

# Baking Foundations I Master Course Outline

#### **Day 1: Course Introduction**

• Lecture

Program review, how to succeed in this class, facility and Cascade Culinary Institute environmental overview. Overview of Central Oregon Community College at, Syllabus review

http://www.screencast.com/t/UBwMCbP7HD8

- Learning Objectives
  - □ Review BAK I Grading and Performance Expectations
  - □ Review *Professional Baking* Textbook
  - Learn Professionalism and Uniform Expectations
  - Review Peer "Dream" and Career Path Goals
  - Learn Knife Kit Anatomy and Nomenclature <u>http://www.mercercutlery.com/how-tos</u>
  - Learn proper Campus Fire Drill Procedures
  - Learn about Campus Sustainability and Waste Management Programs
  - Complete photo/video consent form

This class will cover the following competencies:

- □ Prepare a variety of baked products using pie methods,
- Describe and use the equipment typical to the baking process
- Understand and apply the basic baking science principles, ratio and technique
- Prepare a variety of meringues
- □ Prepare and bake a variety of cookies
- Derepare pastry foundations including pastry cream, pate a choux, crème anglaise
- Demonstration

Knife Kit breakdown and ID, Kitchen Tour, Fire Drill, Sustainability and Waste Management Tour

- Competency-Based Applied Learning
   Population of Emergency Contact List, kitchen equipment overview and safe use
- Reading / Homework Assignment Professional Baking, Gisslen Chapter 3, Baking and Pastry Equipment ServSafe Chapters 1 and 2 History of Baking Assignment

Recipes	
Product/spice identification	
Variety of spices, flours, sugars, and fats commonly used in bakeshop	
Variety of fruits for knife skills	
Reading / Homework Assignment	
ServSafe Chapters 5 and 6, How Baking Works: Chapter 2	
Assessment	
Uniform Standards / Line-Up,	
Knife skills	
Day 4: ServSafe / Product ID / Measurements / Scaling	
Lecture	
ServSafe, Chapter 5: The Flow of Food; An Introduction, Chapter 6: The F	low of
Food; Receiving and Purchasing	
Glossary review B	
Product identification continued	
Scaling/measuring ingredients	
Learning Objectives	
Obtain a ServSafe certificate	
Demonstrate safety and sanitation in the kitchen	
	rachan ta
Identify, evaluate, and use a variety of products commonly used in the bak includes.	leshop to
include:	
spices, herbs, fruits, fats, sugars, and other bakeshop staples	
Describe the effects of heat on food, and the methods of heat transfer	
Examine and outline the major developments in the history of the baking in	ndustry
• Demo	
Scaling ingredients	
Competency-Based Learning Activity	
Product/ingredient identification continued	
Student presentations on the history of baking	
Recipes	
Product and spice identification	
Scaling-flour, sugar, liquid	
Reading / Homework Assignment	
S <u>ervSafe,</u> Chapters 7 and 8	
Assessment	
Uniform Standards / Line-Up,	
Product identification,	
Student presentations on the History of Baking	
Day 5 – ServeSafe / Recipe Standardization	
Lecture	
	مار
□ S <u>ervSafe</u> , Chapter 7 the Flow of Food; Storage, Chapter 8 The Flow of Fo	ood;
Preparation	
Glossary review C	
The Recipe	
□ The Standard Recipe	

□ Product Identification Cont.

- Learning Objectives
   Describe and apply the principles of food safety and sanitation practices
  - □ Identify and select ingredients for use in a variety of baked products
  - Apply standards of professionalism to the baking industry
  - Examine and outline the major developments in the history of the baking industry
  - Describe and apply the function of ingredients in the baking process

□ Explain the use of formula and the standardized recipe as it relates to the baking process

## • Demo

Writing a standard recipe

- Competency-Based Learning Activity
   Writing a standard recipe
   Product identification
- Recipes
   Product identification
- Reading / Homework Assignment ServSafe Chapter 9, How baking works-chapter 16
- Assessment
   Uniform Standards / Line-Up
   Product identification exam

### Day 6: ServeSafe / Knife Skills

- Lecture
  - □ <u>ServSafe</u>, Chapter 9: The Flow of Food; Service
  - Glossary review D and E
  - □ Fruit identification and selection
  - □ Fruit desserts-seasonality
  - □ Fruit desserts-review EP/AP yields
  - L Knife skills-brunoise, dice-small/medium/large, julienne, battonet,

