

FOS 3042 – INTRODUCTORY FOOD SCIENCE

Spring 2024
3 Credit Hours

Sections RES2, UFO2, and REC2

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Email	asli@ufl.edu (Please use "Mail" function in Canvas for FOS3042 when possible)
Office Hours	11AM-12PM Wednesday. See Canvas Calendar for the link to the Zoom meeting. This is the formal office hour. You are always welcome to contact me through Canvas to schedule a Zoom meeting any time, Monday through Friday.
T.A.	Please contact our TAs through the Canvas website <ul style="list-style-type: none">• Nikita Shusal, shusalnikita@ufl.edu• Mari Schroeder, mari.schroeder@ufl.edu• Lataurya Tillman, ltillman@ufl.edu• Miguel Vasconez, mvasconez@ufl.edu
Textbook	There is no textbook requirement for this course.



Two books we will make use of this semester are cited below. Several chapters of these books are required reading and the links to these chapters are under the relevant module on Canvas course website. UF Libraries have electronic copies (TX355 .H28 2008 and TX 791) of these titles, both of which are available to UF students. For off-campus access to these books in full, you will need to use a VPN connection. Instructions for downloading the required VPN software is posted under "Announcements" on course page on Canvas.

Hartel, R. W., & Hartel, A. K. (2008). Food Bites: The science of the foods we eat. Springer.

Hartel, R. W., & Hartel, A. K. (2014). Candy Bites: The science of sweets. Springer.

Course Description	Introductory Food Science is a comprehensive course providing introductory knowledge of food chemistry, food laws, food processing & preservation, food microbiology & fermentation, food safety, and food engineering. This course confers General Education credit for Biology (B). There is a Distance Learning Fee involved with this course (\$12.99 total, i.e., \$4.33 per credit hour).
Course Objectives	Provide a comprehensive overview of food science and technology; define and examine the differences between food constituents; identify reasons behind food deterioration and spoilage; introduce food laws and regulations; gain a basic understanding of methods used to preserve foods; and to explore basic food processing and preservation techniques.

[Here is a link to the General Education Objectives for Biological Sciences \(B\).](#)

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Emilie Sanchez



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Essentials of Food Science Vickie A. Vaclavik, Elizabeth W. Christian, 2007-12-03 Essentials of Food Science covers the basics of foods food science and food technology The book is meant for the non major intro course whether taught in the food science or nutrition dietetics department In previous editions the book was organized around the USDA Food Pyramid which has been replaced The revised pyramid will now be mentioned in appropriate chapters only Other updates include new photos website references and culinary alerts for culinary and food preparation students Two added topics include RFID Radio frequency ID tags and trans fat disclosures Includes updates on food commodities optimizing quality laws and food safety

Introduction to Food Science and Technology Maynard Andrew Amerine, George Franklin Stewart, 1982

Introduction to Food Science and Food Systems Rick Parker, Miriah Pace, 2016-03-04 Cultivate a career in food science with INTRODUCTION TO FOOD SCIENCE AND FOOD SYSTEMS 2nd Edition Uncover the foundations of the modern food industry from nutrition and chemistry to processing and safety and delve into some of the most pressing foodborne issues of our day Laced with full color images drawings charts and graphs chapters discuss the latest information on genetically engineered foods environmental concerns and sustainability food needs of the world the impacts of food on health and more INTRODUCTION TO FOOD SCIENCE AND FOOD SYSTEMS 2nd Edition also tests your understanding of agriscience concepts with practical hands on activities in math science and other key areas aligning the readings with National Agricultural Education Standards and FFA Career Development Events CDEs Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

Food Science Norman N. Potter, Joseph H. Hotchkiss, 1998 Now in its fifth edition Food Science remains the most popular and reliable text for introductory courses in food science and technology This new edition retains the basic format and pedagogical features of previous editions and provides an up to date foundation upon which more advanced and specialized knowledge can be built This essential volume introduces and surveys the broad and complex interrelationships among food ingredients processing packaging distribution and storage and explores how these factors influence food quality and safety Reflecting recent advances and emerging technologies in the area this new edition includes updated commodity and ingredient chapters to emphasize the growing importance of analogs macro substitutions fat fiber and sugar substitutes and replacement products especially as they affect new product development and increasing concerns for a healthier diet Revised processing chapters include changing attitudes toward food irradiation greater use of microwave cooking and microwaveable products controlled and modified atmosphere packaging and expanding technologies such as extrusion cooking ohmic heating and supercritical fluid extraction new information that addresses concerns about the responsible management of food technology considering environmental social and economic consequences as well as the increasing globalization of the food industry Discussions of food safety and consumer protection including newer phytochemical pathogens HACCP techniques for product safety and

quality new information on food additives pesticides and hormones and the latest information on nutrition labeling and food regulation An outstanding text for students with little or no previous instruction in food science and technology Food Science is also a valuable reference for professionals in food processing as well as for those working in fields that service regulate or otherwise interface with the food industry

