2008 Mississippi Curriculum Framework

Postsecondary Food Production and Management Technology
(Program CIP: 12.0508 – Institutional Food Workers)

Direct inquiries to

Debra West, Ph.D.
Director for Career and Technical Education
State Board for Community and Junior Colleges
3825 Ridgewood Road
Jackson, MS 39211
(601) 432-6518
dwest@sbcjc.cc.ms.us

Betsey Smith
Instructional Design Specialist
Research and Curriculum Unit
P.O. Drawer DX
Mississippi State, MS 39762
(662) 325-2510
betsey.smith@rcu.msstate.edu

Additional copies

Research and Curriculum Unit for Workforce Development
Vocational and Technical Education
Attention: Reference Room and Media Center Coordinator
P.O. Drawer DX
Mississippi State, MS 39762
http://info.rcu.msstate.edu/services/curriculum.asp
(662) 325-2510

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Acknowledgments

Writing Team
Matthew Carver, Mississippi Gulf Coast Community College, Long Beach, MS
Jody Hoff, Copiah-Lincoln Community College, Wesson, MS
Lisa Little, Jones County Junior College, Ellisville, MS
Carolyn Samuel, Hinds Community College, Utica, MS

RCU Staff
Betsey Smith, Instructional Design Specialist

Professional Curriculum Advisory Team
Greg Davis, Ameristar Casino, Vicksburg, MS
Jeffrey Magee, Forrest General Hospital, Hattiesburg, MS
Beverly Ferrell, Food Service Director, Mississippi School of the Arts, Brookhaven, MS
Miriam Moyer, Retired Secondary Teacher, Brookhaven, MS
Michael and Stella Eastham, Restaurant Chefs/Owners, Bay St. Louis, MS
Jostlin Necaise, Executive Chef at Hollywood, Bay St. Louis, MS

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Related Academic Standards

21st Century Skills
Reproduced with permission of the Partnership for 21st Century Skills. Further information may be found at www.21stcenturyskills.org.
Preface

Food Production and Management Technology Research Synopsis

Articles, books, Web sites, and other materials listed at the end of each course were considered during the revision process. The Journal of Family and Consumer Sciences, Chef Educator Today, and the Mississippi Restaurant Association, the Mississippi Department of Health, and the National Restaurant Association Educational Foundation Web sites were especially useful in providing insight into trends and issues in the field. These references are suggested for use by instructors and students during the study of the topics outlined.

Industry advisory team members from colleges throughout the state were asked to give input related to changes to be made to the curriculum framework. Specific comments related to soft skills needed in this program included being punctual, having a good attitude and work ethic, and being eager to learn. Occupational-specific skills stated included basic computer and written skills. Safety practices emphasized included using common sense and following safety procedures emphasized by industry standards.

Instructors from colleges throughout the state were also asked to give input on changes to be made to the curriculum framework. Changes suggested for the curriculum included more clinical classes for the students since hands-on training added to the textbook information will better prepare students for future jobs and responsibilities.

Curriculum

The following national standards were referenced in each course of the curriculum:

- CTB/McGraw-Hill LLC Tests of Adult Basic Education, Forms 7 and 8 Academic Standards
- 21st Century Skills
- National Restaurant Association Educational Foundation – ServSafe® and ManageFirst

Industry and instructor comments, along with current research, were considered by the curriculum revision team during the revision process; and changes were made as needed and appropriate. Many of the skills and topics noted in the research were already included in the curriculum framework. Specific changes made to the curriculum at the September 4, 2007, curriculum revision meeting included:

- Competencies and objectives were reviewed to ensure accuracy and appropriateness.
- Specific additions or deletions occurred for the following:
  - Culinary Arts I (FPV 1315) now has a corequisite of Food Service Sanitation (FPV 1213) and the addition of competency 6 with two objectives.
  - Culinary Arts II (FPV 1326) now has prerequisites Culinary Arts I (FPV 1315) and Food Service Sanitation (FPV 1213) or by permission of instructor.
  - Purchasing and Storage (FPV 2223) now has a corequisite of Management Procedures and Recordkeeping (FPV 1123).
  - Catering Management (FPV 2515) now has a corequisite of Culinary Arts II (FPV 1326). Competency 1 was deleted and combined into competency 2. Competencies 3, 4, 5, and 7 were deleted, and competency 6 was changed. This course now has 5 competencies. Competencies 2 and 3 are used for review of materials only.
- Menu Planning and Cost Control (FPV 2613) now has a corequisite of Management Procedures and Recordkeeping (FPV 1123) or by permission of the instructor. Objective e was added to competency 1, and the description has a minor change.
- Food Service Management (FPV 2813) now has prerequisites of Fundamentals of Operational Procedures in Food Service (FPV 1113), Management Procedures and Recordkeeping (FPV 1123), Food Service Sanitation (FPV 1213), Culinary Arts I (FPV 1315), Culinary Arts II (FPV 1326), Front of the House (FPV 1413), Purchasing and Storage (FPV 2223), Bakery Production and Management (FPV 2336), Catering Management (FPV 2515), Menu Planning and Cost Control (FPV 2613), and Nutrition (FPV 2713).

- The Recommended Tools and Equipment list was updated. An induction heating unit and six stand mixers were added to the non-capitalized items, and a DVD, a camcorder for demonstrations, and a digital camera were added to the Recommended Instructional Aids.

**Assessment**

Students will be assessed using the *Food Production and Management Technology* CPAS test.

**Professional Learning**

It is suggested that instructors participate in professional learning related to the following concepts:

- Review of Web sites and other materials related to cake decorating, ice carving, and pulling sugar
- How to use the program Blackboard® site
- Differentiated instruction – To learn more about differentiated instruction, please go to [http://www.paec.org/teacher2teacher/additional_subjects.html](http://www.paec.org/teacher2teacher/additional_subjects.html) and click on Differentiated Instruction. Work through this online course, and review the additional resources.

**Articulation**

Articulation credit from Secondary Culinary and Related Foods Technology to Postsecondary Food Production and Management Technology will be awarded upon implementation of this curriculum by the college. Courses to be articulated include Food Service Sanitation (FPV 1213), with the stipulation of passing the CPAS and ServSafe® certification, and Fundamentals of Operational Procedures in Food Service (FPV 1113), with the stipulation of passing CPAS.

**Statewide Guidelines on Articulated Credit**

**Eligibility**

- To be eligible for articulated credit, a student must:
  - complete the articulated Secondary Vocational Program; and
  - score 80 percent or higher on the Mississippi Career Planning and Assessment System (MS CPAS) in his or her secondary program of study.

- To be awarded articulated credit, a student must:
  - complete application for articulated credit at the community or junior college;
  - enroll in the community or junior college within 18 months of graduation; and
o successfully complete 12 non-developmental career/technical or academic credit hours in the corresponding articulated postsecondary career-technical program of study.

How MS CPAS will be documented

- The Research and Curriculum Unit of Mississippi State University will provide the SBCJC a list of all secondary CTE students scoring 80 percent or higher for the articulated programs.
- The SBCJC will forward the list of students eligible for articulated credit to the colleges.

Transcripting of Articulated Credit

- Students must complete 12 non-developmental career-technical or academic credit hours in the articulated postsecondary career-technical program of study before the articulated credit is transcripted.
- No grade will be given on the transcript for articulated courses; only hours granted will be transcripted (thus resulting in no change in quality points)

Time Limit

- MS CPAS scores will be accepted to demonstrate competencies for up to 18 months after high school graduation.

Cost

- No costs will be assessed on hours earned through articulated credit.
Foreword

As the world economy continues to evolve, businesses and industries must adopt new practices and processes in order to survive. Quality and cost control, work teams and participatory management, and an infusion of technology are transforming the way people work and do business. Employees are now expected to read, write, and communicate effectively; think creatively, solve problems, and make decisions; and interact with each other and the technologies in the workplace. Vocational-technical programs must also adopt these practices in order to provide graduates who can enter and advance in the changing work world.

The curriculum framework in this document reflects these changes in the workplace and a number of other factors that impact on local vocational-technical programs. Federal and state legislation calls for articulation between high school and community college programs, integration of academic and vocational skills, and the development of sequential courses of study that provide students with the optimum educational path for achieving successful employment. National skills standards, developed by industry groups and sponsored by the U.S. Department of Education and Labor, provide vocational educators with the expectations of employers across the United States. All of these factors are reflected in the framework found in this document.

Referenced throughout the courses of the curriculum are the 21st Century Skills, which were developed by the Partnership for 21st Century Skills, a group of business and education organizations concerned about the gap between the knowledge and skills learned in school and those needed in communities and the workplace. A portion of the 21st Century Skills addresses learning skills needed in the 21st century, including information and communication skills, thinking and problem-solving skills, and interpersonal and self-directional skills. The need for these types of skills have been recognized for some time and the 21st Century Skills are adapted in part from the 1991 report from the U.S. Secretary of Labor’s Commission on Achieving Necessary Skills (SCANS). Another important aspect of learning and working in the 21st century involves technology skills, and the International Society for Technology in Education, developers of the National Education Technology Standards (NETS), were strategic partners in the Partnership for 21st Century Skills.

Each postsecondary program of instruction consists of a program description and a suggested sequence of courses which focus on the development of occupational competencies. Each vocational-technical course in this sequence has been written using a common format which includes the following components:

- **Course Name** – A common name that will be used by all community/junior colleges in reporting students.

- **Course Abbreviation** – A common abbreviation that will be used by all community/junior colleges in reporting students.

- **Classification** – Courses may be classified as:
  - Vocational-technical core – A required vocational-technical course for all students.
Area of concentration (AOC) core – A course required in an area of concentration of a cluster of programs.
- Vocational-technical elective – An elective vocational-technical course.
- Related academic course – An academic course which provides academic skills and knowledge directly related to the program area.
- Academic core – An academic course which is required as part of the requirements for an Associate degree.

- Description – A short narrative which includes the major purpose(s) of the course and the recommended number of hours of lecture and laboratory activities to be conducted each week during a regular semester.

- Prerequisites – A listing of any courses that must be taken prior to or on enrollment in the course.

- Corequisites – A listing of courses that may be taken while enrolled in the course.

- Competencies and Suggested Objectives – A listing of the competencies (major concepts and performances) and of the suggested student objectives that will enable students to demonstrate mastery of these competencies.

