Agriculture, Food and Natural Resources

Foundation

Code	Topic	Course	Knowledge and Skill	Performance Element	Measurement Criteria
AGC01.01	Academic Foundations	Academic Courses #1: Introduction to Agriculture, Food and Natural Resources .	Achieve specific academic knowledge and skills required to pursue the full range of career and post-secondary education opportunities within the Agriculture, Food and Natural Resources (AFNR) field.	Pass certification tests to meet state academic standards and qualify for selected fields of study.	Achieve an acceptable score on the State tests.
					Explain what types of skills or knowledge are necessary to work in a specific field of study.
					Know what type of degree or certification is required to enter a desired job/career.
				Be proficient in using a variety of resources for both research and development.	Conduct informational searches.
					Define what types of resources are appropriate for locating scholarly and academic information.
					Analyze materials to determine their value for research and development areas.
AGC02.01	Communications	Language Arts Courses	Use oral and written communication skills in creating, expressing and interpreting information and ideas including technical terminology and information within AFNR.	Develop good reading skills to enable reading of technical materials with understanding and fluency.	Comprehend a broad range of reading materials containing technical concepts, knowledge and vocabulary to better process written and electronic information.
					Use reading strategies (e.g., word analysis) to expand understanding and fluency.
					Locate, organize and reference written information from various sources (books, journals, magazines, Internet) to answer questions, solve problems, and develop written and oral communication.

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			(CONTINUED)	Compose written material to present technical information.	Compose multi-paragraph writing containing technical concepts, knowledge and vocabulary to complete an effective document.
					Develop and incorporate tables, charts, graphs and figures to support written and oral communications.
					Use information technology to design, produce and present written and multimedia materials.
				Listen effectively to learn in both formal and informal situations.	Appreciate personality preferences to achieve full meaning in processing and sharing information.
					Recognize the meanings of posturing to interpret nonverbal communications and messages.
					Apply active listening skills to obtain information and clarify oral communications.
				Develop speaking skills to present information orally in formal and informal situations.	Access a broad range of technical concepts, knowledge and vocabulary to develop and deliver formal presentations and to use in informal discussions.
					Apply human relations skills to contribute effectively to group discussions and meetings.
				Write clearly to communicate written ideas, results and questions to all types of people.	Write with effective language to produce written communications for journals, newsletters, or other informative articles.
					Explain aspects of the industry to people not involved in it, and discuss its components.
				Know how to orally communicate clearly and effectively to have dialogue with members of an example career field.	Monitor different kinds of behavior in order to improve communication.
					Prepare presentations to explain issues of concern to the industry to both large groups and individuals.
					Discuss aspects of the industry competently for an audience of both professionals and people not involved in the industry.

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AGC02.02	Communications	Language Arts Courses	Employ technical communications effectively to maintain good records and reporting procedures.	Use technical communications to document work and processes.	Record technical information.
					Compose technical reports.
					Communicate documentation to others.
AGC03.01	Problem Solving and Critical Thinking	#1: Introduction to Agriculture, Food and Natural Resources #2: Introduction to Power, Structural and Technical Systems #2: Introduction to Environmental Service Systems #2: Introduction to Agricultural Marketing, Business and Entrepreneurship #2: Introduction to Plant and Soil Science #2: Introduction to Animal Science #2: Introduction to Natural Resources and the Environment #2: Introduction to Food Products and Processing Systems	Solve problems using critical thinking skills (e.g., analyze, synthesize and evaluate) independently and in teams.	Formulate and evaluate ideas, proposals and solutions to address problems.	Formulate ideas and proposals to solve problems.
					Analyze and evaluate ideas, proposals and solutions to manage a variety of problems.
				Use structured problem-solving methods to improve the performance of organizational and technological systems.	Use a structured problem-solving process to develop solutions to performance problems.
				Analyze information critically and judiciously to ascertain its value to whatever discipline it is applied.	Explain how to analyze, synthesize and evaluate information and apply its implications to a variety of avenues.
					Assess problem solutions to determine their appropriateness and efficiency.
				Synthesize elements in a problem to come up with a creative solution.	Break large problems down into smaller ones to solve them individually.
					Recognize problems to control or solve them as efficiently as possible.

