

Final Assessment Report
Submitted by SUPR-U to SCAPA

Undergraduate Program:	Green Process Engineering
New or Cyclical Program Review (please indicate)	Cyclical
Degree(s) Offered:	BESc
Date of Site Visit:	11/21/12
Evaluation	Good quality

Summary:

The Green Process Engineering Program, part of the Department of Chemical and Biochemical Engineering in the Faculty of Engineering, is accredited by the Canadian Engineering Accreditation Board. The first of its kind in Canada, Green Process is based on an innovative, high quality curriculum which enables students to learn how to minimize the environmental footprint of design processes and to utilize non-fossil resources in both products and services. Advancing the sustainability mission of the Faculty, the Green Process program is delivered by a cadre of outstanding professors, recognized for their teaching and research excellence. These professors bring cutting-edge research to the classroom in hands-on experiences facilitated through the well-equipped Design Studio, Engineering Laboratories, and computer labs. These facilities are organized and operated by a very committed group of technicians and staff who provide sophisticated resources and electronic manuals. The new program has attracted above-average students who are passionate about sustainability. They have opportunities to combine degrees with Law and Business, learning how to translate green energy technologies into entrepreneurial activities. The program has created a new mindset among students, outside of the traditional paradigm of Chemical and Biochemical Engineering. Class sizes are small, with a high ratio of professors to students, creating an environment of collaboration and dynamic learning which has led to projects presented at London City Hall and mentorship opportunities provided by local industries.

This is a limited enrollment program, with some room for expansion. Expanding beyond 20 students will create challenges with respect to lab access, technical support, and access to the expert professors specializing in this research. Since the expertise is so specialized and dedicated, sabbatical replacements are an issue.

Other Engineering programs in Canada address sustainability within their Chemical Engineering Departments. There is some debate about whether the program needs to be separate. There is agreement, however, that creating this mindset of sustainability and social responsibility will be effective for at least the next decade, before all Chemical Engineering Departments have fully adopted such processes in their curricula.

Recommendation	Responsibility
Monitor student numbers in relation to Faculty members, staff members, lab capacities	Department Chair, Dean
Outcome assessment – is the Green program dissimilar to common approaches utilized by Departments of Chemical Engineering – is all Chemical Engineering Green Engineering?	Department Chair, Dean