The following guidelines were used in developing the program(s) in this document and should be considered in compiling and revising course syllabi and daily lesson plans at the local level:

- The content of the courses in this document reflects approximately 75 percent of the time allocated to each course. The remaining 25 percent of each course should be developed at the local district level and may reflect:
  - Additional competencies and objectives within the course related to topics not found in the State framework, including activities related to specific needs of industries in the community college district.
  - Activities which develop a higher level of mastery on the existing competencies and suggested objectives.
  - Activities and instruction related to new technologies and concepts that were not prevalent at the time the current framework was developed/revised.
  - Activities which implement components of the Mississippi Tech Prep initiative, including integration of academic and vocational-technical skills and coursework, school-to-work transition activities, and articulation of secondary and postsecondary vocational-technical programs.
  - Individualized learning activities, including worksite learning activities, to better prepare individuals in the courses for their chosen occupational area.

- Sequencing of the course within a program is left to the discretion of the local district. Naturally, foundation courses related to topics such as safety, tool and equipment usage, and other fundamental skills should be taught first. Other courses related to specific skill areas and related academics, however, may be sequenced to take advantage of seasonal and climatic conditions, resources located outside of the school, and other factors.
Programs that offer an Associate of Applied Science degree must include a minimum 15 semester credit hour academic core. Specific courses to be taken within this core are to be determined by the local district. Minimum academic core courses are as follows:

- 3 semester credit hours Math/Science Elective
- 3 semester credit hours Written Communications Elective
- 3 semester credit hours Oral Communications Elective
- 3 semester credit hours Humanities/Fine Arts Elective
- 3 semester credit hours Social/Behavioral Science Elective

It is recommended that courses in the academic core be spaced out over the entire length of the program, so that students complete some academic and vocational-technical courses each semester. Each community/junior college has the discretion to select the actual courses that are required to meet this academic core requirement.

Technical elective courses have been included to allow community colleges and students to customize programs to meet the needs of industries and employers in their area.

In order to provide flexibility within the districts, individual courses within a framework may be customized by:

- Adding new competencies and suggested objectives.
- Revising or extending the suggested objectives for individual competencies.
- Adjusting the semester credit hours of a course to be up 1 hour or down 1 hour (after informing the State Board for Community and Junior Colleges [SBCJC] of the change).

In addition, the curriculum framework as a whole may be customized by:

- Resequesting courses within the suggested course sequence.
- Developing and adding a new course which meets specific needs of industries and other clients in the community or junior college district (with SBCJC approval).
- Utilizing the technical elective options in many of the curricula to customize programs.
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Program Description

The Food Production and Management Technology curriculum provides a Vocational Certificate and an Associate of Applied Science degree. Students may receive a certificate after completing 34 semester hours of vocational-technical courses. The program for an Associate of Applied Science degree is available for students completing 70 semester hours, which include 15 semester hours of academic credit. The program offers study in areas of food production, management, and service for restaurant operations, quantity food operations, and catering businesses. Emphasis is placed on technical skills in preparing students for entry-level job opportunities in production and management in both commercial and institutional food service settings.

Industry standards referenced are from the National Restaurant Association Educational Foundations ServSafe© and ManageFirst programs.
Suggested Course Sequence*
Food Production and Management Technology

Associate of Applied Science Degree

FIRST YEAR

<table>
<thead>
<tr>
<th>Sch</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Fundamentals of Operational Procedures in Food Service (FPV 1113)</td>
</tr>
<tr>
<td>3</td>
<td>Food Service Sanitation (FPV 1213)</td>
</tr>
<tr>
<td>5</td>
<td>Culinary Arts I (FPV 1315)</td>
</tr>
<tr>
<td>3</td>
<td>Front of the House (FPV 1413)</td>
</tr>
<tr>
<td>3</td>
<td>Oral Communications Elective**</td>
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<tr>
<td></td>
<td><strong>oral communications elective</strong></td>
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<td></td>
<td><strong>oral communications elective</strong></td>
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<thead>
<tr>
<th>Sch</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Management Procedures and Recordkeeping (FPV 1123)</td>
</tr>
<tr>
<td>6</td>
<td>Culinary Arts II (FPV 1326)</td>
</tr>
<tr>
<td>3</td>
<td>Supervised Work Experience in Food Production and Management I (FPV 291)</td>
</tr>
<tr>
<td></td>
<td>or Work-Based Learning I, II, III, IV, V, VI [WBL 191, WBL 192, WBL 193,</td>
</tr>
<tr>
<td></td>
<td>WBL 291, WBL 292]</td>
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<tr>
<td>3</td>
<td>Elective**</td>
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<tr>
<td>3</td>
<td>Written Communications Elective</td>
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SECOND YEAR

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<tr>
<th>Sch</th>
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<tbody>
<tr>
<td>3</td>
<td>Purchasing and Storage (FPV 2223)</td>
</tr>
<tr>
<td>5</td>
<td>Catering Management (FPV 2515)</td>
</tr>
<tr>
<td>3</td>
<td>Menu Planning and Cost Control (FPV 2613)</td>
</tr>
<tr>
<td>3</td>
<td>Nutrition (FPV 2713)</td>
</tr>
<tr>
<td>3</td>
<td>Math/Science Elective</td>
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<td>17</td>
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</table>

<table>
<thead>
<tr>
<th>Sch</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>6</td>
<td>Bakery Production and Management (FPV 2336)</td>
</tr>
<tr>
<td>3</td>
<td>Food Service Management (FPV 2813)</td>
</tr>
<tr>
<td>3</td>
<td>Supervised Work Experience in Food Production and Management II (FPV 292)</td>
</tr>
<tr>
<td></td>
<td>or Work-Based Learning I, II, III, IV, V, VI [WBL 191, WBL 192, WBL 193,</td>
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<tr>
<td></td>
<td>WBL 291, WBL 292]</td>
</tr>
<tr>
<td>3</td>
<td>Humanities/Fine Arts Elective</td>
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<tr>
<td>3</td>
<td>Social/Behavioral Science Elective</td>
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<td>18</td>
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</tbody>
</table>

* Students who lack entry level skills in math, English, science, etc. will be provided related studies.
APPROVED ELECTIVES***

Fundamentals of Microcomputer Applications (CPT 1113)
Science and Technology (ATE 1113)
Any business or related vocational or academic elective by permission of instructor
### Suggested Course Sequence*

**Food Production and Management Technology**

**Certificate Option**

#### FIRST YEAR

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fundamentals of Operational Procedures in Food Service (FPV 1113)</td>
<td>3</td>
<td>Management Procedures and Recordkeeping (FPV 1123)</td>
<td>3</td>
</tr>
<tr>
<td>Food Service Sanitation (FPV 1213)</td>
<td>3</td>
<td>Culinary Arts II (FPV 1326)</td>
<td>6</td>
</tr>
<tr>
<td>Culinary Arts I (FPV 1315)</td>
<td>5</td>
<td>Nutrition (FPV 2713)</td>
<td>3</td>
</tr>
<tr>
<td>Front of the House (FPV 1413)</td>
<td>3</td>
<td>Purchasing and Storage (FPV 2223)</td>
<td>3-6</td>
</tr>
<tr>
<td>Menu Planning and Cost Control</td>
<td>3-6</td>
<td>Elective**</td>
<td>18-21</td>
</tr>
</tbody>
</table>

**17 sch**

* Students who lack entry level skills in math, English, science, etc. will be provided related studies.

**APPROVED ELECTIVES**

- Food Service Management (FPV 2813)
- Bakery Production and Management (FPV 2336)
- Catering Management (FPV 2515)
- Supervised Work Experience in Food Production and Management Technology I [FPV 291(1-3)]
- Supervised Work Experience in Food Production and Management Technology II [FPV 292(1-3)]
- Science and Technology (ATE 1113)
- Work-Based Learning I, II, III, IV, V, VI [WBL 191(1-3), WBL 192(1-3), WBL 193(1-3), WBL 291(1-3), WBL 292(1-3), WBL 293(1-3)]
Food Production and Management Technology Courses

Course Name: Fundamentals of Operational Procedures in Food Service

Course Abbreviation: FPV 1113

Classification: Vocational-Technical Core

Description: Operational procedures for food service personnel with emphasis on using math skills for standard weights and measures, portion control, converting recipes, production formulas, and utilizing manual and computerized applications. (3 sch: 2 hr. lecture, 2 hr. lab)

Prerequisite: None

Competencies and Suggested Objectives

<table>
<thead>
<tr>
<th>1. Demonstrate skills using manual and ten-key touch pad mathematical operations.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Examine the basic parts and functions of the ten-key touch pad.</td>
<td></td>
</tr>
<tr>
<td>b. Review basic mathematical operations using manual and ten-key touch pad applications.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. Perform mathematical operations related to food preparation.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Perform calculations and conversions related to customary weights and measures.</td>
<td></td>
</tr>
<tr>
<td>b. Employ basic mathematical operations to calculate portion control and cost per serving.</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. Employ basic mathematical operations to convert standard recipes and compute recipe yield.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Determine conversion factor to compute specified recipe yield.</td>
<td></td>
</tr>
<tr>
<td>b. Calculate recipe yield in number of servings.</td>
<td></td>
</tr>
</tbody>
</table>

STANDARDS

ServSafe© Course Content

SS1 Providing Safe Food
SS4 The Safe Foodhandler
SS12 Food Safety Regulation and Standards

Related Academic Standards

R1 Interpret Graphic Information (forms, maps, reference sources)
R3 Recall Information (details, sequence)
R4 Construct Meaning (main idea, summary/paraphrase, compare/contrast, cause/effect)
R5 Evaluate/Extend Meaning (fact/opinion, predict outcomes, point of view)
M1 Addition of Whole Numbers (no regrouping, regrouping)
M2 Subtraction of Whole Numbers (no regrouping, regrouping)
M3 Multiplication of Whole Numbers (no regrouping, regrouping)
M4 Division of Whole Numbers (no remainder, remainder)
M5 Decimals (addition, subtraction, multiplication, division)
M6 Fractions (addition, subtraction, multiplication, division)
M7 Integers (addition, subtraction, multiplication, division)
M8 Percents
A1 Numeration (ordering, place value, scientific notation)
A2 Number Theory (ratio, proportion)
A3 Data Interpretation (graph, table, chart, diagram)
A4 Pre-Algebra and Algebra (equations, inequality)
A5 Measurement (money, time, temperature, length, area, volume)
A7 Computation in Context (whole numbers, decimals, fractions, algebraic operations)
A8 Estimation (rounding, estimation)
L1 Usage (pronoun, tense, subject/verb agreement, adjective, adverb)
L4 Capitalization (proper noun, titles)
L5 Punctuation (comma, semicolon)
L6 Writing Conventions (quotation marks, apostrophe, parts of a letter)

