Wisconsin's Model Academic Standards for Family and Consumer Education and National Standards for Family and Consumer Sciences

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A. SCIENCE CONNECTIONS	FACS State and National Education Standards	Crosswalk of Local School Curriculum
Performance Standards		
By the end of Grade 12 students will:	By the end of Grade 12 students will:	
A.12.1 Apply the underlying themes of science to develop	National Standards for Family and Consumer Sciences:	
defensible visions of the future	3.4 Analyze resource consumption for conservation and	
	waste management practices, $(3.4.1 - 3.4.5)$	
	12.1 Analyze principles of human growth and	
	development across the life span, (12.1.1 – 12.1.3)	
	14.1 Analyze factors that influence nutrition and wellness	
	practices across the life span, (14.1.1 – 14.1.5)	
	14.4 Evaluate factors that affect food safety from	
	production through consumption, (14.4.1 – 14.4.6)	
	14.5 Evaluate the influence of science and technology on	
	food composition, safety, and other issues, (14.5.1 –	
	14.5.4)	
	Wisconsin Standards for Family and Consumer Sciences	
	Standard: PAS1: Utilize the practical reasoning process,	
	individually and collaboratively, to take responsible action	
	in families, workplaces and communities.	
	Standard: HD1: Analyze factors that influence human	
	growth and development, (HD1:a-HD1:c)	
	Standard NW1: Demonstrate nutrition and wellness	
	practices that enhance individual and family well-being,	
	(NW1:a; NW1:d)	
A 12.2 Show how conflicting assumptions of set seizes	National Standards for Earnily and Consum - S-i	
A.12.2 Show how conflicting assumptions about science	National Standards for Family and Consumer Sciences:	
themes lead to different opinions and decisions about	1.1 Analyze strategies to manage multiple roles and	
evolution, health, population, longevity, education, and use of resources, and show how these opinions and	responsibilities (individual, family, career, community, and global), $(1.1.1 - 1.1.6)$	
decisions have diverse effects on an individual, a	1.2 Demonstrate transferable and employability skills in	
community, and a country, both now and in the future	school, community, and workplace settings, (1.2.1 – 1.2.8)	
community, and a country, both now and in the future	1.3 Evaluate the reciprocal effect of individual and family	
	participation in community activities, (1.3.1 – 1.3.6)	
	participation in community activities, (1.3.1 – 1.3.0)	

	9.3 Evaluate nutrition principles, food plans, preparation techniques, and specialized dietary plans, (9.3.1 – 9.3.7) 9.4 Apply basic concepts of nutrition and nutritional therapy in a variety of settings, (9.4.1 – 9.4.5) 14.2 Evaluate the nutritional needs of individuals and families in relation to health and wellness across the life span, (14.2.1 – 14.2.4)	
	Wisconsin Standards for Family and Consumer Sciences Standard PAS1: Utilize the reasoning process, individually and collaboratively, to take responsible action in families, (PAS1:a;PAS1:e) Standard FSDN1: Integrate the knowledge, skills and practices required for careers in food science, food technology, dietetics and nutrition, (FSDN1:c;FSDN1:d) Standard NW1: Demonstrate nutrition and wellness practices that enhance individual and family well-being, (NW1:b; NW1:e)	
A.12.3 Give examples that show how partial systems, models, and explanations are used to give quick and reasonable solutions that are accurate enough for basic needs	National Standards for Family and Consumer Sciences:  9.6 Demonstrate food science, dietetics, and nutrition management principles and practices, (9.6.1 – 9.6.5)  14.3 Demonstrate ability to acquire, handle, and use foods to meet nutrition and wellness needs of individuals and families across the life span, (14.3.1 – 14.3.3)  Wisconsin Standards for Family and Consumer Sciences:  Standard FSDN1: Integrate the knowledge, skills and practices required for careers in food science, food technology, dietetics and nutrition, (FSDN1:f)  Standard NW1: Demonstrate nutrition and wellness practices that enhances individual and family well-being, (NW1:a)	

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A.12.4 Construct arguments that show how conflicting models and explanations of events can start with similar evidence	National Standards for Family and Consumer Sciences: 2.2 Analyze the relationship of the environment to family and consumer resources, $(2.2.1 - 2.2.4)$ also F12.8 2.3 Analyze policies that support consumer rights and responsibilies, $(2.3.1 - 2.3.3)$ 2.5 Analyze relationships between the economic system and consumer actions, $(2.5.1 - 2.5.4)$ 9.2 Apply risk management procedures to food safety, food testing, and sanitation, $(9.2.1 - 9.2.9)$	
	Wisconsin Standards for Family and Consumer Sciences Standard CFR1: Evaluate management practices related to the human, economic and environmental resources, (CFR1:b; CFR1:c; CFR1:e) Standard FSDN1: Integrate knowledge skills and practices required for careers in food science, food technology, dietetics and nutrition, (FSDN1:b)	

