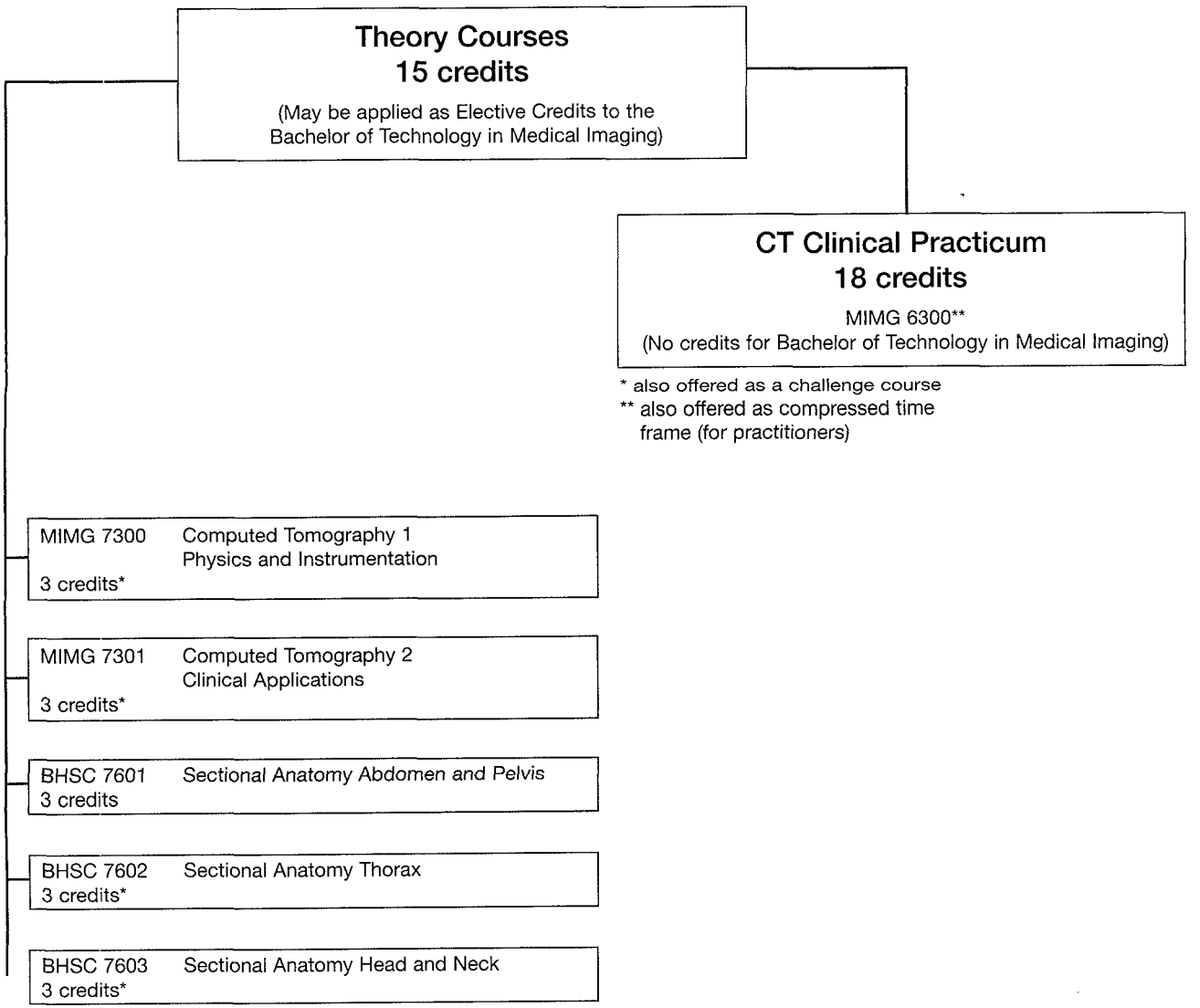
Please see descriptions under the Bachelor of Technology program and refer to the program map on page 49.

Course Name/Number		Credits
MIMG 7300	Computed Tomography 1	3
MIMG 7301	Computed Tomography 2	3
BHSC 7601	Sectional Anatomy of the Abdomen and Pelvis	3
BHSC 7602	Sectional Anatomy of the Thorax	3
BHSC 7603	Sectional Anatomy of the Head and Neck	3
MIMG 6300	CT Clinical Practicum	18

Clinical Practicum

Please refer to the section outlining details of the clinical practicum.

computed tomography
certificate program



Breast Imaging

The Breast Imaging post-diploma certificate program consists of theory courses in Physics, Instrumentation and Clinical Applications, together with a three-month clinical practicum. The program is based on the MRI model in terms of both delivery and practical experience

Program Goals

- To provide graduates with the knowledge and skills needed to work competently in Breast Imaging
- To meet the requirements of the CAMRT that would allow students to access the Certificate in Breast Imaging (CBI).

Specifically, graduates will be able to:

- Provide for the safety of patients and personnel in the conduct of the breast imaging examination
- Prepare and position patients for a wide variety of breast imaging examinations, as defined in the record of clinical experience
- Operate the breast imaging system and its accessory equipment
- Operate image processing and recording equipment
- Manipulate and evaluate breast images and communicate images electronically if required
- Perform selected quality control tests for breast imaging system performance
- Demonstrate professional conduct and attitudes
- Work as a member of the breast imaging team.

Entry Requirements

All candidates must be registered technologists in Medical Radiography, Nuclear Medicine, or Diagnostic Medical Sonography.

Program Map

Please see the descriptions under the Bachelor of Technology program and refer to program map on page 51.

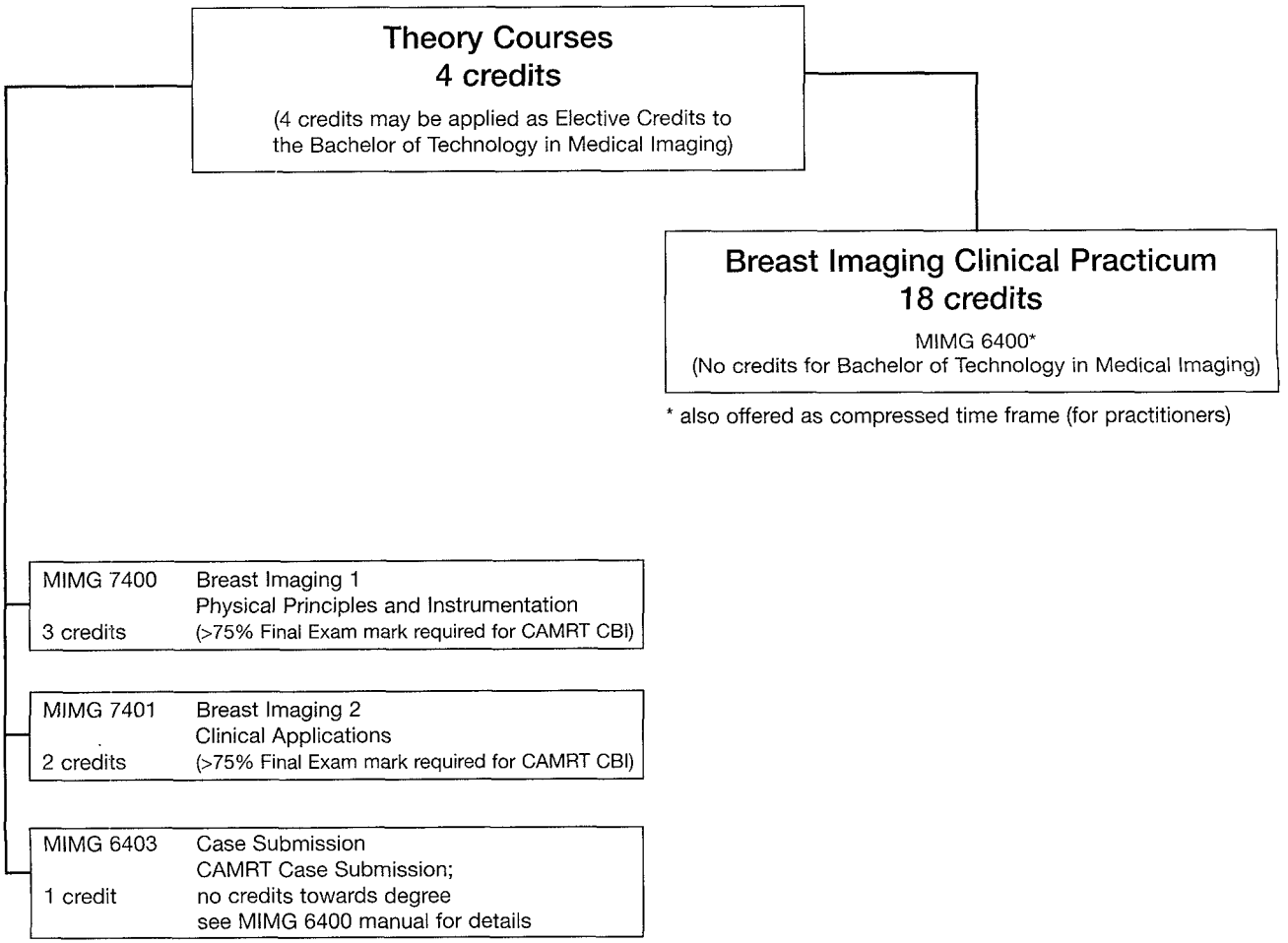
Course Name/Number		Credits
MIMG 7400	Breast Imaging 1	3
MIMG 7401	Breast Imaging 2	2
MIMG 6400	Breast Imaging Clinical Practicum	18

Clinical Practicum Courses

BCIT School of Health Sciences co-ordinates clinical practicum courses for post-diploma certificate programs. You may choose the clinical site for the practicum, subject to site approval, BCIT clinical site and assessor approval, and successful arrangement of clinical affiliation. The practicum includes a Record of Clinical Experience, Competency Profile, and assessor guidelines. BCIT provides Compressed Time Frame (CTF) Clinical Practicums to practitioners who have been working full-time in their fields for a minimum of one year.

Note: If you perform your clinical practicum in B.C., you will gain Workers Compensation and liability insurance coverage when registered in the BCIT clinical course. If you perform your clinical practicum in other provinces, you must ensure Workers Compensation coverage is in place during the clinical practicum dates. If you perform your clinical practicum outside of Canada, you will need to arrange liability insurance and Workers Compensation coverage.

breast imaging
certificate program



Procedure for Arranging an MRI/CT/Breast Imaging Clinical Practicum

The following steps provide a guide to arranging a clinical practicum:

1. Complete all theory courses.
2. Call Euclid Seeram, program head, at 604-432-8231 or 1-800 663-6542 ext 8231 or e-mail Euclid_Seeram@bcit.ca to discuss the clinical training preliminaries.
3. Select a clinical site and be prepared to identify a contact person for the site.
4. Send this information to the program head, who checks if there is an affiliation agreement in place between BCIT and the site. If there is, register for the clinical practicum course by contacting program assistant Victoria Banham at 604-432-8727 or toll-free 1-800-663-6542 ext 8727.
5. If no affiliation agreement is in place, BCIT will contact the site for consideration.
6. The site accepts or rejects the agreement. If the site accepts the agreement, register according to (4) above. If the site rejects the agreement, you must find another site, and the affiliation process begins again.
7. The cost for registering in a practicum course is $540. There may be a cost associated with the training site. You must negotiate this cost with the site.
8. Once registered, BCIT will send all clinical materials to you.
9. You must complete an assessor form for each site at which you will be completing your clinical, and return the forms to BCIT before the clinical begins.
10. The assessor must be a qualified technologist in the field of study and must have certification from CAMRT or another recognised professional medical radiation association.
11. On successful completion of all of the above, clinical training begins.

Note: Please allow at least two months for establishing an affiliation agreement between BCIT and the clinical site.

Program Contacts

Euclid Seeram, RTR, BSc, MSc , FCAMRT
Program Head, Medical Imaging
Euclid_Seeram@bcit.bc
604-432-8231 or toll-free 1-800-663-6542 ext 8231

Victoria Banham
Program Assistant
Victoria_Banham@bcit.ca
604-432-8727 or toll-free 1-800-663-6542 ext 8727

Nuclear Medicine

Although Nuclear Medicine Technology is a full-time, day-school program (see BCIT's full-time calendar), BCIT offers some courses on a part-time basis. See NMED courses in Course Descriptions.

Program Contacts

Lorie Fisher, RTNM
Program Head
Lorie_Fisher@bcit.ca
604-432-8303

Victoria Banham
Program Assistant
Victoria_Banham@bcit.ca
604-432-8727
or toll-free 1-800-663-6542 ext 8727

Occupational Health and Safety

The primary goal of the BCIT Occupational Health and Safety (OH&S) Program is to equip students with the tools, resources, and technical skills they need to practice effectively as OH&S generalists.

We have designed the OH&S Certificate Program for both entry-level students and mid-career practitioners. The program includes the core components that students need to enter the OH&S field. Mid-career practitioners typically take the program to upgrade their knowledge base and applied skills, or as part of a study plan to obtain their Canadian Registered Safety Professional (CRSP) designation.

We make most of our courses available through distance education, and offer two courses at night school and a few online through the Internet. As well, we offer a compressed time frame (CTF) option where you can complete your OH&S Certificate between mid-September and mid-April. You attend the CTF program at the Burnaby campus, four days per week, with about six hours of class per day.

There are no specific prerequisites that you need before starting the OH&S Certificate program, but certain courses have prerequisites assigned to them.

If you work full-time, we encourage you to begin with one or two courses per term. To successfully complete your reading, studying and assignments, you must set aside between two and four hours per week per course credit. For example, if you enrol in OCHS 2420 (3 credits), you will need to spend six to twelve hours per week on the course to successfully complete it.

After you finish three or four courses, contact the OH&S Part-time Studies Coordinator to discuss your program completion plan. You may be able to transfer courses toward your OH&S Certificate that you have completed elsewhere (usually to the elective component).

We offer several challenge courses for students who have prior or experiential learning that meets the course learning objectives. You must obtain approval from the OH&S Part-time Studies Coordinator before you can register for a challenge course.

We strongly recommend that you register for courses in approximately numerical order. For example, register for OCHS 1000 before OCHS 2420.

All mandatory and core courses in the OH&S certificate program may be credited toward the OH&S diploma program. If you wish to enter the full-time diploma program, you must meet additional academic requirements, submit an application, attend an interview, and plan to spend at least one year full-time at the BCIT Burnaby campus. You can find more information on the OH&S diploma program on our Web site at www.health.bcit.ca/ochs.

Please note that we have recently revised the OH&S programs. Some course names and numbers have changed, – a process that will continue throughout the next few years. Also note that as we introduce new and revised courses, the previous versions will be discontinued. Program revisions will not affect any of your existing credits or the length of your program.

To be eligible for the OH&S certificate, you must complete a total of 45 credits, which can include up to 15 elective credits. You may obtain your 45 credits by taking all BCIT OCHS courses, or you may choose to take (or transfer) up to 15 credits related to the field. As a general rule, in-house training seminars do not qualify for transfer credits.

Please note that as of September 2002, new students who begin the OH&S Certificate Program must complete all seven mandatory courses (20 credits) to be eligible for the certificate. You must also complete a minimum of 10 core credits and a maximum of 15 elective credits, for a total of at least 45 credits.

We strongly recommend that you complete OCHS 1000 in your first term. If you started the program before September 2002, you should complete as many of the mandatory courses as possible.

Occupational Health and Safety Program Courses

(subject to change, based on availability and demand)

	Sep – Nov 2002	Jan – Mar 2003	Apr – Jun 2003	Jul – Aug 2003
Mandatory Courses (all 20 credits)	OCHS 1000	OCHS 1000	OCHS 1000	
		OCHS 1200	OCHS 1200	
		OCHS 2100	OCHS 2100	
	OCHS 2320	OCHS 2200		
		OCHS 2320		
		OCHS 2340		
		OCHS 3200		
Core Courses (minimum of 10 credits)	OCHS 1144	OCHS 1100	OCHS 1100	OCHS 3340
	OCHS 1161	OCHS 1462	OCHS 1600	OCHS 4340
	OCHS 1461	OCHS 1600	OCHS 2420	
	OCHS 1462	OCHS 2420	OCHS 2440	
	OCHS 1463	OCHS 2440	OCHS 3320	
	OCHS 1600	OCHS 3320	OCHS 3420	
	OCHS 2420	OCHS 3420	OCHS 3520	
	OCHS 2440	OCHS 3520	OCHS 3620	
	OCHS 3372	OCHS 3620	OCHS 4200	
	OCHS 3420	OCHS 4320	OCHS 4320	
	OCHS 3520	OCHS 4360	OCHS 4360	
	OCHS 3620	OCHS 4420	OCHS 4420	
	OCHS 4320	OCHS 4520	OCHS 4440	
	OCHS 4360		OCHS 4520	
	OCHS 4520		OCHS 4620	
Elective Courses (maximum of 15 credits)	OCHS 0501	OCHS 0501	OCHS 0501	OCHS 1001
	OCHS 1001	OCHS 1001	OCHS 1001	OCHS 1005
	OCHS 1003	OCHS 1003	OCHS 1003	OCHS 1020
	OCHS 1004	OCHS 1004	OCHS 1004	
	OCHS 1005	OCHS 1005	OCHS 1005	
	OCHS 1006	OCHS 1006	OCHS 1006	
	OCHS 1007	OCHS 1007	OCHS 1007	
	OCHS 1020	OCHS 1020	OCHS 1020	
	OCHS 1410	OCHS 1410	OCHS 1410	
	OCHS 1500	OCHS 1500	OCHS 1500	

You may select and transfer additional elective courses from areas that complement the OH&S field, including:

- Business and Computers
- Human Resource Management
- Health Sciences
- Engineering
- Fire and Emergency Services
- Communications

We award three elective credits to students who hold a current Level 3 Occupational First Aid Certificate or equivalent. We have also approved, for transfer credit, courses from the following OH&S Certificate Programs that have been completed within the last five years:

- University of New Brunswick (online program)
- University of Alberta
- Ryerson Polytechnic
- University of Manitoba (program discontinued)

Compressed Time Frame Program Courses

(at BCIT's Burnaby Campus)

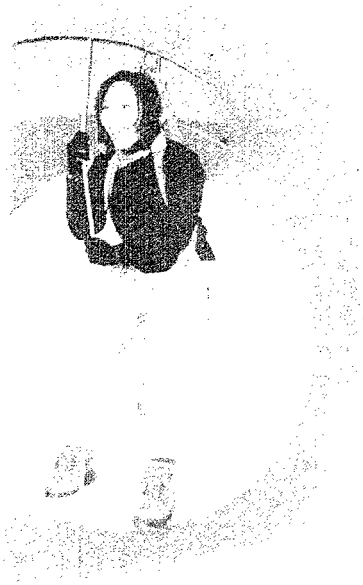
Sep 9 – Dec 13 2002	Jan 13 – Apr 18 2003
OCHS 1000	OCHS 2100
OCHS 1100	OCHS 2200
OCHS 1200	OCHS 2340
OCHS 2320	OCHS 2440
OCHS 2420	OCHS 3200
OCHS 4420	OCHS 3520
OCHS 1188	OCHS 3620
	OCHS 4440

Program Contacts

David Wood
OH&S Program Coordinator
Part-Time Studies
Tel: 604-432-8220
Toll-free: 1-800-663-6542 ext 8220
Fax: 604-435-5153
David_Wood@bcit.ca

Diane Pollock
OH&S Program Assistant
Part-time Studies
Tel: 604-432-8429
Toll-free: 1-800-663-6542 ext 8429
Fax: 604-435-5153
Diane_Pollock@bcit.ca

www.health.bcit.ca/ochs



Biomedical Engineering

Although Biomedical Engineering is a full-time, day-school program (see the BCIT full-time calendar), BCIT offers some courses by continuing education. See BMET courses in Course Dexcriptions. For information on dates, locations and fees, please see program contacts below.

Program Contacts

Anthony Chan, M.Eng, M.Sc., P.Eng, C.Eng, C.C.E.
Program Head
604-432-8994
Anthony_Chan@bcit.ca

Jennifer Perry, Program Assistant
604-451-7117 or 1-800-663-6542 ext 7117
Jennifer_Perry@bcit.ca

nursing and nursing specialties

Bachelor of Technology in Nursing

BCIT School of Health Sciences offers a Bachelor of Technology in Nursing, a full-time, day school program. If you are a Registered Nurse, you are eligible for direct-entry into Year 3 of this 3.5 year program, and are required to complete 68.5 credits of course work.

The program includes courses in specialty nursing, management/leadership, communication, community theory and practice, research and liberal education. BCIT offers courses in a variety of formats: clinical, classroom (day school and night school), and distance education (online or paper-based courses).

For information, contact Dina Bedard at 604-432-8853, or toll-free 1-800-663-6542 ext. 8853, Dina_Bedard@bcit.ca. The BCIT Full-time Calendar provides complete program information, or visit our Web site at www.health.bcit.ca/nursing.

Nursing Specialties

BCIT School of Health Sciences offers two levels of credential in Nursing Specialties: the Bachelor of Technology, and Post-RN Specialty Certificate. Each Nursing Specialty program area on the following pages describes the requirements for completion of each credential.

The specialties are: Critical Care, Emergency, Neonatal, Nephrology, Occupational Health, Pediatric, Pediatric Critical Care, Perinatal, and Perioperative Nursing.

If you are currently enrolled or have completed the certificate in any of the above programs, you have the option of bridging into the degree curriculum. If you are currently a Nursing Specialty student and intend to take this option, you must declare your intent prior to completing nine credits of course work. Obtain forms for declaring the degree program from the Nursing Specialty department or the Registrar's Office at BCIT. For more information, contact the Nursing Specialty Student Advisor at 604-451-7100.

Graduates enter the work force educated in professionalism, communication, collaboration, reflective critical thinking and systematic inquiry.

Critical Care
NSCC 7100 (3)
Introduction to Critical Care Nursing
NSCC 7200 (4)
Critical Care Nursing: Theory 1
NSCC 7300 (3)
Critical Care Nursing: Clinical 1
NSCC 7400 (5)
Critical Care Nursing: Theory 2
NSCC 7500 (5)
Critical Care Nursing: Clinical 2
NSCC 7600 (4)
Nursing the Complex Critically Ill Patient

Emergency
NSER 7100 (3)
Emergency Nursing: Theory 1
NSER 7200 (4)
Emergency Nursing: Theory 2
NSER 7300 (5)
Emergency Nursing: Clinical 1
NSER 7400 (4)
Emergency Nursing: Theory 3
NSER 7500 (5)
Emergency Nursing: Clinical 2
Electives:
(6 credits required)
- or -
NSSC 8160 (6)
Independent Study in Specialty Nursing

Nephrology
NSNN 7200 (3)
Nephrology Nursing Theory 1
NSNN 7300 (2)
Nephrology Clinical 1
NSNN 7400 (3)
Nephrology Nursing Theory 2
NSNN 7500 (5)
Nephrology Clinical 2
NSNN 7600 (3)
Nephrology Nursing Theory 3
NSNN 7700 (5)
Nephrology Clinical 3

Neonatal
NSNE 7100 (3)
Neonatal Theory 1
NSNE 7200 (3)
Neonatal Theory 2
NSNE 7300 (4)
Neonatal Clinical 1
NSNE 7400 (4)
Neonatal Theory 3
- plus -
NSNE 7500 (4)
Neonatal Clinical 2
Electives: (9 cr required)
- or -
NSNE 7911 (4)
Neonatal Respiratory Care
NSNE 7920 (4)
Neonatal Acute Care
Electives: (5 credits required)
NSNE 7900 (3)
Clinical Preceptorship in Specialty Nursing
NSNE 7940 (3)
Advanced Concepts in Neonatal Nursing
NSSC 8110 (1)
Independent Study in Specialty Nursing
Other Specialty Courses

SPECIALTY COURSES

CORE COURSES — NSSC 7115 (3) Teaching and Learning in Specialty Nursing

TOTAL 27 Credits | 30 Credits | 24 Credits | 30 Credits

CERTIFICATE

CORE COURSES

BUSA 7250 (3) Management Skills and Applications (Exception: Occupational Health)

NSSC 8000 (3) Systematic Inquiry

NSSC 8300 (3) Creative Leadership

NSSC 8600 (3) Communities, Health and Partnership
NSSC 8800 (3) Community Health: Partnerships in Action
Electives (3) – option*

NSSC 8600 (3) Communities, Health and Partnership
NSSC 8800 (3) Community Health: Partnerships in Action

NSSC 8600 (3) Communities, Health and Partnership
NSSC 8800 (3) Community Health: Partnerships in Action
Electives (6)

NSSC 8600 (3) Communities, Health and Partnership
NSSC 8800 (3) Community Health: Partnerships in Action

*NSSC 8130 Independent Study in Specialty Nursing

SPECIALTY COURSES

LIBERAL EDUCATION – 12 credits – Can be completed at any point in this process

DEGREE COMPLETION

Occupational Health

NSOH 7100 (3)
Introduction to Occupational Health Nursing
NSOH 7200 (3)
Work and Work Environments 1
NSOH 7250 (3)
Work and Work Environments 2
NSOH 7255 (1)
Occupational Health Nursing: Practice Experience 1
NSOH 7300 (3)
Occupational Health Nursing: Practice Experience 2
NSOH 7400 (3)
Disability Case Mgmt.
NSOH 7450 (3)
Occupational Health Surveillance
NSOH 7500 (4)
Occupational Health Nursing: Practice Experience 3
NSOH 7600 (4)
Occupational Health Program Planning
BUSA 7250 (3)
Management Skills and Applications (credit towards Core Courses *for degree*)

Pediatric

NSPE 7100 (3)
Pediatric Theory 1
NSPE 7200 (3)
Pediatric Theory 2
- or -
NSPE 7210 (3)
Pediatric Critical Care Theory 2
NSPE 7230 (3)
Pediatric Neuroscience Theory 2
NSPE 7240 (3)
Pediatric Surgical Theory 2
NSPE 7300 / 7310 (4)
Pediatric Clinical 1
NSPE 7330 (4)
Pediatric Neuroscience Clinical 1
NSPE 7340 (4)
Pediatric Surgical Clinical 1
NSPE 7400 (4)
Pediatric Theory 3
NSPE 7500 / 7510 (4)
Pediatric Clinical 2
Electives: (9 credits required)
NSPE 7900 (3)
Clinical Preceptorship in Pediatric Nursing
NSPE 7910 (3)
Pediatric Nursing in the Home
NSPE 7920 (3)
Pediatric Arrest Management
NSPE 7940 (3)
Advanced Concepts in Pediatric Critical Care Nursing
NSSC 8120 (2)
Independent Study in Specialty Nursing

Perinatal

NSPN 7100 (3)
Perinatal Theory 1
NSPN 7200 (3)
Perinatal Theory 2
NSPN 7450 (.5)
Neonatal Resuscitation
NSPN 7300 (5)
Perinatal Clinical 1
NSPN 7400 (4)
Perinatal Theory 3
NSPN 7250 (.5)
Fetal Health Surveillance
NSPN 7500 (5)
Perinatal Clinical 2
Electives: (3 credits required)
NSPN 7800 (3)
Clinical Preceptorship in Perinatal Nursing
NSSC 8130 (3)
Independent Study in Specialty Nursing

Perioperative

NSPO 7100 (3)
Perioperative Theory 1
NSPO 7200 (4)
Perioperative Theory 2
NSPO 7300 (5)
Perioperative Clinical 1
NSPO 7400 (2)
Perioperative Theory 3
NSPO 7500 (6)
Perioperative Clinical 2
NSPO 7600 (3)
Perioperative Theory 4
NSPO 7700 (4)
Perioperative Clinical 3

33 Credits	30 Credits	27 Credits	30 Credits

COMPLETION

NSSC 8500 (3)
Professional Growth

NSOH 8800 (6) Occupational Health Nursing: Creating the Future	**NSSC 8600 (3)** Communities, Health and Partnership **NSSC 8800 (3)** Community Health: Partnerships in Action **Elective (3)**	**NSSC 8600 (3)** Communities, Health and Partnership **NSSC 8800 (3)** Community Health: Partnerships in Action **Elective (3)**	**NSSC 8600 (3)** Communities, Health and Partnership **NSSC 8800 (3)** Community Health: Partnerships in Action **-or-** **Electives (6)**

(60 credits)

Bachelor of Technology in Specialty Nursing

The Bachelor of Technology in Specialty Nursing is the only degree program in British Columbia that prepares registered nurses for employment in specialty nursing practice.

