



## Okanagan College – Penticton Campus

### The Program

The Sustainable Building Technology two-year curriculum provides students with the foundation needed to prepare, inspire, and mobilize the next generation of building technologists. This program covers the principles, concepts, and practices of project design to completion through whole systems thinking and multidisciplinary approaches which collectively enables students to deliver sustainably built environments that enhance human well-being.

The program is organized through five core streams which were developed by the Sustainable Building Technology faculty and through consultation with industry representatives. These allow for specialized education within the field of sustainability and the built environment and include the Sustainability, Building Design, Building Science and Systems, Construction Management, and Service Course streams. Together, these courses provide our graduating students with the ability to pursue careers in the (re)design, management, and execution of existing and new building projects.

### What are the Benefits to Employers?

- An opportunity to evaluate employees without an obligation to permanent employment
- A proven cost-effective method of meeting human resources needs
- Co-op students are available: **May - August** (with opportunities for part-time work during the year)
- Graduates are available in **May**
- Access to a pool of motivated, temporary employees for special projects, peak periods, vacation relief, and coverage without costly advertising

### Hire an Okanagan College Co-op Student

For more information email [careershub@okanagan.bc.ca](mailto:careershub@okanagan.bc.ca)

### Recommended Co-op Schedule for SBT

Year	September - December	January – April	May - August
1	Academic Term 1	Academic Term 2	Work Term
2	Academic Term 3	Academic Term 4	Graduation

### Program Structure

In consultation with industry-experienced practitioners, both internal and external, the SBT program has been designed with five major themes which address the important aspects of the built environment. The five themes are as follows:

1. Building studies
2. Commercial studies
3. Sustainability studies
4. Core studies
5. Projects

**The Sustainable Building Technology program has a 2-year or 3-year option.**

#### YEAR 1 - Fall Term

Introduction to Design  
 Construction Drafting and BIM I  
 Sustainability & Ethics in Construction  
 Construction Methods I  
 Sustainability & the Built Environment  
 Computer Applications I  
 Technical Writing & Communications for SBT I  
 Mathematics for SBT I

#### Year 1 - Winter Term

Quantity Surveying and Estimating I  
 Scheduling and Cost Control  
 Project Delivery  
 Construction Methods II  
 Introduction to Sustainability Assessment  
 Green Building Principles  
 Sustainable Methods and Technologies  
 Mathematics for SBT II

#### YEAR 2 - Fall Term

Construction Drafting and BIM II  
 Quantity Surveying & Estimating II  
 Biophilic Design Building  
 Systems & Energy Management  
 Sustainable Materials  
 Greening Existing Infrastructure  
 Renewable Energy Technologies  
 Capstone Project I

#### Year 2 - Winter Term

Leadership and Innovation  
 Construction Conflicts and Law  
 Sustainable Design and Development  
 Sustainable Business Case  
 Regenerative Design  
 Capstone Project II  
 Technical Writing & Communications for SBT II  
 Management Principles

**Students who pursue the 3-year option will complete the same coursework at a rate of 5 or 6 classes per semester.**