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21st Century Skills

CS1 Global Awareness
CS2 Financial, Economic, and Business Literacy
CS3 Civic Literacy
CS4 Information and Communication Skills
CS5 Thinking and Problem-Solving Skills
CS6 Interpersonal and Self-Directional Skills

SUGGESTED REFERENCES


Course Name: Management Procedures and Recordkeeping

Course Abbreviation: FPV 1123

Classification: Vocational-Technical Core

Description: A continuation of Fundamentals of Operational Procedures in Food Service. Essentials in food service recordkeeping and managerial math. (3 sch: 2 hr. lecture, 2 hr. lab)

Prerequisite: Fundamentals of Operational Procedures in Food Service (FPV 1113) or by permission of instructor

Competencies and Suggested Objectives

<table>
<thead>
<tr>
<th>1. Apply basic mathematical principles to prepare food service recordkeeping reports.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Generate daily production reports for various production areas.</td>
</tr>
<tr>
<td>b. Formulate reports related to purchasing and receiving.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. Apply basic mathematical principles to managerial procedures.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Calculate cost and price for menu items.</td>
</tr>
<tr>
<td>b. Generate daily reports for inventory, taxes, payroll, deposits, interest, and financial statements.</td>
</tr>
</tbody>
</table>

STANDARDS

ServSafe© Course Content

SS1 Providing Safe Food
SS4 The Safe Foodhandler
SS12 Food Safety Regulation and Standards

Related Academic Standards

R1 Interpret Graphic Information (forms, maps, reference sources)
R2 Words in Context (same and opposite meaning)
R3 Recall Information (details, sequence)
R5 Evaluate/Extend Meaning (fact/opinion, predict outcomes, point of view)
M1 Addition of Whole Numbers (no regrouping, regrouping)
M2 Subtraction of Whole Numbers (no regrouping, regrouping)
M3 Multiplication of Whole Numbers (no regrouping, regrouping)
M4 Division of Whole Numbers (no remainder, remainder)
M5 Decimals (addition, subtraction, multiplication, division)
M6 Fractions (addition, subtraction, multiplication, division)
M7 Integers (addition, subtraction, multiplication, division)
M8 Percents
A1 Numeration (ordering, place value, scientific notation)
A2 Number Theory (ratio, proportion)
A3 Data Interpretation (graph, table, chart, diagram)
A4 Pre-Algebra and Algebra (equations, inequality)
A5 Measurement (money, time, temperature, length, area, volume)
A7 Computation in Context (whole numbers, decimals, fractions, algebraic operations)
A8 Estimation (rounding, estimation)
L4 Capitalization (proper noun, titles)
L5 Punctuation (comma, semicolon)
L6 Writing Conventions (quotation marks, apostrophe, parts of a letter)

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21st Century Skills

CS1 Global Awareness
CS2 Financial, Economic, and Business Literacy
CS3 Civic Literacy
CS4 Information and Communication Skills
CS5 Thinking and Problem-Solving Skills
CS6 Interpersonal and Self-Directional Skills

SUGGESTED REFERENCES


Course Name: Food Service Sanitation

Course Abbreviation: FPV 1213

Classification: Vocational-Technical Core

Description: Instruction in the area of sanitation to aid in the prevention of food poisoning and foodborne diseases including the Hazard Analysis Critical Control Point (HACCP) system. (3 sch: 2 hr. lecture, 2 hr. lab)

Prerequisite: None

Competencies and Suggested Objectives

<table>
<thead>
<tr>
<th>1. Practice proper hygiene, food handling, food storage, and prevention of foodborne illnesses as identified in ServSafe©.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Practice personal hygiene that meets foodservice standards.</td>
</tr>
<tr>
<td>b. Demonstrate the principles of hazard analysis critical control points (HACCP).</td>
</tr>
<tr>
<td>c. Identify foodborne illnesses, the way they are spread, foods involved, and methods of prevention.</td>
</tr>
<tr>
<td>d. Utilize proper cleaning and sanitizing techniques.</td>
</tr>
<tr>
<td>2. Practice proper non-food storage, cleaning and sanitizing techniques, and pest control as identified in ServSafe©.</td>
</tr>
<tr>
<td>a. Explain proper storage techniques for chemicals and hazardous products used in foodservice.</td>
</tr>
<tr>
<td>b. Demonstrate methods of manually and mechanically cleaning and sanitizing.</td>
</tr>
<tr>
<td>c. Explain proper pest control techniques.</td>
</tr>
</tbody>
</table>

STANDARDS

ServSafe© Course Content

SS1 Providing Safe Food
SS2 The Microworld
SS3 Contamination, Food Allergens, and Foodborne Illness
SS4 The Safe Foodhandler
SS5 The Flow of Food: An Introduction
SS6 The Flow of Food: Purchasing and Receiving
SS7 The Flow of Food: Storage
SS8 The Flow of Food: Preparation
SS9 The Flow of Food: Service
SS10 Food Safety Systems
SS11 Sanitary Facilities and Pest Management
SS12 Food Safety Regulation and Standards
Related Academic Standards

R1 Interpret Graphic Information (forms, maps, reference sources)
R2 Words in Context (same and opposite meaning)
R3 Recall Information (details, sequence)
R4 Construct Meaning (main idea, summary/paraphrase, compare/contrast, cause/effect)
R5 Evaluate/Extend Meaning (fact/opinion, predict outcomes, point of view)
A2 Number Theory (ratio, proportion)
A3 Data Interpretation (graph, table, chart, diagram)
A5 Measurement (money, time, temperature, length, area, volume)
L1 Usage (pronoun, tense, subject/verb agreement, adjective, adverb)
L2 Sentence Formation (fragments, run-on, clarity)
L3 Paragraph Development (topic sentence, supporting sentence, sequence)
L4 Capitalization (proper noun, titles)
L5 Punctuation (comma, semicolon)
L6 Writing Conventions (quotation marks, apostrophe, parts of a letter)
S1 Vowel (short, long)
S2 Consonant (variant spelling, silent letter)
S3 Structural Unit (root, suffix)

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21st Century Skills

CS1 Global Awareness
CS2 Financial, Economic, and Business Literacy
CS3 Civic Literacy
CS4 Information and Communication Skills
CS5 Thinking and Problem-Solving Skills
CS6 Interpersonal and Self-Directional Skills

SUGGESTED REFERENCES


Postsecondary Food Production and Management Technology
Course Name: Culinary Arts I

Course Abbreviation: FPV 1315

Classification: Vocational-Technical Core

Description: Study of principles, techniques, and practices of food preparation and their effects on food products with emphasis on the performance of culinary techniques, use of equipment, and quality controls in preparing and serving meals. (5 sch: 2 hr. lecture, 6 hr. lab)

Corequisite: Foodservice Sanitation (FPV 1213)

### Competencies and Suggested Objectives

<table>
<thead>
<tr>
<th>1.</th>
<th>Identify the development of trends from classical to modern kitchens.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>a. Discuss the origins of classical cuisine, nouvelle cuisine, and other influences.</td>
</tr>
<tr>
<td></td>
<td>b. Describe the organization of kitchens from classical to modern.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.</th>
<th>Integrate the safe and efficient use of equipment with culinary practices.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>a. Identify food service equipment.</td>
</tr>
<tr>
<td></td>
<td>b. Discuss safety factors when operating food service equipment.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3.</th>
<th>Implement basic cooking principles.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>a. Explain the effects of heat on foods, heat transfer, and cooking times.</td>
</tr>
<tr>
<td></td>
<td>b. Discuss various cooking methods such as moist heat methods, dry heat methods, dry heat methods using fat, and microwave cooking.</td>
</tr>
<tr>
<td></td>
<td>c. Demonstrate the art of seasoning and flavoring.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4.</th>
<th>Demonstrate pre-preparation techniques.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>a. Practice mise en place.</td>
</tr>
<tr>
<td></td>
<td>b. Explain the techniques for preparing raw foods.</td>
</tr>
<tr>
<td></td>
<td>c. Utilize the techniques for blanching, parcooking, and marinating.</td>
</tr>
<tr>
<td></td>
<td>d. Demonstrate techniques for frying such as breading, dredging, or flouring.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5.</th>
<th>Implement standard cooking practices in culinary preparation techniques.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>a. Integrate the standard cooking practices in stocks, sauces, and soups.</td>
</tr>
<tr>
<td></td>
<td>b. Integrate the standard cooking practices in meat, poultry, fish, and shellfish.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6.</th>
<th>Introduce presentation and garnishing techniques.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>a. Introduce proper hot and cold plate presentations.</td>
</tr>
<tr>
<td></td>
<td>b. Introduce various garnishing techniques.</td>
</tr>
</tbody>
</table>

### STANDARDS

ServSafe© Course Content

- SS1 Providing Safe Food
- SS2 The Microworld
- SS3 Contamination, Food Allergens, and Foodborne Illness
- SS4 The Safe Foodhandler
- SS5 The Flow of Food: An Introduction
- SS6 The Flow of Food: Purchasing and Receiving
SS7  The Flow of Food: Storage  
SS8  The Flow of Food: Preparation  
SS9  The Flow of Food: Service  
SS10 Food Safety Systems  
SS11 Sanitary Facilities and Pest Management  
SS12 Food Safety Regulation and Standards

