

**POLYSOMNOGRAPHY
CERTIFICATE PROGRAM**

Program Code 1601X

Program Description

This certificate program offers current theory, procedures and protocols in sleep study polygraphs. The polysomnography program graduate assists in the diagnosis and treatment of disorders of sleep and daytime alertness that include narcolepsy, sleep apnea, insomnia and many others. The program prepares the graduate to operate a variety of sophisticated electronic monitoring devices that record brain activity (EEG), muscle and eye movement, respiration, blood oxygen and other physiological events. Students acquire these skill sets by lectures, discussions, computerized learning and simulated exercises. There is significant patient interaction so students must have good communication and interpersonal skills.

This program is offered on a part time basis. The non practicum courses are combination theory and practical application in a simulated setting. This allows the student to apply knowledge and gain experience with patient interaction and sleep study protocols prior to clinical experience. These courses may include evening and Saturday classes. The practicum course is a clinical experience. This experience may be delivered at various sites in the Eastern Ontario region and will have shift work to possibly include weekends, days, evenings and nights. Expenses associated with clinical experience will be the responsibility of the student.

Program of Study

Normative Hours are the number of hours usually required to complete the learning objectives of a course and represent the relative value of a course in a program of study. Normative hours may vary from the actual hours of instruction. Hours listed in the Program of Study are normative hours.

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		Hours
HLT4800	POLYSOMNOGRAPHY INSTRUMENTATION	36.0
HLT4801	APPLIED POLYSOMNOGRAPHY	36.0
HLT4803	POLYSOMNOGRAPHY SIMULATION LABORATORY	36.0
HLT4804	POLYSOMNOGRAPHY CLINICAL PRACTICUM	70.0
HLT0111	WORKPLACE PREPARATION	15.0

Admission Requirements**College Eligibility**

- Ontario Secondary School Diploma (OSSD) or equivalent, OR
- Mature Student status (19 years of age or older and without an OSSD).

Program Eligibility

- Proof of prior health care training as a physician, nurse, respiratory care practitioner, EEG technician, radiology technician, medical technician and other Allied Health professions; subject to approval by the Program Coordinator.
- Applicants are required to undertake an Algonquin College administered Canadian Language Benchmark Test (CLBT) or T Allied Health Test, for which a fee of \$40.00 will be charged. A Canadian English Language Benchmark of 8 minimum in all four sections is a requirement for this program. Test scores for individuals for whom English is a second

language may result in a further requirement to undertake English as a Second Language training either before or during the program at the discretion of the College. Candidates testing for the T Allied Health Test/CLBT, please note that test results must be current within a six month period prior to program entry.

- Proof of current Medical and Immunization Certificate.
- Current Basic Cardiac Life Support training (BCLS Level C)
- Agencies that allow the College access for clinical/field placements may require students in this program to have a clear Police Record Check.

Note: Successful completion of clinical placement is a requirement for graduation for this program. If you have been convicted of an offence under the criminal code for which you have not been pardoned, you will be unable to participate in clinical placements. If you register in the program and have a criminal record for which you have not been pardoned, you must be aware that you will not be able to meet the program requirements for graduation.

Agencies that provide clinical placement for this program require students to have a clear Police Records Check for Service with the Vulnerable Sector. To be eligible to participate in clinical placement, you must submit proof of a clear Police Records Check for Service with the Vulnerable Sector at the start of each year of the program. It must be renewed every 12 months during the program, must be submitted to the Program Department and must remain clear.

You will be required to disclose all notations on your Police Records Check to the clinical placement agencies. Your acceptance for clinical placement is at the discretion of the clinical agency. Should you wish further information, please contact your Program Chair.

It is your responsibility to obtain the Police Records Check from your local Police Department prior to the deadlines identified and to pay any associated costs. It may take a significant length of time to obtain this documentation, (up to eight (8) weeks, or longer under exceptional circumstances); therefore you are urged to submit your applications as early as possible.

Admissions:

Candidates should contact:

ACEIT Admissions, Room J117
Faculty of Health, Public Safety and Community Studies
Algonquin College, Woodroffe Campus
1385 Woodroffe Avenue
Ottawa, Ontario, K2G 1V8

Phone: 613 727 4723 ext. 7618

E mail: chettyv@algonquincollege.com

Transfer of Academic Credit (Exemption)

If you possess qualifications beyond the entry level of your program (such as successful completion of another college, university or professional association course) you may be eligible for a Transfer of Credit (or exemption) from an individual course. Official transcripts and course outlines are required at the time of application. For information or to apply for a Transfer of Credit, please contact the Program Coordinator at 613 727 4723 ext. 5084.