You must have two years of relevant work experience for admission into the degree program.

The degree program provides 60 credits of course work: 48 specialty and core nursing credits and 12 credits of Liberal Education. After completion of nine credits of specialty course work, you have six years to complete the degree. For further information, call the program advisor at 604-451-7100 or e-mail specnurs@bcit.

Specialty Certificates

BCIT has designed specialty certificates to provide practising health care professionals with the advanced knowledge, skills and attitudes necessary for professional competence, advanced technical application, clinical or management roles, or for individual growth. If you are a nurse with a degree, the specialty certificate provides you with the option of acquiring a specialty nursing credential.

We strongly recommend work experience. Check with program staff to discuss admission requirements. You must complete two years of work experience prior to bridging into the degree program and completing the certificate.

The number of credits varies for each specialty program area. Refer to the appropriate specialty on the following pages.

Nursing Specialty Program Contacts

Core Courses
Pauline O'Reilly, Program Head
604-451-7115, Pauline_O'Reilly@bcit.ca

Critical Care
Eileen Shackell, Program Head
604-451-7083, Eileen_Butt_Shackell@bcit.ca

Emergency
Sue Smith, Program Head
604-451-7095, Sue_Smith@bcit.ca

Neonatal
Bev Pister, Program Head
604-451-7080, Beverly_Pister@bcit.ca

Nephrology
Fiona Hutchison, Program Head
604-451-7104, Fiona_Hutchison@bcit.ca

Occupational Health
Stephanie Wilson, Program Head
604-451-7082, Stephanie_Wilson@bcit.ca

Pediatric/Pediatric Critical Care
Yvonne Moritz, Program Head
604-412-7548, Yvonne_Moritz@bcit.ca

Perinatal
Reina Van Lagen, Program Head
604-451-7081, Reina_Van_Lagen@bcit.ca

Perioperative
Susan Knoll, Program Head
604-451-7093, Susan_Knoll@bcit.ca

Bachelor of Technology Core Courses

See Course Descriptions for details.

BUSA 7250 Management Skills and Applications

NSSC 7110 Teaching and Learning in Specialty Nursing (Modified)

NSSC 7111 Teaching and Learning in Specialty Nursing (Modified)

NSSC 7115 Teaching and Learning in Specialty Nursing

note: You may take the 8000-level core courses once you have completed the upper level Specialty Nursing courses. You may take core courses in any order; however, you must take NSSC 8600 and NSSC 8800 consecutively. **We highly recommend that you take LIBS 7001, Critical Reading and Writing, before commencing the 8000-level courses.**

NSSC 8000 Systematic Inquiry

NSSC 8050 Systematic Inquiry (Modified)

NSSC 8051 Systematic Inquiry (Modified)

NSSC 8110 Independent Study in Specialty Nursing

NSSC 8120 Independent Study in Specialty Nursing

NSSC 8130 Independent Study in Specialty Nursing

NSSC 8160 Independent Study in Specialty Nursing

NSSC8300 Creative Leadership

NSSC 8500 Professional Growth

NSSC 8600 Communities, Health and Partnership

NSSC 8800 Community Health: Partnerships in Action

Nursing Specialty Electives

Courses eligible for nursing specialty elective credits must be transferable to third or fourth level university courses, or be BCIT degree courses at the 7000 or 8000 level.

Use elective credits to strengthen the clinical, educational, administrative and research aspects of your current practice, and to move into other areas of practice. Topic areas that assist you to strengthen or expand your practice include:

- Courses from other nursing specialties (e.g. family nursing)
- Communication (e.g. counselling, group process, negotiation, conflict resolution)
- Community nursing courses
- Education (e.g. adult education, course development)
- Epidemiology
- Information technology
- Kinesiology
- Management (e.g. program development, evaluation, labour relations)
- Oral languages (specific to community of practice)
- Quantitative and qualitative research (statistics)
- Scholarly writing (preparation for advanced practice and publishing)
- Certain nursing specialty programs with specialty-specific courses approved for elective credit.

note: Contact your program head with any questions concerning approval of specialty nursing elective credits.

Liberal Education Courses

You are required to complete 12 credits of Liberal Education prior to graduation from the program. BCIT offers two compulsory courses (6 credits) of Liberal Education. You are responsible for completing the remaining 6 credits at an alternative post-secondary institution (subject to approval).

See Course Descriptions for details.

LIBS 7001 Critical Reading and Writing

LIBS 7002 Applied Ethics

Critical Care Nursing

Critical Care nurses provide care for patients and families who are experiencing actual or potential life-threatening illness.

The Critical Care nursing specialty program prepares Registered Nurses to begin practice in the following community- and tertiary-level Critical Care areas: Cardiac Care, Intensive Care, and Neurological and Cardiac Surgical Intensive Care. Nurses may also choose program streams that focus their clinical practice in post-anesthetic care units, cardiac step-down nursing units or a combination of both Critical Care and emergency nursing settings.

Job Opportunities

A variety of clinical settings provide many employment opportunities for Critical Care nurses. We encourage you to discuss potential employment opportunities with the Patient Care Manager in your current or future agency.

Program Length

The length of the program varies, as we offer it in a variety of formats:

- BCIT offers theory and some clinical courses by part-time, independent study. We deliver theory courses over a 12-week term, using guided-learning modules and telephone tutor support.
- Courses often include teleconferences, which provide opportunities for students and tutors to discuss issues relevant to the course. If you work full-time, you generally register for one theory course per term, although this workload may vary depending on your additional commitments.
- Through independent study, learn in your own community and structure your learning schedule in a manner that is most convenient for you. Complete full-time clinical courses at clinical sites throughout B.C., over a three to four week period. If you live outside B.C., you may be able to negotiate clinical placements.
- Most Specialty Nursing programs arrange Compressed Time Frame programs as special offerings of courses. In the full-time study format, they enable you to take several courses over a specified period of time. If you are interested in this option of study, contact the program head for more information and program start dates.
- Nurses with relevant experience and/or previous courses can request assessment for appropriate placement within the program.

Maximum program length for either the certificate or the Bachelor of Technology degree is six years.

Credential

BCIT offers two levels of credential in Specialty Nursing:

1. Post-Diploma Certificate of 27 credits for Critical Care Nursing
2. Bachelor of Technology in Specialty Nursing (Critical Care). This program is the only degree of its kind in B.C. that prepares registered nurses for employment in Critical Care units/areas. The degree program comprises a total of 60 to 62 credits of:
   - 27 to 29 credits granted for the Critical Care nursing specialty certificate (varies depending on program stream selected)
   - 21 specialty and core nursing credits
   - 12 liberal education credits.

Tuition Fees

Tuition fees are $180 per credit. Fees are subject to change without prior notice.

Books, Supplies and Miscellaneous Expenses

Textbooks and videos for Critical Care specialty courses cost $500 (2002/2003 estimated cost and subject to change).

Entrance Requirements

Acceptance into either the Critical Care Certificate program or the Bachelor of Technology program requires RNABC registration or eligibility for registration. We strongly recommend work experience. Check with program staff to discuss admission requirements. Please note that you must complete two years of work experience prior to bridging into the degree program.

Professional Registration

The Canadian Association of Critical Care Nurses (CACCN) is the professional organisation for Critical Care nurses in B.C. CACCN is a non-profit, specialty organisation dedicated to maintaining and enhancing the quality of care provided to critically-ill patients and their families. For further information about CACCN, contact www.caccn.ca

Canadian Nurses Association (CNA) offers Critical Care Certification. For further information on specialty nursing certification, contact www.cnanurses.ca.

Program Map

We recommend that you take courses in the following sequence to complete the program:

Certificate		Credits
NSCC 7100	Introduction to Critical Care Nursing	3
NSCC 7200	Critical Care Nursing Theory 1	4
NSCC 7300	Critical Care Nursing Clinical 1	3
NSCC 7400	Care Nursing Theory 2	5
NSCC 7500	Critical Care Nursing Clinical 2	5
NSSC 7115	Teaching and Learning in Specialty Nursing	3
NSCC 7600	Nursing the Complex Critically Ill Patient	4
Total Credits for Certificate		27

Bachelor of Technology Degree Completion		Credits
BUSA 7250	Management Skills and Applications	3
NSSC 8000	Systematic Inquiry	3
NSSC 8300	Creative Leadership	3
NSSC 8500	Professional Growth	3
NSSC 8600	Communities, Health and Partnership	3
NSSC 8800	Community Health: Partnerships in Action	3
Electives		3
Liberal Education*		12
Total Credits for Degree		60

* Can be completed at any point during the degree process. For information on the Liberal Education component of the Bachelor of Technology, contact Jackie Saponaro at 604-412-7506 or e-mail Jackie_Saponaro@bcit.ca.

Post-Anesthetic Nursing

If you wish to pursue a certificate in critical care nursing incorporating a Post-Anesthetic Care Nursing stream, complete the following sequence of study:

NSCC 7100, 7200, 7300, 7400, 7500
(see previous course descriptions)

NSSC 7115 (see previous course descriptions)

In place of NSCC 7600, enrol in NSCC 7625 Post-Anesthetic Care Nursing.

Cardiac Step-down Nursing

We recommend the following sequence of courses if you wish to eventually provide nursing care for patients in cardiac step-down areas:

Course		Credits
NSCC 7100	Introduction to Critical Care Nursing	3
NSCC 7200	Critical Care Nursing Theory 1	4
NSCC 7225	Cardiac Nursing Step-down Theory	2
NSCC 7325	Cardiac Nursing Step-down Clinical	4
If you wish to pursue a certificate in Critical Care Nursing and/or a Bachelor of Technology, you are eligible, after completing NSCC 7325, to enrol in NSCC 7400 and continue studying within the Critical Care program.		
NSCC 7100 (see previous course descriptions)		3
NSCC 7200 (see previous course descriptions)		4

Critical Care Nursing Certificate Incorporating an Emergency Nursing Stream

This program is an option for nurses wishing to prepare for employment in both critical care and emergency areas. Select your primary clinical area (either critical care or emergency) and follow the appropriate program map for your chosen program of study.

We recommend the following program map if you choose Critical Care Nursing as your primary clinical area.

Course		Credits
NSCC 7100	Introduction to Critical Care Nursing	3
NSCC 7200	Critical Care Nursing Theory 1	4
NSCC 7300	Critical Care Nursing Clinical 1	3
NSCC 7400	Critical Care Nursing Theory 2	5
NSCC 7500	Critical Care Nursing Clinical 2	5
NSER 7200	Emergency Nursing Theory 2	4
NSER 7300	Emergency Nursing Clinical 1	5
NSSC 7115	Teaching and Learning in Specialty Nursing	3
Total credits for Certificate		32

See Course Descriptions for course details.

Program Contacts

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Emergency Nursing

This program is primarily mandated to provide RNs with the knowledge, skill, and leadership ability to work in a wide variety of emergency settings, ranging from rural to urban centres. The program melds a comprehensive curriculum of both emergency nursing theory and clinical practice.

The core courses provide the necessary pathophysiology, assessment frameworks and nursing theory to enable nurses to serve a multicultural client base from a wide age spectrum, who present a diverse range of illness and injury.

Job Opportunities

The current shortage in health care workers means that nurses with Specialty Nursing preparation are also needed in British Columbia and Canada. Contact your local hospital and its human resources department for current information. Or contact the following Web sites for job opportunities in B.C.:

Region	Web Site
Fraser Health Authority	www.fraserhealth.ca
Interior Health Authority	www.interiorhealth.com
Provincial Health Services Authority	www.healthplanning.gov bc.ca/socsec/authority.html
Northern Health Authority	www.northernhealth.ca
Vancouver Coastal Health Authority	www.vancoastalhealth.ca
Vancouver Island Health Authority	www.vancouverislandhealth.ca
MedHunters (North America)	www.medhunters.com

Program Delivery

The length of the program varies, as BCIT offers it in a variety of formats:

- BCIT offers theory and some clinical courses by part-time, independent study. We deliver theory courses in a 12-week term using guided-learning modules and telephone tutor support. These theory courses often include teleconferences, which provide opportunities for students and tutors to discuss issues relevant to the

course. If you work full-time, you generally register for one theory course per term, although this can vary depending on your additional commitments.

- Through independent study, learn in your own community and structure your learning schedule in a manner that is most convenient for you. Complete full-time clinical courses at clinical sites throughout B.C., in a period of three to four weeks. If you live outside B.C., you may negotiate clinical placements.
- Emergency Nursing has special offerings of courses as "Full-time component programs." Offered in full-time study format, they enable you to take several courses during a specified period of time. If you are interested in this option of study, contact the program assistant for more information and program start dates.
- Nurses with relevant experience and/or previous courses can request assessment for appropriate placement within the program.

Program length for either the certificate or the Bachelor of Technology can range from two to six years, depending on your individual pace. Preparedness for employment can take from 13 weeks to one year.

The Program

The program offers RNs either a certificate in Emergency Nursing or a Bachelor of Technology in Specialty Nursing. Nurses may bridge out after 30 credits to obtain a certificate in Emergency Nursing, or continue and complete 30 additional credits, for a total of 60 and a Bachelor of Technology in Specialty Nursing.

Tuition Fees

Each credit is $180. Fees are subject to change without prior notice.

Books Supplies and Miscellaneous Expenses

Books for the certificate program: $390
Books for the degree program: $735
(2002/2003, general estimated cost and subject to change).

Entrance Requirements

Acceptance into the certificate/degree program requires RNABC registration and two years of relevant work experience.

Credential

When you have completed all program requirements, contact the program head to apply for graduation at the degree or specialty certificate level.

Professional Registration

CNA Certification Program

Graduates of the BCIT Program are eligible to write the Specialty Nursing Exam for Emergency Nursing through the CNA Certificate Program. The Canadian Nurses Association (CNA) views certification as a method of validating nurses' competence in an area of specialisation within the field of nursing. For further information on certification, contact www.cnanurses.ca.

Emergency Nurses Group of B.C. (ENGBC)

ENGBC is the professional organisation for emergency nursing in B.C. ENGBC's main goal is to provide standards for Emergency Nursing care, offer a forum in which Emergency nurses can exchange ideas, promote the specialised education of Emergency nurses, and support community relations. ENGBC has an affiliation with the National Emergency Nurses Affiliation (NENA). www.engbc.com.

National Emergency Nurses Affiliation (NENA)

NENA represents emergency nurses across Canada. The association works closely with CAEP (Canadian Association of Emergency Physicians) to improve the quality of care in Canada's emergency settings. If you register with ENGBC, you will automatically be registered for membership with the NENA. Contact www.nena.ca for more information.

Program Map

We recommend that you take courses in the following sequence to complete the program.

Certificate		Credits
NSER 7100	Emergency Nursing Theory 1	3
NSER 7200	Emergency Nursing Theory 2	4
NSER 7300	Emergency Nursing Clinical 1	5
NSER 7400	Emergency Nursing Theory 3	4
NSER 7500	Emergency Nursing Clinical 2	5
NSSC 7115	Teaching and Learning in Specialty Nursing	3
NSSC 8160	Independent Study in Specialty Nursing or Electives	6
Total Credits for Certificate		**30**

Bachelor of Technology Degree Completion		Credits
BUSA 7250	Management Skills and Applications	3
NSSC 8000	Systematic Inquiry	3
NSSC 8300	Creative Leadership	3
NSSC 8500	Professional Growth	3
NSSC 8600	Specialty Nursing Practice/ Communities, Health and Partnership	3
NSSC 8800	Specialty Nursing Practice: Health Issues and Action	3
Liberal Education*		12
Total Credits for Degree		**60**

For information on the Liberal Education component of the Bachelor of Technology, contact Jackie Saponaro at 604-412-7506 or e-mail Jackie_Saponaro@bcit.ca.

Emergency Nursing Certificate with a minor in Critical Care Nursing

This program is an option for nurses who wish to prepare themselves for employment in both emergency and critical care areas. Select your clinical area of major focus (either emergency or critical care) and follow the appropriate program map for your chosen clinical area of focus.

We recommend the following program map for participants choosing a major focus in Emergency.

Course	Credits
NSER 7100 Emergency Nursing Theory 1	3
NSER 7200 Emergency Nursing Theory 2	4
NSER 7300 Emergency Nursing Clinical 1	5
NSER 7400 Emergency Nursing Theory 3	4
NSER 7500 Emergency Nursing Clinical 2	5
NSCC 7400 Critical Care Nursing Theory 2	5
NSCC 7500 Critical Care Nursing Clinical 2	5
NSSC 7115 Teaching and Learning in Specialty Nursing	3
Total Credits for Certificate	**34**

Program Contacts

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www.health.bcit.ca

Neonatal Nursing

The Neonatal Nursing Specialty Program prepares neonatal nurses for employment in a variety of health care settings, including community and referral hospitals and community programs.

Job Opportunities

Nurseries and perinatal units in hospitals throughout the province employ neonatal nurses. Because babies are born in every community hospital in B.C., all of these hospitals need neonatal nurses.

In addition, the Children's and Women's Health Centre of British Columbia, Royal Columbian Hospital, Victoria General Hospital and Surrey Memorial Hospital have neonatal intensive care units that provide level III and level IV neonatal care.

These hospitals employ large numbers of neonatal nurses and often have employment opportunities. Community health settings, in programs such as Healthy Beginnings, also employ neonatal nurses.

The Program

The core, required courses in the program address content and skills that are basic to neonatal nursing regardless of the setting. The elective credits and courses enable you to pursue relevant areas of interest, based on your educational and career goals.

The first course in the program, NSNE 7100 (Neonatal Theory 1), focuses on infants and families as clients. It explores partnerships with infants and families, and introduces developmentally-supportive care and family-centred care as frameworks for neonatal nursing practice. The course begins by looking at healthy newborns and ends with a group of modules that introduce the concept of vulnerability. These modules explore three sources of vulnerability: fetal growth and development/gestational age, transition to extrauterine life, and the environment.

The second course, NSNE 7200 (Neonatal Theory 2), further explores neonatal vulnerability by examining the pathophysiology underlying common neonatal health challenges. Specifically, it examines asphyxia, dehydration, jaundice, apnea, bradycardia, patent ductus arteriosus, opiate dependency, hypothermia, and respiratory distress. The course examines development, family, feeding and assessment.

The third required course in the program, NSNE 7300 (Neonatal Clinical 1), focuses on the knowledge and skills required to begin practising neonatal nursing. The course is organized around seven key areas of neonatal nursing practice.

These areas include: assessment, nutritional support, thermal management, medication administration, infection control, respiratory support and developmentally-supportive care. This course emphasises synthesis of knowledge, skills and attitudes that enable nurses to provide competent care to vulnerable infants.

Together, the first three courses in the program prepare you to begin working with stable, non-ventilated, vulnerable infants. If you have limited neonatal or perinatal experience, you can benefit from additional clinical practice before beginning employment – we encourage you to take NSNE 7900 (Clinical Preceptorship in Neonatal Nursing) after completing NSNE 7300 (Neonatal Clinical 1). You may use NSNE 7900 as 3 elective credits in the program.

The fourth required course, NSNE 7400 (Neonatal Theory 3), focuses on childbearing families and the issues they face when interacting with health care agencies and professionals. The course uses a phenomenologic framework to support you as you develop therapeutic partnership relationships with families.

In particular, the course directs you to consider the ways that power, diversity, family capacity, family vulnerability, narrative, meaning, context and imagination influence family health promotion.

The final required course in the program is NSSC 7115 (Teaching and Learning Partnerships). This course explores nurses' various roles as teachers and learners, encourages students to examine their philosophy of teaching and learning and, through the course assignments, enables you to apply the course ideas to your specialty practice.

The remaining credits and courses in the program are electives. Choose electives from within the Neonatal Nursing Specialty: NSNE 7500 (Neonatal Clinical 2), NSNE 7900 (Clinical Preceptorship in Neonatal Nursing), NSNE 7910 (Neonatal Respiratory Care), NSNE 7920 (Neonatal Acute Care) and NSNE 7940 (Advanced Concepts in Neonatal Nursing). Choose electives from other related BCIT Specialty Nursing Programs, such as Perinatal Nursing and Pediatric Nursing. Finally, take electives at other educational institutions that offer courses related to Neonatal Nursing.

Entrance Requirements

Within the program, and prior to taking clinical courses, you must be eligible for registration with the RNABC. If you are near completion of your undergraduate nursing education and are not yet registered as a nurse, you may take the first two theory courses prior to becoming registered.

Prior experience with children and families is an asset. This experience can take a variety of forms, including a senior preceptorship in nursing school in a pediatric, perinatal or neonatal area, volunteer work with childbearing families, or employment in a pediatric, perinatal or neonatal area.

If you are considering Neonatal Nursing and have not had previous exposure to the profession, you can benefit from spending a day in a hospital nursery, and from talking to Neonatal nurses about the specialty and their practice.

Program Length

The length of the program varies, as BCIT offers it in a variety of formats:

- BCIT offers theory and some clinical courses by part-time, independent study. We deliver theory courses in a 12-week term, using guided-learning modules and telephone tutor support. Courses often include teleconferences, which provide opportunities for students and tutors to discuss issues relevant to the course. If you work full-time, you generally register for one theory course per term, although this can vary depending on your additional commitments.
- Through independent study, learn in your own community and structure your learning schedule in a manner that is most convenient for you. Complete full-time clinical courses at clinical sites throughout B.C., in a period of three to four weeks. If you live outside B.C., you may negotiate clinical placements.
- The Neonatal Nursing program also offers Compressed Time Frame programs, consisting of two required courses (NSNE 7200, NSNE 7300) plus a clinical elective (NSNE 7900) via a full-time,10-week program in Greater Vancouver. The first theory course (NSNE 7100) is a prerequisite for this program.
- Nurses with relevant experience and/or previous courses can receive credit for their prior education through a process of PLAR (Prior Learning Assessment and Recognition).

Maximum program length for either the certificate or the Bachelor of Technology degree is six years. Preparedness for employment can take from 10 weeks to one year.

Credentials

You are eligible to apply for a certificate in Neonatal Nursing after completing 30 credits of approved courses. On receipt of a certificate, you can choose to continue in the degree completion portion of the program, which requires completion of another 30 credits. Upon completion of all 60 credits of approved courses (including the certificate courses), you are eligible to receive a Bachelor of Technology in Specialty Nursing.

Tuition Fees

Tuition fees are $180 per credit. Fees are subject to change without prior notice.

Books, Supplies and Miscellaneous Expenses

Cost of texts is $191 (2002/2003, estimated cost and subject to change).

Program Map

We recommend that you take courses in the following sequence to complete the program.

Certificate		Credits
NSNE 7100	Neonatal Theory 1	3
NSNE 7200	Neonatal Theory 2	3
NSNE 7300	Neonatal Clinical 1	4
NSNE 7400	Neonatal Theory 3	4
NSSC 7115	Teaching and Learning in Specialty Nursing	3
plus		
NSNE 7500	Neonatal Clinical 2	4
Electives		9
or		
NSNE 7911	Neonatal Respiratory Care (formerly NSNE 7910)	4
NSNE 7920	Neonatal Acute Care	4
Electives		5
Total Credits for Certificate		**30**

Bachelor of Technology Degree Completion		Credits
BUSA 7250	Management Skills and Applications	3
NSSC 8000	Systematic Inquiry	3
NSSC 8300	Creative Leadership	3
NSSC 8500	Professional Growth	3
NSSC 8600	Specialty Nursing Practice/ Communities, Health and Partnership	3
NSSC 8800	Specialty Nursing Practice:Health Issues and Action	3
*Liberal Education**		12
Total Credits for Degree		**60**

* For information on the Liberal Education component of the Bachelor of Technology, contact Jackie Saponaro at 604-412-7506 or e-mail Jackie_Saponaro@bcit.ca.

Program Contacts

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Nephrology Nursing

Nephrology nurses work in partnership with people who have renal disease to optimize their own health, and the health of their families. Renal disease is a chronic condition arising from many causes, and often progresses to kidney failure that requires dialysis or transplantation to sustain life.

Renal disease and its treatment impacts all body systems and affects the person's diet, energy level, self image, ability to work and overall lifestyle. It also affects family members, as their diets, incomes and roles may also change.

Nephrology nurses work collaboratively with people who have renal disease, and their families, over long periods of time. Nurses assist clients in managing their renal disease, their treatment and the resulting inherent health changes.

Job Opportunities

You will find career openings throughout British Columbia and abroad where renal programs exist. Hospitals are the primary employers, although many communities also offer opportunities. Nurses can obtain employment in a variety of practice areas: hemodialysis, peritoneal dialysis, chronic renal insufficiency clinics and transplant areas.

Program Length

BCIT offers this program in a variety of formats and timeframes:

- BCIT offers theory and some clinical courses by part-time, independent study. We deliver theory courses in a 12-week term, using guided-learning modules and telephone tutor support. Courses often include teleconferences, which provide opportunities for students and tutors to discuss issues relevant to the course. Students who work full-time generally register for one theory course per term, although this arrangement can vary depending on additional commitments.
- Through independent study, learn in your own community and structure your learning schedule in a manner that is most convenient for you. Clinical courses range from a few days of clinical placement to 120 hours of clinical placement completed either full-time in a period of three to four weeks, or part-time in a period of 12 weeks. If you live outside B.C., you may be able to negotiate clinical placements.

Maximum program length for either the certificate or the Bachelor of Technology degree is six years.

Prior Learning Assessment and Recognition/Challenge Process

Experienced Nephrology nurses have a variety of opportunities to gain credit in our program. We invite nurses with experience to challenge courses in the program by demonstrating knowledge in relation to the learning intentions of each of the courses being challenged. In addition, prior learning assessment processes provide an opportunity to gain credit for the first four courses. Please contact the program head if you wish to investigate these possibilities.