Video

www.youtube.com/watch?v=gB4MNu6W9sg - Fruit Salad

#### Learning Objectives

- Describe and apply the principles of food safety and sanitation practices
- □ Identify and select ingredients for use in a variety of baked products
- Apply standards of professionalism to the baking industry
- Describe and apply the function of ingredients in the baking process
- Demonstrate proper knife skills as they relate to pastry
- Understand and apply the basic baking science principles, ratio and technique dice-small/medium
- Demo

Knife skills-brunoise, /large, julienne, battonet

Competency-Based Learning Activity
 Fruit identification

Knife skills-bruinoise, dice-small/medium/large, julienne, battonet

Recipes

A variety of fruits for identification Fruit for knife skills

- Reading / Homework Assignment
   ServSafe chapter 10
- Assessment
   Uniform Standards / Line-Up,
   Fruit identification
   Knife skills-small medium and large dice, julienne

#### Day 7: SevSafe / Fruit and Fruit Desserts

### • Lecture

- ServSafe, Chapter 10: Food Safety Management Systems
- Glossary review F and G
- □ Knife skills continued-citrus supreme, slicing
- □ Fruits-the ripening process and storage
- □ Fruit desserts
- Dried
- Candied zest

### • Learning Objectives

- □ Obtain a ServSafe certificate
- Demonstrate safety and sanitation in the kitchen
- Demonstrate effective knife skills as they apply to baking and pastry
- □ Prepare a variety of fruit based desserts
- Understand and apply the basic baking science principles, ratio and technique
- Demo
  - Knife skills, Candied zest

#### Competency-Based Learning Activity

Knife skills-brunoise, dice-small, medium, large, julienne, battonet, citrus supreme Dried/dehydrated fruit

Recipes

<u>Professional Baking:</u> Apple Crisps, Page 601 **Reading / Homework Assignment** ServSafe Chapter 11

 Assessment Uniform Standards / Line-Up, Knife skills-brunoise, julienne, battonet, supreme Dried fruits Candied Zest

#### Day 8: ServSafe / Fruit Desserts – Cooking and Poaching

Lecture
 <u>ServSafe</u>, Chapter 11: Sanitary Facilities and Equipment

- Glossary review H, I and J
- Review knife skills
- □ Fruit desserts
- Cooking Methods
- Poaching
- Minimizing waste in fruit desserts
- Learning Objectives
   Obtain a ServSafe certificate
  - Demonstrate safety and sanitation in the kitchen
  - Demonstrate effective knife skills as they apply to baking and pastry
  - Prepare a variety of fruit based desserts
  - Understand and apply the basic baking science principles, ratio and technique
- Demo
  - Fruit Compote
- Competency-Based Learning Activity
   Practicing knife skills
   Fruit desserts-poaching and compote

# Recipes <u>Professional Baking</u>

Pears Poached in Wine, page 586

- Reading / Homework Assignment ServSafe Chapter 12 <u>How Baking Works</u>, Chapter 2 – Heat Transfer
- Assessment Uniform Standards / Line-Up, Fruit desserts-poaching and compote

# Day 9: ServSafe / Fruit Desserts

 Lecture ServSafe, Chapter 12: Cleaning and Sanitizing Glossary review K and M □ Fruit Desserts Cooking methods - roasting, flambé Learning Objectives □ Obtain a ServSafe certificate Demonstrate safety and sanitation in the kitchen Demonstrate effective knife skills as they apply to baking and pastry □ Prepare a variety of fruit based desserts Understand and apply the basic baking science principles, ratio and technique • Demo Flambe Competency-Based Learning Activity Serve-safe, Cooking methods-roasting, flambé Baked Apple

