Colorado CTE

Agriculture Cluster (2015): Grades 9, 10, 11, 12, Higher Education

Adopted 2015

Industry of Agriculture and world food demands AGCL.01

01. **Understand and analyze the role of agriculture in determining the need for and supply of the world's food** AGCL.01.01
    a. Define the difference in food supply and food need AGCL.01.01.A
    b. Analyze global trends (population, societal, income, health, environmental) and the impact on food supply AGCL.01.01.B
    c. Relate trends of food supply and food need to theories of Thomas Malthus and the work of Norman Borlaug AGCL.01.01.C
    d. Analyze how technology has or can increase production capabilities AGCL.01.01.D

02. **Compare and contrast issues affecting the AFNR industry (including biotechnology food safety environmental and animal welfare)** AGCL.01.02
    a. Select solutions for different issues AGCL.01.02.A
    b. Analyze selected solutions for feasibility AGCL.01.02.B
    c. Present solutions determined most feasible AGCL.01.02.C

03. **Envision emerging technology and globalization and projects its influence on markets** AGCL.01.03
    a. Examine new technologies to project their impact on the AFNR industry AGCL.01.03.A
    b. Discuss the relationship between the advancement of technology and the need for continuing education and career development AGCL.01.03.B

Career Opportunities in the AFNR Cluster AGCL.02

01. **Identify and prepare for career opportunities in the AFNR cluster** AGCL.02.01
    a. Identify careers and explore advantages and disadvantages within the AFNR cluster AGCL.02.01.A
    b. Choose an agriculture career based upon your interest, skills and education necessary AGCL.02.01.B

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c. Develop and ICAP specific to agriculture (Individual Career and Academic Plan) AGCL.02.01.C

d. Review, and modify and implement agriculture ICAP AGCL.02.01.D

Integrate supervised agriculture experience into agriculture education AGCL.03

01. Define SAE and describe the purpose for the SAE program AGCL.03.01

a. Define the SAE and its role in agricultural education AGCL.03.01.A

b. Identify and describe different types of SAE's (Placement, Entrepreneurship, Agriscience/Research, Exploratory, Service Learning) AGCL.03.01.B

c. Determine the advantages and disadvantages for each type of SAE program AGCL.03.01.C

d. Determine student possibilities for SAE AGCL.03.01.D

02. Initiate the SAE program AGCL.03.02

a. Select an SAE based on personal interests AGCL.03.02.A

b. Design and plan the SAE AGCL.03.02.B

c. Implement the SAE AGCL.03.02.C

d. Make satisfactory progress on the SAE program AGCL.03.02.D

03. Develop agriculture skills through the application of the SAE and experiential learning AGCL.03.03

a. Identify skills necessary in agriculture industry and SAE area AGCL.03.03.A

b. Develop a plan of action (training plan) to address needed skills in the agriculture industry/SAE AGCL.03.03.B

c. Improve agriculture skills through application in the SAE program AGCL.03.03.C

04. Maintain an SAE showing growth and improvement over time AGCL.03.04

a. Maintain an SAE throughout agricultural education enrollment AGCL.03.04.A

b. Analyze the SAE for improvements necessary in efficiency, productivity and success AGCL.03.04.B

c. Utilize management techniques to improve the SAE (record keeping, skills, goals, efficiency factors, financial records, SAE visits and other SAE records) AGCL.03.04.C

d. Implement identified improvements to the SAE AGCL.03.04.D

Integrate leadership and personal development into agricultural education experiences AGCL.04

01. Describe FFA and it's role in Agricultural Education AGCL.04.01

a. Describe the FFA organization, structure and identifying characteristics (emblem, official dress, stations, degrees, types of membership, history, ceremonies) AGCL.04.01.A

b. Define leadership and analyze opportunities for individual leadership development (goal setting, degree advancement, CDE's, Awards, conferences, officer/committee work, career goals) AGCL.04.01.B

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c. Utilize leadership skills learned in the FFA to advance leadership in a group or organization AGCL.04.01.C

d. Utilize leadership skills learned in the FFA to serve others AGCL.04.01.D

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02. Understand how to manage an organization AGCL.04.02

a. Describe the purposes of a constitution and by-laws, Program of Activities, meetings, leadership roles AGCL.04.02.A

b. Utilize and apply a constitution, POA, meetings and leadership roles in an organization AGCL.04.02.B

c. Evaluate an organization for effectiveness AGCL.04.02.C

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03. Explain the values of the FFA organization AGCL.04.03

a. Describe the mission, motto, creed and code of ethics AGCL.04.03.A

b. Analyze how the mission, motto, creed and code of ethics can be challenged in given leadership scenarios AGCL.04.03.B

c. Utilize the mission, motto, creed and code of ethics to make appropriate choices in leadership scenarios AGCL.04.03.C

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04. Utilize parliamentary procedure to effectively operate an organization AGCL.04.04

a. Define parliamentary procedure and its purposes AGCL.04.04.A

b. Understand the classification and utilization of motions AGCL.04.04.B

c. Describe uses of gavel, conduct of chair and members, effective debate, voting AGCL.04.04.C

d. Apply knowledge to given organization scenarios (make a motion, chair, discussion, etc.) AGCL.04.04.D