The Program

The Nephrology Nursing program assists you to develop an understanding of experiences of people with renal disease, along with knowledge and skill in the treatment and management of renal disease. The program includes theory courses that provide the basis for understanding how renal disease and its treatment affect people physically and psychosocially. Clinical courses promote learning from hands-on practice.

Entrance Requirements

- Proof of active, or eligibility for, RNABC registration
- Two years of current and relevant work experience (recommended)

Tuition Fees

$180/credit (general estimated cost and subject to change). Tuition includes course manuals and access to tutors.

Books

The program requires four texts for a total cost of $301.

Credential

When you have completed all program requirements, contact the program head to find out how to apply for graduation at the degree or specialty certificate level.

Program Map

We recommend that you take courses in the following sequence to complete the program.

Certificate		Credits
NSNN 7200	Nephrology Nursing Theory 1 Introduction	3
NSNN 7300	Nephrology Clinical 1 Chronic Renal Insufficiency Nursing	2
NSNN 7400	Nephrology Nursing Theory 2 Introduction to Dialysis Nursing	3
NSNN 7500	Nephrology Clinical 2 Nursing Care of the Person on Dialysis	5
NSNN 7600	Nephrology Nursing Theory 3 Living with Renal Disease and Complex Health Challenges	3
NSNN 7700	Nephrology Clinical 3 Nursing the Person with Complex Renal Health Challenges	5
NSSC 7115	Teaching and Learning in Specialty Nursing	3
Total Credits for Certificate		**24**

Bachelor of Technology Degree Completion		Credits
BUSA 7250	Management Skills and Applications	3
NSSC 8000	Systematic Inquiry	3
NSSC 8300	Creative Leadership	3
NSSC 8500	Professional Caring	3
NSSC 8600	Specialty Nursing Practice/Communities, Health and Partnership	3
NSSC 8800	Specialty Nursing Practice: Health Issues and Action	3
Elective		6
Liberal Education*		12
Total Credits for Degree		**60**

* For information on the Liberal Education component of the Bachelor of Technology, contact Jackie Saponaro at 604-412-7506 or e-mail Jackie_Saponaro@bcit.ca.

Program Contacts

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Occupational Health Nursing

If you are a Registered Nurse who would like to provide proactive, preventive occupational health and safety programming in a business setting, Occupational Health Nursing may be the program for you.

The foundation of Occupational Health Nursing is the relationship between the work environment and worker health. Occupational Health Nursing aims ultimately to improve, protect, maintain, and restore the health of workers, thereby influencing the health of the organisation.

How Do Occupational Health Nurses Influence "Worker" Health?

"Clients" in Occupational Health Nursing practice include the organisation as a whole, groups of employees and individual employees. This specialty program is grounded in the notion of partnership: between nurses and management, labour, and workers; between nurses and other health and safety professionals; and, between nurses and community resources. Using a multidisciplinary approach, occupational health nurses (OHNs) contribute to the achievement of a healthy, productive and successful company by understanding and supporting organisational business goals.

Successful occupational health nurses demonstrate:

- Strong interpersonal skills
- Self-direction, initiative and energy
- Ability to work independently and with a team
- Interest in bringing about change
- Excellent communication skills – both oral and written (in addition, employers often require basic computer skills).

Job Opportunities

Job opportunities are expanding, and are often related to disability management activities. It is common that nurses will obtain initial opportunities, some of which may be part-time, in settings with other OHNs or through agencies. Salaries widely vary based on type of industry and the nature of the job description.

The Program

This program provides the specialised body of knowledge, skill, and leadership ability to practise at a beginning level in a wide variety of organisations. It offers experienced Registered Nurses either a certificate in Occupational Health Nursing after completing 33 credits, or a Bachelor of Technology in Specialty Nursing (BTSN) after completing 27 more credits (for a total of 60 credits).

Program Length

BCIT offers this program in a variety of formats and timeframes:

- BCIT offers theory and some clinical courses by part-time, independent study. We deliver theory courses over a 12-week term, using guided-learning modules and telephone tutor support. Courses often include teleconferences, which provide opportunities for students and tutors to discuss issues relevant to the course. If you work full-time, you would generally register for one theory course per term, although this can vary depending on your additional commitments.
- Through independent study, learn in your own community and structure your learning schedule in a manner that is most convenient for you. Complete the second and third practice experiences in the Vancouver area. There may be opportunities in the future to negotiate these experiences closer to your home.
- Nurses with relevant experience and/or previous courses can request assessment for appropriate placement within the program.

Maximum program length for either the certificate or the Bachelor of Technology degree is six years.

Tuition Fees

Tuition for each credit is $180. Fees are subject to change without prior notice.

Books, Supplies, and Miscellaneous Expenses

The Occupational Health Nursing program draws on knowledge from a broad range of disciplines, and therefore requires a variety of textbooks. We are careful to select textbooks that you will use through the remainder of the program and in your future practice in Occupational Health Nursing.

Textbooks for the first eight courses in the certificate cost $650 (2002/2003, general estimated cost and subject to change). One or two additional texts may be required. You may choose to purchase safety shoes/boots prior to Practice Experience 2.

Entrance Requirements

Acceptance into the degree program requires RNABC registration (or equivalent) and two years of relevant work experience. As Occupational Health Nurses often work independently, we recommend that you have two years nursing experience prior to registering in the second Practice Experience course.

Canadian Nurses Association Certification Program

Completion of the BCIT Occupational Health Nursing certificate program provides the educational requirements and decreases the experience requirements for eligibility to apply to write the Occupational Health Nursing certification examination. For further information contact the Certification Program:

e-mail: certification@can-nurses.ca
Web site: www.can-nurses.ca

Other Links of Interest

B.C. OHN Professional Practice Group: www.rnabc.bc.ca/
Workers' Compensation Board of B.C.: www.worksafebc.com
American Association of Occupational Health Nursing: www.aaohn.org

Program Map

We recommend that you take courses in the following sequence to complete the program.

Certificate		Credits
NSOH 7100	Introduction to Occupational Health Nursing	3
NSOH 7200	Work and Work Environments 1	3
NSOH 7250	Work and Work Environments 2	3
NSOH 7255	OHN: Practice Experience 1	1
NSOH 7300	OHN: Practice Experience 2	3
BUSA 7250	Management Skills & Applications (core)	3
NSOH 7400	Disability Case Management	3
NSSC 7115	Teaching and Learning in Specialty Nursing	3
NSOH 7450	Occupational Health Surveillance	3
NSOH 7500	OHN: Practice Experience 3	4
NSOH 7600	Occupational Health Program Planning	4
Total Credits for Certificate		33

Bachelor of Technology Degree Completion		Credits
NSSC 8000	Systematic Inquiry (core)	3
NSSC 8300	Creative Leadership (core)	3
NSSC 8500	Professional Growth (core)	3
NSOH 8800	Occupational Health Nursing:	
Creating the Future		6
Liberal Education*		12
Total Credits for Degree		60

* For information on the Liberal Education component of the Bachelor of Technology, contact Jackie Saponaro at 604-412-7506 or e-mail Jackie_Saponaro@bcit.ca.

note: While best taken in the recommended sequence, you may choose to take the two core courses within the certificate, BUSA 7250 Management Skills and Applications and NSSC 7115 Teaching and Learning in Specialty Nursing, at any time, prior to the indicated order. Please see Course Descriptions for a listing of required courses.

Program Contacts

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Pediatric Nursing

The Pediatric Nursing Specialty program prepares pediatric nurses for employment in a variety of health care settings, including community and referral hospitals and community programs.

Because there are children in every community, hospitals throughout the province employ pediatric nurses in their dedicated pediatric units. The Children's and Women's Health Centre of British Columbia is the major referral centre for the province, while other Vancouver area hospitals also offer employment opportunities. Many community health settings also employ pediatric nurses.

The nursing shortage experienced in many settings has also begun in the area of Pediatric Nursing. Many community hospital pediatric nurses are reaching retirement age and are either retiring or decreasing their employment time.

Many younger nurses are taking the opportunity to work in other countries. Hospitals with pediatric units are therefore experiencing the shortage. The Children's and Women's Health Centre of British Columbia offers ongoing employment opportunities for pediatric nurses due to a variety of factors.

The Program

The core, required courses in the program address content and skills that are basic to pediatric nursing, regardless of the setting. The elective credits and courses enable you to pursue relevant areas of interest, based on your educational and career goals.

The first course in the program, NSPE 7100 (Pediatric Theory 1), focuses on children and families as clients. It explores partnership with children and families, and introduces developmentally-supportive care and family-centred care as frameworks for pediatric nursing practice. The course begins by looking at children in the context of nursing practice, and follows with modules focusing on pertinent nursing care related to children from infancy to adolescence.

The second course, NSPE 7200 (Pediatric Theory 2), has several options. Currently, three different courses focus on: basic pediatric nursing care, pediatric critical care, or post-anesthetic recovery. A Theory 2 course with neuroscience as the focus and a Pediatric Surgical Nursing course are now available. Each of these courses examines a variety of health challenges common to the specific specialty.

The third course, NSPE 7300 (Pediatric Clinical 1), focuses on the knowledge and skills required to begin practising in pediatric nursing. BCIT has organised the course around the following key areas of practice: assessment, feeding, medication administration, fluid balance/nutrition, respiratory support and partnership with children. It emphasises synthesis of knowledge, skills and attitudes that enable nurses to provide competent care to vulnerable children.

Together, the first three courses in the program prepare you to begin working with vulnerable children in hospital and community settings. Some students, particularly those with limited pediatric nursing experience, can benefit from additional clinical practice before beginning employment. We encourage you to take NSPE 7900 (Clinical Preceptorship in Pediatric Nursing) after completing NSPE 7300 (Pediatric Clinical 1). You may use NSPE 7900 as 3 elective credits in the program.

The fourth required course, NSPE 7400 (Pediatric Theory 3), focuses on childbearing families and the issues they face when interacting with health care agencies and professionals. The course uses a phenomenological framework to support you as you develop therapeutic partnership relationships with families. In particular, the course directs students to consider the ways that power, diversity, family capacity, family vulnerability, narrative, meaning, context and imagination enable nurses to facilitate family health promotion.

The second required clinical course in the program, NSPE 7500 (Pediatric Clinical 2), gives you an opportunity to pursue a particular area of interest. Select a key area of pediatric nursing practice and focus your clinical learning on that area of practice.

The remaining credits and courses in the program are electives. Choose electives from within the Pediatric Nursing Specialty: NSPE 7900 (Clinical Preceptorship in Pediatric Nursing), NSPE 7910 (Pediatric Nursing in the Home), NSPE 7920 (Pediatric Arrest Management), NSSC 8120 (Independent Study in Specialty Nursing), and NSPE 7940 (Advanced Concepts in Pediatric Critical Care Nursing). Choose electives from other related BCIT Specialty Nursing Programs, such as Neonatal Nursing. Finally, take electives at other educational institutions that offer courses related to Pediatric nursing.

Entrance Requirements

Prior to taking clinical courses, you must be eligible for registration with the RNABC. If you are near completion of your undergraduate nursing education and have not yet registered as a nurse, you may take the first two theory courses prior to becoming registered.

Prior experience with children and families is an asset. This experience takes a variety of forms, including: a senior preceptorship in nursing school in a pediatric, perinatal or neonatal area; volunteer work with childbearing families; and employment in a Pediatric, Perinatal or Neonatal area.

If you are considering Pediatric Nursing and have not had previous exposure to the profession, you can benefit from a day spent in a hospital Pediatric unit, and from talking to pediatric nurses about the specialty and their practice.

Program Length

BCIT offers this program in a variety of formats and timeframes:

- BCIT offers theory and some clinical courses by part-time, independent study. We deliver theory courses in a 12-week term, using guided-learning modules and telephone/e-mail tutor support. Courses sometimes include teleconferences, which provide opportunities for students and tutors to discuss issues relevant to the course. If you work full-time, you generally register for one theory course per term, although this arrangement may vary depending on your additional commitments.
- Through independent study, learn in your own community and structure your learning schedule in a manner that is most convenient for you. It is possible to complete full-time clinical courses at clinical sites throughout B.C., over a period of three to four weeks. If you live outside B.C., you may negotiate clinical placements that are more conveniently located.
- Most Specialty Nursing programs arrange special offerings of courses as Compressed Time Frame programs. Offered in full-time study formats, they enable you to take several courses over a specified period of time. If you are interested in this option of study, contact the program assistant for more information and program start dates.
- Nurses with relevant experience and/or previous courses can request assessment for appropriate placement within the program.

Maximum program length for either the certificate or the Bachelor of Technology degree is six years.

Preparedness for employment can take from 10 weeks to one year.

Credential

You are eligible to apply for a certificate in Pediatric Nursing after completing 30 credits of approved courses. On receipt of a certificate, you may choose to continue in the degree completion portion of the program, which requires the completion of another 30 credits. Upon completion of all 60 credits of approved courses (including the certificate courses), you are eligible to receive a Bachelor of Technology in Specialty Nursing.

Program Delivery

BCIT offers theory courses via distance education on a part-time basis. Complete one course in twelve weeks using mailed printed material and a telephone tutor for support.

BCIT offers clinical courses as both full-time and part-time courses in a variety of clinical sites throughout British Columbia and across Canada.

We offer two required courses (NSPE 7200, NSPE 7300) plus a clinical elective (NSPE 7900) via a full-time, ten-week program in Greater Vancouver. The first theory course (NSPE 7100) is a prerequisite for this program. We require a minimum of four students to run this option.

Tuition Fees

Tuition fees are $180 per credit. Fees are subject to change without prior notice.

Books, Supplies and Miscellaneous Expenses

Costs vary depending on courses selected. The cost of texts for Pediatric Critical Care courses is $195 (2002/2003, general estimated cost and subject to change). There is no text fee for general Pediatric Nursing courses.

Program Map

Certificate		Credits
NSPE 7100	Pediatric Theory 1	3
NSPE 7200	Pediatric Theory 2	3
or		
NSPE 7230	Pediatric Neuroscience Theory 2	3
or		
NSPE 7240	Pediatric Surgical Nursing Theory 2	3
or		
NSPE 7210	Pediatric Critical Care Theory 2	3
NSPE 7300/7310/7330/7340	Pediatric Clinical 1	4
NSPE 7400	Pediatric Theory 3	4
NSSC 7115	Teaching and Learning in Specialty Nursing	3
NSPE 7500/7510	Pediatric Clinical 2	4
Electives: choose from		9
NSPE 7900	Pediatric Preceptorship	(3)
NSPE 7910	Pediatric Nursing in the Home	(3)
NSPE 7920	Pediatric Arrest Management	(3)
NSPE 7940	Advanced Concepts in Pediatric Critical Care	(3)
NSSC 8120	Independent Study in Specialty Nursing	(2)
Total Credits for Certificate		**30**

Bachelor of Technology Degree Completion		Credits
BUSA 7250	Management Skills and Applications	3
NSSC 8000	Systematic Inquiry	3
NSSC 8300	Creative Leadership	3
NSSC 8500	Professional Caring	3
NSSC 8600	Specialty Nursing Practice/Communities, Health and Partnership	3
NSSC 8800	Specialty Nursing Practice: Health Issues and Action	3
Liberal Education*		12
Total Credits for Degree		**60**

For a certificate and/or degree in Pediatric Critical Care Nursing, BCIT requires the following courses:

Pediatric Critical Care Certificate		Credits
NSPE 7100	Pediatric Theory 1	3
NSPE 7210	Pediatric Critical Care Theory 2	3
NSPE 7310	Pediatric Critical Care Clinical 1	4
NSPE 7400	Pediatric Theory 3	4
NSSC 7115	Teaching and Learning In Specialty Nursing	3
NSPE 7510	Pediatric Critical Care Clinical 2	4
NSPE 7940	Advanced Concepts in Pediatric Critical Care	3
Electives		6
Total Credits for Certificate		**30**

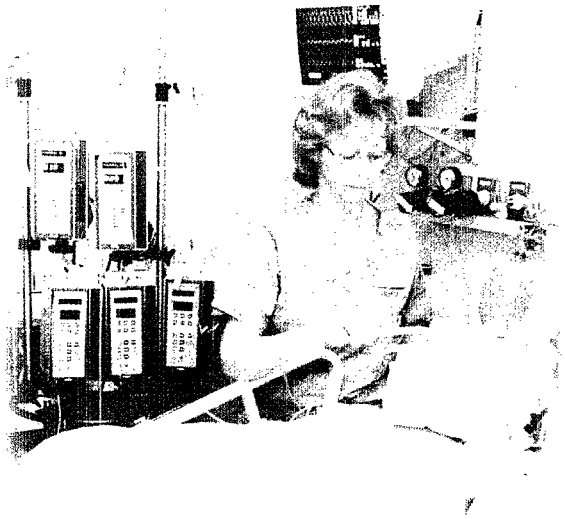
Bachelor of Technology Degree Completion		Credits
NSSC 8000	Systematic Inquiry	3
NSSC 8300	Creative Leadership	3
NSSC 8500	Professional Growth	3
NSSC 8600	Communities, Health and Partnership	3
NSSC 8800	Specialty Nursing Practice: Health Issues and Action	3
BUSA 7250	Management Skills and Applications	3
Liberal Education*		12
Total Credits for Degree		**60**

* For information on the Liberal Education component of the Bachelor of Technology, contact Jackie Saponaro at 604-412-7506 or e-mail Jackie_Saponaro@bcit.ca.

Program Contacts

Sheila Torgerson, Program Assistant
604-432-8982
toll free (1-800) 663-6542 x8982
Sheila_Torgerson@bcit.ca
www.health.bcit.ca

Call for information on our new Pediatric Neuroscience course!



Perinatal Nursing

The goal of Perinatal Nursing is to work in partnership with childbearing families to support empowerment and growth. Perinatal nurses practise in hospital nursing units, breastfeeding clinics, ambulatory care settings, community health care units and in the home. Perinatal Nursing best suits nurses who enjoy working with childbearing women, newborns and families.

a comprehensive combination of theory and clinical courses designed to assist nurses to gain the knowledge and skill necessary to enter practice as novices in perinatal nursing.

Job Opportunities

The current shortage in health care workers means that nurses in the Perinatal area are also needed in British Columbia and Canada. Contact your local hospital and its human resources department for current information, or contact the following Web sites for hospitals in Greater Vancouver:

Region	Web Site
Fraser Health Authority	www.fraserhealth.ca
Interior Health Authority	www.interiorhealth.com
Provincial Health Services Authority	www.healthplanning.gov.bc.ca/socsec/authority.html
Northern Health Authority	www.northernhealth.ca
Vancouver Coastal Health Authority	www.vancoastalhealth.ca
Vancouver Island Health Authority	www.vancouverislandhealth.ca
MedHunters (North America)	www.medhunters.com

The Program

BCIT's Perinatal Nursing Specialty program offers Post-diploma registered nurses a certificate in Perinatal Nursing and a Bachelor of Technology in Specialty Nursing (BTSN).

Nurses may bridge out after 27 credits, obtaining a certificate in Perinatal Nursing, or continue and complete 33 additional credits to complete the BTSN.

Program Length

BCIT offers this program in a variety of formats and timeframes:

- BCIT offers theory and some clinical courses by part-time, independent study. We deliver theory courses in 12-week term, using guided-learning modules and telephone tutor support. Courses often include teleconferences, which provide opportunities for students and tutors to discuss issues relevant to the course. If you work full-time, you would generally register for one theory course per term, although this arrangement may vary depending on your additional commitments.
- Through independent study, learn in your own community and structure your learning schedule in a manner that is most convenient for you. It is possible to complete full-time clinical courses at clinical sites throughout B.C., over a period of three to four weeks. If you live outside B.C., you may negotiate clinical placements that are more conveniently located.
- Most Specialty Nursing programs arrange special offerings of courses as Compressed Time Frame programs. Offered in full-time and part-time study formats, they enable you to take several courses over a specified period of time. If you are interested in this option of study, contact the program assistant for more information and program start dates.
- Nurses with relevant experience and/or previous courses can request assessment for appropriate placement within the program.

Maximum program length for either the certificate or the Bachelor of Technology degree is six years.

Tuition Fees

Each credit is $180. Fees subject to change without prior notice.

Books, Supplies and Miscellaneous Expenses

Total cost: $350 (2002/2003, general estimated cost and subject to change)

Entrance requirements

Acceptance into the certificate program requires RNABC registration. Acceptance into the degree program requires RNABC registration and two years of relevant work experience.

Professional Registration

Certification from BCIT's Perinatal program prepares you to write the Specialty Nursing Exam for Perinatal Nurses through the CNA Certificate Program. Contact CNA at: www.cnanurses.ca.

Program Map

We recommend that you take courses in the following sequence to complete the program.

Certificate		Credits
NSPN 7100	Perinatal Theory 1 Healthy Childbearing Experiences	3
NSPN 7200	Perinatal Theory 2 Childbearing Women	3
NSPN 7450	Neonatal Resuscitation**	.5
NSPN 7300	Perinatal Clinical 1	5
NSPN 7400	Perinatal Theory 3 Childbearing Families	4
NSPN 7250	Fetal Health Surveillance**	.5
NSPN 7500	Perinatal Clinical 2	5
NSSC 7115	Teaching & Learning in Specialty Nursing	3
Program Head Approved Elective*		3
Elective* choose from:		3

- any introductory theory course within the BCIT Nursing Specialties (e.g. Pediatric, Critical Care, etc.). Students interested in a Neonatal elective may take NSNE 7110 Neonatal Theory 1 Modified.
- courses within the Perinatal Nursing Specialty:

NSPN 7800 Clinical Preceptorship in Perinatal Nursing
NSSC 8130 Independent Study in Specialty Nursing

- courses related to Perinatal nursing offered by an accredited institution: Douglas College (Breastfeeding Counsellor Certificate Program, 604-527-5476) Douglas College (Childbirth Educators Program, 604-527-5476)

Total Credits for Certificate	27

*Courses for which there is some choice. For information on the Liberal Education component of the Bachelor of Technology, contact Jackie Saponaro at 604-412-7506 or e-mail Jackie_Saponaro@bcit.ca.

**A prerequisite certification.

Bachelor of Technology Degree Completion		Credits
BUSA 7250	Management Skills and Applications	3
NSSC 8000	Systematic Inquiry	3
NSSC 8300	Creative Leadership	3
NSSC 8500	Professional Caring	3
NSSC 8600	Communities, Health and Partnership	3
NSSC 8800	Community Health: Partnerships in Action	3
Elective*		3
Liberal Education*		12
Total Credits for Degree		60

*Courses for which there is some choice. For information on the Liberal Education component of the Bachelor of Technology, contact Jackie Saponaro at 604-412-7506 or e-mail Jackie_Saponaro@bcit.ca.

**A prerequisite certification.

Note: The above program listing indicates the preferred sequence for the program. More than one course may be taken at a time. Prerequisites are noted in the Course Descriptions section.

Optional Pathways

If you would like educational preparation in the areas of Neonatal or Perioperative Nursing, you have two optional pathways.

Option A

Perinatal Nursing Specialty Certificate (Neonatal Focus)

Certificate		Credits
NSPN 7100	Perinatal Theory 1 Healthy Childbearing Experiences	3
NSPN 7200	Perinatal Theory 2 Childbearing Women	3
NSPN 7450	Neonatal Resuscitation	.5
NSPN 7300	Perinatal Clinical 1	5
NSPN 7400	Perinatal Theory 3 Childbearing Families	4
NSPN 7250	Fetal Health Surveillance	.5
NSPN 7500	Perinatal Clinical 2	5
Core Course (Certificate Level)		
NSSC 7115	Teaching and Learning in Specialty Nursing	3
Neonatal Nursing Courses		
NSNE 7110	Neonatal Theory 1, Modified	3
NSNE 7300	Neonatal Clinical 1	4
Total Credits for Certificate		31

Option B

Perinatal Nursing Specialty Certificate (Perioperative Focus)

Certificate		Credits
Perinatal courses		
NSPN 7100	Perinatal Theory 1 Healthy Childbearing Experiences	3
NSPN 7200	Perinatal Theory 2 Childbearing Women	3
NSPN 7450	Neonatal Resuscitation	.5
NSPN 7300	Perinatal Clinical 1	5
NSPN 7400	Perinatal Theory 3 Childbearing Families	4
NSPN 7250	Fetal Health Surveillance	.5
Core Course (Certificate Level)		
NSSC 7115	Teaching and Learning in Specialty Nursing	3
Perioperative Courses		**Credits**
NSPO 7230	The Individual's Experience of Preparing for Surgery: The Nurse in the Circulating Role	3
NSPO 7330	Perioperative Clinical 1 Implementing the Circulating Role (Modified)	4
NSPO 7430	The Individual's Experience of Surgery: The Nurse in the Scrub Role	2
NSPO 7530	Perioperative Clinical 2 Implementing the Scrub Role (Modified)	4
Total Credits for Certificate		32

Program Contact

Sheila Torgerson, Program Assistant
604-432-8982
toll free (1-800) 663-6542 x8982
Sheila_Torgerson@bcit.ca
www.health.bcit.ca

Perioperative Nursing

Perioperative Nursing focuses on the perioperative experience and the meaning it has for patients, families, nurses and other members of the health care team. It aims to provide competent and compassionate, individualised care that promotes comfort, safety and stability for individuals undergoing surgery and anesthesia.

Perioperative nurses achieve this goal by collaboratively managing and coordinating all phases of individuals' perioperative experiences, advocating for their rights and needs and providing the "human touch" in a predominantly technical environment.

BCIT's Perioperative Nursing Specialty program offers a comprehensive combination of theory and clinical courses, designed to provide nurses with the knowledge and skill necessary to practise as novices in various perioperative settings.

Job Opportunities

Perioperative nurses work in operating rooms in tertiary care hospitals, community and rural hospitals, day care surgery units and specialised clinics. They often provide post-anesthetic care in rural hospitals or specialised units where nurses provide total patient care.

The current shortage in health care practitioners means that nurses in the Perioperative area are needed in British Columbia and throughout Canada. Contact your local hospital and its human resources department for current information.

The Program

This program offers RNs either a certificate in Perioperative Nursing after completing 30 credits, or a Bachelor of Technology in Specialty Nursing (BTSN) after completing an additional 30 credits (for a total of 60 credits).

Program Length

BCIT offers this program in a variety of formats and timeframes:

- BCIT offers theory and some clinical courses in part-time, independent study. We deliver theory courses in a 12-week term, using guided-learning modules and telephone tutor support. Courses may include teleconferences, which provide opportunities for students and tutors to discuss issues relevant to the course. If you work full-time, you generally register for one theory course per term, although this arrangement may vary depending on your additional commitments.
- Through independent study, learn in your own community and structure your learning schedule in a manner that is most convenient for you. It is possible to complete full-time clinical courses at clinical sites throughout B.C., over a three to four week period. If you live outside B.C., you may negotiate clinical placements that are more conveniently located.
- Most Specialty Nursing programs arrange special offerings of courses as Compressed Time Frame programs. Offered in full-time study formats, they enable you to take several courses over a specified period of time. If you are interested in this option of study, contact the program assistant for more information.
- Nurses with relevant experience and/or previous courses can request assessment for appropriate placement within the program.

