North Carolina CTE

# Sustainable Agriculture II (2017)

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| **Understand leadership qualities needed for successful employment in sustainable agriculture.** 1.00 | 1 **Understand leadership qualities and career management skills needed in the field of sustainable agriculture.** 1.01 |
| | 2 **Apply public speaking skills.** 1.02 |
| | 3 **Apply parliamentary procedure skills.** 1.03 |
| **Understand Supervised Agricultural Experience** 2.00 | 1 **Understand SAE components and applications to work based learning.** 2.01 |
| | 2 **Understand financial statements and recordkeeping.** 2.02 |
| | 3 **Implement a SAE.** 2.03 |
| **Understand a marketing and business plan for a sustainable grower.** 3.00 | 1 **Develop a marketing plan for a sustainable grower.** 3.01 |
| | 2 **Create a business plan for a sustainable grower.** 3.02 |
| **Understand sustainable communities.** 4.00 | 1 **Understand local and regional food systems.** 4.01 |
| | 2 **Understand how sustainable agriculture globally contributes to feeding a growing population.** 4.02 |
| **Understand energy resources in sustainable agriculture.** 5.00 | 1 **Understand renewable energy.** 5.01 |
| | 2 **Understand energy efficiency and conservation in sustainable agriculture production.** 5.02 |
| | 3 **Apply energy efficiency and conservation in sustainable agriculture production.** 5.03 |
| **Understand emerging technologies in 21st century agricultural pro** | 1 **Understand precision agriculture.** 6.01 |
| | 2 **Understand applications of biotechnology.** 6.02 |
| | **Understand breeding programs in agricultural production.** 6.03 |

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| | 1 Understand Good Agricultural Practices (GAP) to ensure food safety standards for production, post-harvest handling, processing, and distribution. 7.01 |
| | 2 Apply Good Agricultural Practices (GAP) to agricultural production. 7.02 |
| **Understand food safety in sustainable agriculture production.** 7.00 | 7 Understand food safety in sustainable agriculture production. 7.00 |
| **Apply methods of sustainable agriculture to produce an agricultural commodity.** 8.00 | 1 Understand apiculture 8.01 |
| | 2 Understand aquaponic and hydroponic production. 8.02 |
| | 3 Understand mushroom production. 8.03 |
| | 4 Understand vermicomposting. 8.04 |
| | 5 Apply methods of sustainable agriculture to produce an agricultural commodity. 8.05 |