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A.12.5 Show how the ideas and themes of science can be	National Standards for Family and Consumer Sciences:	
used to make real-life decisions about careers, work	1.1 Analyze strategies to manage multiple roles and	
places, life-styles, and use of resources	responsibilities (individual, family, career, community,	
1	and global), (1.1.1 - 1.1.6)	
	1.2 Demonstrate transferable and employability skills in	
	school, community, and workplace settings, $(1.2.1 - 1.2.8)$	
	1.3 Evaluate the reciprocal effect of individual and family	
	participation in community activities, $(1.3.1 - 1.3.6)$	
	9.1 Analyze career paths within food science, food	
	technology, dietetics, and nutrition industries, (9.1.1 –	
	9.1.6)	
	9.5 Demonstrate use of current technology in food product	
	development and marketing, $(9.5.1 - 9.5.7)$	
	β, (	
	Wisconsin Standards for Family and Consumer	
	Sciences:	
	Standard CCLC: Integrate multiple roles and	
	responsibilities in family, work and community settings,	
	(CCLC1:a; CCLC: b; CCLC: c)	
	Standard: FSDN1: Integrate knowledge, skills and	
	practices required for careers in food science, food	
	technology, dietetics and nutrition, (FSDN1:a; FSDN1:e)	
	,	
A.12.6 Identify and replace inaccurate personal models	National Standards for Family and Consumer Sciences:	
and explanations of science-related phenomena using	1 Evaluate reasoning for self and others, $(1.1 - 1.4)$	
evidence learned or discovered	4 Implement practical reasoning for responsible action in	
	families, workplaces, and communities, $((4.1 - 4.6))$	
	8.5 Demonstrate professional food preparation methods	
	and techniques for all menu categories to produce a variety	
	of food products that meet customer needs, (8.5.1 –	
	8.5.11)	
	9.2 Apply risk management procedures to food safety,	
	food testing, and sanitation, $(9.2.1 - 9.2.9)$	

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	Wisconsin Standards for Family and Consumer Sciences: Standard: PAS1: Utilize the practical reasoning process, individually and collaboratively, to take responsible action in families, workplaces and communities, (PSAS1:a; PAS1:d) Standard FPS: Food Production and Services, (FPS1: e) Standard FSDN: Integrate knowledge, skills and practices required for careers in food science, food technology, dietetics, and nutrition, (FSDN1:b)	
A.12.7 Re-examine the evidence and reasoning that led to conclusions drawn from investigations, using the science themes	National Standards for Family and Consumer Sciences:  1 Evaluate reasoning for self and others, (1.1 – 1.4)  2 Analyze recurring and evolving family, workplace, and community concerns, (2.1 – 2.4)  3 Analyze practical reasoning components, (3.1 – 3.6)  4 Implement practical reasoning for responsible action in families. workplaces, and communities, (4.1 – 4.14)  5 Demonstrate scientific inquiry and reasoning to gain factual knowledge and test theories on which to base judgments for action, (5.1 – 5.6)  Wisconsin Standards for Family and Consumer Sciences:  Standard PAS1; Utilize the practical reasoning process, individually and collaboratively, to take responsible action in families, workplaces and communities, (PAS1:a; PAS1:b; PAS1:c; PAS1:d; PAS1:e)	
B. NATURE OF SCIENCE	FACS State and National Education Standards	Crosswalk of Local School Curriculum
Performance Standards		
By the end of Grade 12 students will:	By the end of Grade 12 students will:	
B.12.1 Show how cultures and individuals have	National Standards for Family and Consumer Sciences:	

