

Client Project Submission Form

Civil Engineering Design Course ENGI - 8700

Memorial University

Faculty of Engineering and Applied Science

St. John's NL, Canada A1B 3X5

To be submitted to Instructor: Stephen Bruneau, sbruneau@enr.mun.ca, 737-2119

CLIENT

COMPANY	Memorial University	address	St. John's, NL A1B 3X5		
Client Engineer	Keith Hiscock (Facilities Mgmt)	phone	737-4415	email	keithh@mun.ca
Alternate Contact	Andy Fisher (Fac. Of Eng. & Appl. Sci.)	phone	737-6180	email	adfisher@enr.mun.ca

Proposed Project Title

Integrated Design towards LEED Certification of New MUN Residence

Description of Project

Memorial University is in the process of designing and building a new 300+ bed residence for its St. John's campus. The location of the building and the detailed functional requirements have been determined and the design process has commenced. The objective of this project is to take the same design basis (constraints) and search for best practices in integrated sustainable design to see if there are viable alternatives to the approaches found through the more traditional "serial" design process. Based on informed research, the challenge is to make a compelling case for a best approach to the sustainable design for this specific building in this particular context.

Requirement of Student Group

The student group will be required to carefully research and document their work since there will be minimal project experience within the team and since they will have to defend their decisions to practitioners with many years of experience. Background into the LEED certification process and its requirements will be required as will analysis of a broad range of topics, some of which are often considered separate from Civil engineering (e.g. architecture, site planning, mechanical, electrical, controls, landscaping, transportation, air quality, etc.). In the end, a report with a clear recommendation of a specific approach is required along with all costing information that can be determined. Given LEED's emphasis on energy efficiency, the building energy system will need to be modelled and compared to the Canadian standard.

COMMENTS, CONDITIONS, RESTRICTIONS QUESTIONS

Given the breadth of topics, support and mentorship from various other sources may be required. Bill Ryan of the Canada Green Building Council has agreed to facilitate the search for information and support wherever possible.