•	Recipes
	Black Board
-	Baked Apple – with modifications – flambé only
•	Reading / Homework Assignment ServSafe - Chapter 13
	How Baking Works – Chapter 8, Sugar and Other Sweeteners
•	Assessment
•	Uniform Standards / Line-Up,
	Cooking methods-roasting and flambé
Jay 1	0: ServSafe / Sugar and Other Sweeteners
٠	Lecture
	ServSafe, Chapter 13: Integrated Pest Management
	Glossary review N and O,
	Ingredient functions-sugar
	Sugar stages Maillard reaction
	□ Jams, jellies, marmalades
	Canning
•	Learning Objectives
-	Obtain a ServSafe certificate
	Demonstrate safety and sanitation in the kitchen
	Prepare a variety of fruit based desserts
	Understand and apply the basic baking science principles, ratio and technique
	Demonstrate proper canning technique
٠	Demo
	Marmalade/Canning
•	Competency-Based Learning Activity
2	Sugar and its functions in jams, jellies, and marmalades
	Sugar stages
	Strawberry marmalade
٠	Recipes
	Professional Baking
	Strawberry Marmalade, page 598 - refrigerate
	Sugar for stages
•	Reading / Homework Assignment
	How Baking Works, Chapter 16, Fruit and Fruit Products
٠	Assessment
	Uniform Standards / Line-Up,
	Ingredient function-sugar
	Jams, jellies, marmalades
	1: ServSafe / Fruit and Fruit Products

• Lecture

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<ul> <li><u>ServSafe</u>, Review and practice for ServSafe exam, Glossary review P and Q</li> <li>Ingredient functions-flour and grains (brief overview – It will be discussed extensively</li> </ul>	
in Foundations II)	
Fruit desserts- water-bath canning	
Sugar stages	
Learning Objectives	
Obtain a ServSafe certificate	
Demonstrate safety and sanitation in the kitchen	
Prepare a variety of fruit based desserts	
Understand and apply the basic baking science principles, ratio and technique	
Demonstrate proper canning technique	
• Demo	
Jelly	
Competency-Based Learning Activity	
Sugar Stages	
Sour Cherry Preserves $-\frac{1}{2}$ the class, Three Citrus Marmalade $-\frac{1}{2}$ the class $-$ make	
day 11/ can day 12	
Reading / Homework Assignment	
Review Serv-Safe	
• Assessment	
Uniform Standards / Line-Up,	
Jelly/canning	
Sugar stages	
Jams/Waterbath - Canning	
Recipes	
BlackBoard:	
Sour Cherry Preserves, Three Citrus Marmalade	
•	_
Day 12: Mid-Term Exam ServSafe	
Learning Objectives	
Obtain a ServSafe certificate	
Demonstrate safety and sanitation in the kitchen	
Reading / Homework Assignment	
How Baking Works, Chapter 10- Eggs and Egg Products	
Assessment	
Uniform Standards / Line-Up,	
<ul> <li>Mid-Term Assessment / ServSafe exam</li> </ul>	
Day 13:Eggs and Egg Products	
Day 15. Lygs and Lyg i roddels	
Lecture	
<ul> <li>Ingredient properties-eggs</li> </ul>	
Meringue-French, Italian, Swiss	
Piping/baking	
	1
a Loarning Objectives	
<ul> <li>Learning Objectives</li> <li>Describe and apply the principles of food safety and sanitation practices</li> </ul>	

<ul> <li>Identify and select ingredients for use in a variety of baked products</li> <li>Apply standards of professionalism to the baking industry</li> </ul>
Describe and apply the function of ingredients in the baking process
Understand and apply the basic baking science principles, ratio and technique
Prepare a variety of meringues
• Demo
Meringue
Competency-Based Learning Activity
Meringue-French, Italian, Swiss
Piping and baking meringue
Recipes
Professional Baking:
French Meringue, Italian Meringue, Swiss Meringue, pages 263 and 264
Reading / Homework Assignment
How Baking Works, Chapter 11 – Leavening Agents
Assessment
Uniform Standards / Line-Up, Meringues
menngues
ay 14: Leavening Agents / Altitude
Lecture
Ingredient functions-leavening
Mixing-creaming, Cookies
Altitude Adjustments
Learning Objectives
Describe and apply the principles of food safety and sanitation practices
Identify and select ingredients for use in a variety of baked products
Describe and apply the function of ingredients in the baking process
Prepare a variety of baked products using creaming, sponge, muffin and basic
custards
methods
Demo     Cookies-creaming method
Competency-Based Learning Activity
Cookies
Creaming method
Recipes
Professional Baking:
Chocolate Chip cookies-page 493
Oatmeal raisin cookies-page 493
Reading / Homework Assignment
How Baking Works, Chapter 9 Fats, Oils, and Emulsifiers
Assessment
Uniform Standards / Line-Up,
Cookies-creaming method