contributed to the development of major ideas in the earth	3 Analyze practical reasoning components, (3.1 – 3.6)	
and space, life and environmental, and physical sciences	Wisconsin Standards for Family and Consumer	
	Sciences:	
	Standard PAS1: Utilize the reasoning process, individually	
	and collaboratively, to take responsible action in families,	
	workplaces and communities, (PAS1:c)	
B.12.2 Identify the cultural conditions that are usually	National Standards for Family and Consumer Sciences:	
present during great periods of discovery, scientific	3.4 Analyze resource consumption for conservation and	
development, and invention	waste management practices, $(3.4.1 - 3.4.5)$	
de versprinent, une mivernien	waste management praestees, (evill eville)	
	Wisconsin Standards for Family and Consumer	
	Sciences:	
	Standard CFR: Evaluate management practices related to	
	human, economic and environmental resources, (CS1:d)	
B.12.3 Relate the major themes of science to human	National Standards for Family and Consumer Sciences:	
progress in understanding science and the world	5 Demonstrate scientific inquiry and reasoning to gain	
	factual knowledge and test theories on which to base	
	judgments for action, $(5.1 - 5.6)$	
	Wisconsin Standards for Family and Consumer	
	Sciences:	
	Standard PAS1: Utilize the reasoning process,	
	individually and collaboratively, to take responsible action	
	in families, workplaces and communities, (PAS1:e)	
B.12.4 Show how basic research and applied research	National Standards for Family and Consumer Sciences:	
contribute to new discoveries, inventions, and applications	5. Demonstrate scientific inquiry and reasoning to gain	
	factual knowledge and test theories on which to base	
	judgments for action, $(5.1 - 5.6)$	
	3.5 Demonstrate skills needed for product development,	
	testing, and presentation, $(3.5.1 - 3.5.8)$	
	9.5 Demonstrate use of current technology in food product	

	development and marketing, (9.5.1 – 9.5.7) 14.4 Evaluate factors that affect food safety from production through consumption, (14.4.1 – 14.4.6)  Wisconsin Standards for Family and Consumer Sciences: Standard PAS1: Utilize the reasoning process, individually and collaboratively, to take responsible action in families, workplaces and communities, (PAS1:e) Standard CS1: Integrate knowledge, skills and practices needed for a career in consumer services, (CS1:e) Standard NW1: Demonstrate nutrition and wellness practices that enhance individual and family well-being, (NW1:d)	
B.12.5 Explain how science is based on assumptions about the natural world and themes that describe the natural	National Standards for Family and Consumer Sciences: 5 Demonstrate scientific inquiry and reasoning to gain	
world	factual knowledge and test theories on which to base	
	judgments for action, $(5.1 - 5.6)$	
	Wisconsin Standards for Family and Consumer	
	Sciences:	
	Standard PAS1: Utilize the reasoning process, individually	
	and collaboratively, to take responsible action in families,	
	workplaces and communities, (PAS1:e)	
C. SCIENCE INQUIRY	FACS State and National Education Standards	Crosswalk of Local School Curriculum
Performance Standards	2.200 Sime Haw I INDIVINA DIMENSIA SHIMMI MU	OA VOOT II WAAR VA ADVONG DOGIOVA ONG TROUGHAM
By the end of Grade 12 students will:	By the end of Grade 12 students will:	
C.12.1 When studying science content, ask questions	National Standards for Family and Consumer Sciences:	
suggested by current social issues, scientific literature, and	4 Implement practical reasoning for responsible action in	
observations of phenomena; build hypotheses that might	families, workplaces, and communities, $(4.1 - 4.6)$	
answer some of these questions; design possible	5 Demonstrate scientific inquiry and reasoning to gain	
investigations; and describe results that might emerge	factual knowledge and test theories on which to base	

from such investigations	judgments for action, $(5.1 - 5.6)$	
	Wisconsin Standards for Family and Consumer	
	Sciences:	
	PAS1: Utilize the reasoning process, individually and	
	collaboratively, to take responsible action in families, workplaces and communities, (PSA1:d; PSA1:e)	
C.12.2 Identify issues from an area of science study, write	National Standards for Family and Consumer Sciences:	
questions that could be investigated, review previous	5 Demonstrate scientific inquiry and reasoning to gain	
research on these questions, and design and conduct	factual knowledge and test theories on which to base	
responsible and safe investigations to help answer the	judgments for actions, $(5.1 - 5.6)$	
questions	Judgments for actions, (3.1 – 3.0)	
questions	Wisconsin Standards for Family and Consumer	
	Sciences:	
	Standard PAS1: Utilize the reasoning process,	
	individually and collaboratively, to take responsible action	
	in families, workplaces and communities, (PSA1:e)	
C.12.3 Evaluate the data collected during an investigation,	National Standards for Family and Consumer Sciences:	
critique the data-collection procedures and results, and	None	
suggest ways to make any needed improvements		
	Wisconsin Standards for Family and Consumer	
	Sciences:	
	None	
C.12.4 During investigations, choose the best data-	National Standards for Family and Consumer Sciences:	
collection procedures and materials available, use them	9.5 Demonstrate use of current technology in food product	
competently, and calculate the degree of precision of the	development and marketing, $(9.5.1 - 9.5.7)$	
resulting data		
	Wisconsin Standards for Family and Consumer	
	Sciences:	
	Standard FSDN1: Integrate the knowledge, skills and	
	practices required for careers in food science, food	
	technology, dietetics and nutrition, (FSDN1:e)	

