



SAMPLE COURSE OUTLINE

FOOD SCIENCE AND TECHNOLOGY GENERAL YEAR 11

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Sample course outline

Food Science and Technology – General Year 11

Unit 1 – Food choices and health and Unit 2 – Food for communities

Semester 1

Week	Key teaching points
1–2	<p>Preparation practices</p> <ul style="list-style-type: none"> • workplace regulations for safety and health <ul style="list-style-type: none"> ▪ protective clothing and footwear ▪ personal hygiene ▪ emergency procedures • safe food handling practices <ul style="list-style-type: none"> ▪ safe storage of raw and processed foods ▪ prevention of cross contamination ▪ clean equipment • produce food products using raw and processed foods <ul style="list-style-type: none"> ▪ select and safely use appropriate equipment, such as knives and hot surfaces ▪ demonstrate mise-en-place and precision cutting skills ▪ demonstrate safe food handling practices
3–4	<p>Investigate raw and processed food</p> <ul style="list-style-type: none"> • classification of food <ul style="list-style-type: none"> ▪ animal ▪ plant ▪ raw ▪ processed • investigate a raw and a processed food product <ul style="list-style-type: none"> ▪ use ▪ nutrition ▪ cost ▪ shelf life • devise food products using raw and processed foods <ul style="list-style-type: none"> ▪ cost recipes <p>Task 1: Test – Preparation practices</p>
5–6	<p>Selecting raw and processed food</p> <ul style="list-style-type: none"> • sensory properties that influence selection and use of raw and processed food <ul style="list-style-type: none"> ▪ appearance ▪ texture ▪ aroma ▪ flavour ▪ sound • physical properties that influence selection and use of raw and processed food <ul style="list-style-type: none"> ▪ size ▪ shape ▪ colour ▪ volume ▪ viscosity

Week	Key teaching points
	<ul style="list-style-type: none"> • effects of processing techniques on sensory and physical properties of food <ul style="list-style-type: none"> ▪ change in appearance ▪ change in texture ▪ change in flavour • evaluate food products developed from raw and processed foods <ul style="list-style-type: none"> ▪ sensory properties
7–8	<p>Celebrate local foods</p> <ul style="list-style-type: none"> • economic and environmental considerations when purchasing locally produced commodities <ul style="list-style-type: none"> ▪ food availability ▪ cost ▪ ‘food miles’ ▪ packaging ▪ waste • environmental issues that arise from food and lifestyle choices <ul style="list-style-type: none"> ▪ food availability ▪ ‘food miles’ ▪ packaging ▪ recycling and waste • devise food products using raw and processed foods <ul style="list-style-type: none"> ▪ organise food orders and production plans • produce food products using raw and processed foods <ul style="list-style-type: none"> ▪ demonstrate teamwork skills, such as communication and collaboration ▪ present safe, quality, palatable food • evaluate food products developed from raw and processed foods <ul style="list-style-type: none"> ▪ the effectiveness of skills, practices or processes ▪ use relevant terminology <p>Task 2: Celebrate local foods</p>
9–10	<p>Nutritional value of food</p> <ul style="list-style-type: none"> • food sources and functions of nutrients and water in the body <ul style="list-style-type: none"> ▪ protein ▪ carbohydrates ▪ vitamins ▪ minerals ▪ lipids • importance of a balanced diet and the consumption of a wide variety of foods for health • devise food products using raw and processed foods <ul style="list-style-type: none"> ▪ adapt recipes to suit a purpose
11–12	<p>Food choices</p> <ul style="list-style-type: none"> • factors that influence food choices <ul style="list-style-type: none"> ▪ cost ▪ food availability ▪ family characteristics ▪ peer group ▪ nutritional value • use of food selection models and guides to evaluate diets <ul style="list-style-type: none"> ▪ <i>Healthy Eating Pyramid (Nutrition Australia May 2015)</i> ▪ <i>The Australian Guide to Healthy Eating</i> ▪ <i>Australian Dietary Guidelines</i> • devise food products using raw and processed foods <ul style="list-style-type: none"> ▪ interpret recipes <p>Task 3: Food choices</p>

Week	Key teaching points
13–14	<p>Food for adolescents</p> <ul style="list-style-type: none"> • nutritional requirements of adolescents <ul style="list-style-type: none"> ▪ protein ▪ calcium ▪ iron • devise food products using raw and processed foods <ul style="list-style-type: none"> ▪ adapt recipes to suit a purpose • produce food products using raw and processed foods <ul style="list-style-type: none"> ▪ measure ingredients using Australian Standard metric measurement ▪ demonstrate various methods of cooking • Australian food labelling requirements <ul style="list-style-type: none"> ▪ nutrition information panel ▪ percentage labelling ▪ name and/or description of the food ▪ food recall information ▪ information for allergy sufferers ▪ date marking ▪ ingredients list ▪ country of origin ▪ barcode ▪ weights and measures
15–16	<p>A food advertisement</p> <ul style="list-style-type: none"> • influences on adolescent food choices <ul style="list-style-type: none"> ▪ use of celebrities, media practices, including music, body image, colour, fonts and graphics, and food styling techniques to market food products ▪ advertising ▪ marketing <p>Task 4: A food advertisement</p>