Prior Learning Assessment (PLA)

PLA is a process to help you identify learning gained from life and work experiences and translate that learning into College credits that could help you achieve your diploma or certificate in less time. For more information, please contact the Program Coordinator at 613 727 4723 ext. 5084.

Employment Opportunities

Graduates may find employment as Polysomnography Technologists in sleep disorder centers and clinics within hospitals, private clinics and research settings.

Fees and Expenses

Fees are charged on a course by course basis. For questions related to fees, please call the Office at 613 727 4723 ext. 7618. Please note that travel, housing accommodation and parking expenses, to partnering clinical sites for observation and clinical experience throughout the program, will be the responsibility of the student.

Graduation Fee

Once students have completed all the courses in the program, it is their responsibility to contact the Registrar's Office to obtain a certificate/diploma application. A graduation fee of \$35.00 will be charged when the application is submitted. When the certificate/diploma has been approved, they will be invited to the Spring or Fall Convocation.

Course Descriptions

HLT4800 POLYSOMNOGRAPHY INSTRUMENTATION

Students acquire theoretical and practical knowledge of instrumentation associated with polysomnography studies. The calibration and operation of troubleshooting procedures and maintenance, associated with a variety of equipment, are taught and their application practiced. Through simulated practice settings students learn to apply theory to clinical application. Corequisite: HLT4803

HLT4801 APPLIED POLYSOMNOGRAPHY

Students acquire theoretical knowledge necessary to conduct polysomnography studies. A review of the anatomy and physiology of the CNS and ANS is provided, in relation to sleep physiology and abnormalities. Students learn sleep polygraph procedures such as the measurement, recording and scoring of a variety of physiological data, to interpret a sleep polygraph and report the results to a physician. Theory is related to clinical application in simulated settings. Students simulate patient procedures such as; interviews, assessment, study set up and study monitoring. Emergency protocols are also reviewed. Prerequisite: HLT4800. Corequisite: HLT4803

HLT 4803 POLYSOMNOGRAPHY SIMULATION LABORATORY

The student applies knowledge in a simulated setting to perform polysomnogram protocols including patient interview and education of the protocol, patient preparation for polysomnography protocols, data collection, troubleshooting artefact and simulated therapy intervention as per standard protocol. Students learn to interpret findings of a sleep study and prepare a report. Students simulate patient education for areas such as obstructive sleep apnea assessment and management, therapeutic modalities, e.g. CPAP and bi-level positive pressure breathing, split night studies and sleep habits/ hygiene.

HLT4804 POLYSOMNOGRAPHY CLINICAL PRACTICUM

Practical experience in polysomnography studies is obtained. The student applies knowledge in the clinical setting to perform polysomnogram protocols including patient referral, patient interview and preparation, data collection, troubleshooting artefact and therapy intervention as per institution's protocol. Students learn to interpret findings of a sleep study and a physician's report. Students are expected to maintain patient confidentiality and follow procedures for disclosure of results. Students participate in patient education such as obstructive sleep apnea assessment and management, therapeutic modalities, e.g. CPAP and bi-level positive pressure breathing, split night studies and sleep habits/ hygiene.

Prerequisite(s): HLT4800, HLT4801 and HLT4803

HLT011 WORKPLACE PREPARATION

Students gain insight into workplace issues. Discussion includes workplace ethics such as working within the team framework and employer/client expectations. Role playing allows the student to practice interpersonal and communication skills in work related situation simulations. Skills related to employment are also included such as interview role playing, information of job searches and submission of resumes.

ESL 0041 ENGLISH AS A SECOND LANGUAGE FOR HEALTH CARE (Optional Course)

This course is specifically designed for Internationally trained health professionals. Emphasis in this course will be placed on students acquiring further skills in reading, writing, speaking and listening as applied in the health care system. Medical terminology will be utilized in all forms of communication. Students will practice writing reports and summaries of medically related material and review case studies to determine the relevant meaning. Skills in listening and speaking will be practiced to include patient interviews, verbal reports and information sessions in simulated settings.

Additional Information

Students are expected to participate in role playing as both patient and technologist in simulated clinical experiences.

This program is offered at the Woodroffe Campus. Students should become familiar with the Blackboard electronic learning system. Assistance with electronic learning is available at the College.

This program is offered through the ACEIT (Algonquin Connecting Expertise of the Internationally Trained) Project.

The ACEIT project has been made possible through funding from the Government of Ontario.

ACEIT is partnered with LASI World Skills; Algonquin College is partnered with Thompson Rivers University.

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This brochure reflects the most current information available at the time of publication, October 2007. Modifications may be made prior to the start of classes. Should there be insufficient enrollment, the college reserves the right to suspend any program, option or choice. For the most up to date information, please visit our website at www.algonquincollege.com