C.12.5 Use the explanations and models found in earth and space, life and environmental, and physical sciences to develop likely explanations for the results of their investigations	National Standards for Family and Consumer Sciences: None	
	Wisconsin Standards for Family and Consumer Sciences: None	
C.12.6 Present the results of investigations to groups concerned with the issues, explaining the meaning and implications of the results, and answering questions in terms the audience can understand	National Standards for Family and Consumer Sciences: 5 Demonstrate scientific inquiry and reasoning to gain factual knowledge and test theories on which to base judgments for action, $(5.1-5.6)$	
	Wisconsin Standards for Family and Consumer Sciences Standard PAS1: Utilize the reasoning process, individually and collaboratively, to take responsible action in families, workplaces and communities, (PSA1:e)	
C.12.7 Evaluate articles and reports in the popular press, in scientific journals, on television, and on the Internet, using criteria related to accuracy, degree of error, sampling, treatment of data, and other standards of experimental design	National Standards for Family and Consumer Sciences: 1 Evaluate reasoning for self and others, $(1.1 - 1.4)$ 5 Demonstrate scientific inquiry and reasoning to gain factual knowledge and test theories on which to base judgments for action, $(5.1 - 5.6)$	
	Wisconsin Standards for Family and Consumer Sciences: Standard PAS1: Utilized the reasoning process, individually and collaboratively, to take responsible action in families, workplaces and communities, (PAS1:a; PAS1:e)	

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D. PHYSICAL SCIENCE	FACS State and National Education Standards	Crosswalk of Local School Curriculum
Performance Standards		
By the end of Grade 12 students will:	By the end of Grade 12 students will:	
Structures of Atoms and Matter		
D.12.1 Describe atomic structure and the properties of	National Standards for Family and Consumer Sciences:	
atoms, molecules, and matter during physical and	None	
chemical interactions		
	Wisconsin Standards for Family and Consumer	
	Sciences:	
	None	
D.12.2 Explain the forces that hold the atom together and	National Standards for Family and Consumer Sciences:	
illustrate how nuclear interactions change the atom	None	
	Wisconsin Standards for Family and Consumer	
	Sciences: None	
D.12.3 Explain exchanges of energy in chemical	National Standards for Family and Consumer Sciences:	
interactions and exchange of mass and energy in	None	
atomic/nuclear reactions	TVOIC	
atomic/nacical reactions	Wisconsin for Family and Consumer Sciences:	
	None	
Chemical Reactions		
D.12.4 Explain how substances, both simple and complex,	National Standards for Family and Consumer Sciences:	
interact with one another to produce new substances	5.3 Demonstrate sanitation procedures for a clean and safe	
1	environment, $(5.3.1 - 5.3.6)$	
	, ,	
	Wisconsin Standards for Family and Consumer	
	Sciences:	
	Standard FPS1: Integrate knowledge, skills and practices	
	required for careers in food production and services	
	(FPS1:b)	

D.12.5 Identify patterns in chemical and physical	National Standards for Family and Consumer Sciences:	
properties and use them to predict likely chemical and	9.6 Demonstrate food science, dietetics, and nutrition	
physical changes and interactions	management principles and practices, $(9.6.1 - 9.6.5)$	
	Wisconsin Standards for Family and Consumer	
	Sciences:	
	Standard FSDN1: Integrate the knowledge, skills and	
	practices required for careers in food science, food	
	technology, dietetics and nutrition, (FSDN1:f)	
D.12.6 Through investigations, identify the types of	National Standards for Family and Consumer Sciences:	
chemical interactions, including endothermic, exothermic,	8.5 Demonstrate professional food preparation methods	
oxidation, photosynthesis, and acid/base reactions	and techniques for all menu categories to produce a variety	
	of food products that meet customer needs, (8.5.1 –	
	8.5.11)	
	Wisconsin Standards for Family and Consumer	
	Sciences:	
	Standard FPS1: Integrate knowledge, skills and practices	
	required for careers in food production and services,	
17.4	(FPS1:e)	
Motions and Forces	N 1 10 1 1 1 0 0 1	
D.12.7 Qualitatively and quantitatively analyze changes in	National Standards for Family and Consumer Sciences:	
the motion of objects and the forces that act on them and	None	
represent analytical data both algebraically and graphically		
	Wisconsin Standards for Family and Consumer	
	Sciences:	
D 10 0 Hz 1	None	
D.12.8 Understand the forces of gravitation, the	National Standards for Family and Consumer Sciences:	
electromagnetic force, intermolecular force, and explain	None	
their impact on the universal system	Wisconsin Standards for Family and Consumer	
	Sciences:	
	None	
D.12.9 Describe models of light, heat, and sound and	National Standards for Family and Consumer Sciences:	
D.12.5 Describe inodels of right, heat, and sound and	i Nanonai Sianaaras jor Family ana Consumer Sciences:	

