# **AFNR Processing**



Learning. Leadership. Service	•
Career Cluster	Agriculture, Food and Natural Resources
Course Code	18302
Prerequisite(s)	Recommended: Introduction to AFNR
Credit	0.5 or 1.0 credit
Program of Study and	Food Science – AFNR Processing– Ag Biotechnology and/or capstone
Sequence	experience – Capstone Course
Student Organization	National FFA Organization
Coordinating Work-	Job shadowing, mentoring, internships, entrepreneurships, service
Based Learning	learning, workplace tours, apprenticeship, school-based enterprises,
	Supervised Agricultural Experience (SAE)
Industry Certifications	OSHA 10 Hour Safety Certification (General Industry), National
	Career Readiness Certificate (NCRC)
Dual Credit or Dual	https://sdmylife.com/images/Approved-CTE-Dual-Credit.pdf
Enrollment	
Teacher Certification	Agriculture Food and Natural Resources Cluster Endorsement; Food
	Products and Processing Pathway Endorsement; *Agriculture
	Education
Resources	

## **Course Description**

AFNR Processing highlights the raw commodity and its journey to consumer-ready, value-added products. Utilizing appropriate equipment, technology, mathematics, science, and English, may enhance classroom and laboratory content and human relations skills will be reinforced in the course. Example potential topics include, but are not limited to, food processing, non-food processing including value added and byproducts of wood, fiber, and fuel. Work-based learning strategies appropriate for this course are school-based enterprises, field trips and internships. Opportunities for application of clinical and leadership skills are provided by participation in FFA through activities, conferences, and skills competitions such as Career Development Event (CDE), Leadership Development Events and Agriscience Fair Research Projects. Each student will be expected to maintain a Supervised Agricultural Experience (SAE).

## **Program of Study Application**

Ag Processing Technology (Food and Fiber) is a second pathway course in the Agriculture, Food and Natural Resources cluster, Food Product and Processing Systems pathway. Ag Processing Technology (Food and Fiber) would follow Food Science and would prepare a student to participate in Ag Biotechnology or a capstone experience.

## **Course Standards**

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Webb Level	Sub-indicator
Two	ADPS 1.1 Demonstrate safe use and knowledge of tools and equipment used in
Skill/Concept	this area.
Two	ADPS 1.2 Demonstrate workplace/worksite safety procedures and protocols.
Skill/Concept	

#### AgP 1: Understand and use safe practices

#### AgP 2: Examine the makeup of the AFNR processing industries.

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Webb Level	Sub-indicator
Three	AgP 2.1 Investigate the evolution of the food and/or non-food processing
Strategic Thinking	industry.
Two	AgP 2.2 Discuss how safety is addressed in the AFNR processing industry.
Skill/Concept	
One	AgP 2.3 Explain how regulatory agencies in AFNR Processing industries work to
Recall	protect consumers.

#### AgP 3: Demonstrate operational procedures used in AFNR Processing industries.

Webb Level	Sub-indicator
Two	AgP 3.1 Explain regulatory procedures as they apply to AFNR processing.
Skill/Concept	
Two	AgP 3.2 Demonstrate worker safety procedures for AFNR processing equipment.
Skill/Concept	
Two	AgP 3.3 Explore advances in technology associated with AFNR processing
Skill/Concept	

#### AgP 4: Processes for AFNR product storage, distribution, and consumption/use.

Webb Level	Sub-indicator
One	AgP 4.1 Classify processed AFNR products.
Recall	
Two	AgP 4.2 Characterize industry harvesting, selection and inspection techniques.
Skill/Concept	
Two	AgP 4.3 Explain the steps involved with producing various AFNR products.
Skill/Concept	
Four	AgP 4.4 Process AFNR product safely.
Extended Thinking	

## AgP 5: Develop employability skills related to the Food Product and Processing Systems.

Webb Level	Sub-indicator
Two	AgP 5.1 Develop soft skills to enhance employability.
Skill/Concept	

AgP 6: Implement an individual project for career development through a Supervised Agriculture
Experience/Work based Experience.

Webb Level	Sub-indicator
Тwo	AgP 6.1 Develop an individual project plan with goals and timeline.
Skill/Concept	
Two	AgP 6.2 Explore opportunities within AFNR industries.
Skill/Concept	
Three	AgP 6.3 Apply concepts of financial management appropriate to agricultural
Strategic Thinking	projects and personal finances.
Three	AgP 6.4 Develop and document knowledge and skills to ensure workplace safety
Strategic Thinking	regarding personal health and environmental management.
Four	AgP 6.5 Research and analyze how public policy, laws, and advocacy impact
Extended Thinking	agricultural systems and agricultural literacy.