

I. COURSE DESCRIPTION:

To provide the student with an 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 student will demonstrate the ability to:

1. Demonstrate a working knowledge 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, and 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 a working knowledge 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 a working knowledge 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, and 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 a working knowledge 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 a working knowledge 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 a working knowledge 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 a working knowledge 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, 6th Edition****V. EVALUATION PROCESS/GRADING SYSTEM:**

Students will be graded as follows:

Theory test # 1	25%
Theory test # 2	25%
Final Assessment	<u>50%</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 limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.	
NR	Grade not reported to Registrar's office.	

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)**

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.

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.

Prior Learning Assessment:

Students who wish to apply for advance credit transfer (advanced standing) should obtain an Application for Advance Credit from the program coordinator (or the course coordinator regarding a general education transfer request) or academic assistant. Students will be required to provide an unofficial transcript and course outline related to the course in question. Please refer to the Student Academic Calendar of Events for the deadline date by which application must be made for advance standing.

Credit for prior learning will also be given upon successful completion of a challenge exam or portfolio.

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

Disability Services:

If you are a student with a disability (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Disability Services office. Visit Room E1101 or call Extension 2703 so that support services can be arranged for you.

Communication:

The College considers **WebCT/LMS** as the primary channel of communication for each course. Regularly checking this software platform is critical as it will keep you directly connected with faculty and current course information. Success in this course may be directly related to your willingness to take advantage of the **Learning Management System** communication tool.

Plagiarism:

Students should refer to the definition of “academic dishonesty” in *Student Code of Conduct*. A professor/instructor may assign a sanction as defined below, or make recommendations to the Academic Chair for disposition of the matter. The professor/instructor may (i) issue a verbal reprimand, (ii) make an assignment of a lower grade with explanation, (iii) require additional academic assignments and issue a lower grade upon completion to the maximum grade “C”, (iv) make an automatic assignment of a failing grade, (v) recommend to the Chair dismissal from the course with the assignment of a failing grade. 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.

Student Portal:

The Sault College portal allows you to view all your student information in one place. **mysaultcollege** gives you personalized access to online resources seven days a week from your home or school computer. Single log-in access allows you to see your personal and financial information, timetable, grades, records of achievement, unofficial transcript, and outstanding obligations, in addition to announcements, news, academic calendar of events, class cancellations, your learning management system (LMS), and much more. Go to <https://my.saultcollege.ca>.

Electronic Devices in the Classroom:

Students who wish to use electronic devices in the classroom will seek permission of the faculty member before proceeding to record instruction. With the exception of issues related to accommodations of disability, the decision to approve or refuse the request is the responsibility of the faculty member. Recorded classroom instruction will be used only for personal use and will not be used for any other purpose. Recorded classroom instruction will be destroyed at the end of the course. To ensure this, the student is required to return all copies of recorded material to the faculty member by the last day of class in the semester. Where the use of an electronic device has been approved, the student agrees that materials recorded are for his/her use only, are not for distribution, and are the sole property of the College.

Attendance:

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session.

Tuition Default:

Students who have defaulted on the payment of tuition (tuition has not been paid in full, payments were not deferred or payment plan not honoured) as of the first week of *November* will be removed from placement and clinical activities. This may result in loss of mandatory hours or incomplete course work. Sault College will not be responsible for incomplete hours or outcomes that are not achieved or any other academic requirement not met as of the result of tuition default. Students are encouraged to communicate with Financial Services with regard to the status of their tuition prior to this deadline to ensure that their financial status does not interfere with academic progress.