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AGC03.02	Problem Solving and Critical Thinking	#1: Introduction to Agriculture, Food and Natural Resources #2: Introduction to Power, Structural and Technical Systems #2: Introduction to Environmental Service Systems #2: Introduction to Agricultural Marketing, Business and Entrepreneurship #2: Introductionn to Plant and Soil Science #2: Introduction to Animal Science #2: Introduction to Natural Resources and the Environment #2: Introduction to Food Products and Processing Systems	Access suitable resources to identify public policies, issues and regulations impacting AFNR management.	Review regulations and major laws to evaluate their impact on AFNR management.	Describe the major impacts of the AFNR acts.
					Describe the major regulations impacting the management of an individual resource.
					Identify situations that violate regulations.
				Read appropriate written material to stay abreast of current issues impacting AFNR management.	Identify significant issues that impact work assignment.
				Gather public input for AFNR management decision-making.	Conduct a local survey of public perceptions and desires concerning AFNR issues.
				Use critical thinking skills to identify, organize alternatives, and evaluate public policy issues related to AFNR.	Identify alternatives to an issue's potential solution.
					Evaluate alternatives for strengths and weaknesses.
					Recommend a solution based on research and analysis.

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AGC04.01	Information Technology Applications	#1: Introduction to Agriculture, Food and Natural Resources	Use information technology tools specific to AFNR to access, manage, integrate and create information.	Use Personal Information Management (PIM)/productivity applications.	Manage personal schedule and contact information.
					Create memos and notes.
				Use electronic mail applications.	Understand and identify the functions and purpose of e-mail systems.
					Use e-mail to communicate within and across organizations.
				Use Internet applications.	Search for and access information.
				Use writing/publishing applications.	Prepare simple reports and other business communications.
					Prepare complex reports and other business communications, integrating graphics and other non-text elements.
				Use presentation applications.	Prepare and deliver presentations for training, sales and information sharing.
				Use spreadsheet applications.	Perform calculations and analysis on data.
				Use database applications.	Manage, analyze and report on interrelated data elements.
				Use collaborative/groupware applications.	Facilitate group work through management of shared schedule and contact information.
					Facilitate group work through management of shared files and online information.
				Use Geographic Information System/Global Positioning System (GIS/GPS) applications.	Create maps.
					Locate people or things.
					Identify best route for travel.
				Use computer operations applications.	Manage computer operations.
					Manage file storage.
					Compress or alter files.
				Use computer-based equipment (containing embedded computers [or processors] used to control electromechanical devices).	Operate computer-driven equipment and machines.
					Use installation and operation manuals.
					Troubleshoot computer-driven equipment and machines and access support as needed.

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AGC05.01	Systems	#1: Introduction to Agriculture, Food and Natural Resources	Understand roles within teams, work units, departments, organizations, interorganizational systems, and the larger environment.	Examine company performance and goals to appreciate AFNR organizations and the AFNR industry.	Examine the role and major functions of AFNR organizations to better utilize AFNR guidelines.
					Explain the major guidelines used by AFNR organizations to manage and improve performance.
					Examine economic, social and technological changes to spotlight their impact on AFNR organizations and the industry.
					Explain technological changes to reveal their impact on information technology and transportation.
AGC05.02	Systems	#1: Introduction to Agriculture, Food and Natural Resources	Identify how key organizational systems affect organizational performance and the quality of products and services.	Manage and improve organizational systems to better serve customers.	Evaluate customer needs to manage relationships with both internal and external customers.
					Develop and manage plans and budgets to accomplish organizational goals and objectives.
					Develop plans to improve organizational performance including customer satisfaction and service/operations performance.
					Develop plans to maintain compliance with organizational policies and government laws and regulations.
				Know the components of each agricultural, natural resource, and environmental system to address their maintenance requirements.	Develop management plans to improve the agricultural and natural resource systems.
					Determine goals and objectives for each system to manage organizational activities more effectively.
					Prepare and operate systems and technical tools to access, manage, integrate, evaluate and create information.
				Research geographical data to recognize the types of systems used in various geographical areas.	Evaluate the effects of implementing practices to advance a system.
					Explore multi-area trends to explain how systems differ across geographical areas.