**Related Academic Standards**

<table>
<thead>
<tr>
<th>R1</th>
<th>Interpret Graphic Information (forms, maps, reference sources)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R2</td>
<td>Words in Context (same and opposite meaning)</td>
</tr>
<tr>
<td>R3</td>
<td>Recall Information (details, sequence)</td>
</tr>
<tr>
<td>R4</td>
<td>Construct Meaning (main idea, summary/paraphrase, compare/contrast, cause/effect)</td>
</tr>
<tr>
<td>R5</td>
<td>Evaluate/Extend Meaning (fact/opinion, predict outcomes, point of view)</td>
</tr>
<tr>
<td>M1</td>
<td>Addition of Whole Numbers (no regrouping, regrouping)</td>
</tr>
<tr>
<td>M2</td>
<td>Subtraction of Whole Numbers (no regrouping, regrouping)</td>
</tr>
<tr>
<td>M3</td>
<td>Multiplication of Whole Numbers (no regrouping, regrouping)</td>
</tr>
<tr>
<td>M4</td>
<td>Division of Whole Numbers (no remainder, remainder)</td>
</tr>
<tr>
<td>M5</td>
<td>Decimals (addition, subtraction, multiplication, division)</td>
</tr>
<tr>
<td>M6</td>
<td>Fractions (addition, subtraction, multiplication, division)</td>
</tr>
<tr>
<td>M7</td>
<td>Integers (addition, subtraction, multiplication, division)</td>
</tr>
<tr>
<td>M8</td>
<td>Percents</td>
</tr>
<tr>
<td>A1</td>
<td>Numeration (ordering, place value, scientific notation)</td>
</tr>
<tr>
<td>A2</td>
<td>Number Theory (ratio, proportion)</td>
</tr>
<tr>
<td>A3</td>
<td>Data Interpretation (graph, table, chart, diagram)</td>
</tr>
<tr>
<td>A4</td>
<td>Pre-Algebra and Algebra (equations, inequality)</td>
</tr>
<tr>
<td>A5</td>
<td>Measurement (money, time, temperature, length, area, volume)</td>
</tr>
<tr>
<td>A7</td>
<td>Computation in Context (whole numbers, decimals, fractions, algebraic operations)</td>
</tr>
<tr>
<td>A8</td>
<td>Estimation (rounding, estimation)</td>
</tr>
<tr>
<td>L1</td>
<td>Usage (pronoun, tense, subject/verb agreement, adjective, adverb)</td>
</tr>
<tr>
<td>L2</td>
<td>Sentence Formation (fragments, run-on, clarity)</td>
</tr>
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<td>Paragraph Development (topic sentence, supporting sentence, sequence)</td>
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<tr>
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</tr>
<tr>
<td>L5</td>
<td>Punctuation (comma, semicolon)</td>
</tr>
<tr>
<td>L6</td>
<td>Writing Conventions (quotation marks, apostrophe, parts of a letter)</td>
</tr>
<tr>
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</tr>
<tr>
<td>S2</td>
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</tr>
<tr>
<td>S3</td>
<td>Structural Unit (root, suffix)</td>
</tr>
</tbody>
</table>

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**21st Century Skills**

<table>
<thead>
<tr>
<th>CS1</th>
<th>Global Awareness</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS2</td>
<td>Financial, Economic, and Business Literacy</td>
</tr>
<tr>
<td>CS3</td>
<td>Civic Literacy</td>
</tr>
</tbody>
</table>

**Postsecondary Food Production and Management Technology**
CS4  Information and Communication Skills
CS5  Thinking and Problem-Solving Skills
CS6  Interpersonal and Self-Directional Skills

**SUGGESTED REFERENCES**


Course Name: Culinary Arts II

Course Abbreviation: FPV 1326

Classification: Vocational-Technical Core

Description: A continuation of the study of principles, techniques, and practices of food preparation and their effects on food products with emphasis on the performance of culinary techniques, use of equipment, and quality controls in preparing and serving meals. (6 sch: 2 hr. lecture, 8 hr. lab)

Prerequisite: Culinary Arts I (FPV 1315), Food Service Sanitation (FPV 1213), or by permission of instructor

Competencies and Suggested Objectives

<table>
<thead>
<tr>
<th>Competencies and Suggested Objectives</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Implement standard cooking practices in culinary preparation techniques.</td>
</tr>
<tr>
<td>a. Integrate the standard cooking practices in vegetables, potatoes, pastas, and grains.</td>
</tr>
<tr>
<td>b. Integrate the standard cooking practices in salads, salad dressing, sandwiches, hors d’oeuvres, breakfast items, breads, and desserts.</td>
</tr>
<tr>
<td>c. Integrate the specialized cooking practices of ethnic and international cuisines.</td>
</tr>
<tr>
<td>2. Determine and implement appropriate food presentation and garnish.</td>
</tr>
<tr>
<td>a. Create a hot food presentation using appearance, plating, and garnish.</td>
</tr>
<tr>
<td>b. Prepare a cold platter presentation.</td>
</tr>
<tr>
<td>c. Prepare a buffet using both hot and cold presentations.</td>
</tr>
</tbody>
</table>

STANDARDS

ServSafe© Course Content

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- SS2 The Microworld
- SS3 Contamination, Food Allergens, and Foodborne Illness
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- SS8 The Flow of Food: Preparation
- SS9 The Flow of Food: Service
- SS10 Food Safety Systems
- SS11 Sanitary Facilities and Pest Management
- SS12 Food Safety Regulation and Standards

Related Academic Standards

- R1 Interpret Graphic Information (forms, maps, reference sources)
R2  Words in Context (same and opposite meaning)
R3  Recall Information (details, sequence)
R4  Construct Meaning (main idea, summary/paraphrase, compare/contrast, cause/effect)
R5  Evaluate/Extend Meaning (fact/opinion, predict outcomes, point of view)
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M3  Multiplication of Whole Numbers (no regrouping, regrouping)
M4  Division of Whole Numbers (no remainder, remainder)
M5  Decimals (addition, subtraction, multiplication, division)
M6  Fractions (addition, subtraction, multiplication, division)
M7  Integers (addition, subtraction, multiplication, division)
M8  Percents
A1  Numeration (ordering, place value, scientific notation)
A2  Number Theory (ratio, proportion)
A3  Data Interpretation (graph, table, chart, diagram)
A4  Pre-Algebra and Algebra (equations, inequality)
A5  Measurement (money, time, temperature, length, area, volume)
A7  Computation in Context (whole numbers, decimals, fractions, algebraic operations)
A8  Estimation (rounding, estimation)
L1  Usage (pronoun, tense, subject/verb agreement, adjective, adverb)
L2  Sentence Formation (fragments, run-on, clarity)
L3  Paragraph Development (topic sentence, supporting sentence, sequence)
L4  Capitalization (proper noun, titles)
L5  Punctuation (comma, semicolon)
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21st Century Skills

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CS3  Civic Literacy
CS4  Information and Communication Skills
CS5  Thinking and Problem-Solving Skills
CS6  Interpersonal and Self-Directional Skills

SUGGESTED REFERENCES


Course Name: Front of the House

Course Abbreviation: FPV 1413

Classification: Vocational-Technical Core

Description: Management of the front of the house in order to fulfill the needs of the guest and the establishment. Emphasis is placed on the types and styles of dining service merchandising, customer service, and employee training techniques. (3 sch: 2 hr. lecture, 2 hr. lab)

Prerequisite: None

<table>
<thead>
<tr>
<th>Competencies and Suggested Objectives</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Execute the various types of preparation and setup for dining room guest service.</td>
</tr>
<tr>
<td>a. Develop dining room decor and attire for various themes.</td>
</tr>
<tr>
<td>b. Design a promotional food display, i.e., plate presentation, dessert cart, display case, or buffet table.</td>
</tr>
<tr>
<td>2. Demonstrate the proper procedures used to serve a dining room guest.</td>
</tr>
<tr>
<td>a. Perform proper setup and service procedures.</td>
</tr>
<tr>
<td>b. Demonstrate international styles of dining services.</td>
</tr>
<tr>
<td>3. Create merchandising techniques appropriate for various food service operations.</td>
</tr>
<tr>
<td>a. Perform proper setup and service procedures.</td>
</tr>
<tr>
<td>b. Demonstrate international styles of dining services.</td>
</tr>
<tr>
<td>4. Employ techniques necessary to fulfill the anticipated needs of the guests.</td>
</tr>
<tr>
<td>a. Define customer service.</td>
</tr>
<tr>
<td>b. Discuss the importance of customer service and how it directly affects an establishment’s success.</td>
</tr>
<tr>
<td>c. Critique customer service in a food service establishment.</td>
</tr>
<tr>
<td>d. Identify appropriate methods in resolving customer complaints.</td>
</tr>
<tr>
<td>5. Practice interpersonal skills required for success in the food service industry.</td>
</tr>
<tr>
<td>a. Demonstrate a positive attitude.</td>
</tr>
<tr>
<td>b. Practice teamwork.</td>
</tr>
<tr>
<td>c. Utilize effective verbal and non-verbal communication skills.</td>
</tr>
<tr>
<td>d. Discuss conflict resolution skills to real-life situations.</td>
</tr>
<tr>
<td>e. Discuss appropriate work ethics.</td>
</tr>
<tr>
<td>6. Conduct an inservice training session for at least one of the above front of the house competencies.</td>
</tr>
<tr>
<td>a. Discuss legal responsibilities involved in training staff.</td>
</tr>
<tr>
<td>b. Identify appropriate training techniques.</td>
</tr>
<tr>
<td>c. Present an inservice training session.</td>
</tr>
<tr>
<td>d. Complete proper documentation of the training provided.</td>
</tr>
</tbody>
</table>
STANDARDS

ServSafe© Course Content

SS1  Providing Safe Food
SS2  The Microworld
SS3  Contamination, Food Allergens, and Foodborne Illness
SS4  The Safe Foodhandler
SS5  The Flow of Food: An Introduction
SS8  The Flow of Food: Preparation
SS9  The Flow of Food: Service
SS10  Food Safety Systems
SS11  Sanitary Facilities and Pest Management
SS12  Food Safety Regulation and Standards