* Maximum program length for either the certificate or the Bachelor of Technology degree is six years.

Tuition Fees

Course fees: Each credit is $180. Fees are subject to change without prior notice.

Books, Supplies and Miscellaneous Expenses

Core course books for the certificate program: $405 (2002/2003, general estimated cost and subject to change).

Entrance Requirements

Acceptance requires RN, Provincial registration and two years relevant experience or approval of program head.

Professional Certification
CNA national certification program

Graduates of the BCIT program, with one year experience, are eligible to write the Specialty Nursing Exam for Perioperative Nurses through the CNA Certification program. Contact CNA at: www.cna-nurses.ca.

Program Map

Certificate		Credits
NSPO 7100	Perioperative Theory 1 Developing Perioperative Partnerships	3
NSPO 7200	Perioperative Theory 2 The Nurse in the Circulating Role	4
NSPO 7300	Perioperative Clinical 1 Implementing the Circulating Nurse Role	5
NSPO 7400	Perioperative Theory 3 The Nurse in the Scrub Role	2
NSPO 7500	Perioperative Clinical 2 Implementing the Scrub Nurse Role	6
NSPO 7600	Perioperative Theory 4 Integration of the Perioperative Nursing Roles	3
NSPO 7700	Perioperative Clinical 3 Integrated Perioperative Nursing Practice	4
NSSC 7115	Teaching and Learning in Specialty Nursing	3
Total Credits for Certificate		30

Bachelor of Technology Degree Completion		Credits
BUSA 7250	Management Skills and Applications	3
NSSC 8000	Systematic Inquiry*	3
NSSC 8300	Creative Leadership*	3
NSSC 8500	Professional Caring*	3
NSSC 8600	Specialty Nursing Practice/Communities, Health and Partnership*	3
plus		
NSSC 8800	Specialty Nursing Practice: Health Issues and Action*	3
or		
Program approved electives		6
Liberal Education**		12
Total Credits for Degree		60

*Contact a faculty member to discuss the sequence for these courses.

** May be completed at any point during the degree process. For information on the Liberal Education component of the Bachelor of Technology, contact Jackie Saponaro at 604-412-7506 or e-mail Jackie_Saponaro@bcit.ca.

Program Contact

Donna Mitchell, Program Assistant
604-451-7102
toll free (1-800) 663-6542 x7102
Donna_Mitchell@bcit.ca
www.health.bcit.ca

Registered Nurse First Attendant

The Program

BCIT's RN First Assistant program provides participants with the theoretical foundations for the RNFA role, and the opportunity to develop the skills and knowledge required for practice through labs with a surgeon mentor supervising the clinical experience.

The Program

The RN First Assistant (RNFA) practises Perioperative Nursing and collaborates with the surgeon and the health care team in performing a safe operation with optimal outcomes for the patient. Activities include an expansion of Perioperative Nursing practice and involves preoperative, intraoperative and postoperative responsibilities.

The multidisciplinary faculty includes physicians, RNFA and nurse educators and a variety of instructional methodologies.

Program Length

Complete the program by full-time and part-time studies in approximately eight months. Consult the Program Assistant for course delivery schedules.

Credential

The RNFA program totals 12 credits and thus is not sufficient to qualify for a specialty certificate. Upon successful completion of the required courses, you are granted a statement of completion.

Admission Requirements

- Current RN licence to practise where internship is to be taken
- Five years of current Perioperative Nursing experience (full-time or equivalent)
- Canadian Nurses Association National Certification CPN(C)
- BCLS or ACLS current at time of internship
- Two satisfactory peer evaluations, and one self-evaluation of clinical competence
- Satisfactory employer reference
- Letter of intent to mentor from surgeon(s)
- Satisfactory health information
- Application/registration information and payment of full program fees

Program Delivery

BCIT offers the program in a variety of educational delivery methods including:

- part-time computer assisted distance learning
- face-to-face tutorial and lab session (five days full-time)
- 175-hour surgeon-mentored clinical internship.

See RNFA courses in Course Descriptions.

Course Fees

Enrolment requires full payment for the three-course program of $1,800 plus text. BCIT charges an additional lab fee based on lab costs and total student enrolment.

Program Contacts

Donna Mitchell, Program Assistant
604-451-7102
Toll Free: (800) 663-6542 x7102
Donna_Mitchell@bcit.ca

Karen Sheehan, Course Facilitator
604-451-7079
Toll Free: (800) 663-6542 x7079
Karen_Sheehan@bcit.ca

Pharmacology Courses

See CRPT 5008 in Course Descriptions.

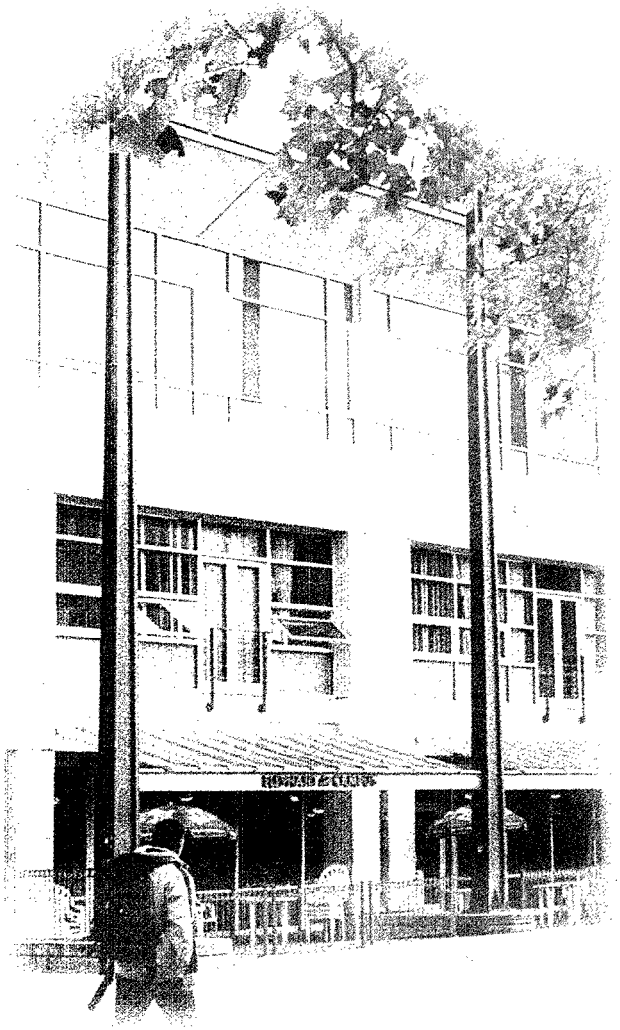
Program Contact

Gail Hourigan, Program Assistant
604-456-8087
Toll free: (1-800) 663-6542 x 8087
Gail_Hourigan@bcit.ca
www.health.bcit.ca

See NURS 5061 in Course Descriptions.

Program Contact

Dina Bedard, Program Assistant
604-432-8853
Toll free: 1-800-663-6542 x 8853
Dina_Bedard@bcit.ca
www.health.bcit.ca



Course Descriptions

BHSC 0100 Human Biology

Provides a survey of the general principles of human body structure and function. Based on the B.C. secondary system's Biology 12 course, but modified to exclude all consideration of plants. Additional content deals with the basics of skeletal and muscular systems. Provides a more medical focus than Biology 12 and may be useful for those desiring a general overview of body structure and function. The BCIT Nursing program accepts this course as satisfying its Biology 12 requirement. This course carries no laboratory component.

Non-credit.

Fees – Course $325, Text $85

BHSC 1117 Anatomy and Physiology for Cardiology

Designed specifically for allied health professionals in the field of Cardiology, focuses on the structure and function of the heart. Covers anatomy of the heart and the relation of the heart to thoracic structures. Relates the structure of the heart muscle cell or myocyte to its electrical and mechanical properties. A discussion of the electrical events of the cardiac cycle provides the electrophysiological basis of the ECG. Relates mechanical events of the cycle to electrical events and to the pressure and volume changes in the heart chambers. Covers structure and function of the blood vessels as components of the circulatory system. A unit on circulatory physiology integrates functions of the heart, blood and vessels. Includes discussions of the respiratory and urinary systems as they influence, and are influenced by, the circulation. **Challenge course available.**

Prerequisite: Biology 12 (C+ or better).

3 credits.

Fee – Course $305, S&H $10

BHSC 1146 Human Behaviour

Uses a psychological perspective to explore topics of relevance to cardiology technologists. Topics include an overview of psychology and psychological methods, health care trends, working with others, development over the life-span, health and well-being, job stress, experience of illness, critical illness and death, approaches to therapy, emotion, interpersonal skills, culture, and professional implications for practice. **Challenge course available.**

Text: Carole Wade and Carol Tauris, *Psychology*, 6th Ed.; + Audiotape.

No prerequisites.

3 credits.

Fees – Course $305, Text $116, S&H $10

Offered in September and April terms.

BHSC 2217 Essentials of Anatomy and Physiology

Provides a general survey of basic human structure and function. May serve as an overview for those wishing some fundamental insights into anatomy and physiology, or as the foundation on which further study can build. Initially establishes the basics of cells and tissues and goes on to survey the body's major organ systems. Required for BCIT's Cardiology programs.

Text: *Essentials of Anatomy and Physiology*, 2nd Ed.

Prerequisite: Biology 12.

3 credits.

Fees – Course $305, Text $90, S&H $10

Offered in September and January terms.

BHSC 3302 Cardiac Pathophysiology

Studies cardiovascular disorders, emphasising the concept of disease as a disturbance of normal structure and function. Begins with a discussion of functional cardiac anatomy, followed by a detailed examination of cardiac pathologies commonly encountered by the cardiovascular technologist. Also discusses systemic diseases and the malfunction of organ systems, which initiate, or are a consequence of, cardiac failure.

Text: L.S. Lilly, *Pathophysiology of Heart Disease*, 2nd Ed., Lippincott, Williams and Wilkins, 1998.

5 credits.

Prerequisite: BHSC 1117.

Fees – Course $505, Text $61, S&H $10

BHSC 5610 Pathology

Introduces human pathology and focuses on disease as a disturbance of normal structure and function. Discusses fundamental disease processes, followed by a study of disease in specific organ systems. Describes both gross and microscopic changes along with the relevant changes in clinical chemistry. Describes some diagnostic procedures and therapeutic measures where they promote a better understanding of the degree process. Designed for students registered in the BMLSc program at UBC. Credit for the course is normally transferable.

Text: Stevens/Lowe, *Pathology*, 2nd Ed., Mosby, 2000.

2 credits.

Fees – Course $205, Text $71, S&H $10

Offered in January term.

BHSC 7601 Sectional Anatomy of the Abdomen and Pelvis

Designed for all imaging technologists who require knowledge of sectional anatomy of the abdomen and pelvis in all three fundamental body planes. Covers the anatomic, functional and pathological relationship among the organs.

Text: Weir/Abrahams, *Imaging Atlas of Human Anatomy*, 2nd Ed., Mosby, 1997. (same text as BHSC 7602, BHSC 7608)

3 credits.

Fees – Course $545, Text $72, S&H $10

Challenge course available.

BHSC 7602 Sectional Anatomy of the Thorax

Designed for all imaging technologists who require knowledge of sectional anatomy. Covers major anatomic features of the thorax, emphasising sectional appearance in all three fundamental body planes. Also deals with anatomic, functional and pathological relationships among organs of the chest.

Text: Weir/Abrahams, *Imaging Atlas of Human Anatomy*, 2nd Ed., Mosby, 1997.

(same text as BHSC 7601)

3 credits.

Fees – Course $545, Text $72, S&H $10

Challenge course available.

BHSC 7603 Sectional Anatomy of the Head and Neck

Designed for all imaging technologists who require knowledge of sectional anatomy of the head, neck and cervical spine of the adult. Examines major anatomic features in all three planes. Explores functional and pathologic relationships.

Text: Weir/Abrahams, *Imaging Atlas of Human Anatomy*, 2nd Ed., Mosby, 1997. (same text as BHSC 7601)

3 credits.

Fees – Course $545, Text $72, S&H $10

Challenge course available.

BHSC 7604 Sectional Anatomy of the Musculoskeletal System

Designed for MR and CT Technologists who require knowledge of sectional anatomy of the musculoskeletal system.

Prerequisite: Graduation from approved program in diagnostic medical radiography/nuclear medicine therapy.

Texts: C.P. Barrett, L.D. Holder, S.J. Poliakoff, *Primer of Sectional Anatomy with MRI and CT Correlation*, 2nd Ed., 1994; T. Berquist, *Pocket Atlas of MRI Musculoskeletal Anatomy*, 1995.

3 credits.

Fees – Course $545, Texts $51 + $30, S&H $10

BMET 0905 Biomedical Image Acquisition and Processing

Digital imaging systems have become an important multidisciplinary field with a wide range of applications. Using pictorial presentations, elementary mathematical formulation and an imaging laboratory, this two-day intensive workshop provides a general understanding of the principles involved in the acquisition and processing of two-dimentional digital images. Reinforces theory throughout the workshop with hands-on medical applications.

Non-credit.

BMET 0906 Medical Lasers: Fundamentals, Safety and Service

A 1.5-day intensive, hands-on workshop designed for application specialists, technologists and engineers who work with medical lasers. Includes laser principles, types and their medical and clinical applications, delivery optics and tissue interaction, regulatory standards and control measures, and the requirements of a hospital laser program. Provides hands-on sessions on laser measurements, performance assurance testing, optical components care and servicing, fibre optic polishing, and basic trouble shooting. Covers CO2, YAG and Argon lasers.

Non-credit.

BMET 0908 Introduction to Servicing Medical Radiographic Equipment

A three-day, hands-on workshop introducing the principles and practice of servicing medical radiographic equipment and systems. Emphasises practical laboratory sessions to teach basic operation, quality and assurance and preventive maintenance of the x-ray system.

Non-credit.

BMET 0909 Practical Aspects of Medical X-ray Fluoroscopy

A two-day workshop teaching the principles and standards of medical fluoroscopic imaging systems. Covers the properties and physical limitations of components in the imaging chain and illustrates how they affect the overall image quality of the system. Integrates theory and practice and emphasises hands-on laboratory sessions.

Non-credit.

BMET 1107 Basic Cardiac Instrumentation and Electricity

Covers basic electricity principles, simple circuit analysis, electrical safety and biomedical instrumentation relating to Cardiology Technology practices.

Prerequisites: Principles of Math 12, Physics 11.

2 credits.

Fees – Course $205, S&H $10

BMET 7101 Medical Technology Management Practice

Focuses on a systematic approach to managing medical technology in clinical settings. Through real-life examples, case studies and projects, leads into analyzing and evaluating the needs and the processes in the management of medical technology in different phases of technology life-cycle. Provides a continuous challenge to the ability of critically reviewing information and solving problems.

Prerequisite: Completion of BCIT Diploma in Health Sciences or equivalent, or approval of the program head.

3 credits.

Fee – Course $545

BUSA 7250 Management Skills and Applications

Provides an overview of the basic skills of a manager and applies these skills through a series of projects and case studies. Examines the evolution of management and the organisational culture and environment. It also teaches the decision-making skills and the skills involved in planning, organising, leading and controlling, including planning and facilitating change, teamwork, applying motivational techniques and effective communication.

3 credits.

Fee – Course $415

Contact:
Management Degree Program Office
604-432-8658 toll free (1-877) 428-8181 mgmtdegr@bcit.ca.

CARD 1101 Introduction to Cardiology

Reviews normal cardiac anatomy and physiology, then introduces the various non-invasive and invasive diagnostic studies currently performed. Exposes a variety of common abnormal cardiovascular conditions, syndromes and treatment strategies and presents implantable devices.

Text: *Cardiology for the House Officer,* Williams and Wilkins, 4th Ed., 1998.

Prerequisite: BHSC 1117, CARD 1103.

4 credits.

Fees – Course $405, Text $57, S&H $10

CARD 1103 Medical Terminology

Designed to familiarise the cardiology technology student with the Greek and Latin roots, prefixes and suffixes that are commonly used in this discipline. The learning material *includes a course guide, printed manual and CD-ROM,* which promotes a highly visual approach to demonstrating the terms. Also provides a built-in audio pronunciation guide. Challenge course available.

CD-ROM: *Medterms Illustrated.*

Prerequisite: None.

1.5 credits.

Fees – Course $155, Text/CD-ROM $100, S&H $10

CARD 1186 Patient Care for Allied Health Professionals

Introduces the hospital environment, basic patient health problems, and basic safety and comfort measures to consider when working with patients, carrying out a variety of procedures, and working with equipment in the patient's environment. Emphasises the behaviours and skills required of allied health professionals who work in the hospital or private laboratory setting. Demonstrates the skills and procedures to be implemented safely during a practicum course. Challenge course available.

Text: *Nursing Interventions*.

Prerequisite: None.

3 credits.

Fees – Course $305, Text $113, S&H $10

Offered in September and January terms.

CARD 1187 Introduction to Statistics for Health

Covers descriptive statistics, elementary probability, statistical estimation and hypothesis testing. These concepts will help students to develop a working understanding of concepts and techniques in each of these topic areas.

Text: *Introduction to Probability and Statistics*, 10th Ed., Mendenhall and Beaver.

Prerequisites: MATH 12.

3 credits.

Fees – Course $305, Text $111, S&H $10

Offered in September and April terms.

CARD 1285 Communication for Allied Health Professionals

Teaches the skills required to efficiently and effectively perform the tasks of allied health professionals, who often spend a considerable part of their working day writing. Documenting patient care, writing letters and memos, preparing written information for clients, writing policies and procedures, completing reports and preparing oral presentations are intrinsic reponsibilities to this role. They may also research and write about topics related to their field, for possible publication in professional journals or for delivery at conferences.

Prerequisite: English 12.

3 credits.

Fee – Course $305, S&H $10

CARD 2201 ECG Interpretation

Exposes the nuances of 12-lead ECG interpretation. Examines all forms of arrhythmias, conduction blocks, infarction and pacemaker rhythms as they relate to the cardiology technologist's role. Challenge course available.

Prerequisites: BHSC 1117, BMET 1107, CARD 1101

Texts: *Quick and Accurate 12-Lead ECG Interpretation*, 3rd Ed.; Dale Davis, *Different Diagnosis of Arrhythmias*, 2nd Ed., W.B. Saunders Co.

3 credits.

Fees – Course $305, Texts $75 + $70, S&H $10

CARD 2202 Cardiology Diagnostic Testing Methodology

Introduces the fundamentals involved in the preparation and performance of non-invasive cardiology diagnostic testing. Includes the practice and principles of basic skin preparation techniques for various studies, landmarking and electrode placement patterns, hook-up protocols, electrocardiographic data acquisition in 12-lead electrocardiography, exercise stress testing, ambulatory ECG and arrhythmia monitoring.

Prerequisites: BMET 1107, CARD 1101, CARD 2201.

3 credits.

Fee – Course $305, S&H $10

CARD 2252 Cardiology Practicum 1

Rotates students through the Cardiology department of various hospitals, professional labs and doctors' offices in order to obtain clinical experience in electrocardiograms, venipunctures, exercise tolerance testing and ambulatory ECG hook-up (25 weeks full-time). Six months prior to completion of the Level 1 Theory courses, students must request a clinical application package by calling the program assistant. For Compressed Time Frame (CTF) course offering, contact the clinical coordinator.

Prerequisite: Successful completion of Level 1 theory courses and clinical coordinator approval.

37.5 credits.

Clinical Fee – $545, S&H $10

For Compressed Time Frame (CTF) course offering, contact the clinical coordinator.

CARD 3205 Introduction to Health Informatics

Provides the health care professional with fundamental knowledge of how the delivery of patient care can be improved through the appropriate application of information systems. Health informatics is a relatively modern discipline emerging from the increasing complexity and constraints in the health care system. Practising health care professionals, whether at the bedside, in support functions, business, or regulatory roles, must be able to demonstrate a competency in the critical use of health information in order to perform their responsibilities in support of their organisations' mission and objectives. The emphasis today on using information effectively in the patient's interest is providing new challenges to health professionals.

Text: M.A., Springer, *Handbook of Medical Informatics*, van Bemmel, J.H. and Musen, 1997.

3 credits.

Fees – Course $305, Text $118, S&H $10

Offered in September and January terms.

CARD 3209 Radiation Protection for Cardiac Imaging

Through readings, assignments and telephone tutoring, this course deals with the fundamental principles and concepts of radiation protection for Cardiac Imaging. First, covers the biological effects of radiation, followed by a description of the general framework for radiation protection. Outlines factors affecting dose in Cardiac Imaging, as well as radiation dose studies in Interventional Fluoroscopy. Concludes with the guidelines and recommendations for radiation protection of patients, personnel and members of the public.

Text: E. Seeram, *Radiation Protection*, Lippincott-Raven, 1997.

3 credits.

Fees – Course $305, Text $62, S&H $10

Offered in September and April terms.

CARD 3280 Introduction to Cardiac Rehabilitation

Provides an overview of cardiac rehabilitation, and emphasises the concept of risk reduction. Discusses epidemiology, preventative practices and pathophysiology of coronary artery disease. Describes inpatient, outpatient, and home cardiac rehabilitation programs. Presents cardiac rehabilitation standards and case studies.

Text: Michael Pollock et al., *Heart Disease and Rehabilitation,* 3rd Ed, 1995.

Prerequisites: Cardiology Level 1 or tutor approval.

3 credits.

Fees – Course $305, Text $106, S&H $10

Offered in September and January terms.

CARD 3330 Electrocardiography and Pacemakers

A comprehensive course in electrocardiographic theory and principles. Examines in detail cellular mechanisms, conduction pathology, and the disease processes responsible for arrhythmias and cardiac muscle damage. Uses a systematic approach to introduce the types and severity of cardiac arrhythmias, symptoms, and treatment modalities. Also looks in-depth at pacemaker function, implant analysis and operation of recommended procedures.

Text: Galen S. Wagner, *Marriott's Practical Electrocardiography 10th Ed.*, Lippincott Williams & Wilkins, 2001.

Prerequisites: CARD 2201, BHSC 3302.

5 credits.

Fees – Course $505, Text $83, S&H $10

CARD 3360 Cardiac Pharmacology

Offers an in-depth evaluation of the specific types of pharmacological agents utilised in the cardiac catheterisation lab and coronary care units, as well as drugs routinely prescribed for cardiac patients. Specifically explores the use of cardiac agents in diagnostic and interventional cardiac catheterisation procedures. Evaluates drugs with respect to their cellular and physiological actions, prescribed usage, alternative nomenclature, dosages, adverse reactions, cautions and common routes of administration. Also emphasizes drugs utilised in EPS, pacemakers and cardiac emergencies.

Text: *Drugs for the Heart*, Lionel H. Opie and Bernard J. Gersh, 5th Ed., Saunders, 2001.

Prerequisite: BHSC 3302.

3 credits.

Fees – Course $305, Text $92, S&H $10

CARD 4201 Concepts in Ambulatory ECG

Provides information on concepts of ambulatory ECG that are essential to the practising cardiology technologist. Covers ambulatory ECG topics, including principles of operation of analysers/recorders, indications/diary/findings, conduction disturbances, ischemia, drugs and miscellaneous, implantable devices, and reporting.

Prerequisites: CARD 2202, CARD 3330, CARD 3360.

2 credits.

Fees – Course $205, S&H $10

CARD 4202 Concepts in Exercise Tolerance Testing

Provides information on concepts of exercise tolerance testing that are essential to the practising cardiology technologist. Covers exercise testing and exercise prescription topics, including: general principles; importance of general factors such as age, gender and environment; and, various diseases and health states. Discusses theoretical basis and clinical application of exercise tolerance testing, and exercise prescription to special cases such as rheumatoid arthritis, osteoporosis, spinal disorders and low back pain, diabetes, obesity, asthma, chronic obstructive respiratory disorders, cystic fibrosis, coronary artery disease, hypertension, children with heart disease, valvular and congenital heart disease in adults, low functional capacity, end-stage renal disease and pregnancy.

Text: James S. Skinner, *Exercise Testing and Exercise Prescription for Special Cases – Theoretical Basis and Clinical Application,* 2nd Edition, Lea and Febiger, Philadelphia, 1993.

Prerequisites: CARD 2202, CARD 3330, CARD 3360.

2 credits.

Fees – Course $205, Text $92, S&H $10

CARD 4203 Concepts in Pacemakers

Currently being revised. Includes indications, technology, electrophysiology, programmability, modes, hemodynamics, rate-modulated, implantable cardioverter defibrillator and antitachycardia devices, implantation and patient follow-up.

Text: D.L. Hayes, M.A. Lloyd, P.A. Friedman, *Cardiac Pacing and Defibrillation: A Clinical Approach,* Futura Publishing, 2001

Prerequisites: CARD 3330, CARD 3360.

3 credits.

Fees – Course $305, Text $167, S&H $10

CARD 4252 Cardiology Practicum 2

Rotates students through the Cardiology departments of various hospitals, professional labs, and doctors' offices to obtain clinical experience in performing electrocardiograms, exercise tolerance, ambulatory ECG, hook-up and analysis and programming of various permanent pacemakers (17 weeks full-time). Six months prior to completion of the Level 2 theory courses, students must request the clinical application package by calling the program assistant. For Compressed Time Frame (CTF) course offering, contact the clinical coordinator.

Prerequisites: Cardiology Level 1 (or Registered Cardiology Technologist) plus successful completion of Cardiology Level 2 theory courses plus clinical coordinator approval.

25 credits.

Clinical Fee: $545, S&H $10

Offered in January and April terms.

For Compressed Time Frame (CTF) course offering contact the clinical coordinator.

CARD 4330 Cardiac Catheterisation: Principles and Practice

A comprehensive course on cardiac catheterisation principles, representing the essentials necessary for a practising cardiovascular technologist. Examines concepts of diagnostic and interventional procedures, with specific orientation to cardiac angiography, hemodynamics, calculations of cardiac indices, and general lab practices. Also presents aspects of congenital cardiac catheterisation, electrophysiology studies, cardiac transplant and cardiac emergencies.

Text: M.J. Kern, *The Cardiac Catheterization Handbook*, 3rd Ed., Mosby Yearbook, 1999.

Prerequisites: BHSC 3302, CARD 3330, CARD 3360 .

5 credits.

Fees – Course $505, Text $91, S&H $10

CARD 4360 Interventional Cardiac Catheterisation

Provides information on interventional cardiac catheterisation, which is essential to the practising cardiovascular technologist. Topics covered include coronary angioplasty, complications and antithrombotic therapy, stents, coronary atherectomy, restenosis, difficult angioplasty situations, high-risk angioplasty, nonangiographic coronary lesion assessment, peripheral and cerebral vascular catheterisation and angioplasty techniques, valvuloplasty, pericardiocentesis and special techniques, and laser coronary angioplasty.

Text: Morton J. Kern and Ubeydullah Deligonul, *The Interventional Cardiac Catheterization Handbook*, 1st Ed., Mosby-Yearbook, Inc., St. Louis, MO, 1996.

Prerequisite: CARD 4330.

2 credits.