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AGC06.01	Safety, Health, and Environmental	#2: Introduction to Power, Structural and Technical Systems #2: Introduction to Environmental Service Systems #2: Introduction to Agricultural Marketing, Business and Entrepreneurship #2: Introduction to Plant and Soil Science #2: Introduction to Animal Science #2: Introduction to Natural Resources and the Environment #2: Introduction to Food Products and Processing Systems	Understand the importance of health, safety, and environmental management systems in organizations and their importance to organizational performance and regulatory compliance.	Examine required regulations to maintain/improve safety, health and environmental management systems.	Study appropriate resources to identify the major regulatory areas (e.g., personal protective equipment) and government laws and regulations.
					Examine the major system components to realize benefits of health, safety and environmental management systems in AFNR organizations.
					Measure or estimate benefits to explain how government agencies promote compliance and improved health, safety and environmental performance to AFNR organizations.
					Examine logistics, distribution and transportation organizations to explain how AFNR organizations promote improved health, safety and environmental performance.
				Develop a plan to maintain and improve health, safety and environmental compliance and performance.	Make a personal commitment to safety, health and environmental policies and procedures.
					Develop plans to improve health, safety and environmental performance.
					Educate and orient other workers.

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			(CONTINUED)	Stress the importance of safety, health and environmental responsiblities in the workplace to provide operating guidelines.	Establish a set of safety, health and environmental principles to ensure a high level of performance.
					Develop a pollution/waste prevention plan to contribute to the total productivity improvement.
				Examine health risks associated with a particular skill to better form personnel safety guidelines.	Define what level of possible contamination or injury is considered a risk in order to set safety priorities.
					Assess mental andd physical stresses to determine all aspects necessary to perform well and what health risks are associated with both the mental and physical aspects.
AGC06.02	Safety, Health, and Environmental	#1: Introduction to Agriculture, Food and Natural Resources	Identify health goals and safety procedures for AFNR occupations.	Apply safety/health precautions to participation in natural resource projects.	Wear personal protective equipment.
					Demonstrate how to avoid placing oneself in hazardous work situations.
				Demonstrate recognized first aid knowledge and procedures to show how they are used by natural resource industries.	Complete recognized industry-level first aid training program.
				Identify health/safety policies and procedures for natural resource occupations.	Participate in safety meetings.
					Describe the health and safety policies and procedures relevant to the worksite and assignment.

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AGC06.03	Safety, Health, and Environmental	#1: Introduction to Agriculture, Food and Natural Resources	Demonstrate appropriate health and safety procedures for AFNR occupations.	Develop response plans to handle emergencies.	Identify various emergency response plan requirements for a facility.
					Develop an emergency response plan for natural disasters.
				Identify hazards and acquire first aid skills to promote environmental safety.	Identify general workplace safety hazards.
					Apply general workplace safety precautions/procedures.
					Acquire and maintain first aid certification.
					Acquire and maintain cardiopulmonary resuscitation (CPR) certification.
					Respond to medical emergencies.
					Explain purpose of pollution control systems.
					Describe procedures to comply with environmental regulations.
					Maintain environmental health and safety facilities.
					Handle chemicals and safety equipment appropriately.
					Explain ergonomic procedures.
					Assess workplace safety.
					Assess a safety-training plan.
					Observe all regulatory and safety standards.

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AGC07.01	Leadership and Teamwork	#1: Introduction to Agriculture, Food and Natural Resources	Use leadership skills in collaborating with others to accomplish organizational goals and objectives.	Embrace empowerment, risk, communication, focusing on results, decision-making, problem-solving, investment in individuals, and resource use and access to develop premier leadership.	Work independently and in group settings to accomplish organizational goals and objectives.
					Focus on results.
					Plan effectively.
					Identify and use resources.
					Communicate effectively with others.
					Take risks to accomplish organizational goals and objectives.
					Invest in others by enabling and empowering them.
					Learn from mistakes and deal with setbacks.
					Evaluate and reflect on action taken (i.e., make appropriate improvements).
				Embrace compassion, service, listening, coaching, developing others, team development, and understanding and appreciating others to develop premier leadership.	Practice the human relations skills of compassion, empathy, unselfishness, trustworthiness, reliability and listening.
					Interact and work with others.
					Develop others.
					Eliminate barriers in building relationships.
					Participate effectively as a team member.
					Understand, accept, and appreciate others and their contributions.
					Practice servant leadership.
				Embrace enthusiasm, creativity, the future, conviction, mission, courage, concept, focus, principles and change to develop premier leadership.	Contemplate the future.
					Persuade others to commit.
					Demonstrate courage to take risks.
					Live by personal mission.
					Act as an agent of change.
					Adapt to opportunities and obstacles.
					Conceptualize ideas.

