Technology Division

Program combines art with technology

Students who have both technological knowhow and artistic ability can combine their skills in the new two-year Creative Technology program at Sheridan.

Offered as an elective in the General Arts and Science Program in Brampton starting in September it will provide students with a wider scope of courses and a better chance for versatility than has been possible before. And there is still opportunity for directed specialization.

Students design their own program beginning with five basic subject areas—contemporary science, design computations, English and media studies, drawing and illustration and creative product design.

They choose a specialized studio area from one of the following: glass, painting, ceramics, landscape architecture, sound systems and acoustics, model building, home decorating and renovations, creative metalworking and ornamental design.

Depending on their area of specialization, graduates may find employment in any of the areas indicated. Some may pursue careers in sound systems, others in landscape architecture, others in model building, others in product design and development, or in technical illustration.

Some people may wish to begin their own business or do free-lance work as a result of what they learn; others may consider this program preparation for other post-secondary programs, including more conventional technology programs, or university programs, or teacher's college training.

Creative Technology will also, of course, be of interest to homemakers, hobbyists, homebuilding enthusiasts, and many others who wish to pursue their creative interests on either a full time or part time basis—with or without employment as their goal.

QUICK QUIZ

1. A railway bridge spans a north flowing river. A man is on the bridge at a position ¾ of the way across from the west end. He hears a train approaching the west end at the rate of 60 m.p.h. If he runs towards the west end he will meet the train at that end, and if he runs towards the east end, the train will overtake him at that end. How fast can he run?
2. For the math buff: show that $x^4-5x^3-4x^2-7x+4$ equals 0 has no negative roots.

Students tailor program to suit needs

General Technology will be offered through Sheridan's Continuing Education Division starting September 1973.

Year 1 level program of study will be fairly standard involving courses in mechanical, electronic, chemical and computer studies technology.

At the second and third year levels, the only required courses will be mathematics and English. Students may choose courses to suit their own needs and interests from those offered within any of the above areas of technology.

Students will be able to tailor interdisciplinary programs to suit their own needs. For example, a student who wishes to enter the new and expanding field of digital computing and communications, could combine electronic and mechanical courses to obtain the knowledge and skills required for computer installation and service.

VE3SCT is the call of the Amateur Radio Station located in the Brampton Campus of Sheridan College.

It is operated by licenced students and staff members and operates on all amateur bands between 80 and 10 metres and on several VHF frequencies.

Last year Sheridan invited students and staff from local secondary schools to join the "Ham Station" campus activities. It is expected that this interest will grow to include both licenced and non-licenced visitors who will share test facilities in the Electronics Division of the college.

Sheridan would especially like to assist prospective amateur radio operators prepare for the written government amateur licence examination.

Anyone interested in learning more about the ham radio activities is asked to call Don Browning, coordinator of electronics at the Brampton Campus, 459-7533 or 364-7491.

Industry is people

This fall the Technology Division of Sheridan College will offer a program based mainly on practical work.

The two-year Mechanical Technician program, available at the Brampton Campus is for the person who requires less mathematical skill and more emphasis on "hand-on" training in practical application of principles in the laboratory and development of test procedures.

The program concentrates on production operations (e.g. quality control, jig and tool design), mechanical testing and plant maintenance areas—where the need for mechanical technicians appears to be greatest.

A graduate may find employment as a quality control technician, maintenance technician, technical representative or as a design assistant. According to a recent survey, the demand for such graduates is high in the home counties of Halton and Peel.

Call the Brampton campus at 459-7533 for more details.

It's still a still

"A huge mash"—is what most students want to distill in Sheridan's 72-litre distillation unit. But, the still is used for more worthwhile academic purposes.

This distillation unit is part of Sheridan's "chemical unit operations" laboratory which consists of a number of small scale replicas of full-scale industrial units. Design data and other process information are obtained using this type of equipment. In order to predict how a full scale chemical process will function, one must have available laboratory or pilot plant data.

The chemical unit operations lab at Sheridan consists of a 72-litre bubble-cap distillation unit, a plate and frame filter press, a liquid-liquid extraction unit, a gas absorption unit, a plastics injection moulder and a unit for studying liquid agitation.

In addition, students conduct experiments on heat transfer and fluid flow equipment. The unit operations equipment can be used for a variety of practical applications. For example, the gas absorber can be used to test how effectively sulphur dioxide (a troublesome air pollutant) can be removed from an air stream using water.

This year, students in the chemical technician and chemical technology programs will be working on this equipment. Several Sheridan chemistry graduates are now working in unit operations or pilot plant jobs.

New policy for admission to professional engineering

The Association of Professional Engineers of the Province of Ontario conducts an annual examination program to enable those, whose academic qualifications fall short of the requirements for registration, to meet these requirements.

Admission to the examination program, prior to January 1, 1973, has been granted to persons with qualifications which would at least admit them into the first year of a four-year engineering course at an Ontario university, i.e., senior matriculation or its academic equivalent.

Because of the expansion of the provincial system of colleges and universities, the Council of the Association has decided that after January 1, 1973, the minimum requirement for admission to the pre-registration examination program will be a diploma from a three-year engineering technology program following Grade 12, or certification as an engineering technologist by the Ontario Association of Certified Engineering Technicians and Technologists, or equivalent.

It is now planned that after the 1975 examination session, applicants will be required to demonstrate that they have covered the material of the group of examinations comprised by the Engineering Fundamentals in the Uniform Examination Syllabus to the satisfaction of the Council of the Association before they will be allowed to proceed to the professional, or 'practice' examinations. Starting in 1976, examinations in the Engineering Fundamentals group will no longer be provided by the association.

Professional, or 'practice', examination requirements must be met within a period of five consecutive academic years, including that academic year in which the applicant is first permitted to write the professional or 'practice' examinations.

An academic year extends from Sept. 1 to June 30.

A Chemistry Technician student operates the 72-litre distillation unit at the Sheridan Brampton campus.