Fees – Course $205, Text $92, S&H $10

CARD 6331 Cardiovascular Clinical I: Physiological Monitoring and Electronic Instrumentation

A 14-week full-time clinical rotation performed in a BCIT-approved Cardiovascular Laboratory at a health care facility. Requires the integration and application of the theoretical knowledge presented in the previous six core courses. Designed to allow the student to gradually gain experience in assisting the Cardiologist to perform diagnostic and interventional cardiac catheterisation procedures and hemodynamic calculations. Enables acquisition of unique, clinical site-specific skills to perform hemodynamic monitoring, hemodynamic calculations, arrhythmia recognition, quality assurance and report generation on a variety of physiological monitoring systems. Requires a successful evaluation from the clinical site before BCIT awards credit. For Compressed Time Frame (CTF) course, contact the program head.

Prerequisite: Successful completion of Cardiovascular theory courses plus program head approval.

21 credits.

Clinical Fee – $545, S&H $10

Compressed Time Frame (CTF) – Contact the Program Head

CARD 6332 Cardiovascular Clinical II: Surgical Scrub Technologist Techniques

A four-week, full-time clinical rotation performed in a BCIT-approved Cardiovascular Laboratory, at a health care facility. Designed to allow the student to participate in Cardiovascular aseptic techniques first delivered in CARD 3330, CARD 3360 and CARD 4330. Expects the student to prepare and maintain a sterile field, prepare an operative site, identify and pass surgical instruments to the Cardiologist performing both diagnostic and interventional catheterisation procedures. In addition to these skills, may require the student to maintain hemostasis, and apply proper surgical dressings post case. Requires a successful evaluation from the clinical site before BCIT awards credit.

Prerequisite: Successful completion of Cardiovascular theory courses plus program head approval.

6 credits.

Clinical Fee – $275, S&H $10

Compressed Time Frame (CTF) – Contact the program head

CARD 6333 Cardiovascular Clinical II: Circulating Technologist Techniques

A four-week, full-time clinical rotation performed in a BCIT approved Cardiovascular Laboratory at a health care facility. Designed to allow students to participate in the Cardiovascular aseptic techniques first delivered in CARD 3330, CARD 3360 and CARD 4330. Expects the student to prepare and maintain a sterile field, prepare an operative site, and identify and pass surgical instruments to the Cardiologist performing both diagnostic and interventional catheterisation procedures. In addition to these skills, may require the student to maintain hemostasis, and apply proper surgical dressings post-case. Requires a successful evaluation from the clinical site before BCIT awards credit. Compressed Time Frame (CTF) course available, contact the program head.

Prerequisite: Successful completion of Cardiovascular theory courses plus program head approval.

6 credits.

Clinical Fee – $275, S&H $10

Compressed Time Frame (CTF) – Contact the program head.

CRPT 5001 Clinical Trials by Design

Explores issues and policies behind the development of new medical products and procedures in Canada and the U.S. Emphasizes issues that directly and indirectly affect the clinical phase of development. Identifies the major regulatory requirements for drugs and devices, and provides hands-on experience to critically appraise clinical trials protocols for ethical and scientific relevance.

3 credits.

Fees – Course $545, Text $10, S&H $10

CRPT 5002 Ethics and Legal Issues of Clinical Trials

CPRs (clinical research professionals) and REB (Research Ethics Board) members face similar ethical and legal issues while protecting the rights and dignity of research subjects. They follow international guidelines and regulations, while attempting to prevent protocol violations, adhere to institutional policies and limit personal exposure to liability. This course explores ethical dilemmas, prepares and reviews ethics applications, examines a clinical trials agreement, considers conflicts of interest and shows how to recognize liability issues.

3 credits.

Fees – Course $545, S&H $10

CRPT 5004 Laboratory Issues for Clinical Trials

Emphasizes the importance of maintaining sample integrity at every stage of the analytical process, from collection and handling to transport, analysis, and finally, interpretation of laboratory results. Two CD-ROMs offer the basic theory and procedure for performing a simple venipuncture and transporting infectious materials. Provides opportunities to practise venipuncture for those wishing to gain this skill. In addition, provides the opportunity to review laboratory results to determine normal and abnormal results. This course is specific to CTs and includes the laboratory competencies identified by the ACRP.

3 credits.

Fees – Course $545, Text $91, S&H $10

CRPT 5005 Mastering Study Conduct for Clinical Trials

Gathering credible data while protecting research subjects is the trademark of a reputable clinical research professional. CRPs contribute to accelerated clinical trials if they are skilled in the creation of source documents and written operating procedures, knowledgeable in global regulatory requirements and competent in the daily aspects of study conduct. This course focuses on collecting accurate data while preventing data queries.

3 credits.

Prerequisites: CRPT 5001, CRPT 5002.

Fees – Course $545, Text $82, S&H $10

CRPT 5006 Recruiting Subjects and Sponsors for Clinical Trials

The primary activities within the field of clinical research are to successfully recruit and retain both study subjects and industry sponsors. This unique course covers the strategic marketing concepts necessary to identify and communicate the key strengths that will allow one site to excel over its competition. Explores the strengths of promotional methods including print, radio and Web-based marketing. This basic marketing foundation enables the creation of a marketing plan to fit any budget and the ability to efficiently locate the target audience.

3 credits.

Fees – Course $545, Texts $112 + $81, S&H $10

CRPT 5008 Pharmacology for Clinical Trials

Provides important concepts and principles underlying the use of drugs in clinical settings. Examines the relationship of drug action(s) to human physiology and/or pathophysiology and responsibilities related to clinical drug trials. Uses drug classifications to organize the course content and to provide an appreciation of the scope of pharmaceutical treatment.

3 credits.

Fees – Course $545, Texts $137 + $62, S&H $10

CRPT 5010 Guided Project in Clinical Research

The culmination of the certificate program, this course is an individual project intended for those who do not have access to a clinical or industry site and/or to an experienced preceptor. (If you do have access to a clinical site, refer to CRPT 5009). Using either the provided study protocol or a protocol chosen by the student and approved by the BCIT faculty coordinator, this course reveals the documentation and processes necessary to implement a clinical trial at a research site. Completed project must fulfill both the ICP GCP guidelines and the FDA regulations for clinical research conduct.

Prerequisites: Successful completion of 21 credits from CR program matrix. Program head approval.

3 credits.

Fees – Course $545, S&H $10

ECHO 5101 Ultrasound and Doppler Physics

Covers basic ultrasound and Doppler physical principles. Topics include an introduction to waves, transducers, beam formation, the pulse echo block diagram, image artifacts, real time ultrasound, image storage and image display. The final chapters focus on Doppler physics.

Text: *Essentials of US Physics*, Zagrebski.

3 credits.

Fees – Course $305, Text $81, S&H $10

ECHO 5102 Applied Echocardiography 1

Introduces cardiac anatomy and performance as assessed with echocardiographic techniques. Includes patient preparation, imaging windows and views, image orientation, instrumentation, and two-dimensional, m-mode Doppler echocardiography. The final chapters correlate cardiac hemodynamic changes with sonographic changes.

Text: Allen, *Echocardiography*, 2nd Ed.

3 credits.

Prerequisites: ECHO 5101, BHSC 1117.

Fees – Course $305, Text $196 includes CD-ROM, S&H $10

ECHO 6003 Clinical Experience (Sonographer)

A 16-week course providing practical experience in 2-D, m-mode and Doppler echo techniques. Requires program approval prior to registration.

22.5 credits.

Prerequisite: ECHO 6102.

Clinical Fee: $545

ECHO 6004 Clinical Experience (Non-Sonographer)

A 48-week course providing practical experience in 2-D, m-mode and Doppler echo techniques. Requires program approval prior to registration.

22.5 credits.

Prerequisite: ECHO 6102.

Clinical Fee: $545

ECHO 6102 Applied Echocardiography 2

Continues from ECHO 5102. Topics include: cardiac performance, diseases of the valves, coronary arteries, myocardium and pericardium, prosthetic valves, cardiac masses, infection and congenital disease.

Text: Allen, *Echocardiography* 2nd Ed.

3 credits.

Prerequisites: ECHO 5102, BHSC 3302.

Fees – Course $305, Text $196 includes CD-ROM, S&H $10

ECON 2100 Microeconomics

Investigates economic analysis, focusing on fundamentals of markets, supply and demand, consumer and producer behaviour, and monopoly and competition. Optional areas of business application may explore labour markets, government intervention and environmental regulation. Prepares students to identify and evaluate the economic considerations they will undoubtedly encounter in business.

3 credits. Offered in all 3 terms.

Contact Part-time Registration for dates offered.

Fee – Course $395

FMGT 3210 Cost and Managerial Accounting

Emphasizes the role of the management accountant, cost terms and purposes, cost-volume-profit relationships, job order costing, budgeting, responsibility accounting and standard costs.

4 credits.

(36 weeks). Offered in all 3 terms.

Prerequisite: FMGT 2100 or FMGT 2105 or FMGT 2190.

Contact Part-time Registration for dates offered.

Fee – Course $340

HINS 5100 Introduction to Computers and Telecommunications in Health

Introduces the technical considerations and applications of computers in health care. Describes the value of high quality data in managing patients and institutions effectively. Examines information processing tools that support health care professionals in their practice and decision making.

Discusses computer-mediated communication, telecommunications, and emerging trends in health information systems.

3 credits.

Fees – Course $545, Texts $127 + $60, S&H $10

HINS 5200 Information Systems in Health Care

Introduces health information systems and provides the health care professional with fundamental knowledge of how the delivery of patient care be improved through the appropriate application of health management information systems. Discusses how to apply skills and knowledge to assist in the development and implementation of health information management systems in their organization. Note: This course incorporates and replaces HMGT 5130 Health Information Systems 1 and HMGT 5230 Health Information Systems 2.

3 credits.

Fee – Course $545, Text $109, S&H $10

HINS 5205 Introduction to Health Informatics

Introduces health care professionals to information processing and the technology necessary to support their roles as information technology users. Explores the knowledge and skill levels within three domains – methodology and technology for the processing of data, information and knowledge, and health system *organization and informatics. Assists learners in developing* competencies recommended by the International Medical Informatics Association (IMIA) and the National Nursing Informatics Project. Explores the evolving nature of roles and responsibilities of information technology users including the contribution of informatics to the expanding knowledge base of health care.

3 credits.

Fees – Course $545, Text $118, S&H $10

HINS 5400 Telehealth Concepts

Introduces the emerging field of telehealth. Summarizes the history of telehealth and a state-of-the-art review. Describes the components of a telehealth system as well as the benefits and barriers to telehealth systems. Includes a section on how to set up a telehealth system. Covers an introduction to telehealth evaluation and e-health.

3 credits.

Fees – Course $545, Text $66, S&H $10

HINS 5700 Health Information Systems and Telehealth in Clinical Practice

Focuses on the development of knowledge and skills that will translate into safe and effective clinical practice in accordance with available standards and regulations. Examines the delivery of patient care using methods such as the telephone computer, Internet/e-mail, interactive video, and remote monitoring devices. Considers the role of the clinician within the emerging field of e-health and telehealth applications. Also addresses the utilization of information systems and decision support software to minimize the risks related to clinical practice.

Prerequisite: HINS 5400.

3 credits.

Fees – Course $545, S&H $10

HMGT 4110 Health Care Organizational Behaviour 1

Offers a systematic approach to explaining and predicting human behaviour in a health agency. Assists the manager in determining how that behaviour affects the performance of the organization. Emphasizes the skills required to apply organizational behaviour concepts to real life situations. Uses case studies and assignments to analyze management issues and problems and to formulate realistic plans of action to resolve them.

Text: Robbins, *Organizational Behaviour: Concepts. Controversies. Applications.* (8th Ed., 1998).

(36 hours) 3 credits. Offered in all three terms.

Fees – Course $305, Text $101, S&H $10

HMGT 4130

No longer offered: replaced by HMGT 5700.

HMGT 4150 Human Resource Management

Examines staffing process, including job analysis and description, recruitment and selection, interviewing, training and performance appraisal, management, progressive discipline, and staff reorganization.

(36 hours). 3 credits.

Offered all three terms.

Fees – Course $305, S&H $10

HMGT 4160 Health Labour Relations 1

Examines industrial relations in B.C.'s public sector and health care unions. Includes B.C. Labour legislation and the function of bargaining units, collective bargaining, application of the contract and resolving disputes. Develops skills to apply the Industrial Relations Model to any labour issue.

(18 hours). 1.5 credits.

Fee – Course $163, S&H $10

Offered in Fall and Winter term.

1 weekend Sep 27–29 or Jan 24–26

HMGT 4180

No longer offered. Combined with HMGT 4280 into HMGT 5180.

HMGT 4210 Health Care Organizational Behaviour 2

Continues from Health Care Organizational Behaviour 1 with more emphasis on group behavioural concepts and organizational concepts that impact on practical management. Investigates the variables of group dynamics such as conflict, power and politics.

3 credits.

Prerequisite: HMGT 4110.

Fee – Course $325

Offered in Spring term. 2 weekends to complete.

April 11–13, May 9–11

HMGT 4250 Coaching Skills for Health Care Managers 1

3 credits.

Prerequisite: HMGT 4110.

Not offered in 2002–3.

HMGT 4280 Health Care Systems 2

Continues the examination of issues in the Canadian health care system. **Note:** HGMT 4180+HMGT 4280=HMGT 5180

Texts: A. Crichton, D. Hsu and S. Tsang, *Canada's Health Care System: Its Funding and Organization* (revised edition), 1994 and C.P. Shah, *Public Health and Preventive Medicine in Canada* (4th Ed.), 1994.

(18 hours). 1.5 credits. 6 weeks. Offered in Spring term.

Prerequisite: HMGT 4180 or equivalent

Fees – Course $155 , Text $5, S&H $10

HMGT 4310 Conflict Management in Health

Examines interpersonal styles of conflict management, structural approaches to managing conflict, the use of negotiations to resolve conflict, and third-party conflict resolution.

3 credits.

Prerequisite: HMGT 4110.

Fee – Course $325

Offered in Winter term. 2 weekends to complete.
Jan 17–19, Feb 21–23

HMGT 4350 Influencing and Persuading Skills for Health Care Managers 2

Prerequisite: HMGT 4250.

Not offered in 2002 – 3.

HMGT 4410 Managing Organizational Change and Development

Covers the effect of different approaches on the success of change activities. Applies models for change to practical management situations, especially those involving individuals and organizations resistant to change. Improves the effectiveness of individuals and groups faced with change and evaluates the change process.

Prerequisite: HMGT 4110.

3 credits.

Fee – Course $325

Offered in the Fall term.
2 weekends to complete – Oct 4–6, Nov 1–3

HMGT 4450 Team Building for Health Care Managers

Covers principles of team building and their application. Improves and develops the effectiveness of groups working together temporarily or permanently. Includes criteria such as outputs, quality decisions, team actions, relationships and cooperation. Builds trust and develops openness. Practises analysis and diagnosis of team dynamics, and develops team building programs.

Prerequisite: HMGT 4110.

Fee – Course $325

Offered in the classroom in the Winter term.
2 weekends to complete – Jan 31 – Feb 2, Mar 8 – 10

HMGT 4510 Leadership Skills for Health Care Managers

3 credits.

Not offered in 2002 – 3.

HMGT 5120 Health Care Principles of Management

Discusses roles and functions of management. Provides the knowledge and skills required for planning, organization and control in health care agencies. Addresses such issues as organizational culture, multiculturalism, downsizing, total quality management and creativity. Uses the process of problem solving throughout.

Text: Robbins, Coulter, Stuart–Kotzer, *Management* (Canadian 6th edition), three pamphlets.

(36 hours).

3 credits.

Offered every term. Offers an additional section with face-to-face tutor time in the September term at the Children's and Women's Health Centre of British Columbia, Mondays 1615–1715.

Fees – Course $305, Text $99 + $15, S&H $10

HMGT 5140 Financial Administration for Health Care Managers

No longer offered. Combined with HMGT 4140 into HMGT 5640.

HMGT 5160 Health Labour Relations 2

Covers grievance handling and the arbitration process.

Prerequisite: HMGT 4160 or equivalent.

(18 hours). 1.5 credits.

Fee – Course $163, S&H $10

Offered in the classroom in the Winter and Spring terms.

1 weekend
Feb 28 – Mar 2 or May 2 – 4

HMGT 5170 Health Care Law 1

Covers origins and principles of law, the legal role of health paraprofessionals and significant legal themes.

Text: Jocelyn Downie and Timothy Caulfield, *Canadian Health Law and Policy.*

(18 hours). 1.5 credits.

Fees – Course $163, Text $89, S&H $10

Offered in the Fall term.
1 weekend Oct 19–20

HMGT 5180 Canadian Health System

Examines the Canadian Health System at the federal, provincial, and municipal levels. Includes systems theory and its use in understanding the health system, acute and long-term care, institutional elements, community, environmental and occupational health, health promotion and disease prevention, health staffing issues, alternate forms of care and future trends. (Combines HMGT 4180 and HMGT 4280).

Texts: A. Crichton, D. Hsu and S. Tsang, *Canada's Health Care System: Its Funding and Organization* (revised Ed.), 1994, and C.P. Shah, *Public Health and Preventive Medicine in Canada* (4th Ed.), 1994.

3 credits. Offered every term.

Fees – Course $305, Text $101 + $60, S&H $10

HMGT 5270 Health Care Law 2

Continues from Health Care Law 1 to examine legal issues important to health care managers and leaders. Write the final examination 12 days after the end of classroom instruction.

Text: Jocelyn Downie and Timothy Caulfield, *Canadian Health Law and Policy.*

(18 hours).

Prerequisite: HMGT 5170.

1.5 credits.

Fees – Course $163, Text $89 (if you have not purchased it already for HMGT 5170), S&H $10

Offered in the Winter term.
1 weekend Feb. 7–9, 2003

HMGT 5320 Application of Theory to Selected Health Care Problems

No longer offered: replaced by HMGT 5800.

HMGT 5500 Project Management in Health Care

Provides a general introduction to project management for health care professionals. Describes the skills and competencies of an effective project manager. Details the stages of the generic project management process including staging, planning, implementation, close out and evaluation of projects. In addition to the project management text, includes readings and discussions specific to health project management for clinical research, health information, health care quality management and health technology professionals. Introduces project management software.

Requires completion of an outline of a project management plan for a relevant health care project.

Prerequisites: diploma, a degree or equivalent in the health care field, including, but not limited to nursing, laboratory technology, engineering and health care management. English language proficiency according to BCIT policy.

3 credits.

Fees – Course $545, Text $94, S&H $10

HMGT 5640 B.C. Health Care Financial Planning and Management

Covers financial accounting, including: the preparation and interpretation of financial statements; managerial accounting, using information to make decisions and to improve efficiency and effectiveness of resource use; and, financial management, focusing on asset management, cash flow analysis, operating and capital budgets and financial feasibility studies.

3 credits.

Offered every term. Online only.

Fee – Course $545, case studies, S&H $10

HMGT 5700 Total Quality Management and CQI Tools

Presents the key theory and current practice in quality improvement specifically in health services. Concentrates on the fundamental management tools and techniques, specialized skills and the structured focus of continuously improving all processes. Focuses on developing competency in using the quality planning tools to make progress on the potential for improvement in key care and service processes. The quality planning tools are applicable to all health care settings.

3 credits.

Fees – Course $545, course manual and reading material, S&H $10

HMGT 5740 Accountability Measures

Presents the key theory and practice in performance measurement, specifically in health services. Concentrates on fundamental accountability tools and techniques used to monitor and report on efforts to continuously improve the quality of health service delivered. Focuses on developing competency in performance measurement in order to show progress in evidence-based management and improved outcomes. The performance measurement processes are applicable to all health care settings.

3 credits.

Prerequisite: HMGT 5700.

Fees – Course $545, reading material, S&H $10

HMGT 5760 Integrating Quality, Risk and Utilization Management

Presents the key theory and current practice of quality, risk and utilization management with specific application to health services. Focuses on demonstrating the integrated nature of quality assessment, quality planning, risk and utilization management, and how the application of these quality systems and tools is essential for today's health organization. Covers quality management assessment, client satisfaction and provider competence, risk management tools, utilization management (accessibility, effectiveness, efficiency and appropriateness) and tools and quality management monitoring and reporting. 3 credits.

Prerequisite: HMGT 5700.

Fees – Course $545, reading material, S&H $10

HMGT 5800 Integrative Project

Requires the application of skills and knowledge from previous courses to a practical problem or opportunity in the work setting. Course participant, employer, and BCIT faculty collaborate to develop a project plan that meets the objectives of the course. Before enrolling in this course, you must identify potential projects and consult with your program head. If you are enrolled in the Clinical Research program and do not have access to a clinical site, refer to CRPT 5010.

Fees – Course $545, reading material, S&H $10

HMGT 6320 Clerkship

For most students without experience, the clerkship for the MHA program involves a three-month placement in a health care institution, during which you learn management skills on the job from senior managers. Arranges administrative residencies in health care organizations, which permit you to observe and participate in the application of management and leadership skills in the health field. A stipend may be paid by the organization. Generally, assigns you specific projects to complete. If you have experience in the industry, the content of the clerkship can vary to broaden and enhance your experience and can be arranged at your place of work.

17.5 credits.

Scheduled by the program head. Offered year-round to suit your schedule. For the MHA program only.

Fee – Clinical $545

HTMT 5100 Health Technology Management and the Health Care Environment

An introduction to Health Technology Management for health care professionals. Explores foundational concepts of HTM, which include an expanded definition of technology, management of technology (MOT), and attributes of the health care environment in a variety of settings. Contrasts these concepts with current practices in business and health care. Enables the course participant to compare his or her own skills to the role of a senior health technology manager, using a variety of self-assessment tools and job descriptions.

3 credits.

Fee – Course $545

HTMT 5300 Leading Technological Change and the Learning Culture

Provides both a strategic and operational view of leading technological change in healthcare organizations. A theoretical overview of organizational change provides the groundwork for understanding the process of change, human reaction to change, and the effects of change on the organization. Explores the importance and process for understanding the need and impetus behind change. Discusses models for managing change and provides a learning experience in creating a vision of change, and assessing the impact of change of the organization. Examines leadership competencies for change sponsors, leaders, and other change agents in the context of successful change. Provides a concrete and pragmatic approach to managing change that will assist participants in avoiding common pitfalls and problems evident in many change initiatives today.

3 credits.

Fees – Course $545, Reading Package $40, S&H $10

HTMT 5400 Balancing the Product/ Service Innovation Process with Health Technology Assessment

Explores trends in health technology product/service innovation, evidence-based technology assessment, and the relationships between them. Helps the manager to align internal innovation and technology selection activity with the activities of the organization, and relate these activities to client, patient, customer, and user needs. Also explores ethical considerations, risk management, hazards, and standards for health technology.

3 credits.

Under development

HTMT 5500 Organizing Teams for Innovation and Organizational Flexibility

Examines the relationship between structure and function in health care organizations. Designed for today's rapidly changing health care environment, explores ways of applying decentralized multi-disciplinary teams, multi-functional managers, and technologically adept personnel to create organizational flexibility. Enables analysis of the organizational structure and policy in the participant's health care organization to identify its strengths and weaknesses, and relate these structures to organizational flexibility. Helps to identify and relate the key attributes of a learning culture to the organization, design a personnel selection system to track pockets of high expertise, and prepare a knowledge base management program to support extensive collaboration and decision-making within the organization.

3 credits.

Fees – Course $545, Reading Package $37.50, S&H $10

HTMT 5700 HTM Strategy, Technology Scanning, and the Executive Role

Examines the belief that health technology management and innovation in a technology-based health care organization can become endemic only with senior technological leadership. Explores the role of the Chief Technology Officer (CTO) in health care. Offers a systematic approach to identify and foster core competencies and core technologies within a health care organization, develop a corporate-wide strategy that integrates health care, technology, and business strategies, and identify strategic emerging health technologies through professional bodies, published research, conferences, vendors, and popular news reports.

3 credits.

Under development.

LIBS 7001 Critical Reading and Writing

Develops advanced skills in critical analysis, close reading, and composition by analysing and evaluating written materials from a variety of disciplines, composing documents, and discussing principles of critical analysis. Documents may be selected from technical and business journals, correspondence, and reports, newspapers and magazines, non-fiction prose literature, film, video and the Internet. The course format includes lecture, discussion and both individual and group activities.

Prerequisites: Equivalent of 3 credits of university/college composition or 6 credits of BCIT Communication.

3 credits.

Fee – Course $595

LIBS 7002 Applied Ethics

The aim of this course is to foster the abilities and values required for ethical conduct in the world of work. Such contact requires skills in logical analysis, a working knowledge of moral principles and theories, and the ability to diagnose and resolve moral disagreements of the sort commonly found at work. In order to achieve these aims we will examine historically-famous cases in accounting, management, engineering, health care and computing, and we will apply moral principles and models of ethical conduct to them. Students will learn: how to identify premises and conclusions in moral reasoning; how to judge the validity and soundness of moral arguments; how to test the suitability of moral principles in a given case; and, how to deal with differences of opinion in a respectful, yet persuasive manner.

Prerequisite: Equivalent of 3 credits of university/college composition or 6 credits of BCIT Communication.

3 credits.

Fee – Course $595

MIMG 6200 MRI Clinical Practicum

Designed as the practical component of the BCIT MRI Certificate program, this course meets CAMRT requirements and may be accessed after completion of all MRI Certificate Program theory courses. Requires completion of a Record of Clinical Experience under the supervision of a qualified assessor, at a pre-arranged clinical site during the three-month (or equivalent) practicum. BCIT arranges for the clinical practicum on an individual basis. Contact program head to register. BCIT provides a Compressed Time Frame (CTF) Clinical Practicum for practitioners.

Prerequisites: BHSC 7601, BHSC 7602, BHSC 7603, BHSC 7604, MIMG 7200, MIMG 7201, MIMG 7202.

18 credits.

Fee – $545
In addition, there may be a fee associated with the hospital. You must negotiate this cost with the hospital.

MIMG 6300 CT Clinical Practicum

Designed as the practical component of the CT Certificate program, this course may be accessed after completion of all CT Certificate theory courses. Requires completion of a Record of Clinical Experience under the supervision of a qualified assessor, at a pre-arranged clinical site during the three-month (or equivalent) practicum. BCIT arranges the clinical practicum on an individual basis. Contact program head to register. BCIT provides a Compressed Time Frame (CTF) Clinical Practicum for practitioners.

Prerequisites: BHSC 7601, BHSC 7602, BHSC 7603, MIMG 7200, MIMG 7300.

18 credits.

Fee – $545
In addition, there may be a fee associated with the hospital. You must negotiate this cost with the hospital.

MIMG 6400 Mammography Clinical Practicum

Provides the clinical experience necessary for the CAMRT Certificate in Breast Imaging and the BCIT Breast Imaging Certificate. May be accessed after completion of all required Breast Imaging Certificate courses. Requires completion of a Record of Clinical Experience, under the supervision of a qualified assessor at a pre-arranged clinical site during the three-month (or equivalent) practicum. BCIT arranges the clinical practicum on an individual basis. BCIT provides a Compressed Time Frame (CTF) Clinical Practicum for practitioners. Contact program head to register.

18 credits.