through investigations describe similarities and differences	None	
in the way these energy forms behave	Wisconsin Standards for Family and Consumer	
	Sciences:	
	None	
Conservation of Energy and the Increase in Disorder	Trone	
D.12.10 Using the science themes, illustrate the law of	National Standards for Family and Consumer Sciences:	
conservation of energy during chemical and nuclear	None	
reactions	Tronc	
Touchons	Wisconsin Standards for Family and Consumer	
	Sciences:	
	None	
Interactions of Matter and Energy		
D.12.11 Using the science themes, explain common	National Standards for Family and Consumer Sciences:	
occurrences in the physical world	None	
	Wisconsin Standards for Family and Consumer	
	Sciences:	
	None	
D.12.12 Using the science themes and knowledge of	National Standards for Family and Consumer Sciences:	
chemical, physical, atomic, and nuclear interactions,	None	
explain changes in materials, living things, earth's features,		
and stars	Wisconsin Standards for Family and Consumer	
	Sciences:	
	None	
E. EARTH AND SPACE SCIENCE	FACS State and National Education Standards	Crosswalk of Local School Curriculum
Performance Standards		
By the end of Grade 12 students will:	By the end of Grade 12 students will::	
<b>Energy in the Earth System</b>		
E.12.1 Using the science themes, distinguish between	National Standards for Family and Consumer Sciences:	
internal energies (decay of radioactive isotopes, gravity)	None	
and external energies (sun) in the earth's systems and show		
how these sources of energy have an impact on those	Wisconsin Standards for Family and Consumer	
systems	Sciences:	

	None	
Geochemical Cycles		
E.12.2 Analyze the geochemical and physical cycles of the earth and use them to describe movements of matter	National Standards for Family and Consumer Sciences: None	
	Wisconsin Standards for Family and Consumer Sciences: None	
The Origin and Evolution of the Earth System		
E.12.3: Using the science themes, describe theories of the origins and evolution of the universe and solar system,	National Standards for Family and Consumer Sciences: None	
including the earth system as a part of the solar system, and relate these theories and their implications to geologic time on earth	Wisconsin Standards for Family and Consumer Sciences:	
	None	
E.12.4 Analyze the benefits, costs, and limitations of past, present, and projected use of resources and technology and explain the consequences to the environment	National Standards for Family and Consumer Sciences: 4 Implement practical reasoning for responsible action in families, workplaces, and communities, (4.1 – 4.6)	
	Wisconsin Standards for Family and Consumer Sciences: Standard PAS1: Utilize the reasoning process, individually and collaboratively, to take responsible action in families, workplaces and communities, (PAS1:d)	
The Origin and Evolution of the Universe		
E.12.5 Using the science themes, understand that the origin of the universe is not completely understood, but that there are current ideas in science that attempt to	National Standards for Family and Consumer Sciences: None	
explain its origin	Wisconsin Standards for Family and Consumer Sciences: None	
F. LIFE AND ENVIRONMENTAL SCIENCE	FACS State and National Education Standards	Crosswalk of Local School Curriculum
Performance Standards		

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By the end of Grade 12 students will:	By the end of Grade 12 students will:	
The Cell		
F.12.1 Evaluate the normal structures and the general and special functions of cells in single-celled and multiple-celled organisms	National Standards for Family and Consumer Sciences: 8.2 Demonstrate food safety and sanitation procedures, (8.2.1 – 8.2.11) 9.2 Apply risk management procedures to food safety, food testing, and sanitation, (9.2.1 – 9.2.9) 14.4 Evaluate factors that affect food safety from	
	production through consumption, (14.4.1 – 14.4.6)  Wisconsin Standards for Family and Consumer Sciences: Standard FPS1: Integrated knowledge, skills and practices required for career in food production and services, (FPS1:b) Standard FSDN1: Integrate the knowledge, skills and practices required for careers in food science, food technology, dietetics and nutrition (FSDN:b)	
F.12.2 Understand how cells differentiate and how cells are regulated	National Standards for Family and Consumer Sciences: None Wisconsin Standards for Family and Consumer Sciences:: None	
The Molecular Basis of Heredity  F.12.3 Explain current scientific ideas and information about the molecular and genetic basis of heredity	National Standards for Family and Consumer Sciences: None Wisconsin Standards for Family and Consumer Sciences:: None	
F.12.4 State the relationships between functions of the cell and functions of the organism as related to genetics and heredity	National Standards for Family and Consumer Sciences: None	