Related Academic Standards

R1  Interpret Graphic Information (forms, maps, reference sources)
R2  Words in Context (same and opposite meaning)
R3  Recall Information (details, sequence)
R4  Construct Meaning (main idea, summary/paraphrase, compare/contrast, cause/effect)
R5  Evaluate/Extend Meaning (fact/opinion, predict outcomes, point of view)
M1  Addition of Whole Numbers (no regrouping, regrouping)
M2  Subtraction of Whole Numbers (no regrouping, regrouping)
M3  Multiplication of Whole Numbers (no regrouping, regrouping)
M4  Division of Whole Numbers (no remainder, remainder)
M5  Decimals (addition, subtraction, multiplication, division)
M6  Fractions (addition, subtraction, multiplication, division)
M7  Integers (addition, subtraction, multiplication, division)
M8  Percents
A1  Numeration (ordering, place value, scientific notation)
A2  Number Theory (ratio, proportion)
A3  Data Interpretation (graph, table, chart, diagram)
A4  Pre-Algebra and Algebra (equations, inequality)
A5  Measurement (money, time, temperature, length, area, volume)
A6  Geometry (angles, Pythagorean theory)
A7  Computation in Context (whole numbers, decimals, fractions, algebraic operations)
A8  Estimation (rounding, estimation)
L1  Usage (pronoun, tense, subject/verb agreement, adjective, adverb)
L2  Sentence Formation (fragments, run-on, clarity)
L3  Paragraph Development (topic sentence, supporting sentence, sequence)
L4  Capitalization (proper noun, titles)
L5  Punctuation (comma, semicolon)
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21st Century Skills

CS1 Global Awareness
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CS3 Civic Literacy
CS4 Information and Communication Skills
CS5 Thinking and Problem-Solving Skills
CS6 Interpersonal and Self-Directional Skills

SUGGESTED REFERENCES


Course Name: Purchasing and Storage

Course Abbreviation: FPV 2223

Classification: Vocational-Technical Core

Description: An introduction to selection and procurement of food and non-food materials in hospitality and related industries. (3 sch: 2 hr. lecture, 2 hr. lab)

Prerequisite: Food Service Sanitation (FPV 1213), Fundamentals of Operational Procedures in Food Service (FPV 1113), or by permission of instructor

Corequisite: Management Procedures and Recordkeeping (FPV 1123)

<table>
<thead>
<tr>
<th>Competencies and Suggested Objectives</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Explore techniques and procedures necessary for selection and procurement in the food service industry.</td>
</tr>
<tr>
<td>a. Explain the advantages of having purchase specifications and what information should be included on the purchase specifications.</td>
</tr>
<tr>
<td>b. Identify the roles of purchase requisitions and purchase orders.</td>
</tr>
<tr>
<td>c. Demonstrate the essentials of proper receiving and invoice receiving techniques.</td>
</tr>
<tr>
<td>2. Explore techniques and procedures necessary for the selection and procurement of food and non-food items.</td>
</tr>
<tr>
<td>a. Discuss guidelines for the purchase of fresh produce, vegetables, fruits, dairy products, poultry, fish, and meats.</td>
</tr>
<tr>
<td>b. Discuss guidelines for the procurement of non-food items such as cleaning supplies, tools, maintenance, and paper products.</td>
</tr>
<tr>
<td>c. Research information on procurement programs or purchase forms.</td>
</tr>
<tr>
<td>3. Explain storage objectives and management techniques.</td>
</tr>
<tr>
<td>a. Discuss storage objectives as related to HACCP.</td>
</tr>
<tr>
<td>b. Demonstrate procedures for maintaining inventory control with a manual or computerized system.</td>
</tr>
</tbody>
</table>

STANDARDS

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Related Academic Standards

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R2 Words in Context (same and opposite meaning)
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M4 Division of Whole Numbers (no remainder, remainder)
M5 Decimals (addition, subtraction, multiplication, division)
M6 Fractions (addition, subtraction, multiplication, division)
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M8 Percents
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21st Century Skills

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CS6 Interpersonal and Self-Directional Skills

Postsecondary Food Production and Management Technology
SUGGESTED REFERENCES


Course Name: Bakery Production and Management

Course Abbreviation: FPV 2336

Classification: Vocational-Technical Core (Associate Degree); Vocational-Technical Elective (Vocational Certificate)

Description: Skills needed for baking and bakery merchandising. Emphasis is placed on preparation, advertising, marketing, garnishing, costing, and plating baked products. (6 sch: 2 hr. lecture, 8 hr. lab)

Prerequisite: Food Service Sanitation (FPV 1213), Culinary Arts I (FPV 1315), Culinary Arts II (FPV 1326), or by permission of instructor

Competencies and Suggested Objectives

<table>
<thead>
<tr>
<th>1. Discuss formulas, techniques, and procedures related to baking.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Recall proper identification, use, care, safety, and cleaning of baking equipment.</td>
</tr>
<tr>
<td>b. Demonstrate importance of weighing ingredients.</td>
</tr>
<tr>
<td>c. Use formulas based on baker’s percentages.</td>
</tr>
<tr>
<td>d. Discuss the seven steps of the baking process.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. Discuss types, use, and function of different bakery ingredients.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Prepare products using three types of yeast, and demonstrate the basic yeast dough methods.</td>
</tr>
<tr>
<td>b. Demonstrate scaling, mixing, fermenting, rounding, benching, makeup and panning, baking, cooling, and storing ingredients.</td>
</tr>
<tr>
<td>c. Determine shelf life and preservation of baked products.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. Demonstrate techniques and procedures for making quick breads, doughnuts, fritters, pancakes, and waffles.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Discuss the formulas, mixing, makeup, and deep-frying for cake-type doughnuts, French doughs, fritters, pancakes, and waffles.</td>
</tr>
<tr>
<td>b. Discuss the role of toppings, fillings, and icing in the bake shop.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. Prepare quality desserts to include cakes, cookies, pies, pastries, and custards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Prepare cakes using multiple types of frosting.</td>
</tr>
<tr>
<td>b. Prepare a variety of types of cookies to include roll, drop, bar, macaroons, cake-type, and meringue.</td>
</tr>
<tr>
<td>c. Prepare various types of pies, pastries, and custards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. Formulate plans to produce, advertise, and market bakery products.</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Apply principles of displaying, merchandising, and selling baked goods.</td>
</tr>
<tr>
<td>b. Apply continuous process and batch process of bakery production.</td>
</tr>
<tr>
<td>c. Perform recordkeeping responsibilities associated with the operation of a bake shop.</td>
</tr>
</tbody>
</table>

STANDARDS

ServSafe® Course Content

SS1 Providing Safe Food

Postsecondary Food Production and Management Technology
SS2 The Microworld
SS3 Contamination, Food Allergens, and Foodborne Illness
SS4 The Safe Foodhandler
SS5 The Flow of Food: An Introduction
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SS7 The Flow of Food: Storage
SS8 The Flow of Food: Preparation
SS9 The Flow of Food: Service
SS10 Food Safety Systems
SS11 Sanitary Facilities and Pest Management
SS12 Food Safety Regulation and Standards

Related Academic Standards

R1 Interpret Graphic Information (forms, maps, reference sources)
R2 Words in Context (same and opposite meaning)
R3 Recall Information (details, sequence)
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M6 Fractions (addition, subtraction, multiplication, division)
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M8 Percents
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A5 Measurement (money, time, temperature, length, area, volume)
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L1 Usage (pronoun, tense, subject/verb agreement, adjective, adverb)
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21st Century Skills

CS1 Global Awareness
CS2 Financial, Economic, and Business Literacy
CS3 Civic Literacy
CS4 Information and Communication Skills
CS5 Thinking and Problem-Solving Skills
CS6 Interpersonal and Self-Directional Skills

SUGGESTED REFERENCES


Course Name: Catering Management

Course Abbreviation: FPV 2515

Classification: Vocational-Technical Core (Associate Degree); Vocational-Technical Elective (Vocational Certificate)

Description: An overview of the background of catering and banquet management. Offers options in catering styles, pricing, menu design, operational controls, computerized management programs, and marketing. (5 sch: 2 hr. lecture, 6 hr. lab)

Prerequisite: Food Service Sanitation (FPV 1213), Culinary Arts I (FPV 1315), Front of the House (FPV 1413), Fundamentals of Operational Procedures in Food Service (FPV 1113), and Management Procedures and Recordkeeping (FPV 1123), or by permission of instructor

Prerequisite or corequisite: Culinary Arts II (FPV 1326)

<table>
<thead>
<tr>
<th>Competencies and Suggested Objectives</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Determine differences in catering styles in food service operations as well as their challenges and opportunities throughout history.</td>
</tr>
<tr>
<td>a. Trace the historical development of banqueting, and determine how it has affected current banquet styles.</td>
</tr>
<tr>
<td>b. Compare the use of catering services in full-service restaurants, hotel food and beverage operations, catering halls, independent caterers, country clubs, contract feeding, and delicatessens.</td>
</tr>
<tr>
<td>c. Explain the problems and opportunities presented by off-premise catering and take-out services.</td>
</tr>
<tr>
<td>2. Review catering menu styles and design.</td>
</tr>
<tr>
<td>3. Review the use of computer applications to enhance the success of the catering food service business to include searching the Internet to find menus and recipes for catering functions.</td>
</tr>
<tr>
<td>4. Determine current innovative trends in catering.</td>
</tr>
<tr>
<td>a. Discuss how entertainment and regional cuisines add excitement to celebrations and business conventions.</td>
</tr>
<tr>
<td>b. Explain how themes and concepts unify an event and please clients.</td>
</tr>
<tr>
<td>5. Execute a catered function.</td>
</tr>
<tr>
<td>a. Design plans for a catered function utilizing information previously presented in class instruction.</td>
</tr>
<tr>
<td>b. Cater an event to meet standards set by the instructor.</td>
</tr>
<tr>
<td>c. Evaluate the catered event.</td>
</tr>
</tbody>
</table>

**STANDARDS**

**ServSafe® Course Content**

SS1 Providing Safe Food
SS2 The Microworld
SS3 Contamination, Food Allergens, and Foodborne Illness
SS4 The Safe Foodhandler
SS5 The Flow of Food: An Introduction
SS6 The Flow of Food: Purchasing and Receiving
SS7 The Flow of Food: Storage
SS8 The Flow of Food: Preparation
SS9 The Flow of Food: Service
SS10 Food Safety Systems
SS11 Sanitary Facilities and Pest Management
SS12 Food Safety Regulation and Standards