Introduction to Food Science R. O. Parker, 2003 *Food Engineering Principles and Practices* Syed S. H. Rizvi, 2024-03-07 This textbook is designed for a one semester course on Food Engineering and it offers a concise in depth and integrated introduction to the fundamental engineering and physicochemical principles and practices of utility in food processing and manufacturing operations The textbook includes topics mandated by the Institute of Food Technologists for accreditation of Food Science curricula and helps prepare the students better for taking advance courses related to unit operations in food manufacturing It is also relevant for Food Process Engineering courses containing materials that most instructors can cover in three semester hours of instruction In the first three chapters readers will find an overview of the basic knowledge of physics and chemistry and an introduction to the engineering language needed to eliminate confusion going forward In the following chapters the author covers the main concepts of food thermodynamics heat transfer radiation in food materials mass transfer and fluid dynamics in food along with real life examples and exercises to help students relate better to the topics The author also gives a brief introduction to the main mathematical and analytical concepts required in food engineering This textbook equips readers to understand a diversity of food engineering related topics and each chapter is enriched with practical examples and Check Your Understanding sections as well as several problems The textbook is aimed at undergraduate food science students in their first required introductory food engineering course but practitioners involved in designing optimizing and managing the processing of food products will also find it a useful account

Elementary Food Science Ernest R. Vieira, 2013-04-17 Following the success of the previous editions this popular introductory text continues to provide thorough up to date information covering a broad range of topics in food science with emphasis on food processing and handling and the methodology of specific foods Presenting a multitude of easy to understand figures tables illustrated concepts and methods This text maintains the strengths of the previous edition while adding new information The book opens with a revised chapter on what food science actually is detailing the progression of food science from beginning to future Succeeding chapters include the latest information on food chemistry and dietary recommendations food borne diseases and microbial activity A complete revision of HACCP is outlined accompanied by numerous examples of flow charts and applications as well as major additions on food labeling Extensive updates have been made on processing methods and handling of foods such as new procedures on candy making coffee and tea production beer and wine production soft drinks ultra high temperature processing aseptic packaging aquaculture and surimi and UHT and low temperature pasteurization of milk In addition there is a completely new section which includes safety and sanitation as well as laboratory exercises in sensory microbiological chemical quality test and

processing methods for a variety of the foods described in previous chapters Introduction to Food Science and Technology George F. Stewart, Maynard Andrew Amerine, 1973 Evolution of food processing World food situation Food quality and its measurements Human nutrition and food science Food processing and preservation packaging food Food safety and environmental sanitation Food laws and regulations Careers in food science and technology Introducing Food Science Robert L. Shewfelt, Alicia Orta-Ramirez, Andrew D. Clarke, 2015-08-28 Written as an introductory food science textbook that excites students and fosters learning the first edition of *Introducing Food Science* broke new ground With an easy to read format and innovative sections such as Looking Back Remember This and Looking Ahead it quickly became popular with students and professors alike This newly revised second edition keeps the features that made the first edition so well liked while adding updated information as well as new tables figures exercises and problems See What's New in the Second Edition New chapter Sustainability and Distribution Approximately 60 new tables and figures New section at the end of each chapter with problems exercises to test comprehension Now includes a glossary The book consists of four sections with each one building on the previous section to provide a logical structure and cohesiveness It contains a series of problems at the end of each chapter to help students test their ability to comprehend the material and to provide instructors a reservoir for assignments class discussions and test questions At least one problem at the end of each chapter involves a calculation so that students can strengthen their quantitative skills The text introduces the basics of food science and then building on this foundation explores its sub disciplines The well rounded presentation conveys both commercial and scientific perspectives providing a true flavor of food science and preparing students for future studies in this field **Introduction to Food Science**, 1999 **The Science of Food** P. M. Gaman, Sherrington K. B., 1989 **The Science of Food** P. M. Gaman, K. B. Sherrington, 1983 *Introduction to Food Science and Technology* Andaleeb Ahmed, 1993 **Introductory food science**, 1967 *Introductory food science, etc. [With illustrations.]* Donald Bailey SMITH (and WALTERS (Arthur Harry)), Arthur Harry Walters, 1967 **Introduction to Food Chemistry** Richard Owusu-Apenten, 2019-08-30 Providing a thorough introduction to the core areas of food science specified by the Institute of Food Technologists *Introduction to Food Chemistry* focuses on principles rather than commodities and balances facts with explanations The text covers the major areas of food science including food chemistry food analysis and methods for quality assurance nutrition diet and health food microbiology food material science biochemical changes in fresh foods food enzymology and food processing Within each chapter more complex ideas appear near the end This provides beginning students and those new to the food industry with a complete spectrum of information while assisting advanced students with specialized papers and research articles This multi level text presents a wealth of information in a clear and accessible style It serves as an ideal introduction or supplementary textbook for undergraduate and graduate students in food science courses **Introduction to Food Chemistry** Richard Owusu-Apenten, 2004-12-16 Providing a thorough introduction to the core areas of food science specified by the Institute of

Food Technologists Introduction to Food Chemistry focuses on principles rather than commodities and balances facts with explanations The text covers the major areas of food science including food chemistry food analysis and methods for quality assurance nutrition diet and health food microbiology food material science biochemical changes in fresh foods food enzymology and food processing Within each chapter more complex ideas appear near the end This provides beginning students and those new to the food industry with a complete spectrum of information while assisting advanced students with specialized papers and research articles This multi level text presents a wealth of information in a clear and accessible style It serves as an ideal introduction or supplementary textbook for undergraduate and graduate students in food science courses

Introductory Food Science Sims-Rodrick,1997-12 F17P. Introductory Food Science , *Handbook of Food Science, Technology, and Engineering* Y. H Hui (ed., etc),2006

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