	Wisconsin Standards for Family and Consumer Sciences: None	
Biological Evolution	Tronc	
F.12.5 Understand the theory of evolution, natural selection, and biological classification	National Standards for Family and Consumer Sciences: None	
	Wisconsin Standards for Family and Consumer Sciences:: None	
F.12.6 Using concepts of evolution and heredity, account for changes in species and the diversity of species, include the influence of these changes on science, e.g., breeding of plants or animals	National Standards for Family and Consumer Sciences: 14.1 Analyze factors that influence nutrition and wellness practices across the life span, (14.1.1 – 14.1.5)	
	Wisconsin Standards for Family and Consumer Sciences:: None	
The Interdependence of Organisms		
F.12.7 Investigate how organisms both cooperate and compete in ecosystems	National Standards for Family and Consumer Sciences: None	
	Wisconsin Standards for Family and Consumer Sciences:: None	
F.12.8 Using the science themes, infer changes in ecosystems prompted by the introduction of new species, environmental conditions, chemicals, and air, water, or	National Standards for Family and Consumer Sciences: None	
earth pollution	Wisconsin Standards for Family and Consumer Sciences:: None	
Matter, Energy, and Organization in Living Systems		
F.12.9 Using the science themes, investigate energy systems (related to food chains) to show how energy is stored in food (plants and animals) and how energy is	National Standards for Family and Consumer Sciences: None	

released by digestion and metabolism	Wisconsin Standards for Family and Consumer	
	Sciences::	
	None	
F.12.10 Understand the impact of energy on organisms in	National Standards for Family and Consumer Sciences:	
living systems	14.1 Analyze factors that influence nutrition and wellness	
	practices across the life span, (14.1.1 – 14.1.5)	
	Wisconsin Standards for Family and Consumer	
	Sciences:	
	Standard NW1: Demonstrate nutrition and wellness	
	practices that enhance individual and family well-being	
	(NW1:a)	
F.12.11 Investigate how the complexity and organization	National Standards for Family and Consumer Sciences:	
of organisms accommodates the need for obtaining,	None	
transforming, transporting, releasing, and eliminating the matter and energy used to sustain an organism	Wisconsin Standards for Family and Consumer	
matter and energy used to sustain an organism	Sciences::	
	None	
The Behavior of Organisms	TVOIC	
F.12.12 Trace how the sensory and nervous systems of	National Standards for Family and Consumer Sciences:	
various organisms react to the internal and external	None	
environment and transmit survival or learning stimuli to	Tione	
cause changes in behavior or responses	Wisconsin Standards for Family and Consumer	
	Sciences::	
	None	
G. SCIENCE APPLICATIONS	FACS State and National Education Standards	Crosswalk of Local School Curriculum
Performance Standards		
By the end of Grade 12 students will:	By the end of Grade 12 students will:	
G.12.1 Identify personal interests in science and	National Standards for Family and Consumer Sciences:	
technology; account for implications that these interests	1.1 Analyze strategies to manage multiple roles and	
might have for future education, and options to be	responsibilities (individual, family, career, community,	
considered	and global), $(1.1.1 - 1.1.6)$	
	1.2 Demonstrate transferable and employability skills in	

	school, community, and workplace settings, (1.2.1 – 1.2.8) 1.3 Evaluate the reciprocal effects of individual and family participation in community activites, (1.3.1 – 1.3.6) 8.1 Analyze career paths within the food production and food services industries, (8.1.1 – 8.1.6) 9.1 Analyze careers paths within food science, food technology, dietetics, and nutrition industries, (9.1.1 – 9.1.6)  Wisconsin Standards for Family and Consumer Sciences: Standard CCLC1: Integrate multiple life role and	
	responsibilities in family, work and community settings (CCLC1:a; CCLC1:b: CCLC1:c)	
G.12.2 Design, build, evaluate, and revise models and explanations related to the earth and space, life and environmental, and physical sciences	National Standards for Family and Consumer Sciences:  1 Evaluate reasoning for self and others, (1.1 – 1.1.4)	
	Wisconsin Standards for Family and Consumer Sciences: Standard PAS1: Utilize the reasoning process, individually and collaboratively, to take responsible action in families, workplaces and communities, (PAS1:a)	
G.12.3 Analyze the costs, benefits, or problems resulting from a scientific or technological innovation, including implications for the individual and the community	National Standards for Family and Consumer Sciences:  2 Analyze recurring and evolving family, workplace, and community concerns, (2.1 – 2.4)  3 Analyze practical reasoning components, (3.1 – 3.6)  4 Implement practical reasoning for responsible action in families, workplaces, and communities, (4.1 – 4.6)  14.5 Evaluate the influence of science and technology on food composition, safety, and other issues, (14.5.1 – 14.5.4)	