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			(CONTINUED)	Embrace integrity, courage, values, ethics, humility, perseverance, self-discipline, and responsibility to develop premier leadership.	Demonstrate virtuous behavior.
					Assess own values accurately.
					Live with integrity.
					Practice self-discipline.
					Respect others.
					Accept diversity of ideas and opinions.
					Accept responsibility for personal actions.
					Value service to others.
				Cultivate self, community, diversity, environment, and global awareness and knowledge to develop premier leadership.	Participate in issues important to the community.
					Perform leadership tasks associated with citizenship.
					Apply knowledge gained from a study of trends and issues.
					Study local, state, national and global issues.
					Participate in activities that promote acceptance of diversity.
					Use assessment tools to gain knowledge of oneself.
				Embrace innovation, intuition, adaptation, life-long learning and coachability to develop premier leadership.	Implement a leadership and personal growth plan.
					Seek counsel from others.
					Use innovative problem-solving strategies.
					Adapt to emerging technologies.
					Evaluate personal growth plans on a continual basis.
					Implement a plan for acquiring new knowledge.

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AGC07.02	Leadership and Teamwork	#1: Introduction to Agriculture, Food and Natural Resources	Use personal growth skills in collaborating with others to accomplish organizational goals and objectives.	Embrace attitude, exercise, goal-setting, planning, self-discipline, sense of balance, persistence, and respect to develop personal growth.	Practice healthy eating habits.
					Respect one's own body.
					Participate in a fitness program.
					Set goals for long-term health.
					Discipline self to lead an active, healthy life.
				Embrace friendship, integrity, morals, values, etiquette, citizenship, cross-cultural awareness, acceptance/change, and respect for differences to develop personal growth.	Accept those different from self.
					Use proper social graces.
					Communicate effectively in groups.
					Relate to people across generations.
					Develop friendships.
					Maintain long-term relationships.
					See self in a positive way.
					Cope with life's trials.
				Embrace goal-setting, planning, decision-making, principles, respect, attitude, dependability, loyalty, trustworthiness and communication to develop personal growth.	Plan and implement professional goals and set priorities.
					Make clear decisions in one's professional life.
					Demonstrate professional ethics.
					Communicate clearly.
					Balance professional and personal responsibilities.
					Demonstrate exemplary employability skills.
				Embrace learning, critical thinking, reasoning, creative thinking, attitude, dependability, decision-making and problem-solving to develop personal growth.	Think critically.
					Think creatively.
					Practice sound decision-making.
					Solve problems.
					Commit to life-long learning.
					Articulate opinions to persuade others.
					Practice sound study skills.
					Maximize mental assets and compensate for mental limitations.

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Code	Topic	Course	Knowledge and Skill	Performance Element	Measurement Criteria
			(CONTINUED)	Embrace attitude, self-discovery, coping, friendship, self-reliance, sense of balance, empathy, compassion, and integrity to develop personal growth.	Demonstrate coping skills.
					Live a compassionate and selfless life.
					Develop self-assurance and confidence.
					Embrace the maturation process.
					Establish emotional integrity.
					Seek appropriate counsel.
					Know emotional self.
				Embrace ethics, coping, courage, attitude, self-image/worth, values, principles and sense of balance to develop personal growth.	Be respectful and sensitive of others' beliefs.
					Lead a principle-centered life based on values.
					Value yourself and others.
					Practice self-reflection.
					Discover and nurture a belief system.

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AGC08.01	Ethics and Legal Responsibilities	#1: Introduction to Agriculture, Food and Natural Resources	Know and understand the importance of professional ethics and legal responsibilities.	Apply knowledge of professional and workplace ethics and legal responsibilities to organize guidelines for workplace conduct.	Demonstrate awareness of legal responsibilities for different roles and functions within organizations.
					Access appropriate references to recognize differences in ethical and legal responsibilities.
				Apply ethical and legal reasoning to workplace situations.	Apply ethical reasoning to different workplace situations.
					Identify strategies for responding to unethical or illegal actions of individuals and organizations.
				Review appropriate resources to identify national and international rules associated with a desired career.	Research local, state, and national sources to identify the legal bodies that regulate the desired career.
					Research library and Internet sources to find national and international regulations that affect day-to-day operations in a desired career area.
				Identify what ethical issues and concerns affect a desired career field to assist in making career decisions.	Observe ethical behavior in the workplace to appreciate the integral role it plays in all business.
					Discuss ethical responsibilities in the workplace to establish guidelines for personnel/client relationships.
AGC08.02	Ethics and Legal Responsibilities	#1: Introduction to Agriculture, Food and Natural Resources	Demonstrate workplace ethics specific to AFNR occupations.	Evidence interest and concern to demonstrate natural resource stewardship and ethics.	Explain how personal choices are related to natural resource sustainability.
				Exercise personal habits and actions to demonstrate workplace ethics.	Explain how personal workplace actions can affect the resource.