Related Academic Standards

R1 Interpret Graphic Information (forms, maps, reference sources)
R2 Words in Context (same and opposite meaning)
R3 Recall Information (details, sequence)
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M6 Fractions (addition, subtraction, multiplication, division)
M7 Integers (addition, subtraction, multiplication, division)
M8 Percents
A1 Numeration (ordering, place value, scientific notation)
A2 Number Theory (ratio, proportion)
A3 Data Interpretation (graph, table, chart, diagram)
A4 Pre-Algebra and Algebra (equations, inequality)
A5 Measurement (money, time, temperature, length, area, volume)
A6 Geometry (angles, Pythagorean theory)
A7 Computation in Context (whole numbers, decimals, fractions, algebraic operations)
A8 Estimation (rounding, estimation)
L1 Usage (pronoun, tense, subject/verb agreement, adjective, adverb)
L2 Sentence Formation (fragments, run-on, clarity)
L3 Paragraph Development (topic sentence, supporting sentence, sequence)
L4 Capitalization (proper noun, titles)
L5 Punctuation (comma, semicolon)
L6 Writing Conventions (quotation marks, apostrophe, parts of a letter)
S1 Vowel (short, long)
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21st Century Skills

CS1 Global Awareness
CS2 Financial, Economic, and Business Literacy
CS3 Civic Literacy
CS4 Information and Communication Skills
CS5 Thinking and Problem-Solving Skills
CS6 Interpersonal and Self-Directional Skills

SUGGESTED REFERENCES


Course Name: Menu Planning and Cost Control

Course Abbreviation: FPV 2613

Classification: Vocational-Technical Core

Description: A study of the principles of menu management and cost control with emphasis on foodservice operation and marketing design, nutritional adequacy, trends, cost analysis, and profit as they relate to menu design. (3 sch: 2 hr. lecture, 2 hr. lab)

Corequisite: Management Procedures and Recordkeeping (FPV 1123) or by permission of the instructor

### Competencies and Suggested Objectives

<table>
<thead>
<tr>
<th>1.</th>
<th>Develop menu designs for various types of food service operations.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>a. Discuss menus designed to meet the special needs of children, teens, and senior citizens.</td>
</tr>
<tr>
<td></td>
<td>b. Search the Internet to find new trends in the food service industry.</td>
</tr>
<tr>
<td></td>
<td>c. Evaluate food preferences to meet trends.</td>
</tr>
<tr>
<td></td>
<td>d. Discuss strategies of using menu functions as a sales tool and a production sheet.</td>
</tr>
<tr>
<td></td>
<td>e. Explain how menu planning affects the physical factors of facility, labor, guest expectations, and food variety.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.</th>
<th>Explain the division of income and costs and how to determine profitability.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>a. Discuss the functions of a profit and loss statement.</td>
</tr>
<tr>
<td></td>
<td>b. Use menu factor analysis, the Hurst method, the breakeven method, and other methods to perform menu analysis.</td>
</tr>
</tbody>
</table>

### STANDARDS

**ServSafe© Course Content**

- SS1 Providing Safe Food
- SS12 Food Safety Regulation and Standards

**Related Academic Standards**

- R1 Interpret Graphic Information (forms, maps, reference sources)
- R2 Words in Context (same and opposite meaning)
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21st Century Skills

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CS2  Financial, Economic, and Business Literacy
CS3  Civic Literacy
CS4  Information and Communication Skills
CS5  Thinking and Problem-Solving Skills
CS6  Interpersonal and Self-Directional Skills

SUGGESTED REFERENCES


Course Name: Nutrition

Course Abbreviation: FPV 2713

Classification: Vocational-Technical Core

Description: A study of nutrients as related to personal health, foods and food preparation, recipe or menu modification for special customer needs, and merchandising techniques associated with nutritious meals. (3 sch: 1 hr. lecture, 4 hr. lab)

Prerequisite: None

<table>
<thead>
<tr>
<th>Competencies and Suggested Objectives</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Explain the six food nutrients and their main functions, food sources, and recommended daily allowances.</td>
</tr>
<tr>
<td>a. Discuss the primary food sources of the nutrients, and discuss diseases related to overconsumption and underconsumption of each.</td>
</tr>
<tr>
<td>b. Explain the value of providing a diet containing a balance of nutrients to customers.</td>
</tr>
<tr>
<td>2. Demonstrate methods to retain the maximum nutrient value of foods during preparation and serving.</td>
</tr>
<tr>
<td>a. Outline guidelines to be used in a food service operation to retain nutrient value of menu items.</td>
</tr>
<tr>
<td>b. Prepare a demonstration utilizing at least one method to retain nutrient content during preparation or serving.</td>
</tr>
<tr>
<td>c. Evaluate menus based on the Recommended Dietary Allowances (RDA) and the Food Guide Pyramid.</td>
</tr>
<tr>
<td>d. Compute a nutritional analysis of personal food intake.</td>
</tr>
<tr>
<td>3. Discuss situations that necessitate special needs diets or modified diets.</td>
</tr>
<tr>
<td>a. Recognize special dietary needs for lifespan nutrition to include pregnancy, lactation, newborns, infants, children, adolescents, adulthood, and older adulthood.</td>
</tr>
<tr>
<td>b. Refer individuals in need of nutritional plans for weight loss and maintenance programs to appropriate health-care professionals.</td>
</tr>
<tr>
<td>c. Make appropriate modifications in recipes and food production techniques to comply with the Dietary Guidelines for Americans and/or prescribed modified diets.</td>
</tr>
<tr>
<td>4. Explain merchandising tactics for promoting a customer nutrition program incorporated into a food service operation.</td>
</tr>
<tr>
<td>a. Conduct a customer survey dealing with interest in healthy and nutritious foods.</td>
</tr>
<tr>
<td>b. Describe methods to incorporate a nutrition program into various food service operations.</td>
</tr>
<tr>
<td>c. Design publicity ideas for the promotion of healthy menus.</td>
</tr>
</tbody>
</table>

STANDARDS

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CS1 Global Awareness
CS2 Financial, Economic, and Business Literacy
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CS4 Information and Communication Skills
CS5 Thinking and Problem-Solving Skills
CS6 Interpersonal and Self-Directional Skills

SUGGESTED REFERENCES


Course Name: Food Service Management

Course Abbreviation: FPV 2813

Classification: Vocational-Technical Core (Associate Degree); Vocational-Technical Elective (Vocational Certificate)

Description: Management duties such as recruiting, interviewing, hiring, scheduling, job evaluations, employee orientation and training, payrolls, and rating employee performance. This course will explore the process by which the manager can enable his or her employees to function efficiently and effectively. These processes will include incentive and benefit programs, discipline, and termination. (3 sch: 2 hr. lecture, 2 hr. lab)

Prerequisites: Fundamentals of Operational Procedures in Food Service (FPV 1113), Management Procedures and Recordkeeping (FPV 1123), Food Service Sanitation (FPV 1213), Culinary Arts I (FPV 1315), Culinary Arts II (FPV 1326), Front of the House (FPV 1413), Purchasing and Storage (FPV 2223), Catering Management (FPV 2515), Menu Planning and Cost Control (FPV 2613), and Nutrition (FPV 2713)

Corequisite: Bakery Production and Management (FPV 2336) or permission by the instructor

Competencies and Suggested Objectives

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Describe the qualifications, duties, and responsibilities of a successful food service manager in dealing with human resources.</td>
</tr>
<tr>
<td></td>
<td>a. Outline major issues to consider when recruiting, interviewing, and hiring employees.</td>
</tr>
<tr>
<td></td>
<td>b. Demonstrate management responsibilities dealing with human resources, such as orientation and communication, training, scheduling, job evaluations, and employee performance ratings.</td>
</tr>
<tr>
<td>2.</td>
<td>Differentiate among the various types of incentive programs.</td>
</tr>
<tr>
<td></td>
<td>a. Discuss trends in compensation and benefits planning for food service employees.</td>
</tr>
<tr>
<td></td>
<td>b. Identify the roles of compensation and benefits packages in the reward system.</td>
</tr>
<tr>
<td>3.</td>
<td>Differentiate between job descriptions and job specifications.</td>
</tr>
<tr>
<td></td>
<td>a. Critique various food service job descriptions and job specifications.</td>
</tr>
<tr>
<td></td>
<td>b. Create at least one job description and job specification.</td>
</tr>
<tr>
<td>4.</td>
<td>Explain the role of management in disciplinary and termination actions.</td>
</tr>
<tr>
<td></td>
<td>a. Explain the concept and benefits of progressive discipline.</td>
</tr>
<tr>
<td></td>
<td>b. Outline the steps involved in the discipline process.</td>
</tr>
<tr>
<td></td>
<td>c. Identify acceptable procedures in the termination process.</td>
</tr>
</tbody>
</table>

STANDARDS

ServSafe© Course Content

SS10  Food Safety Systems
SS12  Food Safety Regulation and Standards
### Related Academic Standards

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### 21st Century Skills

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</tr>
<tr>
<td>CS6</td>
<td>Interpersonal and Self-Directional Skills</td>
</tr>
</tbody>
</table>
SUGGESTED REFERENCES


Course Name: Supervised Work Experience in Food Production and Management Technology I

Course Abbreviation: FPV 291(1-3)

Classification: Vocational-Technical Elective

Description: A course that is a cooperative program between industry and education and is designed to integrate the student’s technical studies with industrial experience. Variable credit is awarded on the basis of one semester hour per 45 industrial contact hours. (1-3 sch: 3-9 hr. externship)

Prerequisite: Consent of instructor

<table>
<thead>
<tr>
<th>Competencies and Suggested Objectives</th>
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</thead>
<tbody>
<tr>
<td>1. Utilize employability skills.</td>
</tr>
<tr>
<td>a. Research employment outlook for the food service industry.</td>
</tr>
<tr>
<td>b. Discuss responsibilities and characteristics related to professional success.</td>
</tr>
<tr>
<td>c. Prepare a résumé, letter of application, and letter of resignation.</td>
</tr>
<tr>
<td>d. Demonstrate job interview skills.</td>
</tr>
<tr>
<td>e. Utilize the computer and Internet for job search and résumé development.</td>
</tr>
<tr>
<td>2. Apply technical skills needed to be a viable member of the workforce.</td>
</tr>
<tr>
<td>a. Prepare a description of technical skills to be developed in the supervised work experience.</td>
</tr>
<tr>
<td>b. Develop technical skills needed to be a viable member of the workforce.</td>
</tr>
<tr>
<td>c. Apply skills developed in other program area courses.</td>
</tr>
<tr>
<td>3. Develop, in coordination with instructor and employer, written occupational objectives to be accomplished.</td>
</tr>
<tr>
<td>a. Outline written occupational objectives in the supervised work experience.</td>
</tr>
<tr>
<td>b. Perform written occupational objectives in the supervised work experience.</td>
</tr>
<tr>
<td>a. Prepare daily written assessment of accomplishment of objectives.</td>
</tr>
<tr>
<td>b. Present weekly written reports to instructor in activities performed and objectives accomplished.</td>
</tr>
</tbody>
</table>