Fee – $545
In addition, there may be a fee associated with the hospital. You must negotiate this cost with the hospital.

MIMG 6400 Clinical manual contains a detailed description of MIMG 6403 case submission.

MIMG 6403 Case Submission

Requires students to prepare and submit 13 files for evaluation and scoring during the clinical practicum, as defined by the Canadian Association of Medical Technologists (CAMRT) in its Certification Handbook for Breast Imaging (obtained from CAMRT). These 13 films include one phantom film and three complete, bilateral cases, with four original films per case (12 films). In addition, students must complete a Film Release Authorisation Form, which indicates that the case films are original work (completed within six months of the submission). Student and supervisor sign the form and send it with the case submission to CAMRT for evaluation and scoring.

MIMG 7000 Technological Advances in X-ray Imaging

Provides technology update of radiographic, fluoroscopic and digital x-ray imaging systems. Presents a history of diagnostic radiology, followed by an evaluation of state-of the-art x-ray tube and generator technology and x-ray absorptiometry systems. Includes a description of quality improvement methodologies. Explores developments in digital imaging systems such as computed radiography, computers and information technology, digital fluoroscopy, digital mammography and computed tomography. Also discusses film digitisers, laser imagers, PACS systems and teleradiology.

Text: *Syllabus: A Categorical Course in Physics*, Radiological Society of North America.

3 credits.

Fees – Course $545, Text $92, S&H $10

MIMG 7003 Digital Imaging and Information Technology in Radiology

Deals with the concepts of digital radiology imaging systems and the application of information technology in diagnostic radiology. Focuses on digital image acquisition systems in radiology, with an emphasis on digital radiography, digital mammography, digital fluoroscopy, computed tomography, and magnetic resonance imaging. Examines information technology concepts in radiology, such as the essential features of picture archiving and communication systems (PACS), including components and infrastructure design considerations, such as system standardisation, connectivity, reliability and security.

Text:Huang, K.K., *PACS: Basic Principles and Applications*, 1999.

Prerequisite: Registered technologist in diagnostic radiology.

3 credits.

Fees – Course $545, Text $177, S&H $10

MIMG 7004 Advanced Topics in Patient Care

Provides a solid theoretical base for the delivery of safe patient care in potentially unstable or unpredictable situations, basic IV, oxygen, and suctioning theory, initiating intravenous infusion, total parenteral nutrition, and pulse oximetry and ECG monitoring. Other topics include the purpose and significance of a variety of tubes, lines and specialised equipment, common emergencies, and pharmaceuticals specific to the Medical Imaging Department, including Cardiac Catheterisation Laboratory.

Texts: *Davis's Drug Guide for Nurses; Nursing Procedures*.

Prerequisite: Graduation as allied health technologist or CARD 1186.

3 credits.

Fees – Course $545, Texts $60 + $78, S&H $10

Offered September and January term.

This course is also available on the Web.

MIMG 7006 Understanding Research in Health Sciences

Introduces the nature of scientific research through the major steps in the research process including: research terminology; methodologies for quantitative and qualitative research; research problems/questions/hypotheses; literature review; research designs; and, ethical considerations. Also discusses data collection techniques and analysis, and communicating and reporting research results.

Text: T.A. Baumgartner, and C.H. Strong., *Conducting and Reading Research in Health and Human Performance*, WCB McGraw Hill Publishers, 1998.

3 credits.

Fees – Course $545, Text $104, S&H $10

MIMG 7007 Image Quality in Diagnostic Radiology

Deals with the three major components of image quality: contrast, spatial resolution and noise. Topics include: physics and technology of film-screen and digital imaging systems, and physical characteristics of contrast, spatial resolution, and noise in diagnostic radiology. Also discusses measurement of image quality, and perception of visual information. Includes selected research studies on image quality.

Text: Perry Sprawls, *Physical Principles of Medical Imaging,* Medical Physics Publishing, 1995.

3 credits.

Fees – Course $545, Text $116, S&H $10

MIMG 7008 Research Project

Leads through the main components of a research project. In the period of a semester, you are required to choose a research topic or question, review the literature about the chosen topic, further refine the research question, design a survey instrument, administer the survey, analyse the collected data and report your findings. Promotes survey research methods to accommodate the limited time-frame. If the research project is unsuitable to survey methods, provides guidance in alternative research methods. Course modules must be completed sequentially so that the research project evolves in a logical fashion.

3 credits.

Text: *Successful Surveys: Research Methods and Practice* 2nd Ed., Gray and Guppy, 1999.

Fees – Course $545, Text $TBA, S&H $10

MIMG 7009 Radiation Risks and Protection

Revised

Thoroughly examines the philosophy of radiological risk through the Recommendations of the International Commission on Radiological protection (ICRP 60), and provides practical radiation protection training. Suited to those needing to design and perform Quality Assurance (QA) programs. Answers questions such as How do I apply "the justification of a practice" principle in my department? To what degree will deterministic effects such as mental retardation be seen in a child in the womb inadvertently exposed to diagnostic x-rays? What is the linear non-threshold dose-response model? Why is it advantageous to involve the patient in the decision making process with regard to his/her exposure to x-ray radiation? What controlling factors for radiation protection are under the direct control of the technologist? Concludes with an introduction to non-ionizing radiation.

Text: E. Seeram, *Radiation Protection*, Lippincott-Raven, 1999.

3 credits.

Fees – Course $545, Texts: $TBA + $61, S&H $10

MIMG 7010 Quality Assurance in Diagnostic Radiology

Through readings, Internet activities, assignments, and teletutoring support, this course addresses the major concepts and issues surrounding continuous quality improvements (CQI) in diagnostic radiology. First, outlines quality management concepts and procedures, followed by an analysis of quality control (QC) testing for radiology and fluoroscopy systems. Additionally, reviews QC testing for film processing, conventional tomography and mammography systems. Concludes with an evaluation of a repeat film analysis, and examines radiation protection as a significant part of a radiology CQI program.

3 credits.

Text: Papp, J. *Quality Management in the Imaging Sciences*, 1998.

Fees – Course $545, Text $TBA, S&H $10

MIMG 7011 Quality Assurance Project

Applies the principles and concepts of quality assurance (QA) and quality control (QC) to the development of a comprehensive QA/QC manual for Diagnostic Radiology. First, students must complete of a detailed survey of the status of their department's QA program, using a set of worksheets provided by the Radiation Protection Bureau – Health Canada. Second, using the results of the survey, develop a QA/QC manual for the Radiology Department, with a format and content listing a wide range of items considered essential by the Radiation Protection Bureau – Health Canada.

3 credits.

Fees – Course $545, S&H $10

MIMG 7101 Advances in Special Procedures

Intended for technologists who require a formal study of special procedures. Topics include angiography procedures, suite and patient considerations, vascular anatomy using DSA Images, and DSA equipment and procedures, including cardiac angiography, angioplasty, embolisation, nephrostomy, biliary drainage and other interventional radiology examinations. Aimed at improving clinical performance in special procedures.

Text: *Interventional Radiology*, Kressel and Robertson, 2000.

3 credits.

Fees – Course $545, Text $230, S&H $10

Offered in September and January terms.

MIMG 7200 Magnetic Resonance Imaging 1: Physical Principles and Instrumentation

Revised

Covers the physical principles of MRI, including the basic physics of NMR and the equipment needed to produce magnetic resonance images, digital imaging related to MRI, bioeffects and hazards of magnetic fields, radio frequency radiation, and guidelines for safe use of MRI.

Text: Stewart C. Bushong, ScD, *Magnetic Resonance Imaging*, 3rd Ed. C.V. Mosby Company, 2003.

3 credits.

Fees – Course $545, Text $TBA, S&H $10

BCIT also offers this course via Internet.

MIMG 7201 Magnetic Resonance Imaging 2: Image Production and Tissue Characterisation

Deals with how Magnetic Resonance Images are produced using pulse sequences, gradient coils and fast imaging techniques. Introduces technical factors, quality assurance and patient screening checklists. Examines advanced techniques of spectroscopy, fast-scan imaging, imaging of motion and flow, and diffusion. Discusses clinical applications of MRI used in evaluation of the brain, spine, musculoskeletal system, cardiovascular system, abdomen and haemorrhage.

Text: To be confirmed at registration.

Prerequisites: MIMG 7200.

3 credits.

Fees – Course $545, Text $53, S&H $10

MIMG 7202 Magnetic Resonance Imaging 3: Imaging Techniques QC and Artifacts

Through readings and assignments, focuses on MR imaging techniques and their pulse sequence diagrams. Reviews some concepts and clarifies some of the fine points of k-space. Evaluates the important controlled parameters and how change in these areas affect image quality. Identifies and discusses MRI artifacts with respect to the patient and the technology. Describes mechanisms to minimise or eliminate recognised artifacts. Also describes a summary of quality assurance phantoms and tests used to evaluate image characteristics for an effective quality control program.

Text: Hashemi and Bradley, *MRI-The Basics*, Williams & Wilkins, 1997.

Prerequisites: MIMG 7200, MIMG 7201.

3 credits.

Fees – Course $545, Text $98, S&H $10

MIMG 7300 Computed Tomography 1: Physics and Instrumentation

Through readings and assignments, deals with the physic and technologic aspects of conventional and spiral/helical CT, including digital image processing, radiation attenuation, data acquisition, and image reconstruction. In addition, describes the major components of a CT-scanner (computers, array processors, display, recording and storage devices) and discusses the factors affecting image quality and radiation dose to the patient. A major section deals with Multislice CT technology and its application, such as CT Fluoroscopy, Three-Dimensional CT, CT Angiography and Virtual Reality Imaging. Also discusses image artifacts, quality control and mobile CT scanning.

Text: E. Seeram, *Computed Tomography: Physical Principles, Clinical Applications and Quality Control,* W.B. Saunders Company, 2001.

3 credits.

Fees – Course $545, Texts $72, S&H $10

Challenge course available.

MIMG 7301 Computed Tomography 2: Clinical Applications

Emphasises, through lectures and clinical practice, the practical aspects of CT scanning, such as patient positioning, care and handling, as well as scanning protocols for the head, neck, chest, abdomen, pelvis and extremities. Also emphasises the practical aspects of the equipment and clinical applications of CT.

Text: Hofer, M. Thieme, *CT Teaching Manual*, 2000.

Prerequisites: MIMG 7300.

3 credits.

Fees – Course $545, Text $131, S&H $10

Challenge course available.

MIMG 7400 Breast Imaging 1: Physical Principles and Instrumentation

Traces the evolution of film-screen mammography, and describes the physics and technology of breast imaging, including digital mammography. Discusses radiation dose and risk considerations, radiation protection, quality assurance/control and the Mammography Quality Standards Act. Includes current research in breast imaging, including other techniques such as ultrasound, MRI, digital tomosynthesis, laser CT imaging and nuclear medicine.

Texts: Howard W. Raymond, M.D., William J. Zwiebel, M.D., Joel D. Swartz, M.D., *Seminars in Ultrasound, CT and MRI*, Vol. 17, No. 5, October 1996; Health Canada, *Radiation Protection in Mammography (Safety Code 33)*, Canada Communication Publishing, 1995.

3 credits.

Fees – Course $545, Texts $14 + $63, S&H $10

MIMG 7401 Breast Imaging 2: Clinical Applications

Explores a range of topics essential to clinical breast imaging including: anatomy and physiology; pathology; patient care and communication; positioning; technique and film evaluation considerations; and clinical assessment.

Text: Wentz, G., *Mammography for Radiologic Technologists,* 2nd Ed., 1997.

Prerequisite: MIMG 7400.

2 credits.

Fees – Course $365, Text $77, S&H $10

MIMG 7500 Bone Densitometry

Begins with an introduction to osteoporosis and its impact on society, followed by a brief review of relevant anatomy and physiology. Also highlights different bone densitometry techniques. While focusing on Dual Energy X-Ray Absorptiometry (DEXA), also considers other densitometry methods for both axial and peripheral measurements. Discusses quality control issues and statistical interpretation of results relevant to DEXA. The final chapters focus on the current treatments and clinical applications that technologists can expect to encounter in a clinical setting.

3 credits.

Text: Bonnick, *Bone Densitometry in Clinical Practice: Applications and Interpretation*, Humana Press, 1998.

Fees – Course $545, Text $163, S&H $10

NMED 0500 Nuclear Medicine Clinical Experience

A four-week clinical experience for foreign exchange students or foreign-trained technologists who wish to gain professional certification in Canada. You work under the direct supervision of a certified Nuclear Medicine technologist in a BCIT clinical affiliate site. You must provide documentation from a Nuclear Medicine Technology program with a history of clinical procedures performed. You are responsible for arranging the clinical site and obtaining approval from BCIT. Clinical does not provide evaluation or assessment.

NMED 1117 Basic Venipuncture for Allied Health Professionals

Designed for students of allied health training programs or allied health practitioners who have not yet received training in venipuncture. Course material is supplied in CD-ROM format for Windows, and includes graphics and video clips. Provides the basic theory and procedure to perform simple venipuncture for the purpose of either blood collection or injection of a substance into the bloodstream. A laboratory component is associated with and follows successful completion of the multimedia courseware. Cardiology students must take this course in the term prior to their Level 1 Clinical.

1 credit.

Fees – Course $105, Texts $10, CD-ROM $45, S&H $10

NMED 5510 PET with Dedicated and Dual Head Coincidence Cameras

Introduces the general principles of PET, followed by a detailed description of PET physics and radionuclide production. Describes PET camera design and performance for both dedicated and dual head coincidence systems. Also discusses quality control, image acquisition and reconstruction, image characteristics, quantitation and analysis.

4 credits.

Fees – Course $405, Text $10, S&H $10

Fees outside Canada – Course $625 CDN, Text $10 CDN, S&H $25 CDN

NSCC 7100 Introduction to Critical Care Nursing

Introduces critical care nursing practice and explores what it means to be a critically-ill person. Examines fundamental concepts, including oxygen supply and demand, comprehensive assessment, technology as practice, and clinical and ethical decision making. An observational experience in a critical care unit provides insight into the patient's experience of illness, the role of the critical care nurse, and the context of critical care nursing practice.

Texts: Zilm, G. and Entwistle, C., *The Smart Way: An Introduction to Writing for Nurses*, 2nd Ed. Toronto, WB Saunders, 2002; Urden, L., Stacy, K., Lough, M., *Thelan's Critical Care Nursing Diagnosis and Management*, 4th Ed. Toronto. Mosby, 2002.

Video: *Comprehensive Assessment.*

Prerequisites: RNABC registration or eligibility for registration. Two years relevant work experience.

3 credits.

Fees – Course $545, Texts $30 + $135, Video $8, S&H $10

NSCC 7200 Critical Care Nursing Theory 1

Offered Sep 2002

Builds on the understanding of critical care nursing practice, by examining the critical care nurse's role in the context of the patient's experience of selected critical illnesses. Specifically, provides opportunities to develop and apply nursing knowledge related to assessment, monitoring, intervention, health promotion, healing and comfort, for individuals who experience an imbalance in oxygen supply and demand (e.g. angina, MI, cardiac failure, respiratory insufficiency). Enhances understanding of the individual's

experience of a potentially life-threatening illness by exploring concepts such as transition, crisis and vulnerability.

Text: Guzeeta, C.E., Dossey, B.M., *Cardiovascular Nursing; Holistic practice*, St. Louis: Mosby, 1992; Huszar, R.J., *Basic Dysrythmias: Interpretation and Management*, 2nd Ed., St. Louis: Mosby 1994.

Prerequisite: NSCC 7100 (65%).

4 credits.

Fees – Course $725, Texts $58 + $100, S&H $10

NSCC 7225 Cardiac Nursing Step-down Theory

Expands technology as practice of cardiac step-down nursing by providing an opportunity to further develop and apply nursing knowledge related to the patient's experience of selected cardiac health challenges. In a series of patient cases, focuses on developing partnerships with patients to assess, intervene and promote comfort and healing for individuals experiencing cardiomyopathy, inflammatory cardiac disorders, valvular heart disease, pacemaker and AICD therapy, and recovery from cardiac surgery.

Text: Guzetta, C.E., Dossey, B.M, 1992, *Cardiovascular Nursing; Holistic Practice*, St. Louis: Mosby.

Prerequisite: NSCC 7100. (65%).

Prerequisite/Corequisite: NSCC 7200.

2 credits.

Fees – Course $365, Text $100, S&H $10

NSCC 7300 Critical Care Nursing Clinical 1

Provides opportunities to apply and integrate nursing knowledge, while providing nursing care for critically ill patients who are experiencing common health problems such as angina, MI, cardiac failure, and respiratory insufficiency. Provides opportunities to develop comprehensive assessment abilities, monitoring skills, and clinical decision-making. Using a partnership approach, seeks to understand the patient's experience of critical illness, to promote comfort, and to facilitate healing. Post conferences explore health promotion and the influence of the critical care environment in patient care. Includes laboratory experiences focusing on airway management, care of the patient with a central line and cardiac arrest management.

Text: Aehlert, B., *ACLS Quick Review Study Guide*, 2nd Ed. Toronto. Mosby, 2002.

Prerequisites: NSCC 7200 (75%).

3 credits.

Fees – Clinical $545, Text $50, S&H $10

NSCC 7325 Cardiac Nursing – Step-down Clinical

Provides opportunities to apply and integrate nursing knowledge when providing care for cardiac patients who are experiencing health problems such as angina, MI, CHF, and respiratory insufficiency. Also provides opportunities to care for post-operative cardiac step-down patients. Applies and analyses practice frameworks to support development of a systematic approach to nursing care. Further develops comprehensive assessment abilities, monitoring skills and clinical decision-making. Using a partnership approach, seeks to understand the patient's illness experience, to promote comfort, and to facilitate healing. Includes laboratory experiences focusing on airway management, care of the patient with a central line, pacemakers, and cardiac arrest management.

Text: Aehlert, *ACLS Quick Review Study Guide*, 2nd Ed., Toronto, Mosby, 2002.

Prerequisite: NSCC 7200 (75%), NSCC 7225 (75%).

4 credits.

Fees – Clinical $725, Text $50, S&H $10

NSCC 7400 Critical Care Nursing Theory 2

Expands on technology within the practice of critical care nursing in the context of patients' and family members' experience of critical illness. Explores increasingly complex health problems (e.g. brain injury, drug poisoning, acute respiratory failure, hypovolemic shock, sepsis) to provide opportunities to integrate and expand knowledge of assessment, monitoring, intervention, healing and comfort. Examines concepts such as loss and grief, hope and suffering, ethical issues, and patient/family members' experience with potentially life-threatening illness.

Prerequisites: NSCC 7300

5 credits.

Texts: Clochesy, J.M., Breu, C., Cardin, S., Whittaker, A.A., Rudy, E.B., *Critical Care Nursing* 2nd Ed., Philadelphia. W.B. Saunders, 1996; CAN, *Code of Ethics for Registered Nurses*, Booklet,1997; Video: *Neurosigns, Assessing the Comatose Patient*.

Fees – Course $905, Texts $200 + $1, Video $6, S&H $10

NSCC 7500 Critical Care Nursing Clinical 2

Applies and integrates nursing knowledge to provide competent nursing care for increasingly complex critically-ill patients and their family members (e.g. traumatic brain injury, drug poisoning, acute respiratory failure, hypovolemic shock, sepsis). Provides the opportunity to further develop comprehensive assessment abilities, monitoring skills and clinical decision-making, and to create partnerships with patients, family members, colleagues and other members of the health care team. Explores the significance of the context of the critical care environment as it relates to engaging in partnership. Includes laboratory experiences related to the care of the patient with mechanical ventilation, invasive hemodynamic monitoring, ICP monitoring and advanced cardiac arrest management.

Text: Aehlert, B., *ACLS Quick Review Study Guide*, 2nd Ed. Toronto. Mosby, 2002.

Prerequisite: NSCC 7400 (75%).

5 credits.

Fees – Clinical $905, Text $50, S&H $10

NSCC 7600 Nursing the Complex Critically-Ill Patient

Combines theory and 65-70 hours of precepted clinical experiences to provide an opportunity to explore patients' and family members' experience of complex, critical illness. Explores contextual factors such as the critically-ill elderly, quality of life, withdrawal of treatment and culture, and analyses collaboration within the health care team. As well, selects a case that presents complex physiological problems to expand knowledge of imbalances in oxygen supply and demand, oxygenation and ventilation and cellular changes. Enables implementation of technology as practice in complex patient care situations.

Prerequisite: NSCC 7500 (75%).

4 credits.

Fees – Course $725, S&H $10

NSCC 7625 Post-Anesthetic Care Nursing

Combines theory and precepted clinical experiences focused on post-anesthetic care nursing. Examines concepts related to anesthetic agents, patient assessment and monitoring, surgical intervention and post-operative nursing care. Provides opportunities to work through cases, presenting patients' experiences of selected surgical and anesthetic techniques. Provides the opportunity to assess, monitor and provide nursing care for a variety of post-anesthetic patients in the clinical setting.

Prerequisite: NSCC 7500.

4 credits.

Fees – Course $725, S&H $10

NSER 7100 Emergency Nursing Theory 1

Introduces emergency nursing and focuses on client perspectives of care in emergency settings. Provides opportunities to explore the concept of partnership with clients, families, and health care professionals in a time-limited, changing environment. Introduces emergency skills such as assessment, urgency determination, and diagnostic reasoning, along with basic pathophysiology education.

Texts: *Understanding Pathophysiology*; *The Smart Way*

3 credits.

Fees – Course $545, Texts $132 + $30, S&H $10

NSER 7200 Emergency Nursing Theory 2

Builds on concepts presented in Theory 1. Provides opportunities to work through common, less complex emergency client presentations in the form of case studies, identifying concepts key to emergency nursing. Emphasises the examination of pathophysiology, assessment and decision-making. Paper-based distance education.

Texts: *ECGs Made Easy*; *ACLS Manual*, 2001.

Prerequisite: NSER 7100 (75%).

4 credits.

Fees – Course $725, Texts $65 + $54, S&H $10

NSER 7300 Emergency Nursing Clinical 1

Introduces, through this four-week clinical course, care for emergency clients. Provides opportunities to enhance critical thinking, communication, collaboration, and systematic inquiry skills necessary to provide care to emergency clients and their families. In particular, focuses on applying concepts of partnerships and assessment. A BCIT instructor and/or clinical site receptor may facilitate this course.

Text: *Fast Facts.*

Prerequisites: NSER 7200 (75%), CPR Level C.

5 credits.

Fees – Clinical $905, Text $68, S&H $10

NSER 7400 Emergency Nursing Theory 3

Expands the vision of emergency nursing by focusing on broader environmental contexts and assessing their relationship with health promotion and disease/injury prevention. Focuses on complex client presentations, interventions and challenging assumptions. Families and family perspectives are an integral part of this course.

Prerequisite: NSER 7200 (75%).

4 credits.

Fees – Course $725, S&H $10

NSER 7500 Emergency Nursing Clinical 2

Builds on knowledge and skills acquired in previous theory and clinical courses. Provides opportunities to continue to develop assessment and decision-making skills while working with clients who are experiencing complex health care challenges. Enables an active role in creating partnerships with clients and families.

Prerequisites: NSER 7400 (75%) and CPR Level C.

5 credits.

Fees – Clinical $905, S&H $10

NSER 7700 Critically Ill Clients in Emergency Settings

Explores emergency nursing care for critically ill clients, providing exposure to six case studies involving pediatric, adolescent and adult trauma clients. Investigates pathophysiology, assessment, stabilisation and transfer for each case. In addition, provides opportunities to critically examine concepts such as: child abuse and neglect; substance use; pain theory; homelessness; organ donation; and, the health of populations. Take this course on its own or as an elective.

3 credits.

Fees – Course $545, Text $17, S&H $10

NSER 7800 Emergency Nursing and Mental Health

Explores the mental health component for all emergency clients while focusing on clients experiencing specific mental health challenges. Highlights assessment, safety, types of challenges, intervention and communication. Take this course on its own or as an elective.

Text: *Just Checking.*

3 credits.

Fees – Course $545, Text $13, S&H $10

NSNE 7100 Neonatal Theory 1

Required course in the Neonatal Specialty Program. Focuses on infants and families, their diversity, commonalities, capabilities and vulnerabilities. Introduces family-centered care and developmentally-supportive care as frameworks for practice. Examines fetal development and the transition to extrauterine life as sources of infant vulnerability. Can be challenged by experienced nurses.

Texts: Kenner et al., *Comprehensive Neonatal Nursing: A Physiologic Perspective,* (1993 or 1998); Zilm, Glennis, *The Smart Way.*

3 credits.

Fees – Course $545, Texts $191 + $27, S&H $10

NSNE 7110 Neonatal Theory 1, Modified

Specifically designed for experienced pediatric, neonatal and/or perinatal nurses currently working in a perinatal or pediatric clinical area who wish to learn about caring for infants in community hospital settings. Focuses on infants, vulnerability and health challenges commonly seen in community hospitals.

Text: Kenner et al., *Comprehensive Neonatal Nursing: A Physiologic Perspective,* (1993 or 1998).

Prerequisite: two years current perinatal or pediatric experience.

3 credits.

Fees – Course $545, Text $191, S&H $10

NSNE 7200 Neonatal Theory 2

Required course in the Neonatal Nursing Specialty, building on the concepts presented in NSNE 7100. Specifically, explores the relationships among infant vulnerability, pathophysiology and health. Using a case study format, addresses asphyxia, dehydration, jaundice, apnea, bradycardia, patent ductus arteriosus, opiate dependency, hypothermia and respiratory distress. In each case, explores developmental, family, assessment and feeding issues. Can be challenged by experienced nurses.

Texts: Kenner et al., *Comprehensive Neonatal Nursing: A Physiologic Perspective,* (1993 or 1998).

Prerequisite: NSNE 7100.

3 credits.

Fees – Course $545, Texts $191, S&H $10

NSNE 7300 Neonatal Clinical 1

Required course in the Neonatal Nursing Specialty Program. Over a period of three weeks, it focuses on the care of infants with health challenges. Serves as an introduction to neonatal clinical practice, and can be completed in a variety of clinical sites. Identifies the following key areas of practice: assessment, feeding, thermal management, medication administration, infection control, respiratory support, and developmentally-supportive care. Can be challenged by experienced nurses.

Prerequisite: NSNE 7100 and NSNE 7200 or NSNE 7110.

4 credits.

Fees – Clinical $725

NSNE 7400 Neonatal Theory 3

Required course shared among the Neonatal, Pediatric and Perinatal Nursing Specialties, focusing on nurse-family partnerships. Using a post-modern family framework, provides opportunities to engage with a selected family in order to establish a relationship characterised by creative listening, respect for diversity, power sharing, and appreciation of own family values. Explores concepts such as family health, power, diversity, narrative, lived experience, meaning, context, and imagination. Experienced nurses can challenge this course.

Prerequisite: NSNE 7100, NSNE 7200.

4 credits.

Fees – Course $725, S&H $10

NSNE 7500 Neonatal Clinical 2

This three week course focuses learning on a key area of practice. Centres around flexible learning activities that enable a tailored clinical experience. Through these learning activities, provides opportunities to build on communication, collaboration, critical thinking and systematic inquiry skills necessary to provide infant and family-centered care. In particular, emphasises clinical decision-making and articulation of a personal practice framework for neonatal nursing. Elective.

