

PART I: LABS: TECHNIQUES OF BAKING - BASIC

I. COURSE DESCRIPTION:

To provide the C.I.C.E. student with a basic understanding of the techniques, requirements and skills for the baking industry, hotels, restaurants, fast foods, and bakeries as set out by the Ministry of Skills Development of Ontario for The Trade of Cook. Familiarity with techniques and products will assist in your future purchasing decisions.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the C.I.C.E. Student will, with the assistance of an Educational Assistant:

1. Demonstrate a basic ability to prepare **Yeast Products**

Potential Elements of the Performance:

Demonstrate, in the lab, the ability to prepare yeast products:

- Straight dough method
- Sponge dough method
- Roll-in method

2. Demonstrate a basic ability to prepare **Quick Breads**

Potential Elements of the Performance:

Demonstrate, in the lab, the ability to prepare quick breads:

- Muffin method
- Biscuit method
- Creaming method

3. Demonstrate a basic ability to prepare **Pies, Tarts, and Flans**

Potential Elements of the Performance:

Demonstrate, in the lab, the basic ability to prepare pies, tarts, and flans:

- Basic pie dough
 - Demonstrate correct consistency of a pie dough
- Prepare dough for later use
 - Roll dough to rectangular, square and triangular shapes
 - Line baking sheets, flan rings
 - Roll dough to even thickness without sticking
 - Use lattice design cutter
- Prepare and/cook fillings to correct texture/thickness.
- Assemble pies/tarts/flans.
- Bake
- Present using contemporary presentation techniques (**platters and plates, applied in FDS139**)

4. Demonstrate a basic working knowledge of **pipng doughs** using proper tools, pressure to obtain **uniformity of shapes**.

Potential Elements of the Performance:

Demonstrate, in the lab, the ability to pipe doughs using proper tools, apply correct pressure to obtain uniformity in shapes:

- Prepare a suitable cookie dough for piping with plain and star tubes.
 - Pipe single and double rosettes
 - Pipe shells, hearts, crescents using required tubes
 - Pipe lady fingers, spirals and straight lines

5. Demonstrate a basic ability to prepare **sponge-based pastries**.

Potential Elements of the Performance:

Demonstrate, in the lab, the ability to prepare sponge-based pastries:

- Lady fingers, Swiss roll, genoise

6. Demonstrate a basic ability to prepare **Custard Filling and Creams**

Demonstrate, in the lab, the ability to prepare custard filling and creams:

- Pastry cream, Bavarian creams
- Present using contemporary concepts (**applied in FDS139**)

7. Demonstrate technically the basic ability to prepare **Choux Paste Products**

Potential Elements of the Performance:

Prepare choux paste products

- Describe the uses of choux paste, its characteristics properties, possibilities & limitations
- Prepare choux paste
- Recognize consistency, adjust if necessary
- Make dough for immediate use or freezing
- Glaze, fill and assemble choux paste products for pastry presentation, platter presentation and plated presentation (**applied in FDS 139**)

8. Demonstrate the basic ability to prepare **Puff Pastry Products**

Potential Elements of the Performance:

Prepare puff pastry

- Balance and adjust recipe for different needs
- Prepare basic dough by hand and/or machine
- Apply various roll-in methods

III. TOPICS:

1. Yeast dough products
2. Quick breads
3. Pies, tarts, and flans
4. Piping doughs
5. Sponge based pastries
6. Custard filling and creams
7. Choux paste products
8. Puff pastry products

PART II: BAKE THEORY:

I. COURSE DESCRIPTION:

To provide the C.I.C.E. student with a basic understanding of the requirements and skills for the baking industry, hotel, restaurant, and bakeries. Familiarity with techniques and products will help assist in your future purchasing decisions.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the C.I.C.E. student will, with the assistance of an Educational Assistant, demonstrate the basic ability to:

1. Demonstrate an understanding of **flour** production and application.
Potential Elements of the Performance:
 - a. Identify the botanical classification of wheat and rye. – list the plants used in the production of flours.
 - b. Identify the classes and varieties of wheat and rye flour. – provide background information on flours.
 - c. Identify the parts of wheat berry. – describe: bran, germ, endosperm. – describe the relationships of these parts
 - d. Define flour specifications and compositions. – state the constituents of wheat flour: moisture, starch, protein, fat, minerals, enzymes, fiber, and ash.
 - e. Describe the proper storage conditions for flour(s). – list temperature, relative humidity (perishable ingredient):
 - Temperature on flour
 - Effect on performance
 - Moisture of flour
 - Effect on performance periods of flours.