#### Crosswalk Between: Wisconsin's Model Academic Standards for Science and Wisconsin's Model Academic Standards for Family and Consumer Education and National Standards for Family and Consumer Sciences

The state standards can be downloaded at <a href="http://dpi.wi.gov/fcs/standards">http://dpi.wi.gov/fcs/standards</a> and the national standards are found at <a href="http://www.nasafacs.org/national-standards-overview.html">http://www.nasafacs.org/national-standards-overview.html</a>

	Wisconsin Standards for Family and Consumer Sciences: Standard PAS1: Utilize the reasoning process, individually and collaboratively, to take responsible action in families, workplaces and communities, PAS1:b;	
	PAS1:c; PAS1:d)	
G.12.4 Show how a major scientific or technological change has had an impact on work, leisure, or the home	National Standards for Family and Consumer Sciences:  2 Analyze recurring and evolving family, workplace, and community concerns, (2.1 – 2.4)  9.5 Demonstrate use of current technology in food product development and marketing, (9.5.1 – 9.5.7)  14.5 Evaluate the influence of science and technology on food composition, safety, and other issues, (14.5.1 – 14.5.4)	
	Wisconsin Standards for Family and Consumer Sciences: Standard PAS1: Utilize the reasoning process, individually and collaboratively, to take responsible action in families, workplaces and communities, (PAS1:b) Standard FSDN1: Integrate the knowledge, skills and practices required for careers in food technology, dietetics and nutrition, (FSDN1:e) Standard NW1: Demonstrate nutrition and wellness practices that enhance individual and family well-being, (NW1:2)	
G.12.5 Choose a specific problem in our society, identify alternative scientific or technological solutions to that problem and argue its merits	National Standards for Family and Consumer Sciences:  2 Analyze recurring and evolving family, workplace, and community concerns, (2.1 – 2.4)  3 Analyze practical reasoning components, (3.1 – 3.6)  4 Implement practical reasoning for responsible action in families, workplaces, and communities (4.1 – 4.6)	

	5 Demonstrate scientific inquiry and reasoning to gain	
	factual knowledge and test theories on which to base	
	judgments for action, $(5.1 5.6)$	
	9.4 Apply basic concepts of nutrition and nutritional	
	therapy in a variey of settings, $(9.4.1 - 9.4.6)$	
	14.2 Evaluate the nutritional needs of individuals and	
	families in relation to health and wellness across the life	
	span, (14.2.1 – 14.2.4)	
	Wisconsin Standards for Family and Consumer	
	Sciences:	
	Standard PAS1: Utilize the reasoning process,	
	individually and collaboratively, to take responsible action	
	in families, workplaces and communities, (PAS1:b;	
	PAS1:c; PAS1:d; PAS1:e)	
	Standard FSDN1: Integrate the knowledge, skills and	
	practices required for careers in food science, food	
	technology, dietetics and nutrition, (FSDN1:d)	
	Standard NW1: Demonstrate nutrition and wellness	
	practices that enhance individual and family well-being,	
	(NW1:a)	
H. SCIENCE IN SOCIAL AND PERSONAL		
PERSPECTIVES	FACS State and National Education Standards	Crosswalk of Local School Curriculum
Performance Standards		
By the end of Grade 12 students will:	By the end of Grade 12 students will::	
H.12.1 Using the science themes and knowledge of the	National Standards for Family and Consumer Sciences:	
earth and space, life and environmental, and physical	3.4 Analyze resource consumption for conservation and	
sciences, analyze the costs, risks, benefits, and	waste management practices, $(3.4.1 - 3.4.5)$	
consequences of a proposal concerning resource		
management in the community and determine the potential	Wisconsin Standards for Family and Consumer	
impact of the proposal on life in the community and the	Sciences:	
region	Standard CS1: Integrate knowledge, skills and practices	
	needed for a career in consumer services, (CS1:d)	