Prerequisite: NSNE 7300.

4 credits.

Fees – Clinical $725, S&H $10

NSNE 7900 Clinical Preceptorship in Neonatal Nursing

Provides additional clinical practice. Establishes learning intentions, learning activities, and evaluation strategies once you and the course tutor have determined learning needs. May be used to provide novice neonatal nurses with additional time to focus on the basics, or may be used to provide clinical practice in an area not addressed in the required clinical courses. Elective.

Prerequisite: NSNE 7300.

3 credits.

Fees – Clinical $545, S&H $10

NSNE 7911 Neonatal Respiratory Care

A combination theory and clinical course delivering eight weeks of guided independent study, a one-day workshop and 40 hours of clinical practice. Using a case-study format, addresses the care of infants experiencing high-risk respiratory health challenges, specifically respiratory distress syndrome and bronchopulmonary dysplasia. Examines in some detail the application of continuous positive airway pressure (CPAP) and mechanical ventilation as modes of treatment for these infants. Also explores other aspects of care including developmentally-supportive care, family-centred care, and nutrition. Elective.

Prerequisite: NSNE 7100.

4 credits.

Fees – Course $725, S&H $10

NSNE 7920 Neonatal Acute Care

A combination theory and clinical course, delivering ten weeks of guided independent study, two workshop days and 40 hours of clinical practice. Using a case-study format, addresses the care of infants experiencing life-threatening health challenges, such as meconium aspiration, persistent pulmonary hypertension of the newborn, sepsis and extremely low birth weight. Examines treatment modalities such as venous and arterial access, mechanical ventilation, surfactant replacement, vasopressors, pharmacologic paralysis, ECMO, and HFOV. In addition, explores concepts such as ventilation and perfusion, multi-system organ failure, perinatal grief and discharge planning. Elective.

Prerequisite: NSNE 7911.

4 credits.

Fees – Course $725, S&H $10

NSNE 7940 Advanced Concepts in Neonatal Nursing

Focuses on the less common and more serious health challenges that infants experience. Addresses persistent pulmonary hypertension of the newborn, extremely low birth weight, group B streptococcal infection, death, intraventricular hemorrhage and bronchopulmonary dysplasia. Examines concepts such as clinical decision-making, ventilation/perfusion, discharge planning, palliative care, and mechanical ventilation. Elective.

Prerequisites: NSNE 7100, NSNE 7200.

3 credits.

Fees – Course $545, S&H $10

NSNN 7200 Nephrology Nursing Theory 1 Introduction

Focuses on the experience of the individual with end stage renal disease. Links pathophysiology of renal disease and treatment options to the lived experience of various individuals. Provides an understanding of the physiological, psychological and social impact of renal disease as it varies over the life span and with individuals.

Texts: Smith, *Renal Nursing*; (recommended) *The Smart Way*.

3 credits.

Fees – Course $545, Texts $121+$30,S&H $10

NSNN 7300 Nephrology Clinical 1 Chronic Renal Insufficiency Nursing

Combines theory and clinical experience to focus on the chronic renal insufficiency phase of the individual who experiences renal failure. Provides opportunities to interview clients, learn about the CRI services and examine the role of various health care team members. Attendance at a CRI clinic facilitates learning.

Prerequisite: NSNN 7200.

Text: *The Smart Way*.

2 credits.

Fees – Course $365, Text $30, S&H $10

NSNN 7400 Nephrology Nursing Theory 2 Introduction to Dialysis Nursing

Focuses on the experience of the individual on dialysis. Provides an understanding of the principles of hemodialysis and peritoneal dialysis, the complications of dialysis, and the lived experience of various individuals to develop the nursing role in the management of dialysis.

Prerequisites: NSNN 7200, NSNN 7300.

Texts: *Handbook of Dialysis; Review of Hemodialysis for Nurses.*

3 credits.

Fees – Course $545, Texts $70 + $83, S&H $10

NSNN 7500 Nephrology Clinical 2 Nursing Care of the Person on Dialysis

Prepares for a beginning-level of hemodialysis nursing in a hemodialysis facility through a four-week clinical experience. Requires written and practical assignments over the 12-week term.

Prerequisite: NSNN 7400.

5 credits.

Fees – Clinical $905, S&H $10

NSNN 7600 Nephrology Nursing Theory 3 Living with Renal Disease and Complex Health Challenges

Provides further breadth and depth in Nephrology Nursing. Topics include co-morbid conditions, ethical issues, caring for families and renal transplants.

Text: Smith, *Renal Nursing*; *Handbook of Dialysis*.

3 credits.

Prerequisite: NSNN 7500 or permission of the program head.

Fees – Course $545, Texts $121 + $83, S&H $10

NSNN 7700 Nephrology Clinical 3 Nursing the Person with Complex Renal Health Challenges

Negotiated by student and faculty to determine the areas of interest. Take the month of clinical time, either full- or part-time. Requires on-campus workshops and written assignments during the 12-week term.

Prerequisite: NSNN 7600.

5 credits.

Fees – Clinical $905, S&H $10

NSOH 7100 Introduction to Occupational Health Nursing

Focuses on work and its relationship to health. Introduces the community focus of the occupational health nurse through the beginning use of frameworks, epidemiological principles and relevant legislation. Emphasises building partnerships with management, labour, and other health and safety team members.

Texts: *Occupational Health Nursing: Concepts and Practice,* Rogers, 1994; Thill et al., *Business Communication* (Cdn ed), 2002; *The New Health Care: A Nursing Perspectiv,* RNABC 1998.

3 credits.

Fees – Course $545, Texts $130 + $70 +$25, S&H $10

NSOH 7200 Work and Work Environments 1

Presents theory related to potential hazards found in various work settings. Focuses on the industrial hygiene principles and practices of anticipating, recognising and evaluating biological, chemical and physical hazards. Emphasises a collaborative approach to eliminating or controlling these hazards, whether the occupational health nurse is a member of a team of occupational health and safety practitioners, or is the only on-site practitioner with knowledge and skills in industrial hygiene

Text: *Fundamentals of Industrial Hygiene*, 5th Ed., Plog et al., 2002.

Prerequisites: NSOH 7100.

3 credits.

Fees – Course $545, Text $121, S&H $10

NSOH 7250 Work and Work Environments 2

Further broadens knowledge of work environments and the work-health relationship. Uses a population health promotion model for the risk assessment of health challenges arising from psychosocial, safety and ergonomic issues in the workplace. Bridges to future learning in assessing worker health. Uses processes of systematic inquiry and critical thinking to analyse jobs for their environmental, psychosocial, safety and biomechanical demands on employees.

Text: *Occupational Health: Recognizing and Preventing Occupational Disease and Injury*, 4th Ed. (3rd Ed. acceptable), Levy and Wegman.

Prerequisites: NSOH 7100, NSOH 7200.

Corequisite: NSOH 7255.

3 credits.

Fees – Course $545, Text $119, S&H $10

NSOH 7255 Occupational Health Nursing: Practice Experience 1

A practice experience that supports and focuses learning in the co-requisite theory course, NSOH 7250 Work and Work Environments 2. Follows a directed study plan to complete practice experience with a selected organisation. Requires critical analysis of observations, using a health promotion framework to apply principles of industrial hygiene, safety, ergonomics and job demands analysis. Starts in week seven of the term, and uses NSOH 7250 tutor as a mentor for the experience.

Prerequisite: NSOH 7200.

Corequisite: NSOH 7250.

1 credit.

Fees – Clinical $185, S&H $10

NSOH 7300 Occupational Health Nursing: Practice Experience 2

A two-week full-time clinical course, providing the nurse with opportunities to build on communication, collaboration, critical thinking and systematic inquiry skills related to the role of the occupational health nurse. Focuses on working in groups to assess work environments and analyse jobs, and making recommendations when appropriate to improve the health and safety of the workplace. Learning occurs primarily on the BCIT campus.

Prerequisites: NSOH 7250, NSOH 7255.

3 credits.

Fees – Clinical $545, S&H $10

NSOH 7400 Disability Case Management

Emphasises decision making that promotes the fitness-to-work of individual employees experiencing health challenges. Focuses on the OHN's role as a Case Manager, using an employee-centred approach and collaborating with the supervisor, management, union, the health safety team, insurance carriers, and health care providers. Aims to achieve the best possible individual and organisational outcomes as the goal of this collaboration.

Texts: Dyck, *Disability Management;* 2000*; Confidentiality for Nurses,* RNABC, 2000.

3 credits.

Prerequisites: BUSA 7250, NSOH 7300.

Fees – Course $545, Texts $101 + $17, S&H $10

NSOH 7450 Occupational Health Surveillance

Introduces concepts, principles, and theory of occupational toxicology through the study of occupational diseases. Emphasises a collaborative approach to anticipating, preventing, recognising and addressing potential biological and physical health risks related to biological and physical,

as well as chemical hazards in the workplace. Explores the occupational health nursing role in providing leadership in this process.

Prerequisites: NSOH 7400, NSSC 7115.

Text: *Occupational Health: Recognizing and Preventing Occupational Disease and Injury*, 4th Ed. (3rd Ed. acceptable), Levy and Wegman.

3 credits.

Fees – Course $545, Text $119, S&H $10

NSOH 7500 Occupational Health Nursing: Practice Experience 3

This clinical course is undergoing further planning.

4 credits.

Prerequisite: NSOH 7450.

NSOH 7600 Occupational Health Program Planning

Completes the OHN certificate. Provides the opportunity to use a consultative approach while addressing a specific workplace health risk. Includes a workshop, but provides learners at a distance with other choices for completing the course.

Prerequisite: NSOH 7500.

Texts not yet selected.

4 credits.

Fees – Course $725, S&H $10

NSPE 7100 Pediatric Theory 1

Required course in the Pediatric Nursing Specialty Program. Focuses on infants, children and families, their diversity and their commonalties. Introduces family-centred care and developmentally-supportive care as frameworks for practice. Examines concepts such as children's autonomy and vulnerability.

Text: any comprehensive pediatric nursing textbook and Parrot, L., *How to Write Psychology Papers.*

3 credits.

Fees – Course $545, Text $27, S&H $10

NSPE 7200 Pediatric Theory 2

Required course in the Pediatric Nursing program, using a case study format to examine the health challenges that infants and children commonly experience. Specifically addresses fever, dehydration, shock, asthma, developmental delay, tonsillitis, eating disorders and respiratory distress. Each case explores developmental, family and assessment issues. Paper-based distance education.

Text: any comprehensive pediatric nursing textbook.

Prerequisite: NSPE 7100.

3 credits.

Fees – Course $545, Text $27, S&H $10

NSPE 7210 Pediatric Critical Care Theory 2

Intended for those who are interested in a pediatric critical care focus. Using a case study format, this course addresses the health challenges commonly seen in pediatric critical care settings. Specifically addresses shock, respiratory failure, sepsis, neurologic impairment, non-accidental trauma and perinatal asphyxia. Each case explores assessment, developmental and family issues.

Text: Curley, Smith and Moloney-Harmon, *Critical Care Nursing of Infants and Children,* 1996.

Prerequisite: NSPE 7100.

3 credits.

Fees – Course $545, Text $195, S&H $10

NSPE 7230 Pediatric Neuroscience Nursing Theory 2

Designed for students interested in a pediatric neuroscience care focus. Using a case study format, addresses the health challenges commonly seen in pediatric neuroscience settings; specifically respiratory distress, fluid and electrolytes, neuroanatomy and physiology, non-accidental trauma, seizures, neuro-oncology, meningitis, neurosurgery and pain management. Also explores assessment, developmental and family issues in each case.

Prerequisites: NSPE 7100.

3 credits.

Fees $545 + $10 S&H

NSPE 7240 Pediatric Surgical Nursing

Uses a case study format to examine the health challenges that infants, children and adolescents experience. Specifically addresses respiratory distress, tissue perfusion, fluid and electrolyte balance, thermoregulation, pain, musculoskeletal, family centred care, and nutrition in the context of the child requiring surgical intervention. Surgical intervention includes the specific disciplines of general surgery, orthopedics, urology, plastics, ear, nose and throat.

Prerequisites: NSPE 7100.

3 credits.

Fees $545 + $10 S&H

NSPE 7300 Pediatric Clinical 1

Introduces pediatric clinical practice. May be completed at a variety of clinical sites. Includes the following key areas of practice identified for this course: assessment, feeding, medication administration, fluid, balance/nutrition, respiratory support and partnership with children. Approximately three weeks long, this course may be completed in one three-week period or scheduled over a longer period of time. Can be challenged by experienced pediatric nurses.

Prerequisites: NSPE 7100, NSPE 7200 or NSPE 7210.

4 credits.

Fees – Clinical $725, S&H $10

NSPE 7310 Pediatric Critical Care Clinical 1

Focuses on the nursing care of seriously-ill infants, children and adolescents. This three week course introduces pediatric critical nursing practice, and generally takes place in a critical care setting. Flexible learning activities provide for a tailored clinical experience. Provides opportunities to develop communication, collaboration, critical thinking, and the systematic inquiry skills necessary to care for seriously-ill children. In particular, focuses on developing partnerships with children, assessment and problem identification, medication administration, respiratory support, hemodynamic monitoring, pharmacological paralysis, monitoring fluid balance and nutrition.

Prerequisites: NSPE 7100, NSPE 7210.

4 credits.

Fees – Clinical $725, S&H $10

NSPE 7330 Pediatric Neuroscience Clinical 1

Introduces pediatric neuroscience clinical practice. May be completed in a variety of clinical sites where children with a neuroscience focus are cared for. Addresses the following key areas: assessment and problem identification, developing partnerships with children, respiratory support, managing fluid balance, medication administration and the environment of pediatric nursing care.

Prerequisites: NSPE 7100 and NSPE 7230.

4 credits.

Fees: $725 + $10 S&H

NSPE 7340 Pediatric Surgical Nursing Clinical 1

Introduces clinical practice in the area of pediatric surgical nursing. Addresses the following key areas of practice: assessment, feeding, medication administration, fluid balance/nutrition, respiratory support, pain management, discharge planning, and partnership with children and families. Approximately three weeks in length, you may complete this course in one three-week period, or schedule it over a longer period of time. Experienced pediatric nurses with more than two years in the specified area can challenge this course.

Prerequisites: NSPE 7100 and NSPE 7240.

4 credits.

Fees $725 + $10 S&H

NSPE 7400 Pediatric Theory 3

Focuses on family-centred care and is shared among the Neonatal, Pediatric and Perinatal Nursing Specialties. Using a post-modern family framework, provides the opportunity to work with a selected family in order to establish a relationship characterised by creative listening, respect for diversity, power sharing and appreciation of family values. Explores concepts such as family health, power, diversity, narrative, lived experience, meaning, context and imagination.

Prerequisites: NSPE 7100, NSPE 7200 or NSPE 7210.

4 credits.

Fee – Course $725, S&H $10

NSPE 7500 Pediatric Clinical 2

Supports individual learning needs and can be completed in a variety of clinical sites. Using a variety of perspectives on clinical decision-making, encourages students to articulate, examine and critique their own clinical decision making processes. Approximately three weeks long, this course may be scheduled in a variety of ways to meet individual needs.

Prerequisite: NSPE 7300.

4 credits.

Fees – Clinical $725, S&H $10

NSPE 7510 Pediatric Critical Care Clinical 2

Focusing on the care of critically-ill children, this three-week clinical course centres around flexible learning activities to enable a tailored clinical experience. Provides opportunities to build on the communication, collaboration, critical thinking and systematic inquiry skills necessary to provide care for critically-ill children. In particular, focuses on practices such as assessment and problem identification, prioritising care, managing complex ventilatory and circulatory support, and managing increased intracranial pressure.

Prerequisites: NSPE 7210, NSPE 7310, NSPE 7940.

4 credits.

Fees – Clinical $725, S&H $10

NSPE 7900 Pediatric Preceptorship

Provides additional clinical practice. Establishes learning intentions, learning activities and evaluation strategies once you and your course tutor have determined learning needs. May be used to provide novice pediatric nurses with additional time to focus on the basics, or to provide clinical practice in an area not addressed in the required clinical courses. Elective.

Prerequisites: NSPE 7300 or NSPE 7310.

3 credits.

Fees – Clinical $545, S&H $10

NSPE 7910 Pediatric Nursing in the Home

Provides beginning knowledge and skills for pediatric nursing practice outside of the hospital setting. Using a case study format, addresses opiate dependency, chronic respiratory problems, neurologic impairment and cancer. Examines developmental, family, resource allocation and role issues. Elective.

Text: *How to Write Psychology Papers*, Parrot.

Prerequisite: NSPE 7100.

3 credits.

Fees – Course $545, Text $27, S&H $10

NSPE 7920 Pediatric Arrest Management

Examines pediatric arrest management, focusing on anticipation and prevention. Using a case study format, addresses shock, sepsis, meningitis, asthma, respiratory distress and croup. Examines concepts such as emergency preparedness, assessment, oxygen therapy, fluid resuscitation, and cardio-respiratory resuscitation. Also explores developmental and family issues. Elective.

Prerequisite: NSPE 7100.

3 credits.

Fees – Course $545, S&H $10

NSPE 7940 Advanced Concepts in Pediatric Critical Care Nursing

Focuses on the less common and more severe health challenges that infants and children experience. Using a case study format, addresses open-heart surgery, burns, trauma and multi-system failure. Examines concepts such as clinical decision-making, ventilation/perfusion, discharge planning and palliative care.

Text: Curley, Smith and Moloney-Harmon, *Critical Care Nursing of Infants and Children,* 1996.

Prerequisites: NSPE 7100, NSPE 7210.

3 credits.

Fees – Course $545, Text $195, S&H $10

NSPN 7100 Perinatal Theory 1 Healthy Childbearing Experiences

Focuses on introducing the perinatal nurse to healthy childbearing experiences. Within the context of building partnerships, this course reveals a holistic way of caring for childbearing women, their fetuses/newborns and families. Can be challenged by experienced nurses.

Text: *Maternity and Women's Health Care.*

3 credits.

Fees – Course $545, Text $140, S&H $10

NSPN 7200 Perinatal Theory 2 Childbearing Women

Builds on the concepts presented in Healthy Childbearing Experiences. Whereas Theory 1 examines the "wellness" of pregnancy, Theory 2 examines the "illness" of pregnancy. Emphasises the processes of systematic inquiry and critical reflection. Presents, in multifaceted case studies, the common perinatal health challenges that childbearing women and their families may face. Can be challenged by experienced nurses.

Text: *Manual of High Risk Pregnancy and Delivery.*

Prerequisite: NSPN 7100.

3 credits.

Fees – Course $545, Text $75, S&H $10

NSPN 7250 Fetal Health Surveillance

Introduces fetal health assessment and electronic fetal monitoring. As a one-day workshop offered at BCIT, this course is a prerequisite for Clinical 2. For more information on course offerings, contact the program assistant.

Prerequisite: NSPN 7300.

.5 credits.

Fees – Course $95, Text $28, S&H $10

NSPN 7300 Perinatal Clinical 1

Introduces caring for childbearing women and their families throughout the childbearing continuum. This four-week course takes place in the clinical setting, and focuses on family-centred care, maternal/fetal/newborn assessment; labour support; breast feeding/infant nutrition, documentation, and clinical decision making. A BCIT instructor and/or a clinical site preceptor may facilitate this course.

Prerequisites: NSPN 7100, 7200, 7450.

5 credits.

Fees – Clinical $905, S&H $10

NSPN 7400 Perinatal Theory 3 Childbearing Families

This required course focuses on nurse-family partnerships, and is shared among the Neonatal, Pediatric and Perinatal Nursing Specialties. Using a post-modern family framework, provides the opportunity to engage with a selected family, in order to establish a relationship characterised by creative listening, respect for diversity, power sharing, and appreciation of own family values. Explores concepts such as family health, power, diversity, narrative, lived experience, meaning, context, and imagination. Can be challenged by experienced nurses.

4 credits.

Fees – Course $725, S&H $10

NSPN 7450 Neonatal Resuscitation

Presents a standardised national training program that prepares health care professionals to provide skilled neonatal resuscitation during the first moments of an infant's life. As a one-day workshop offered at BCIT, this course is a prerequisite for Clinical 1. For more information on course offerings, contact the program assistant.

Prerequisite: NSPN 7200.

.5 credits.

Fees – Course $95, Text $ 80, S&H $10

NSPN 7500 Perinatal Clinical 2

Focuses on the care of childbearing women/families experiencing health challenges. This second four-week clinical takes place in various settings, depending on learning needs. Emphasises clinical decision-making.

Prerequisite: NSPN 7250, NSPN 7300.

5 credits.

Fees – Clinical $905, S&H $10

NSPN 7800 Clinical Preceptorship in Perinatal Nursing

Presented as a clinical preceptorship, this course provides additional clinical experience. Bases learning intentions and evaluation strategies on individuals' learning needs, negotiated among you, the clinical tutor and the clinical site staff.

Prerequisite: NSPN 7500.

3 credits.

Fees – Clinical $545, S&H $10

NSPO 7100 Perioperative Theory 1 *Developing Perioperative Partnerships*

Introduces the specialty of Perioperative Nursing by exploring individuals' perioperative experiences and examining the role of the perioperative nurse. Explores the concept of partnership and the role of the perioperative nurse in providing patient-centred care, both independently and as a member of the health care team.

Texts: *Berry and Kohn's Operating Room Techniques*, 9th Ed.; *ORNAC Recommended Standards for Perioperative Nursing Practice*, 4th Ed.; Zilm, G., *The Smart Way – An Introduction to Writing*, 2nd Ed.

3 credits.

Fees – Course $545, Texts $115 + $50 + $30, S&H $10

NSPO 7200 Perioperative Theory 2 The Nurse in the Circulating Role

Focuses on the experience of anesthesia for individuals undergoing common, less complex surgery. Examines perioperative patient assessment and factors impacting the stability and safety of individuals from different age groups who are undergoing anesthesia. Explores the role and practice of the circulating nurse.

Text: *Alexander's Care of the Patient in Surgery*, 11th Ed.

Prerequisite: NSPO 7100.

4 credits.

Fees – Course $725, Text $145, S&H $10

Note: The texts purchased for NSPO 7100 and 7200 are used throughout the program.

NSPO 7230 Perioperative Theory 2 The Nurse in the Circulating Role (Modified)

Focuses on perioperative practice with child bearing women. Modified from NSPO 7200, provides cross education for perinatal nurses who wish to provide perioperative nursing care at family birthing units.

Prerequisite: Perinatal experience.

NSPO 7300 Perioperative Clinical 1 Implementing the Circulating Nurse Role

A four-week clinical practicum in a perioperative environment. Includes learning assignments that are completed during the 12-week term. Offers the opportunity to learn about, and provide selected components of, care to individuals undergoing surgical procedures and anesthesia in the circulating nurse role.

Text: (optional) *Pocket Guide to the Operating Room*, 2nd Ed., Goldman.

Prerequisite: NSPO 7200.

5 credits.

Fees – Clinical $905, Text $65, S&H $10

NSPO 7330 Perioperative Clinical 1 Implementing the Circulating Nurse Role (Modified)

Focuses on perioperative practice with child bearing women. Modified from NSPO 7300, provides cross education for perinatal nurses who wish to provide perioperative nursing care at family birthing units. Take concurrently with NSPO 7530.

Prerequisite: NSPO 7230, NSPO 7430.

NSPO 7430 Perioperative Theory 3 The Nurse in the Scrub Role (Modified)

Focuses on perioperative practice with child bearing women. Modified from NSPO 7400, provides cross education for perinatal nurses who wish to provide perioperative nursing care at family birthing units. Take concurrently with NSPO 7230.

NSPO 7530 Perioperative Clinical 2 Implementing the Scrub Nurse Role (Modified)

Focuses on perioperative practice with child bearing women. Modified from NSPO 7500, provides cross education for perinatal nurses who wish to provide perioperative nursing care at family birthing units.

Prerequisites: NSPO 7230, NSPO 7430.

NSPO 7400 Perioperative Theory 3
The Nurse in the Scrub Role

Explores individuals' experiences of common, less complex surgeries. Expands upon the concepts of partnership, stability and safety, and introduces the principles of surgery and healing. Explores the role and practice of the scrub nurse.

Prerequisite: NSPO 7300.

2 credits.

Fees – Course $365, S&H $10

NSPO 7500 Perioperative Clinical 2
Implementing the Scrub Nurse Role

A 150-hour clinical practicum in a perioperative environment that provides the opportunity to develop beginning competency in the scrub nurse role and gain further insight into the concept of caring. Accomplishes this through exploring individuals' intraoperative experiences and providing care during surgical interventions.

Prerequisite: NSPO 7400.

6 credits.

Fees – Clinical $1085, S&H $10

NSPO 7600 Perioperative Theory 4
Integration of the Perioperative Nursing Roles

Expands on knowledge from the previous courses by examining perioperative nursing care for individuals with increasing acuity, who are undergoing complex surgical procedures and/or anesthesia, and recovering from anesthesia. Focuses on integration of the perioperative roles, recognition and appropriate response to threatening and rapidly changing conditions. Prerequisite: NSPO 7500.

3 credits.

Fees – Course $545, S&H $10

NSPO 7700 Perioperative Clinical 3
Integrated Perioperative Nursing Practice

Focuses on the integration of perioperative nursing roles when providing entry-level care for individuals with increasing acuity, who are undergoing complex surgery and/or anesthesia. Preceptored clinical experience and independent clinical study develops competency and knowledge within a variety of selected surgical contexts and patient populations. Uses individual learning contracts, and encourages learning partnerships within diverse perioperative environments to work toward increased independence in practice. Builds on the application of principals, skills and knowledge developed in previous courses.

Prerequisite: NSPO 7600.

4 credits.

Fees – Clinical $725, S&H $10

NSPO 7701 Perioperative Clinical 3 Integrated
Perioperative Nursing Practice (Modified)

Modified from NSPO 7700; only required if you completed NSPO 7500 prior to December 1999.

Prerequisite: NSPO 7600.

5 credits.

NSSC 7110 Teaching and Learning in
Specialty Nursing (Modified)

A modified version of NSSC 7115. Requires program head approval to register.

1 credit.

Fees - Course $185, Text $27, S&H $10

NSSC 7111 Teaching and Learning in Specialty Nursing (Modified)

A modified version of NSSC 7115. Requires program head approval to register.

2 credits.

Fees – Course $365, Text $26, S&H $10

NSSC 7115 Teaching and Learning in Specialty Nursing

Introduces diverse perspectives on teaching and learning related to specialty nursing, and explores the impact that connected teacher-learner relationships have on effective learning. Views teaching and learning as mutual and parallel processes, being influenced by beliefs, intentions and capacities of both teachers and learners. Further develops teaching and learning abilities according to mutually-agreed upon learning outcomes and intentions.

3 credits.