STANDARDS

ServSafe© Course Content

SS1 Providing Safe Food
SS2 The Microworld
SS3 Contamination, Food Allergens, and Foodborne Illness
SS4 The Safe Foodhandler
SS5 The Flow of Food: An Introduction
SS6 The Flow of Food: Purchasing and Receiving
SS7 The Flow of Food: Storage
SS8 The Flow of Food: Preparation
SS9 The Flow of Food: Service
SS10 Food Safety Systems
SS11 Sanitary Facilities and Pest Management
SS12 Food Safety Regulation and Standards

Related Academic Standards

R1 Interpret Graphic Information (forms, maps, reference sources)
R2 Words in Context (same and opposite meaning)
R3 Recall Information (details, sequence)
R4 Construct Meaning (main idea, summary/paraphrase, compare/contrast, cause/effect)
R5 Evaluate/Extend Meaning (fact/opinion, predict outcomes, point of view)
M1 Addition of Whole Numbers (no regrouping, regrouping)
M2 Subtraction of Whole Numbers (no regrouping, regrouping)
M3 Multiplication of Whole Numbers (no regrouping, regrouping)
M4 Division of Whole Numbers (no remainder, remainder)
M5 Decimals (addition, subtraction, multiplication, division)
M6 Fractions (addition, subtraction, multiplication, division)
M7 Integers (addition, subtraction, multiplication, division)
M8 Percents
A1 Numeration (ordering, place value, scientific notation)
A2 Number Theory (ratio, proportion)
A3 Data Interpretation (graph, table, chart, diagram)
A4 Pre-Algebra and Algebra (equations, inequality)
A5 Measurement (money, time, temperature, length, area, volume)
A7 Computation in Context (whole numbers, decimals, fractions, algebraic operations)
A8 Estimation (rounding, estimation)
L1 Usage (pronoun, tense, subject/verb agreement, adjective, adverb)
L2 Sentence Formation (fragments, run-on, clarity)
L3 Paragraph Development (topic sentence, supporting sentence, sequence)
L4 Capitalization (proper noun, titles)
L5 Punctuation (comma, semicolon)
L6 Writing Conventions (quotation marks, apostrophe, parts of a letter)
S1 Vowel (short, long)
S2 Consonant (variant spelling, silent letter)
S3 Structural Unit (root, suffix)

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21st Century Skills

CS1 Global Awareness
CS2 Financial, Economic, and Business Literacy
CS3 Civic Literacy
CS4 Information and Communication Skills
CS5 Thinking and Problem-Solving Skills
CS6 Interpersonal and Self-Directional Skills

SUGGESTED REFERENCES


Course Name: Supervised Work Experience in Food Production and Management Technology II

Course Abbreviation: FPV 292(1-3)

Classification Vocational-Technical Elective

Description: This course is a continuation of Supervised Work Experience in Food Production and Management Technology I. It is a cooperative program between industry and education and is designed to integrate the student’s technical studies with industrial experience. Variable credit is awarded on the basis of one semester hour per 45 industrial contact hours. (1-3 sch: 3-9 hr. externship)

Prerequisite: Supervised Work Experience in Food Production and Management Technology I [FPV 291(1-3)] or by consent of instructor

Competencies and Suggested Objectives

<table>
<thead>
<tr>
<th>Competencies</th>
<th>Suggested Objectives</th>
</tr>
</thead>
</table>
| 1. Utilize employability skills. | a. Discuss responsibilities and characteristics related to professional success.  
 b. Prepare a resumé, letter of application, and letter of resignation.  
 c. Demonstrate job interview skills.  
 d. Utilize the computer and Internet for job search and resume development. |
| 2. Apply technical skills needed to be a viable member of the workforce. | a. Prepare a description of technical skills to be developed in the supervised work experience.  
 b. Develop technical skills needed to be a viable member of the workforce.  
 c. Apply skills developed in other program area courses. |
| 3. Develop, in coordination with instructor and employer, written occupational objectives to be accomplished. | a. Outline written occupational objectives in the supervised work experience.  
 b. Perform written occupational objectives in the supervised work experience. |
 b. Present weekly written reports to instructor in activities performed and objectives accomplished. |

STANDARDS

ServSafe® Course Content

SS1 Providing Safe Food  
SS2 The Microworld  
SS3 Contamination, Food Allergens, and Foodborne Illness  
SS4 The Safe Foodhandler  
SS5 The Flow of Food: An Introduction  
SS6 The Flow of Food: Purchasing and Receiving
SS7  The Flow of Food: Storage  
SS8  The Flow of Food: Preparation  
SS9  The Flow of Food: Service  
SS10  Food Safety Systems  
SS11  Sanitary Facilities and Pest Management  
SS12  Food Safety Regulation and Standards  

Related Academic Standards  

R1  Interpret Graphic Information (forms, maps, reference sources)  
R2  Words in Context (same and opposite meaning)  
R3  Recall Information (details, sequence)  
R4  Construct Meaning (main idea, summary/paraphrase, compare/contrast, cause/effect)  
R5  Evaluate/Extend Meaning (fact/opinion, predict outcomes, point of view)  
M1  Addition of Whole Numbers (no regrouping, regrouping)  
M2  Subtraction of Whole Numbers (no regrouping, regrouping)  
M3  Multiplication of Whole Numbers (no regrouping, regrouping)  
M4  Division of Whole Numbers (no remainder, remainder)  
M5  Decimals (addition, subtraction, multiplication, division)  
M6  Fractions (addition, subtraction, multiplication, division)  
M7  Integers (addition, subtraction, multiplication, division)  
M8  Percents  
M9  Algebraic Operations  
A1  Numeration (ordering, place value, scientific notation)  
A2  Number Theory (ratio, proportion)  
A3  Data Interpretation (graph, table, chart, diagram)  
A4  Pre-Algebra and Algebra (equations, inequality)  
A5  Measurement (money, time, temperature, length, area, volume)  
A6  Geometry (angles, Pythagorean theory)  
A7  Computation in Context (whole numbers, decimals, fractions, algebraic operations)  
A8  Estimation (rounding, estimation)  
L1  Usage (pronoun, tense, subject/verb agreement, adjective, adverb)  
L2  Sentence Formation (fragments, run-on, clarity)  
L3  Paragraph Development (topic sentence, supporting sentence, sequence)  
L4  Capitalization (proper noun, titles)  
L5  Punctuation (comma, semicolon)  
L6  Writing Conventions (quotation marks, apostrophe, parts of a letter)  
S1  Vowel (short, long)  
S2  Consonant (variant spelling, silent letter)  
S3  Structural Unit (root, suffix)  

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21st Century Skills  

CS1  Global Awareness
CS2  Financial, Economic, and Business Literacy
CS3  Civic Literacy
CS4  Information and Communication Skills
CS5  Thinking and Problem-Solving Skills
CS6  Interpersonal and Self-Directional Skills

SUGGESTED REFERENCES


Recommended Tools and Equipment

CAPITALIZED ITEMS

1. Booster, hot water (1)
2. Cabinet, food warmer (2)
3. Cash register (1)
4. Chopper or processor, food (1)
5. Cooker, steam with trunion (1)
6. Counter, work (1)
7. Dishwasher, commercial (1)
8. Disposal, garbage (3)
9. Filter, cooking oil (1)
10. Freezer (1)
11. Griddle (1)
12. Grill, fryer unit (2)
13. Machine, ice making with storage bin (1)
14. Machine, slicing food (1)
15. Mixer, food (1)
16. Oven, gas (2)
17. Pans, set for cooking (1)
18. Refrigerator, electric commercial (1)
19. Portable refrigerator (1)
20. Sink, kitchen, double compartment (2)
21. Sink, kitchen, three compartment (1)
22. Stand, utility (1)
23. Station, waitress, nourishment, and ice (1)
24. Institution/commercial gas stove (3)
25. Table, set of dish storage racks (1)
26. Work table, stainless (6)
27. Industrial fryer cooker (1)
28. Roll-in refrigerator cabinet (1)
29. Walk-in cooler freezer (1)
30. Refrigerator, pass-through slide door (1)
31. Gas charbroiler with stand (1)
32. Mixer, 20 qt. with access (1)
33. Student computer with printer and Internet access (1 per 4 students)
34. Teacher computer with printer and Internet access (1)
35. Tilt fryer unit (1)
36. Exhaust system with air exchanger and fire extinguisher (1)