Semester 2

Week	Key teaching points
1	<p>Staple food commodities</p> <ul style="list-style-type: none"> • staple food commodities readily available in Australia • factors that affect the supply of staple food <ul style="list-style-type: none"> ▪ food availability ▪ cost ▪ climate or seasons ▪ natural disasters • investigate staple food products <ul style="list-style-type: none"> ▪ use ▪ nutrition ▪ cost ▪ shelf life
2–3	<p>Selecting staple foods</p> <ul style="list-style-type: none"> • primary and secondary processes used to convert raw commodities into safe, quality food products • sensory properties that influence selection and use of staple food <ul style="list-style-type: none"> ▪ appearance ▪ texture ▪ aroma ▪ flavour ▪ sound • physical properties that influence selection and use of staple food <ul style="list-style-type: none"> ▪ size ▪ shape ▪ colour ▪ volume ▪ viscosity <p>Task 5: Staple food commodities</p>
4–5	<p>Dry processing techniques</p> <ul style="list-style-type: none"> • the effect of processing techniques on the sensory and physical properties of food <ul style="list-style-type: none"> ▪ dry processing techniques • produce food products using staple foods <ul style="list-style-type: none"> ▪ measure ingredients using Australian Standard metric measurement ▪ demonstrate safe food handling practices ▪ demonstrate dry processing techniques • evaluate food products developed from staple foods <ul style="list-style-type: none"> ▪ product's sensory properties <p>Task 6: The big bake-off</p>
6–7	<p>Wet processing techniques</p> <ul style="list-style-type: none"> • the effect of processing techniques on the sensory and physical properties of food <ul style="list-style-type: none"> ▪ wet processing techniques • produce food products using staple foods <ul style="list-style-type: none"> ▪ select and safely use appropriate equipment ▪ demonstrate mise-en-place and precision cutting skills ▪ demonstrate wet processing techniques • evaluate food products developed from staple foods <ul style="list-style-type: none"> ▪ effective use of skills, practices or processes
8	<p>Macronutrients for health</p> <ul style="list-style-type: none"> • food sources and role of macronutrients and water for health

Week	Key teaching points
	<ul style="list-style-type: none"> ▪ protein: complete and incomplete ▪ carbohydrates: starches, sugars, and fibre or cellulose ▪ lipids: saturated fats and oils, and unsaturated fats and oils • macronutrient requirements depending on age and lifestyle <ul style="list-style-type: none"> ▪ protein ▪ carbohydrates ▪ lipids
9–10	<p>Health issues</p> <ul style="list-style-type: none"> • health issues that arise from food choices <ul style="list-style-type: none"> ▪ malnutrition ▪ underweight ▪ overweight ▪ allergies ▪ intolerances • nutrition-related health conditions and the need for specialised diets <ul style="list-style-type: none"> ▪ coeliac ▪ lactose intolerance • devise food products using staple foods <ul style="list-style-type: none"> ▪ adapt recipes to suit a purpose • use of the <i>Australian Dietary Guidelines</i> to evaluate food choices <p>Task 7: Test – Health issues</p>
11	<p>Microwave cooking</p> <ul style="list-style-type: none"> • the effect of processing techniques on the sensory and physical properties of food <ul style="list-style-type: none"> ▪ microwave cooking • produce food products using staple foods <ul style="list-style-type: none"> ▪ demonstrate microwave cooking • evaluate food products developed from staple foods <ul style="list-style-type: none"> ▪ product’s sensory properties
12–13	<p>A healthy food product</p> <ul style="list-style-type: none"> • devise food products using staple foods <ul style="list-style-type: none"> ▪ cost recipes • produce food products using staple foods <ul style="list-style-type: none"> ▪ present safe, quality, palatable food • evaluate food products developed from staple foods <ul style="list-style-type: none"> ▪ use of relevant terminology • labelling requirements for food and beverage products available in Australia <ul style="list-style-type: none"> ▪ nutrition information panel ▪ percentage labelling ▪ name and/or description of the food ▪ food recall information ▪ information for allergy sufferers ▪ date marking ▪ ingredients list ▪ country of origin ▪ barcode ▪ weights and measures <p>Task 8: A healthy food product</p>
14	<p>Ethical choices</p> <ul style="list-style-type: none"> • ethical influences on food choices, such as animal welfare, fair trade, resource use and country of origin

Week	Key teaching points
	<ul style="list-style-type: none"> • reasons for vegetarian or vegan diets <ul style="list-style-type: none"> ▪ health ▪ ethical values ▪ cultural ▪ economic cost
15–16	<p>Food for communities</p> <ul style="list-style-type: none"> • workplace regulations for safety and health <ul style="list-style-type: none"> ▪ protective clothing and footwear ▪ signage for procedures and hazards ▪ safe posture, including lifting, bending and standing ▪ emergency procedures • safe food handling practices <ul style="list-style-type: none"> ▪ safe storage and thawing of raw and processed foods ▪ prevention of cross contamination ▪ clean equipment and work surfaces • devise food products using staple foods <ul style="list-style-type: none"> ▪ interpret recipes ▪ organise food orders and production plans • produce food products using staple foods <ul style="list-style-type: none"> ▪ demonstrate teamwork skills, such as planning and problem solving ▪ present safe, quality, palatable food • evaluate food products developed from staple foods <ul style="list-style-type: none"> ▪ effective use of skills, practices or processes ▪ use of relevant terminology