

## KITCHEN AND BATH DESIGN

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### Program Outline

<b>Major:</b>	KBDE
<b>Length:</b>	1 Year
<b>Delivery:</b>	2 Semesters
<b>Credential:</b>	Ontario College Graduate Certificate
<b>Effective:</b>	2017-2018
<b>Location:</b>	Barrie
<b>Start:</b>	Fall (Barrie)

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### Description

Kitchen and bath design is a specialized service within the residential interior decorating and design professions. Graduates of this program will build on previous design education and experience to acquire industry standard skills and expertise applicable to the kitchen and bath industry.

Students assess client needs and focus on function-based design solutions and aesthetic, durability, and environmental considerations. This program covers technical documentation, specification conventions, fabrication methods, infrastructure issues, and relevant business practices.

### Career Opportunities

Graduates may find employment with design firms offering kitchen and bath consultancy services, kitchen and bath specifiers and/or fabricators, building contractors and developers, and retailers. Students with entrepreneurial skills may become freelance kitchen and bath designers.

### Program Learning Outcomes

The graduate has reliably demonstrated the ability to:

- design residential kitchens and bathrooms that are in harmony with their surroundings using historical and contemporary design trends, colour theories, and design elements and principles;
- produce and review specifications and working drawings that use a variety of techniques, including manual drafting, computer aided drafting, and perspective drawing and rendering to convey the design solution clearly;
- justify design solutions through oral, written, and visual presentations during all stages of the design process;
- specify construction materials and systems as they relate to the cost, structure, and design of residential kitchens and baths;
- recommend energy efficient and sustainable materials for fixtures, finishes and appliances that are suitable for the space and design;
- ensure kitchen and bath designs comply with applicable legislation and requirements for the public's health, safety, and welfare;
- formulate accurate contract documents and project estimating using general business and marketing principles;
- coordinate installation procedures within a specified time frame and required budget;
- collaborate with multi-disciplinary project teams for the successful achievement of project goals;
- apply the work practices related to kitchen and bath design in environmentally responsible and sustainable ways that are beneficial to the community;
- apply basic entrepreneurial strategies to identify and respond to new opportunities.

### **The Program Progression:**

Fall Intake - Barrie

Sem 1 | Sem 2

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Fall | Winter  
2017 | 2018

### **Admission Requirements:**

- Post-secondary diploma, degree, or equivalent, with a focus in interior design, interior decorating, or architecture.

Applicants who do not have the above requirements may be considered upon submission of a portfolio showing evidence of creative ability, manual drafting and computer aided drafting skills, and industry experience.

**Graduation Requirements:**

- 11 Mandatory Courses
- 1 Field Placement

**Graduation Eligibility:**

To graduate from this program, a student must attain a minimum of 60% or a letter grade of P (Pass) or S (Satisfactory) in each course in each semester. The passing weighted average for promotion through each semester and to graduate is 60%.

**Mandatory Courses**

- KBDE1000 Kitchen Design
- KBDE1001 Bath Design
- KBDE1002 Construction Methods
- KBDE1003 Estimating
- KBDE1004 Sustainable Materials and Finishes for Kitchen and Bath Design
- KBDE1005 Computer Aided Drafting for Kitchen and Bath Design
- KBDE1006 Advanced Kitchen Design
- KBDE1007 Advanced Bath Design
- KBDE1008 Mechanical, Electrical and Hydraulics
- KBDE1009 Advanced Computer Aided Drafting for Kitchen and Bath Design
- KBDE1010 Professional Practice and Marketing

**Field Placement**

- KBDE1011 Field Placement for Kitchen and Bath Design

**Course Descriptions:**

KBDE1000 Kitchen Design 42.0 Hours

Students gain an understanding of the functional and spatial qualities of kitchen design. The design and the decision making process relevant to the planning of functional kitchens are explored and applied to the creation of new residential kitchens that satisfy

specific design criteria and adhere to regulatory codes and principles of universal design. Students learn to define the scope of a residential kitchen project, design functional and code compliant kitchen space, and specify equipment, fixtures, and cabinetry. The elements and principles of design, design philosophies, and aesthetic qualities relevant to kitchen design are studied.

#### KBDE1001 Bath Design 42.0 Hours

Students gain an understanding of the functional and spatial qualities of bath design. The design and the decision making process relevant to the planning of functional baths are explored and applied to the creation of new residential baths that satisfy specific design criteria and adhere to regulatory codes and the principles of universal design. Students learn to define the scope of a residential bath project, design functional and code compliant bath space, and specify equipment, fixtures, and cabinetry. The elements and principles of design, design philosophies, and aesthetic qualities relevant to bath design are studied.