#### Day 15: Fats and Oils / Cookies

## Lecture Ingredient functions-fats and oils Cookies-tuile method Cookies-rolling Learning Objectives Describe and apply the principles of food safety and sanitation practices □ Identify and select ingredients for use in a variety of baked products Describe and apply the function of ingredients in the baking process □ Prepare a variety of baked products using creaming, sponge, muffin and basic custards methods Demo Cookies-tuile Competency-Based Learning Activity Tuiles -shaping and baking Sugar Cookies - rolled • Recipes: Professional Baking: Rolled sugar cookies, page 495 BlackBoard: Honey Tuile recipe Reading / Homework Assignment How Baking Works, Chapter 12 – Thickening and Gelling Agents Assessment Uniform Standards / Line-Up, Tuile - shaping and baking Sugar Cookies - rolled **Day 16: Thickening and Gelling Agents** Lecture □ Ingredient functions-thickening and gelling agents □ Pastry cream, stabilized whipped cream □ Tempering yolks Learning Objectives Describe and apply the function of ingredients in the baking process □ Prepare pastry foundations including pastry cream, pate a choux, crème anglaise • Demo Pastry cream Competency-Based Learning Activity Pastry cream Stabilized whipped cream Recipes

<ul> <li><u>Professional Baking</u></li> <li>Pastry cream, page 267</li> <li><u>How Baking Works</u></li> <li>Stabilized Whipped Cream, page 345 - 348</li> <li><b>Reading / Homework Assignment</b></li> <li><u>How Baking Works</u>, Chapter 13 – Milk and Milk Products</li> <li><b>Assessment</b></li> <li>Uniform Standards / Line-Up,</li> <li>Pastry cream</li> <li>Stabilized Whipped Cream</li> </ul>				
Day 17: Dairy and Dairy Products				
<ul> <li>Lecture         <ul> <li>Ingredient functions-dairy</li> <li>Pate a choux</li> <li>Cream puffs and éclairs</li> <li>Créme anglaise</li> </ul> </li> <li>Learning Objectives         <ul> <li>Identify and select ingredients for use in a variety of baked products</li> <li>Describe and apply the function of ingredients in the baking process</li> <li>Prepare pastry foundations including pastry cream, pate a choux, crème anglaise</li> </ul> </li> <li>Demo         <ul> <li>Pate a choux</li> <li>Créme anglaise</li> </ul> </li> <li>Competency-Based Learning Activity         <ul> <li>Pate a choux</li> <li>Cream puffs,</li> <li>Éclairs</li> <li>Crème Anglaise</li> </ul> </li> <li>Recipes         <ul> <li>Professional Baking:</li> <li>Pate a Choux, page 334 (using the optional milk)</li> <li>Cream Puffs page 337</li> <li>Crème Anglaise, page 265</li> </ul> </li> <li>Reading / Homework Assignment         <ul> <li>How Baking Works, Chapter 15 Cocoa and Chocolate Products</li> <li>Assessment             <ul> <li>Uniform Standards / Line-Up,</li> <li>Pate a choux</li> <li>Crème anglaise</li> </ul> </li> </ul></li></ul>				
Day 18: Chocolate and Cocoa Products				
<ul> <li>Lecture         <ul> <li>Ingredient Functions-Chocolate</li> </ul> </li> </ul>				

Buttercream
Learning Objectives
Identify and select ingredients for use in a variety of baked products
Apply standards of professionalism to the baking industry
Describe and apply the function of ingredients in the baking process
Understand and apply the basic baking science principles, ratio and technique
• Demo
Chocolate Buttercream
Competency-Based Learning Activity
Chocolate Buttercream
Piping
Recipes
Professional Baking
Swiss or Italian Buttercream, Chocolate Variation, page 424
Reading / Homework Assignment
Professional Baking - Gisslen, chapter 1
<ul> <li>Assessment</li> </ul>
Uniform Standards / Line-Up,
Chocolate Handling
Buttercream
Day 19: Practical exam – 1 <sup>st</sup> half of class
Lecture
Review for final
Learning Objectives
Competency-Based Learning Activity
Practical exam:
Pate a Choux, Italian Meringue, Sugar Cookie
Reading / Homework Assignment
Review material
Assessment
Uniform Standards / Line-Up,
·
Practical exam
Day 20: Practical exam- 2 <sup>nd</sup> half of class
Lecture
Review for final exam
Assessment
Uniform Standards / Line-Up,
Practical exam:
Pate a Choux, Italian Meringue, Sugar Cookie
Day 21: Final Exam - Written
Assessment
Uniform Standards / Line-Up,

Written final exam

Day 22: TBD