

# PROC 2002 INNOVATIVE FOODS

**Credit Points** 10

**Legacy Code** 301452

**Coordinator** Malik Hussain ([https://directory.westernsydney.edu.au/search/name/Malik Hussain/](https://directory.westernsydney.edu.au/search/name/Malik%20Hussain/))

**Description** This subject introduces students to the principles of food preservation, including heat treatments, chilling, freezing, dehydration, pickles and fermentation. Factors affecting food quality are explored with respect to microbial, chemical and physical changes in food and their effects on food safety, nutritional value and sensory characteristics. The basic principles of good manufacturing practises, sanitation and Hazard Analysis Critical Control Point (HACCP) for control of food safety will be studied in relation to the design of safe food manufacturing processes. The application of the food preservation principles to the processing of food products is covered through hands-on practicals in the pilot plant.

**School** Science

**Discipline** Food Processing Technology

**Student Contribution Band** HECS Band 2 10cp

Check your fees via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Undergraduate Level 2 subject

**Pre-requisite(s)** PROC 1005 - Introduction to Food Science

## Restrictions

Successful completion of 60 credit points

## Assumed Knowledge

Knowledge of first year chemistry and biology; understanding of food composition.

## Learning Outcomes

On successful completion of this subject, students should be able to:

1. Describe the factors affecting food quality with respect to microbial, chemical and physical changes and their effects on food safety, nutritional value and sensory quality
2. Explain the principles of sustainable food processing and preservation
3. Identify the development stages critical to developing innovative foods.
4. Articulate the critical control points and prerequisite programs needed to ensure the safety (HACCP plan) for a food process.

## Subject Content

1. Developments in food innovation to produce new food products.
2. Factors affecting nutrition, quality, shelf life, and safety of the innovative foods during processing.
3. Principles of food preservation including heat treatments, chilling, freezing, dehydration, acid preserves, fermentation, and packaging.
4. Food safety assessment and novel foods regulations.
5. Application of good manufacturing practises (GMPs) and food safety management systems in food manufacturing.

## Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Type	Length	Percent	Threshold	Individual/ Group Task
Quiz	4x 15 minutes	20	N	Individual
Report	2,000 words	20	N	Individual
Case Study	2,000 words	20	N	Individual
Final Exam	2 hours	40	N	Individual

Teaching Periods

## Autumn (2024)

### Hawkesbury

#### On-site

**Subject Contact** Malik Hussain ([https://directory.westernsydney.edu.au/search/name/Malik Hussain/](https://directory.westernsydney.edu.au/search/name/Malik%20Hussain/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=PROC2002\\_24-AUT\\_HW\\_1#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=PROC2002_24-AUT_HW_1#subjects))