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AGC09.01	Employability and Career Development	#1: Introduction to Agriculture, Food and Natural Resources	Know and understand the importance of employability skills.	Apply critical thinking skills and decision-making to exhibit qualifications for entering a career.	Explain written organizational policies, rules and procedures to guide employees in workplace behavior.
					Identify and demonstrate positive work behaviors and personal qualities required to uphold quality standards.
					Relate critical thinking skills in workplace situations to decision-making, creativity and quality performance.
				Identify career opportunities to help develop career plans.	Identify and explore career opportunities in one or more career pathways to discover
					Develop career plans for career opportunities.
AGC09.02	Employability and Career Development	#1: Introduction to Agriculture, Food and Natural Resources	Explore, plan and effectively manage personal career options.	Manage employment relations to search for and land a job.	Seek, apply for, and accept employment to begin career objectives.
					Evaluate and compare employment opportunities to find the best job available based on sensible expectations.
				Know the standards and qualifications that must be met in order to enter a given industry.	Discuss employability in a given industry and factors that affect it in order to evaluate salaries and opportunities.
					Organize an educational plan to acquire the skills needed in order to join an industry of choice.
				Understand how advancement and the promotional ladder work within an industry to plan career objectives.	Determine the chain of command for a particular industry to evaluate your personal skills and potential.
					Explain what projects need to be accomplished or what skills need to be acquired to gain a promotion.

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AGC10.01	Technical Skills	#2: Introduction to Power, Structural and Technical Systems #2: Introduction to Environmental Service Systems #2: Introduction to Agricultural Marketing, Business and Entrepreneurship #2: Introduction to Plant and Soil Science #2: Introduction to Animal Science #2: Introduction to Natural Resources and the Environment #2: Introduction to Food Products and Processing Systems	Use the technical knowledge and skills required to pursue the full range of careers for all AFNR pathways, including knowledge of design, operation, and maintenance of technological systems critical to AFNR careers.	Use technological systems to accomplish objectives in transportation.	Evaluate transportation needs to explain the role and function of critical transportation-related technological systems.
					Measure and manage the reliability and performance of technological systems to establish use and maintenance guidelines.
					Manage major health, safety and environmental risks to minimize their potential impact on technological systems.
				Select and improve utilization of technological systems to improve production and products.	Develop acceptable criteria to evaluate and select technological systems.
					Participate in efforts to improve the utilization and performance of technological systems.
				Identify technical skills needed to run an industry efficiently.	Identify types of skills needed to succeed in a desired industry.
					Explore methods available to develop technical skills.
					Correctly operate the tools associated with a specific skill.
				Establish criteria to identify areas that have special needs for technical skills.	Classify workplace occupations to determine what types of skills are considered technical skills.
					Evaluate processes and products to determine what areas most often use technical skills.

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AGC10.02	Technical Skills	#2: Introduction to Power, Structural and Technical Systems #2: Introduction to Environmental Service Systems #2: Introduction to Agricultural Marketing, Business and Entrepreneurship #2: Introduction to Plant and Soil Science #2: Introduction to Animal Science #2: Introduction to Natural Resources and the Environment #2: Introduction to Food Products and Processing Systems	Use tools, equipment, machinery and technology to work in areas related to AFNR.	Select the appropriate tool to perform a given task.	Select tools and equipment.
					Identify standard tools, equipment, and safety procedures.
					Follow operating instructions.
					Set up/adjust tools and equipment.
					Maintain tools.
					Store tools.
				Keep natural resource tools in good working order for efficient work use.	Demonstrate how to check tool condition before use.
					Describe the characteristics of a tool in need of maintenance.
					Demonstrate how to replace tool parts and components as needed.
				Wear protective equipment and handle natural resource tools and equipment with skill to demonstrate safe use of tools and equipment.	Wear appropriate personal protective equipment (PPE).
					Demonstrate proper spacing distance from others when using tools.
					Check tools for safety before using.
					Store tools with appropriate safety precautions.
					Demonstrate the proper usage of a tool or piece of equipment.
					Describe regulations for the use of tools and equipment.