#### KBDE1002 Construction Methods 42.0 Hours

Students study residential building systems and regulatory codes that pertain to kitchen and bath design. The integration and specification of proprietary items and fixtures with cabinetry construction and assembly is studied together with the appropriate use of construction materials and surface finishes. Site evaluation methods, interdisciplinary coordination and documentation standards, and industry installation procedures are examined and applied.

#### KBDE1003 Estimating 42.0 Hours

Students gain knowledge in estimating techniques and prepare an itemized bill of quantities from specifications for kitchen and bath designs. Methods for the preparation of a comprehensive list of material quantities for fabrication and proprietary item purchases together with cost estimates for construction materials, design components, equipment, and fixtures, and estimated labour costs for construction and installation are researched. Methods for estimating contingency sums and specifying provisional sums are examined.

#### KBDE1004 Sustainable Materials and Finishes for Kitchen and Bath Design 42.0 Hours

Students study sustainable issues including the efficient use of energy and water in the design of kitchens and baths. Materials, finishes, and proprietary items such as plumbing and cabinetry hardware, equipment, appliances, shower inserts, baths, sinks, and basins are assessed in relation to sustainable issues and hygienic, durability, and aesthetic considerations.

#### KBDE1005 Computer Aided Drafting for Kitchen and Bath Design 42.0 Hours

Industry standard kitchen and bath design software programs are studied and applied to the specification and documentation of design concepts. Students prepare technical drawings that define the scope of work and construction methods and specifications for

new and renovated kitchen and baths including plans, elevations, sections, details, and three dimensional drawings for project specifications and client presentations.

**KBDE1006 Advanced Kitchen Design 42.0 Hours**

Students further develop an understanding of the functional and spatial qualities relevant to the design of new kitchens and to the application of these qualities to the renovation of existing kitchen spaces. The focus of this course is the application of advanced planning principles to a variety of kitchen designs that vary in both scope and design criteria. Design integrity, barrier free design, sustainable applications, principles of universal design, regulatory codes, and the development of design solutions from concept to documentation are applied.

P- KBDE1000 Kitchen Design and C- KBDE1005 Computer Aided Drafting for Kitchen and Bath Design

**KBDE1007 Advanced Bath Design 42.0 Hours**

Students further develop an understanding of the functional and spatial qualities relevant to the design of new baths and to the application of these qualities to the renovation of existing bath spaces. The focus of this course is the application of advanced planning principles to a variety of bath designs that vary in both scope and design criteria. Design integrity, barrier free design, sustainable applications, principles of universal design, regulatory codes, and the development of design solutions from concept to documentation are applied.

P- KBDE1001 Bath Design and C- KBDE1005 Computer Aided Drafting for Kitchen and Bath Design

**KBDE1008 Mechanical, Electrical and Hydraulics 42.0 Hours**

This course examines the design and evaluation of new and existing building systems, including the study of heating, ventilation, and air-conditioning (HVAC), hydraulic, and electrical requirements. Applicable regulatory codes are examined for the design of plumbing, power, and lighting components. The coordination of the trades in relation to industry practices, specification standards, installation methods, and project management is examined in detail.

P- KBDE1002 Construction Methods

**KBDE1009 Advanced Computer Aided Drafting for Kitchen and Bath Design 42.0 Hours**

This course offers advanced study and practice of two-dimensional and three-dimensional computer aided drafting conventions using industry standard software. Techniques to develop a comprehensive set of kitchen and bath design construction drawings and three-dimensional renderings are applied.

P- KBDE1005 Computer Aided Drafting for Kitchen and Bath Design

**KBDE1010 Professional Practice and Marketing 42.0 Hours**

Project and financial management procedures are studied together with the psychology, theories, and strategies applicable to the development of client relations and the

management of client expectations. Marketing techniques that promote individual success and respond to sales forecasting and the impact of economic circumstances related to selling are explored.

#### KBDE1011 Field Placement for Kitchen and Bath Design 160.0 Hours

This course provides students with the opportunity to learn through experience, practice skills, and apply knowledge gained in the kitchen and bath design program. In consultation with a faculty advisor, each student will conduct a self-directed job search and secure a placement in the kitchen and bath design industry. During the placement, students record their experience in relation to skill development, personal goals, and achievement of specific learning outcomes.

P- KBDE1002 Construction Methods and P- KBDE1003 Estimating and P- KBDE1004 Sustainable Materials and Finishes for Kitchen and Bath Design and C- KBDE1006 Advanced Kitchen Design and C- KBDE1007 Advanced Bath Design and C- KBDE1009 Advanced Computer Aided Drafting for Kitchen and Bath Design

#### **Course Description Legend**

P = Prerequisite; C = Concurrent prerequisite; CO= Corequisite

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