NON-CAPITALIZED ITEMS

1. Cabinet, supply (2)
2. Machine, clothes dryer (1)
3. Microwave oven (1)
4. Scales, laboratory (1)
5. Washer, heavy-duty (1)
6. Cashier stand 24-in. x 30-in. x 36-in., 1 drawer (1)
7. 1 rack with casters, 20 pan capacity (2)
8. Baker scale/dough scale (1)
9. Calculator, 12-digit, with printer/display (1)
10. Cart, food service (4)
11. Roasting pan set, 21 qt. capacity (1)
12. Electric stainless knife sharpener (1)
13. Pot with faucet and strainer, 10 gal. (1)
14. Coffee brewer with 2 warmers (1)
15. Lamp, heat (1)
16. Pot shelving wall or hanging rack (2)
17. Menu board with glass door pedestal (1)
18. Portable ingredients bins (6)
19. Locker 12 x 12 x 12 (1)
20. Blender mixer (1)
21. Stand mixer (6)
22. Garbage cans with dollies (2)
23. Pot stock with cover, 15 gal. (2)
24. Soup bowl (10 doz)
25. Monkey dish (10 doz)
26. Soup cup (10 doz)
27. 6-in. bread and butter plates (10 doz)
28. 7-in. salad plate (10 doz)
29. 9-in. dinner plate (10 doz)
30. 12-in. dinner platter (10 doz)
31. Coffee cups (10 doz)
32. Saucers (10 doz)
33. 6-oz water glasses (10 doz)
34. 10-oz drinking glasses (10 doz)
35. Salt and pepper sets (20 sets)
36. 60-oz water pitcher (20)
37. Gumbo spoons (10 doz)
38. Bouillon spoon (10 doz)
39. Teaspoon (10 doz)
40. Pasta spoon (10 doz)
41. Cocktail fork (10 doz)
42. Salad fork (10 doz)
43. Dinner fork (10 doz)
44. Bread knife (10 doz)
45. Steak knife (10 doz)
46. Boning knife (1 doz)
47. Pairing knife (1 doz)
48. 6-in. fillet knife (1 doz)
49. 8-in. chef knife (1 doz)
50. 10-in. chef knife (1 doz)
51. 14-in. beef slicer (6)
52. Serrated slicer (6)
53. Butcher knife (4)
54. Double boiler set, 4 to 36 quarts (2 sets)
55. 18 x 26 in. sheet pan (24)
56. 18 x 13 in. sheet pan (12)
57. Steam table pans with lids, full size, 2-in., 4-in., 6-in. (12 of each)
58. Steam table pans with lids, half size, 2-in., 4-in., 6-in. (12 of each)
59. Muffin pans (6)
60. Pie tins (12)
61. Cake pans (6)
62. Spring form pans (6)
63. 1 cup measuring cup (6)
64. 1 quart measuring cup (6)
65. 1 gal. measuring cup (6)
66. 1/8 – 1/2 oz measuring spoon set (12 sets)
67. 12-in. cutting board (6)
68. Stainless steel bowls, assorted sizes (6 sets)
69. Can opener, table mounted (1)
70. Can opener, hand held (6)
71. Spoons, Slotted, 18-in. (12)
72. Spoons, solid, 18-in. (12)
73. Spoons, perforated, 18-in. (12)
74. Thermometer, candy (1)
75. Mop sink (1)
76. Utility knife (6)
77. Cleaver knife (6)
78. Oyster knife (6)
79. Clam knife (6)
80. Vegetable peeler (1 doz)
81. Digital instant-read thermometer (2)
82. Pie server (6)
83. Rolling pin (3)
84. Strainer (6)
85. Pastry bag and tubes (3 sets)
86. 8-in. tongs (6)
87. 12-in. tongs (6)
88. 10-in. tongs (6)
89. Wire whisk (12)
90. Spatulas, offset (12)
91. Spatulas, straight (12)
92. Turners (12)
93. Scoops, portion (dishers) assorted sizes (6 of each size)
94. Pastry wheels (8)
95. Ladles, assorted sizes (12 of each size)
96. Collanders, assorted sizes (6)
97. Pastry brushes (12)
98. Pastry wheel, calibrated (1)
99. Chafing dish set to include 1 stand, 1 water basin, 1 pan, and 1 cover (6)
100. 8- to 200-quart stock pots (6)
101. 6- to 60-quart sauce pots (6)
102. 11- to 30-quart brazier (2)
103. 1½- to 15-quart sauce pan (6)
104. 8-in. cast iron skillet (2)
105. 12-in. cast iron skillet (2)
106. 14-in. cast iron skillet (2)
107. 6- to 14-in. slope-sided pan (2)
108. Box grater (6)
109. Induction heating unit

RECOMMENDED INSTRUCTIONAL AIDS

It is recommended that instructors have access to the following items:

1. Overhead projector (1)
2. Data projector (1)
3. Screen (1)
4. 37-in. color TV
5. VCR/DVD
6. Camcorder for demonstrations
7. Digital camera
Assessment

This program is assessed using the MS-CPAS. The following blueprint summary contains the courses/units that are measured when assessing this program. Courses/units are grouped into clusters, and a weight is given to each cluster to determine the number of items needed from each cluster. The numbers of C1s and C2s (item difficulty levels) are also indicated on the blueprint. This blueprint becomes effective Spring 2008.

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<th>CLUSTER/COMPETENCY</th>
<th>Level 1 (C1) Number</th>
<th>Level 2 (C2) Number</th>
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<th>%</th>
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<tr>
<td>FPV 1113 Fundamentals of Operational Procedures in Food Service</td>
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<td>FPV 1213 Food Service Sanitation</td>
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<td>FPV 1123 Management Procedures and Recordkeeping</td>
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<td>FPV 2223 Purchasing and Storage</td>
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<td>FPV 2613 Menu Planning and Cost Control</td>
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<td>FPV 1326 Culinary Arts II</td>
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<td>TOTAL QUESTIONS:</td>
<td>75</td>
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<td>100</td>
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Appendix A: ServSafe© Course Content

SS1 Providing Safe Food
   The Dangers and Prevention of Foodborne Illness
   Preventing Foodborne Illness
   How Food Becomes Unsafe
   The Food Safety Responsibilities of a Manager

SS2 The Microworld
   Microbial Contaminants
   Bacteria
   Viruses
   Parasites
   Fungi

SS3 Contamination, Food Allergens, and Foodborne Illness
   Types of Foodborne Contamination
   Deliberate Contamination of Food
   Food Allergens

SS4 The Safe Foodhandler
   How Foodhandlers Can Contaminate Food
   Components of a Good Personal Hygiene Program
   Management’s Role in a Personal Hygiene Program

SS5 The Flow of Food: An Introduction
   Preventing Cross-Contamination
   Time and Temperature Control
   Monitoring Time and Temperature

SS6 The Flow of Food: Purchasing and Receiving
   General Principles
   Inspecting Food

SS7 The Flow of Food: Storage
   General Storage Guidelines
   Types of Storage

SS8 The Flow of Food: Preparation
   Handling Food
   Thawing Food Properly
   Preparing Specific Food
   Cooking Guidelines
   Cooking Temperatures

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Cooling Food
Reheating Food

SS9 The Flow of Food: Service
Holding Food
Serving Food Safely
Types of Foodservice Operations

SS10 Food Safety Systems
Food Safety Programs
Active Managerial Control
HACCP
Crisis Management

SS11 Sanitary Facilities and Pest Management
Facilities and Equipment
Cleaning and Sanitizing
Integrated Pest Management

SS12 Food Safety Regulation and Standards
Government Regulatory System for Food
The Food Code
Foodservice Inspection Process
Appendix B: Related Academic Standards

Reading
R1 Interpret Graphic Information (forms, maps, reference sources)
R2 Words in Context (same and opposite meaning)
R3 Recall Information (details, sequence)
R4 Construct Meaning (main idea, summary/paraphrase, compare/contrast, cause/effect)
R5 Evaluate/Extend Meaning (fact/opinion, predict outcomes, point of view)

Mathematics Computation
M1 Addition of Whole Numbers (no regrouping, regrouping)
M2 Subtraction of Whole Numbers (no regrouping, regrouping)
M3 Multiplication of Whole Numbers (no regrouping, regrouping)
M4 Division of Whole Numbers (no remainder, remainder)
M5 Decimals (addition, subtraction, multiplication, division)
M6 Fractions (addition, subtraction, multiplication, division)
M7 Integers (addition, subtraction, multiplication, division)
M8 Percents
M9 Algebraic Operations

Applied Mathematics
A1 Numeration (ordering, place value, scientific notation)
A2 Number Theory (ratio, proportion)
A3 Data Interpretation (graph, table, chart, diagram)
A4 Pre-Algebra and Algebra (equations, inequality)
A5 Measurement (money, time, temperature, length, area, volume)
A6 Geometry (angles, Pythagorean theory)
A7 Computation in Context (whole numbers, decimals, fractions, algebraic operations)
A8 Estimation (rounding, estimation)

Language
L1 Usage (pronoun, tense, subject/verb agreement, adjective, adverb)
L2 Sentence Formation (fragments, run-on, clarity)
L3 Paragraph Development (topic sentence, supporting sentence, sequence)
L4 Capitalization (proper noun, titles)
L5 Punctuation (comma, semicolon)
L6 Writing Conventions (quotation marks, apostrophe, parts of a letter)

Spelling
S1 Vowel (short, long)
S2 Consonant (variant spelling, silent letter)
S3 Structural Unit (root, suffix)

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Appendix C: 21st Century Skills

CS1 Global Awareness
- Using 21st century skills to understand and address global issues
- Learning from and working collaboratively with individuals representing diverse cultures, religions, and lifestyles in a spirit of mutual respect and open dialogue in personal, work, and community contexts
- Promoting the study of non-English language as a tool for understanding other nations and cultures

CS2 Financial, Economic, and Business Literacy
- Knowing how to make appropriate personal economic choices
- Understanding the role of the economy and the role of business in the economy
- Applying appropriate 21st century skills to function as a productive contributor within an organizational setting
- Integrating oneself within and adapting continually to our nation’s evolving economic and business environment

CS3 Civic Literacy
- Being an informed citizen to participate effectively in government
- Exercising the rights and obligations of citizenship at local, state, national, and global levels
- Understanding the local and global implications of civic decisions
- Applying 21st century skills to make intelligent choices as a citizen

CS4 Information and Communication Skills
- Information and media literacy skills: Analyzing, accessing, managing, integrating, evaluating, and creating information in a variety of forms and media; understanding the role of media in society
- Communication skills: Understanding, managing, and creating effective oral, written, and multimedia communication in a variety of forms and contexts

CS5 Thinking and Problem-Solving Skills
- Critical thinking and systems thinking: Exercising sound reasoning in understanding and making complex choices, understanding the interconnections among systems
- Problem identification, formulation, and solution: Ability to frame, analyze, and solve problems
- Creativity and intellectual curiosity: Developing, implementing, and communicating new ideas to others, staying open and responsive to new and diverse perspectives

CS6 Interpersonal and Self-Directional Skills
- Interpersonal and collaborative skills: Demonstrating teamwork and leadership, adapting to varied roles and responsibilities, working productively with others, exercising empathy, respecting diverse perspectives
- Self-direction: Monitoring one’s own understanding and learning needs, locating appropriate resources, transferring learning from one domain to another
- Accountability and adaptability: Exercising personal responsibility and flexibility in personal, workplace, and community contexts; setting and meeting high standards and goals for one’s self and others; tolerating ambiguity

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• Social responsibility: Acting responsibly with the interests of the larger community in mind; demonstrating ethical behavior in personal, workplace, and community contexts