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			(CONTINUED)	Use tools and assisting devices to demonstrate the use of technology to expand human capacity for natural resource tasks.	Use appropriate tools to assist in lifting and moving.
					Demonstrate use of knots, ropes, lines and attachments.
					Use geo-spatial and mapping techniques (GIS/GPS).
				Select the appropriate tool to accomplish a given task.	Demonstrate the ability to select the appropriate tool to complete the work assignment.
				Maintain tools for efficient work use.	Demonstrate how to check tool condition before use.
					Describe the characteristics of a tool in need of maintenance.
					Demonstrate how to replace tool parts and components as needed.
					Maintain a preventive maintenance schedule.
					Maintain equipment according to owner's manual specifications.
					Maintain and repair pump.
				Wear protective equipment and observe safety and operational guidelines to use tools and equipment effectively.	Wear appropriate personal protective equipment (PPE).
					Check tools for safety before using.
					Store tools with appropriate safety precautions.
					Describe regulations for the use of tools and equipment.
					Safely and properly operate vehicles (pickup trucks, four-wheel-drive vehicles, tractors, vehicles with attachments, rig-up trucks, graders, backhoe tractors, front-end loaders, excavators, scrappers, cranes, watercraft).
					Safely and properly operate applicable pumps (diesel and gas engines, centrifugal pumps, positive displacement pumps, air and gas compressors).
					Safely and properly operate applicable miscellaneous equipment (hoists, winches, pulleys, boilers and associated equipment, drilling equipment).
					Safely and properly operate applicable electronic equipment (electrical distribution systems, electronic survey equipment, generators).

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AGC10.03	Technical Skills	#2: Introduction to Power, Structural and Technical Systems #2: Introduction to Environmental Service Systems #2: Introduction to Agricultural Marketing, Business and Entrepreneurship #2: Introduction to Plant and Soil Science #2: Introduction to Animal Science #2: Introduction to Natural Resources and the Environment #2: Introduction to Food Products and Processing Systems	Compare and contrast issues affecting the AFNR industry, such as biotechnology, employment, safety, environmental, and animal welfare.	Determine, analyze and present solutions for different environmental issues.	Identify issues affecting the industry.
					Research history and policies related to the issue.
					Identify conflicting points of view.
					Determine effects of the issue on the industry.
					Determine potential resolutions to the issue.
				Learn economic principles in order to apply them to natural resource systems (i.e., supply, demand and profit).	Describe the effect of compound interest on natural resource investments.
					Describe the economic impacts of natural resource preservation vs. use of the resource.
					Describe the potential for entrepreneurial opportunities in natural resources.
					Describe the impacts of natural resource decisions on global markets and environmental health.
				Apply skills with computer software to accomplish a variety of business activities.	Demonstrate understanding of operating and design software systems (e.g., CAD, Windows).
					Discuss and use basic software such as spreadsheet and word processing.
					Show ability to perform software installation.
					Show ability to use diagnostic program.

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			(CONTINUED)	Access the Internet and use e-mail to demonstrate the ability to network and interface with technology.	Demonstrate general understanding of local area network.
					Navigate global Internet sites as a resource.
					Demonstrate skills in linking information from various sources.
					Show competency with e-mail and wireless communications.
AGC10.04	Technical Skills	#2: Introduction to Power, Structural and Technical Systems #2: Introduction to Environmental Service Systems #2: Introduction to Agricultural Marketing, Business and Entrepreneurship #2: Introduction to Plant and Soil Science #2: Introduction to Animal Science #2: Introduction to Natural Resources and the Environment #2: Introduction to Food Products and Processing Systems	Envision emerging technology and globalization to project its influence on widespread markets.	Examine new technologies to project their impact in the global market of technology.	Convert drawings from US Standard to metric.
					Identify ways that global regulations impact system designs.
					Identify and discuss use of new technologies (such as lasers and robotics) and their impact on agricultural systems.
					Discuss the importance of new communication systems and how they impact agricultural systems.
				Relate the advance of technology to the need for Continuing Education/Career Development.	Research and discuss emerging technologies and the skills they require.
					Discuss history of systems over the last century and discuss how emerging technology and career training will be essential to meet market demands.

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