H.12.2 Evaluate proposed policy recommendations (local, state, and/or national) in science and technology for validity, evidence, reasoning, and implications, both short and long term	National Standards for Family and Consumer Sciences: 14.4 Evaluate factors that affect food safety from production to consumption, (14.4.1 – 14.4.6) 14.5 Evaluate the influence of science and technology on food composition, safety, and other issues, (14.5.1 – 14.5.4)	
	Wisconsin Standards for Family and Consumer Sciences:: Standard NW1: Demonstrate nutrition and wellness practices that enhance individual and family well-being, (NW1:d; NW1:e)	
H.12.3 Show how policy decisions in science depend on many factors, including social values, ethics, beliefs, and time-frames, and considerations of science and technology	National Standards for Family and Consumer Sciences: 14.4 Evaluate factors that affect food safety from production through consumption, (14.4.1 – 14.4.6)  Wisconsin Standards for Family and Consumer Sciences: Standard NW1: Demonstrate nutrition and wellness practices that enhance individual and family well-being, (NW1:d)	

H.12.4 Advocate a solution or combination of solutions to a problem in science or technology	National Standards for Family and Consumer Sciences: 9.3 Evaluate nutrition principles, food plans, preparation techniques, and specialized dietary plans, (9.3.1 – 9.3.7) 9.5 Demonstrate use of current technology in food product development and marketing, (9.5.1 – 9.5.7) 9.6 Demonstrate food science, dietetics, and nutrition management principles and practices, (9.6.1 – 9.6.9)	
	Wisconsin Standards for Family and Consumer Sciences::	
	Standard FSDN1: Integrate the knowledge, skill and	
	practices required for careers in food science, food	
	technology, dietetics and nutrition, (FSDN1:c; FSDN1:e; FSDN1:f)	
H.12.5 Investigate how current plans or proposals concerning resource management, scientific knowledge, or technological development will have an impact on the environment, ecology, and quality of life in a community or region	National Standards for Family and Consumer Sciences:  2.2 Analyze the relationship of the environment to family and consumer resources, (2.2.1 – 2.2.4)  2.3 Analyze policies that support consumer rights and responsibilities, (2.3.1 – 2.3.3)  3.4 Analyze resource consumption for conservation and waste management practices, (3.4.1 – 3.4.5)  Wisconsin Standards for Family and Consumer	
	Sciences:	
	Standard CFR1: Evaluate management practices related to the human, economic and environmental resources, (CFR1:b; CFR1:c)	
H.12.6 Evaluate data and sources of information when	National Standards for Family and Consumer Sciences:	
using scientific information to make decisions	9.3 Evaluate nutrition principles, food plans, preparation techniques, and specialized dietary plans, (9.3.1 – 9.3.7)	
	14.1 Analyze factors that influence nutrition and wellness	
	practices across the life span, (14.1.1 – 14.1.5)	
	14.2 Evaluate the nutritional needs of individuals and	

	families in relation to health and wellness across the life span, (14.2.1 – 14.2.4) 14.4 Evaluate factors that affect food safety from production through consumption, (14.4.1 – 14.4.6) 14.5 Evaluate the influence of science and technology on food composition, safety, and other issues, (14,5,1 – 14.5.4)	
	Wisconsin Standards for Family and Consumer Sciences: Standard FSDN1: Integrate the knowledge, skills and practices required for careers in food science, food technology, dietetics and nutrition, (FSDN1:c) Standard NW1: Demonstrate nutrition and wellness practices that enhance individual and family well-being, (NW1:a; NW1:b; NW1:d; NW1:e)	
H.12.7 When making decisions, construct a plan that includes the use of current scientific knowledge and scientific reasoning	National Standards for Family and Consumer Sciences 5 Demonstrate scientific inquiry and reasoning to gain factual knowledge and test theories on which to base judgments for action (5.1 – 5.6) 9.3 Evaluate nutrition principles, food plans, preparation techniques, and specialized dietary plans, (9.3.1 – 9.3.7) 9.4 Apply basic concepts of nutrition and nutritional therapy in a variety of settings, (9.4.1 – 9.4.6) 9.6 Demonstrate food science, dietetics, and nutrition management principles and practices, (9.6.1 -9.6.9)	
	Wisconsin Standards for Family and Consumer Sciences: Standard PAS1: Utilize the reasoning process, individually and collaboratively, to take responsible action in families, workplaces and communities, (PAS1:e) Standard FSDN1: Integrate the knowledge, skills and	

practices required for careers in food science, food	
technology, dietetics and nutrition, (FSDN1:c; FSDN1:d;	
FSDN1:f)	