2. Demonstrate an understanding of types of **fat**.
Potential Elements of the Performance:
 - a. List and identify the different types of fat:
 - All purpose shortening, high ratio (emulsified), margarine, lard, butter, oil, blended, animal shortening, vegetable shortening.
 - b. State the basic components of each fat.
 - c. State the chemical and physical reactions of each fat.
 - d. State the function of fat in baking.

3. Explain and understand the different types of **sugar** commodities.
Potential Elements of the Performance:
 - List and identify different raw sugars
 - State their places of origin
 - List and identify different types of refined sugar
 - Describe the different types of refined sugar
 - State the use of each
 - List the uses of honey, syrup, molasses, and glucose.
 - State the types of each
 - State the uses of each
 - State the function of sugar and sweetening agents in baking.

4. Demonstrate an understanding of the use of **eggs** in the baking.
Potential Elements of the Performance:
 - a. List the uses of eggs
 - Identify the different forms of eggs: fresh, whole, dried, frozen (whole, separated), liquid.
 - b. Describe the handling and storage of eggs
 - Describe the safe, sanitary handling of eggs.
 - State the correct temperature and optimum conditions for storage of eggs.

5. Demonstrate an understanding of the uses of **dairy** products in baking
Potential Elements of the Performance:
 - a) List the uses of cream.
 - Identify the different kinds of cream: 35-40%, 18%, and 10%.
 - State the physical properties of each cream.
 - b) List the uses of milk.
 - Identify the different kinds of milk: homogenized, fortified, skimmed, buttermilk
 - State the physical properties of each
 - c) List the uses of cream and milk by-products.
 - Identify cream and milk by-products: skimmed milk powder, whey powder, baker's cheese.State the recipe use of each.

6. Demonstrate an understanding of **salt** in baking.

Potential Elements of the Performance:

- a. State the uses of sodium chloride (common salt).
 - State the sources of sodium chloride: mine (mineral), sea.
 - Identify different compositions of both processed and purified salt.
- b. State the function of salt in baking,

7. Demonstrate an understanding of **leavening agents**.

Potential Elements of the Performance:

- a. State the uses of leavening agents in baking: baking powder, baking soda, ammonium compound
 - State the original source of each
 - State the use of each in baking
 - State the effect of using each
 - State the storage of chemical leaveners.
- b. State the use of air as a leavening agent
 - Define creaming/foaming
- c. State the use of steam as a leavening agent
 - Define lamination – puff pastry
 - Define steam – popovers, choux pastry
- d. Describe yeast
 - State the micro-organism group to which yeasts belongs
 - State the basic fundamentals of growing yeast: living organisms, reproduction, budding, nutrients, environment
 - Describe the different types of cultured and wild yeast (including manufactured types)
- e. State the theory and use of fermentation
 - Define fermentation
 - Describe the process of chemical and physical change
 - State the effects of temperature of fermentation: heat, extreme cold
 - State the recommended shelf life for each product
 - Describe the use of fermentation in bread making
 - State the effects and changes of flavour and taste

8. Demonstrate an understanding of chocolate and flavourings.

Potential Elements of the Performance:

- Explain how chocolate is produced
- Explain the functions of chocolate products
- Identify the basic production of chocolate coatings and chocolate products
 - ✓ Explain the different tempering methods of couverture
 - ✓ Describe storage requirements
- Identify natural, imitation, and artificial flavours
 - ✓ Explain the method of obtaining essential oils and emulsions.

III. TOPICS:

1. Flour production and application
2. Fats
3. Sugar commodities
4. Eggs in baking
5. Dairy products
6. Salt
7. Leavening agents
8. Chocolate

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Wayne Gisslen, Professional Cooking, 5th Edition

One other source to be determined

V. EVALUATION PROCESS/GRADING SYSTEM:

The lab assignment includes the following:

1. Gathering of utensils and raw materials
2. Pre-preparation of the assigned items
3. Preparation (cooking, baking) of the items
4. Proper storage of the ready items including packaging, refrigeration, and freezing
5. Cleaning of utensils, equipment, work areas, and cooking surfaces. No mark will be assigned until work areas are clean
6. Putting all utensils and small wares into their allocated places
7. No student is to leave the lab area until the end of the period

With the help of the above, students will be **graded in the labs** as follows:

Professionalism & Appearance	15%
- uniform, grooming, deportment	
Sanitation & Safety	25%
- personal, work environmental, product management	
- safe handling, operation, cleaning & sanitizing of tools and equipment	
- organization of work area	
Method of Work	40%
- Application of theory	
- Application of culinary methods & techniques	
Quality of Finished Product	20%
- appearance, taste, texture	

Students will be **graded in Theory Component** as follows:

Theory test # 1	25%
Theory test # 2	25%
Final Assessment	<u>50%</u>
Total:	100%

NOTE THAT THE FINAL GRADE WILL CONSIST OF

LABS:	60%
THEORY:	<u>40%</u>
TOTAL:	100%

The following semester grades will be assigned to students in postsecondary courses:

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
A+	90 - 100%	4.00
A	80 - 89%	4.00
B	70 - 79%	3.00
C	60 - 69%	2.00
D	50 - 59 %	1.00
F (Fail)	49% or below	0.00
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field placement or non-graded subject areas.	
U	Unsatisfactory achievement in field placement or non-graded subject areas.	
X	A temporary grade. This is used in limited situations with extenuating circumstances giving a student additional time to complete the requirements for a course (see <i>Policies & Procedures Manual – Deferred Grades and Make-up</i>).	
NR	Grade not reported to Registrar's office. This is used to facilitate transcript preparation when, for extenuating circumstances, it has not been possible for the faculty member to report grades.	
W	Student has withdrawn from the course without academic penalty	

VI. SPECIAL NOTES:

Dress Code:

All students are required to wear their uniforms while in the Hospitality and Tourism Institute, both in and out of the classroom. **(Without proper uniform, classroom access will be denied)**

Special Needs:

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your instructor and/or the Special Needs office. Visit Room E1101 or call Extension 493 so that support services can be arranged for you.

Retention of course outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Plagiarism:

Students should refer to the definition of “academic dishonesty” in *Student Rights and Responsibilities*. Students who engage in “academic dishonesty” will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course/program, as may be decided by the professor/dean. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Course outline amendments:

The Professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Substitute course information is available in the Registrar's office.

VII. PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advanced credit in the course should consult the professor. Credit for prior learning will be given upon successful completion of a challenge exam or portfolio.

VIII. DIRECT CREDIT TRANSFERS:

Students who wish to apply for direct credit transfer (advanced standing) should obtain a direct credit transfer form from the Dean's secretary. Students will be required to provide a transcript and course outline related to the course in question.

CICE Modifications:

Preparation and Participation

1. An Integrative Educational Assistant will attend class with the student(s) to assist with inclusion in the class and to take notes.
2. Students will receive support in and outside of the classroom (i.e. tutoring, assistance with homework and assignments, preparation for exams, tests and quizzes.)
3. Study notes will be geared to test content and style which will match with modified learning outcomes.
4. Although the Integrative Educational Assistant may not attend all classes with the student(s), support will always be available. When the Integrative Educational Assistant does attend classes he/she will remain as inconspicuous as possible.

A. Tests may be modified in the following ways:

1. Tests, which require essay answers, may be modified to short answers.
2. Short answer questions may be changed to multiple choice or the question may be simplified so the answer will reflect a basic understanding.
3. Tests, which use fill in the blank format, may be modified to include a few choices for each question, or a list of choices for all questions. This will allow the student to match or use visual clues.
4. Tests in the T/F or multiple choice format may be modified by rewording or clarifying statements into layman's or simplified terms. Multiple choice questions may have a reduced number of choices.

B. Tests will be written in CICE office with assistance from an Integrative Educational Assistant.

The Integrative Educational Assistant may:

1. Read the test question to the student.
2. Paraphrase the test question without revealing any key words or definitions.
3. Transcribe the student's verbal answer.
4. Test length may be reduced and time allowed to complete test may be increased.

C. Assignments may be modified in the following ways:

1. Assignments may be modified by reducing the amount of information required while maintaining general concepts.
2. Some assignments may be eliminated depending on the number of assignments required in the particular course.

The Integrative Educational Assistant may:

1. Use a question/answer format instead of essay/research format
2. Propose a reduction in the number of references required for an assignment
3. Assist with groups to ensure that student comprehends his/her role within the group
4. Require an extension on due dates due to the fact that some students may require additional time to process information
5. Formally summarize articles and assigned readings to isolate main points for the student
6. Use questioning techniques and paraphrasing to assist in student comprehension of an assignment

D. Evaluation:

Is reflective of modified learning outcomes.