Fees – Course $545, Text $26, S&H $10

note: You may take the 8000-level core courses once you have completed the upper level Specialty Nursing courses. You may take core courses in any order; however, you must take NSSC 8600 and NSSC 8800 consecutively. **We highly recommend that you take LIBS 7001, Critical Reading and Writing, before commencing the 8000-level courses.**

NSSC 8000 Systematic Inquiry

Examines the multiple sources of knowledge that inform nursing practice. Serves as a major source of knowledge through critique of qualitative and quantitative research.

Texts: *Nursing Research Text and Workbook,* RNABC; Clarke, H., *Using Research to Improve Quality of Nursing Care*, RNABC, 1996; Davies, Barbara and Logan, *CNA Reading Research: Friendly Guide for Nurses/Health*, CNA (Ottawa).

3 credits.

Fee – Course $545, Texts $52 + $5 + $6 + $26, S&H $10

NSSC 8050 Systematic Inquiry (Modified)

A modified version of NSSC 8000. Requires program head approval to register.

1 credit

Fees – Course $185, S&H $10

NSSC 8051 Systematic Inquiry (Modified)

A modified version of NSSC 8050. Requires program head approval to register.

2 credits.

Fees – Course $360, Texts $65 + $6 +$11 +$27, S&H $10

NSSC 8110 Independent Study in Specialty Nursing
(1 credit)

NSSC 8120 Independent Study in Specialty Nursing
(2 credits)

NSSC 8130 Independent Study in Specialty Nursing
(3 credits)

NSSC 8160 Independent Study in Specialty Nursing

Provides the opportunity to pursue a particular area of interest in specialty nursing. You and course tutor determine the learning intentions, activities and evaluation strategies for the course. For further details, contact the program head in your chosen specialty. Requires program head approval to register.

6 credits.

Fees – Course $1,085, S&H $10

NSSC 8300 Creative Leadership

Focuses on the new paradigm of leadership. Requires students to develop their creative leadership abilities by engaging in a leadership project.

Texts: *The Leadership Challenge* (1995); *Managing Transitions* (1994).

3 credits.

Fees – Course $545, Texts $34 + $24 + $26, S&H $10

NSSC 8500 Professional Growth

Examines your professional growth relative to specialty nursing practice. Through participation in a mentoring relationship, this course explores expert practice with a focus on clinical judgement, caring and moral/ethical perspectives. Develops a personal vision of expert, specialty nursing practice.

Texts: *Code of Ethics Booklet; Healing Through Communication* (1993).

3 credits.

Fees – Course $545, Texts $50 + $1, S&H $10

NSSC 8600 Communities, Health and Partnership

Explores and critically examines the concepts of community, health and partnership within the context of specialty nursing practice. Explores a variety of perspectives on community, including social, political and environmental aspects of community health. Select and begin to engage with a community in your specialty practice.

Texts: *Facilitators Guide to Participatory Decision-Making Strategies for Population Health.*

3 credits.

Fees – Course $545, Texts $31 + $5, S&H $10

NSSC 8800 Community Health: Partnerships in Action

Provides opportunities to connect with, envision and engage in health action within a community. By engaging in community clinical practice, this course creates self-directed learning activities to promote health. Focuses learning on action-oriented strategies that consider social, political, economic and environmental perspectives on health.

Prerequisite: NSSC 8600.

3 credits.

Fees – Course $545, Text $26, S&H $10

NURS 5061 Clinical Pharmacology for Allied Health Professionals

Presents important concepts and principles related to pharmacology. Assists in relating drug action(s) to human physiology and/or pathophysiology, and in anticipating effects based on this understanding. Emphasises interventions related to monitoring client response to drugs. Discusses the role of the health care professional in health promotion and client teaching. Presents drug classifications to assist appreciation of the scope of pharmacological treatment and the sorting, categorising and retrieval of information about selected drugs.

Required Text: Gutierrez, K., *Pharmacotherapeutics: Clinical Decision Making in Nursing*. Toronto. W.B. Saunders, 1999; Strongly recommended: Deglin, J., & Vallerand, A., *Davis's Drug Guide for Nurses* (7th Ed.) Philadelphia. F.A. Davis, 1999.

Prerequisites: Completion of second year of a health care program such as nursing or related field.

3 credits.

Fees – Course $305, Texts $136 + $68, S&H $10

Not offered in April term.

OCHS 1000 OHS Fundamentals

Provides an overview of the occupational health and safety field and discusses how health and safety relate to an organisation's overall management system. Introduces leadership commitment, open communication, and legal accountability as core concepts that form the basis for effective safety programs. Explores the wide variety of functions within the field, as well as resources available for the safety generalist.

2 credits.

Fees – Course $205, no text, S&H $10

OCHS 1001 Joint H&S Committee Training

Interactive course includes an overview of effective safety and health programs, the B.C.-WCB legislation, safety committee functions and responsibilities, workplace inspections and accident investigations. Also available online with continuous registration – quote OCHS 1001 (net) for the online version. Scheduled dates in Fall 2002 term: Sept. 24, Oct. 29, Nov. 26.

0.5 credit.

Fee – Course $115, no text, manual included

OCHS 1003 Hazard Recognition & Control

Includes the requirements for workplace inspections, identification, control and evaluation of hazards, and a segment on how to use the B.C.-WCB Occupational Health and Safety Regulation. Scheduled date in Fall 2002 term: Nov. 12.

0.5 credit.

Fee – Course $115, no text, manual included

OCHS 1004 Preventing Violence in the Workplace

Includes explanations and application of the B.C.-WCB requirements on workplace violence, violence risk assessment techniques, violence prevention strategies, and development of a workplace violence prevention program.

0.5 credit.

Fee – Course $115, no text, manual included

OCHS 1005 Supervisor Safety Management

Includes the specific OH&S requirements for B.C. supervisors, including supervision of a safe work environment, safety inspections, accident investigations, and due diligence. Also available online with continuous registration – quote OCHS 1005 (net) for the online version. Scheduled date in Fall 2002 term – Oct. 8.

0.5 credit.

Fee – Course $115, no text, manual included

OCHS 1006 Investigating and Controlling Strains & Sprains

Offers strategies and techniques for preventing back injuries, repetitive strain injuries, and other musculoskeletal (bone, muscle, ligament, tendon, and nerve) disorders.

0.5 credit.

Fee – Course $115, no text, manual included

OCHS 1007 Incident Investigation & Safety Inspection Workshop

Adapted WorkSafe course includes a practical workshop for accident investigation and worksite safety inspection training.

0.5 credit.

Fee – Course $115, no text, manual included

OCHS 1020 CRSP Exam Preparation

Designed to help you develop a personal learning plan to prepare for the Canadian Registered Safety Professional (CRSP) examination. Outlines the application, examination, and registration processes. Encourages evaluation of your competencies in each of the exam domains, and helps you to determine your readiness to write the exam. Includes a series of exam preparation and writing techniques. Identifies additional reference sources and links for further study of each topic. Also available online with continuous registration – quote OCHS 1020 (net) for the online version.

2 credits.

Fee – Course $280, no text

OCHS 1100 BC OHS Legislation

Explores occupational health and safety legislation in B.C. The history of B.C. legislation and how it has evolved sets the tone for discussions on the current legislative system, enforcement, and recent prosecution trends. Introduces the B.C. Workers' Compensation Board structure, mandate, policies, and procedures. Applies key sections of the B.C. Workers Compensation Act and Occupational Health and Safety Regulation to the workplace. You require access to a copy of the B.C. legislation.

3 credits.

Fees – Course $305, no text, S&H $10

OCHS 1144 OH&S Legislation

Explores the general concepts of legislation relevant to the safety field. The history of the Canadian legal system sets the tone for introducing the concepts of workers' compensation, due diligence, and injury claims management. Critically compares OH&S systems in B.C., other Canadian jurisdictions, the United States, and worldwide, and introduces federal OH&S legislation and other related Canadian safety regulations. Includes an overview of resource and professional OH&S organizations. You must obtain a copy of your governing OH&S legislation or have electronic access to it. Challenge course available.

4 credits.

Fees – Course $405, no text, S&H $10

OCHS 1161 Principles of Loss Management

Provides an overview of safety management principles including human motivation, loss causation models, and behaviour-based safety. Explores the essential components of an OH&S program, including accident investigation methods, safety committees, workplace inspection techniques, and safety problem solving. Introduces basic OH&S concepts, including the history of the safety movement, job safety analysis, management of an OH&S program, leadership and ethics in the safety profession, how to maintain interest in safety, and OH&S training. Ideal course for all student levels, including new OH&S practitioners entering the field and practicing safety personnel. Challenge course available.

Text: Bird & Germain, *Practical Loss Control Leadership,* 1996.

5 credits.

Fees – Course $505, text $130, S&H $10

OCHS 1200 Accident Causation and Analysis

Introduces concepts of how accidents are caused and provides evidence to support the analysis and investigation of these causes. Analyses a variety of sources, from historical perspectives to current behavioral theories, and the application of these elements to today's workplaces. Discusses accident investigation and interview techniques, and their legal, moral, and ethical implications. Students will review and analyse a number of accident scenarios throughout the course.

3 credits.

Fees – Course $305, no text, S&H $10

OCHS 1410 Fire Extinguisher Service Technician

Designed for those who want to service fire extinguishers. Meets the requirements of the City of Vancouver bylaw, which requires fire extinguisher technicians to be certified. After successfully completing the course, you may apply to ASTT for certification. Classroom course only.

1.5 credits.

Fee – Course $180, no text, manual included

OCHS 1461 Fire Protection 1

Introduces the chemistry of fire, fire hazards and causes, fire statistics, flammable and combustible liquids, fire codes and regulations, and fire safety considerations related to occupancy and construction.

3 credits.

Fees – Course $305, no text, S&H $10

OCHS 1462 Fire Protection 2

Includes fire detection systems, portable fire extinguishers, automatic sprinkler systems, fire alarms, chemical and electrical hazards.

3 credits.

Fees – Course $305, no text, S&H $10

OCHS 1463 Security Systems

Introduces the security aspects of a safety program, including physical, technical, and personnel security. Explores different types of locks, alarms, security lighting, and guard services. You perform an in-depth security survey as part of the course requirements.

1.5 credits.

Fees – Course $155, no text, S&H $10

OCHS 1500 TDG Expert Level

Provides an instructor-level certificate and the tools to develop and deliver an in-house, transportation of dangerous goods training program. Includes the practical application of classifying, packaging, marking, labelling, and documenting dangerous goods. Covers North American surface modes (road, rail, water) but focuses primarily on road transport. Provides reference throughout the course to the Canadian TDG Act and Regulations. Scheduled date in Fall 2002 term – Oct. 21 to Oct. 25.

3 credits.

Fee – Course $1105, text and course materials included

OCHS 1520 TDG Refresher

Refresher course for learners who have experience working with TDG, or who have taken a certified TDG course and wish to renew their BC certification. Classroom course is two days.

Text: Clear language version of *Canadian TDG Act and Regulations*.

1 credit.

Fee – Course $355, text $130, manual included

OCHS 1600 Business Law

Introduces the Canadian legal system, including its development, constitutional law, the Charter, torts, contracts, and business relationships. Emphasises the application and importance of business law to the OH&S practitioner.

Prerequisite - OCHS 1100 or OCHS 2100 (or equivalent).

2 credits.

Fees – Course $205, no text, S&H $10

OCHS 2100 OHS Legislation

Explores the general concepts of legislation relevant to the safety field. The history of the Canadian legal system sets the tone for introducing the concepts of workers' compensation, safety regulation, due diligence, consultation, and enforcement. Critically compares OH&S systems in Canada, the United States, and around the world. Introduces Canadian federal legislation and other safety regulations. You need access to a copy of your governing OH&S legislation.

3 credits.

Fees – Course $305, no text, S&H $10

OCHS 2200 Safety Program Design

Discusses how to coordinate, develop, implement, and maintain an OH&S program within an organisation. Explores how political, cultural, economic, and industry climates, as well as corporate and personal values, influence safety culture. Introduces management commitment, employee involvement, communication, supervision, education and training, safety recognition, safety policy, and safety committees. Provides legal, moral, and economic reasons for implementing a safety program. Outlines how to develop the policies and procedures required for a written OH&S program, including workplace inspections, accident investigations, record keeping, first aid, ergonomics, emergency preparedness, job hazard analysis, training, work procedures, and regular program review.

Prerequisite: OCHS 1100 or OCHS 2100 (or equivalent).

3 credits.

Fees – Course $305, no text, S&H $10

OCHS 2320 Workplace Hazards and Controls 1

Examines health and safety hazards and controls in a variety of work environments. Includes building and plant layout, lighting, ventilation, automated lines, systems and processes, sanitation and personnel facilities, personal protective equipment, manual materials handling, and electrical safety. Explains how to successfully eliminate or reduce the hazards and risks associated with several work processes. Reinforces the hierarchy of controls, including engineering, administrative and personal protective equipment. Discusses both historical and current issues.

Prerequisites: OCHS 1000 and OCHS 1100 or OCHS 2100 (or equivalents).

Text: National Safety Council, *Accident Prevention Manual for Business & Industry – Engineering & Technology,* 12th edition, 2001.

3 credits.

Fees – Course $305, text $140, S&H $10

OCHS 2340 Workplace Hazards and Controls 2

Examines health and safety hazards and controls in a variety of work environments. Includes building construction, excavations, blasting, ladders, work platforms, hoisting equipment, confined space entry, fall protection, mobile equipment, equipment guarding, lock-out, hand and power tools, welding, and cutting. Explains how to successfully eliminate or reduce the hazards and risks associated with several work processes. Reinforces the hierarchy of controls, including engineering, administrative and personal protective equipment. Discusses both historical and current issues.

Prerequisites: OCHS 1000 and OCHS 1100 or OCHS 2100 (or equivalents).

Text: National Safety Council, *Accident Prevention Manual for Business & Industry – Engineering & Technology*, 12th edition, 2001.

3 credits.

Fees – Course $305, text $140, S&H $10

OCHS 2420 Hazardous Materials Management

Introduces legislation regulating hazardous materials used, transferred, and stored in the workplace and the environment. Fully explores Workplace Hazardous Materials Information System (WHMIS) and Transportation of Dangerous Goods (TDG) requirements. Investigates lead abatement and asbestos management options in the workplace. Discusses the education and training requirements for hazardous materials.

Prerequisite: OCHS 1100 or OCHS 2100 (or equivalent).

Text: *Current Transportation of Dangerous Goods Act and Regulations.*

3 credits.

Fees – Course $305, text $60, S&H $10

OCHS 2440 Emergency Preparedness and Response

Focuses on the reduction of the effects of disasters through established and proven workplace emergency plans, procedures, and training. Evaluates the issues that arise prior to, during, and immediately following an emergency, as well as the long-range recovery challenges that follow. Discusses the development of an emergency response team and its implications. Includes an overview of community and government disaster services.

Text: Kuban, *The Canadian Fire Officer's Guide to Emergency Management*, 1st Edition, 1996.

3 credits.

Fees – Course $305, texts $40, video $25, S&H $10

OCHS 3200 Safety System Analysis

First in a series of three courses (3200, 4200, 4220) on how to analyse (audit) the effectiveness of an organisation's occupational health and safety program and overall safety system. Explores several measurement and analysis tools, and investigates various approaches used to determine safety program effectiveness. Explains and contrasts compliance analyses and best practice analyses. Describes several methods for designing and administering review criteria, questionnaires, perception surveys, interviews, and a final report. You choose to analyse either the workplace inspection component or the safety committee component of a safety program at an organisation of your choice. You should plan to spend about twelve hours at the workplace you choose. You observe the work and the work environment, review documents, administer a questionnaire, and conduct interviews. You present the results of your component analysis in a final report.

Prerequisite: OCHS 2200 (or equivalent).

Text: Petersen, *Analyzing Safety System Effectiveness,* 1996.

3 credits.

Fees – Course $305, text $110, S&H $10

OCHS 3320 Noise and Vibration

This theory course introduces the basic concepts of noise, acoustics, audiometry, noise dosimetry, noise control, sound measurement, vibration, and assessment of hearing loss. Explores practical applications, including estimating noise in the work environment and recommending sound control measures associated with the use of enclosures, damping, and absorbent materials.

Prerequisites: MATH 1881 and PHYS 2288 and OCHS 1100 or OCHS 2100 (or equivalents).

2 credits.

Fees – Course $205, no text, S&H $10

OCHS 3340 Noise and Vibration Lab

This one-week laboratory session provides hands-on training in the calibration and use of noise and vibration equipment. The small class size offers significant hands-on time with the equipment. Noise and vibration monitoring is conducted at BCIT's Burnaby campus.

Prerequisites: OCHS 1100 or OCHS 2100 (or equivalent) and OCHS 3320 or a pre-reading assignment. Check Web site for specific lab dates and times.

3 credits.

Fees – Course $380, lab manual included, S&H $10

OCHS 3372 Workplace Safety

Provides a review of safety issues and controls in a variety of workplaces. Each module begins with an overview of the work processes included in the industry sector. Discusses historical and current issues, and finally presents approaches for dealing with each of the major OH&S concerns. Addresses workplaces such as forest products, construction, health care, manufacturing, public sector, and natural resources.

3 credits.

Fees – Course $305, no text, S&H $10

OCHS 3420 Risk Management

Examines the specialised field of risk management, which is devoted to minimising the adverse effects of accidental loss for an organisation. Explores the five steps of risk management - identifying exposures to accidental loss, examining risk management strategies, selecting the best risk management technique, implementing the chosen technique, and monitoring the results. Discusses purchasing insurance as one means of managing risk. Explores risk analysis, performance measurement, and cost-effective risk management solutions. Challenge course available.

Prerequisites: Several 1000 and 2000 level courses (or equivalents).

Text: Head & Horn (1997), *Essentials of Risk Management,* 3rd Edition.

3 credits.

Fees – Course $305, text $100, S&H $10

OCHS 3520 Ergonomics

Covers human factors in the scientific study of people at work. Emphasises strategies and techniques for improving worker safety, health, efficiency, and comfort. Discusses recent trends in the ergonomics field, including the physical working environment, adaptation of tools and the workplace to the worker, equipment design, impacts on productivity, and the importance of involving workers and management in all ergonomics program efforts.

Prerequisites: Several 1000 and 2000 level courses (or equivalents).

4 credits.

Fees – Course $405, no text, S&H $10

OCHS 3620 Disability Case Management

Focuses on return-to-work options for workers who have suffered injuries or disease. Introduces the integrated case management team concept and how to consider the worker's dignity and well-being. Includes an overview of injury management, rehabilitation and return to work, legislation, policies, ethics, collective agreement considerations, basics of assessment and treatment, negotiation skills, case studies, and development of a practical injury management plan for the workplace.

3 credits.

Fees – Course $305, no text, S&H $10

OCHS 3720 Business Fundamentals

Introduces the principles of organisational behaviour, workplace relationships, negotiation skills, conflict resolution, the change process, and team building. Discusses the requirements to successfully run your own OH&S consulting firm, how to register a business, small business bookkeeping, setting goals, taxation, marketing, and determining charge-out rates.

Prerequisites: Several 1000 and 2000 level courses (or equivalents).

3 credits.

Fees – Course $305, no text, S&H $10

OCHS 4200 Safety Program Review 1

Second in a series of three courses (3200, 4200, 4220) on how to analyse (audit) the effectiveness of an organisation's occupational health and safety program and overall safety system. Describes several methods for designing and administering review criteria, questionnaires, interviews, a final report. Consult with your instructor and an organisation of your choice to determine the type of review you will conduct. You should plan to spend about thirty hours at the workplace you choose (may be the same workplace as

OCHS 3200). You conduct a comprehensive program review; then compile and submit the data and results from the document review, observations, discussions, questionnaires, and interviews.

Prerequisite: OCHS 3200 (or equivalent). Text: Petersen, *Analysing Safety System Effectiveness*, 1996.

3 credits.

Fees – Course $305, text $110, S&H $10

OCHS 4220 Safety Program Review 2

Third in a series of three courses (3200, 4200, 4220) on how to analyse (audit) the effectiveness of an organisation's occupational health and safety program and overall safety system. Describes how to evaluate and report on the results of your document review, observations, discussions, questionnaires, and interviews. You should plan to spend about twenty hours at the workplace you choose (should be the same workplace as OCHS 4200). You compile a comprehensive, professional report that includes an executive summary, introduction, program strengths, areas for improvement, recommendations, and a conclusion. You implement one of your recommendations at the workplace.

Prerequisite: OCHS 4200 (or equivalent).

Text: Petersen, *Analyzing Safety System Effectiveness*, 1996.

3 credits.

Fees – Course $305, text $110, S&H $10

OCHS 4320 Occupational Hygiene

This theory course introduces the concepts of anticipating, recognisng, identifying, monitoring, evaluating, and recommending control measures for common chemical and physical hazards in the workplace. Discusses the benefits of implementing an occupational hygiene program. Explores a wide range of hygiene topics including permissible levels, exposure limits, radiation, temperature and pressure extremes, asbestos contamination, and ventilation design. Challenge course available.

Prerequisites: MATH 1881 and PHYS 2288 and OCHS 1100 or OCHS 2100 (or equivalents).

Text: Plog et al., *Fundamentals of Industrial Hygiene,* 2002.

4 credits.

Fee - Course $405, text $180, video $25, S&H $10

OCHS 4340 Occupational Hygiene Lab

This one-week laboratory session provides hands-on training in the calibration and use of occupational hygiene equipment. The small class size allows you to participate in practical applications with the equipment. Occupational hygiene monitoring is conducted at BCIT's Burnaby.

Prerequisites: OCHS 1100 or OCHS 2100 (or equivalent) and OCHS 4320 or a pre-reading assignment. Lab scheduled for Aug. 19 – 23, 2002. Check Web site for additional dates.

4 credits.

Fees – Course $500, lab manual included, S&H $10

OCHS 4360 Occupational Diseases

Provides an overview of occupational diseases and their causes, prevalence, and prevention. Occupational health is "a multi-disciplinary approach to the recognition, diagnosis, treatment, prevention, and control of work-related diseases and injuries". Introduces how to set up and lead an occupational health program. Discusses respiratory, skin, liver and kidney disorders. Explores occupational diseases of the nervous system and reproductive system, as well as those related to biological and physical agent exposures. Addresses the timely and controversial topic of occupational cancer. Challenge course available.

Prerequisites: Several 1000 and 2000 level courses (or equivalents).

Text: Levy & Wegman, *Occupational Health: Recognising and Preventing Occupational Disease and Injury*, 4th Edition, 2000.

3 credits.

Fees – Course $305, text $140, S&H $10

OCHS 4420 Fire Safety 1

Begins with the history of fire and how its use and misuse have influenced humanity over the centuries. Includes the chemistry of fire, fire hazards, fire causes, and fire statistics. Introduces applicable legislation and fire codes. Discusses fire prevention activities, occupancy requirements, and construction considerations for fire safety. Introduces the role of firefighters in life safety and prevention activities.

3 credits.

Fees – Course $305, no text, S&H $10

OCHS 4440 Fire Safety 2

Explores fire detection and suppression. Includes fire detection systems, portable fire extinguishers, automatic sprinkler systems, fire, smoke, and heat alarms, and fire annunciation panels. Discusses the specific detection and suppression issues of chemical, heating, and electrical hazards. Describes the firefighter's role in prevention and suppression.

3 credits.

Fees – Course $305, no text, S&H $10

OCHS 4520 Environmental Stewardship

Examines environmental law in Canada relating to air, water and soil quality, municipal and hazardous waste management, and environmental assessment. Explores current global and local environmental issues. Outlines the impact of industrial operations on the environment, with an emphasis on Canadian industries. Discusses the role and impact of the media, partisan politics, and the public. Challenge course available.

Prerequisites: Several 1000 and 2000 level courses (or equivalents).

Text: Buchholz, *Principles of Environmental Management: The Greening of Business*, 2nd Edition, 1998.

3 credits.

Fees – Course $305, text $110, S&H $10

OPMT 1197 Statistics for Business and Industry

Presents a comprehensive study of elementary statistical methods as applied to objective decision-making in business and industry. You will be required to purchase a textbook and a pre-programmed statistical calculator. (Do not buy until first class meeting).

4.5 credits.

Offered in all 3 terms.

Contact Part-time Registration for dates offered.

Fee – Course $395

OPMT 2197 Quantitative Methods for Business

Continues from OPMT 1197 by introducing computer software to perform basic descriptive statistics, inferential statistics and includes additional quantitative models such as decision-trees, multiple regression and the fundamentals of linear programming.

Prerequisites: OPMT 1197 with a minimum grade of 65% or an equivalent college-level business statistics course (with minimum B- grade), accessibility to and basic knowledge of personal computer. The CGA of B.C. allows exemption for Quantitative Methods 2 with a grade of 65% or better in this course.

3 credits.

Offered in all 3 terms.

Contact Part-time Registration for dates offered.

Fee – Course $395

RNFA 5000 Foundations for RNFA Practice

Preliminary course that provides theoretical foundation for Registered Nurse as First Assistant practice, an expanded perioperative nursing role. Involves 16 weeks of facilitated part-time independent study, combining online learning activities with print-based modules.

Prerequisites: Registered nurse with five years current perioperative nursing experience and CPN(C).

3 credits.

RNFA 6000 Scope of RNFA Practice

Face-to-face, full-time tutorial/lab offered over a period of five days, that combines interactive learning activities with skills labs. This course is led by RNFA, physicians and perioperative nursing faculty. Prerequisite: RNFA 5000 (60%).

2 credits.

RNFA 6100 RNFA Practicum

175 hours of surgeon-mentored practice, plus additional assignments in individual practice settings.

Prerequisite: RNFA 6000.

7 credits.

* We strongly recommend the optional course "Preparing for *Online Learning*" ($150) for those not yet comfortable with computers, the Internet or online communication tools.

BCIT School of Health Sciences

ACADEMIC LEVELS	DELIVERY MODE	
	Full-time Classroom, lab instruction, clinical practicums	**Part-time** Classroom, lab instruction, clinical practicums, distance education*
Continuing Education		Basic Health Sciences Biomedical Engineering Fish Harvesting Nuclear Medicine Registered Nurse First Assistant
Certificate		Food Safety Health Management* Occupational Health & Safety*
Diploma	Biomedical Engineering Electroneurophysiology Medical Laboratory Science Medical Radiography Nuclear Medicine Nursing Occupational Health and Safety Prosthetics and Orthotics	Cardiology*
Advanced Diploma	Radiation Therapy	
Post-Diploma Advanced Certificate		Adult Echocardiography* Clinical Research* Health Care Quality Management* Health Information Systems* Health Technology Management* Medical Imaging Specialties* (Computed Tomography; Breast Imaging; Magnetic Resonance Imaging) Specialty Nursing* (Critical Care; Emergency; Neonatal; Nephrology; Occupational Health; Pediatric; Pediatric Critical Care; Perinatal; Perioperative)
Post-Diploma Diploma	Diagnostic Medical Sonography	Cardiovascular*
Degree	Biotechnology (BSc Honours in partnership with UBC) Environmental Health (Public Health Inspection) Nursing	Management: Health Care Specialty Medical Imaging* (including above specialties) Specialty Nursing* (including above specialties)
Post-Degree Diploma	Clinical Genetics	

BRITISH COLUMBIA
INSTITUTE OF TECHNOLOGY

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