

New Program Development On My Mind: Creating an Agricultural Science Major *from Scratch*

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From Scratch



<http://momitforward.com/wp-content/uploads/2012/01/ingredients.jpg>

<http://eatathomecooks.com/wp-content/uploads/2009/11/holiday-cooking-1024x680.jpg>

Curriculum from Scratch



FARMING ON THE EDGE
Sprawling Development Threatens
America's Best Farmland

Georgia

2014 Ag Snapshots

A brief focus on Georgia's agricultural industry

Legend:

- High-Quality Farmland & High Develop
- High-Quality Farmland & Low Develop
- Federal Lands

American Farmland Trust
www.farmland.org

The University of Georgia
Center for Agribusiness & Economic Development

https://farm3.staticflickr.com/291//145483/148/_/580eb03a1.jpg

https://4aa2dc132bb150caf1aa-7bb737f4349b47aa42dce777a72d5264.ssl.cf5.rackcdn.com/map_georgia300.jpg

http://www.ga-agribusiness.org/images/E0191701/AgSnapshots_14_2.JPG



Setting & Challenges

- New agriculture program
 - New high school career academy
 - Teaching ag mechanics course for UGA students
- Must meet needs of 10 county service area
- Other GA Technical College programs:
 - Horticulture (10)
 - Agribusiness (1)
 - Agri Technology (*diesel mech*) (1)

Georgia Agriculture Facts

Commodity	Nat'l Rank	Cash Receipts
Broilers	1	\$4.42 billion
Cotton	2	\$1.21 billion
Eggs	3	\$780 million
Vegetables & Melons	6	\$640 million
Peanuts	1	\$507 million
Pecans	1	\$315 million
Blueberries	1	\$312 million
Peaches	3	\$31.3 million

Ag = \$13.6 Billion Dollar

From http://www.caes.uga.edu/center/caed/pubs/agsnapshots/documents/AGsnapshots.spreads_2015.pdf




A little help...

2014 Ag Snapshots

A brief focus on Georgia's agricultural industry




GEORGIA



732,000 ACRES

Farmland planted to peanuts in Georgia, the highest acreage of any state in the nation.



www.agcensus.usda.gov
U.S. Department of Agriculture
National Agricultural Statistics Service

USDA 2012 CENSUS OF AGRICULTURE

Source: 2012 Census of Agriculture, May 2014

Narrow down the info...

- County specific information on agriculture sectors
- 10-county service area



Discoveries

- Ag is \$1.392 billion in service area
- 2 “Top-10 Farm Gate” counties in:
 - Poultry (\$613.8 mill)
 - Horticulture (\$44.9 million)
 - Livestock (\$107.8 million)
- These became our program “tracks”



Beginning the Process

- Evaluated how other 2-year programs were structured
- Searched for research that had been conducted for 2-year programs
- Utilized my experience private sector and education
- Searched for agriculture courses already in the TCSG system

Beginning the Process

- Looking for common courses that could be included in a “core” curriculum
- Heavily influenced by my 4-year university experiences
- Question: ***What knowledge is essential for a program graduate to possess?***

General Education

- Language Arts (3)
- Social Sciences (3)
- Mathematics and Sciences (11)
 - Biology
 - Chemistry
 - Algebra
- Humanities (3)
- First Year Seminar (3)



Agriculture Core

- Introduction to Agriculture (1)
- Principles of Agronomy (Plant science)
- Agribusiness Management
- Leadership in Agribusiness
- Agribusiness Finance & Credit
- Agricultural Mechanics
- Internship



Poultry Specialization

- Introduction to Poultry Science
- Animal Nutrition and Feeding
- Poultry Production and Management
- Heating and Ventilation of Agricultural Structures



Horticulture Specialization

- Woody Ornamental Plant ID
- Greenhouse Management
- Plant Production and Propagation
- Irrigation



Animal Science Specialization

- Survey of the Animal Industry
- Animal Nutrition and Feeding
- Forages in Agriculture
- Livestock Production and Management



The Vetting Process


- Program Advisory Committee
- Community stakeholders
 - Industry, UGA
- Provide program guidance

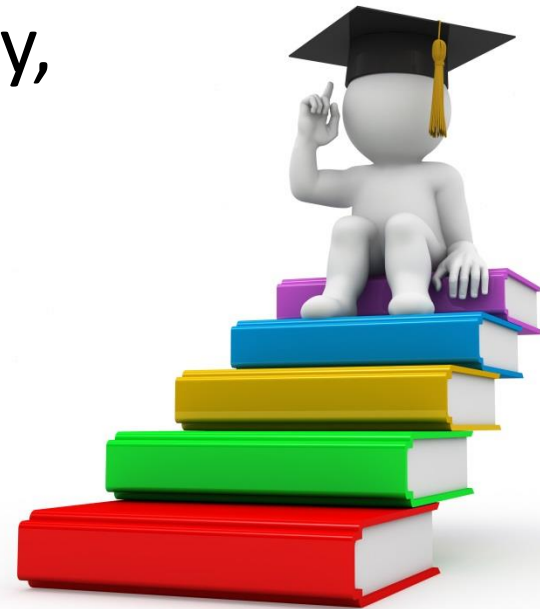


Changes Made



General Education (19)

- Include Public Speaking 
- Require Biology or Chemistry, but not both



Agriculture Core (18)





- Introduction to Agriculture (1) => 3 hour course to discuss ethics and culture
- ~~Principles of Agronomy (Plant science)~~
- Agribusiness Management
- Leadership in Agribusiness
- Agribusiness Finance & Credit
- Agricultural Mechanics
- Internship




Poultry Specialization (12)

- Introduction to Poultry Science
- Poultry Production and Management
- ~~Animal Nutrition and Feeding~~
- ~~Heating and Ventilation of Agricultural Structures~~
- Poultry Processing & Products 
- Food Safety & Health in Agriculture (HACCP) 

Horticulture Specialization (12-13)

- Woody Ornamental Plant ID *or*
Herbaceous ID 
- Plant Production and Propagation *or*
Intro to Sustainable Agri *or* 
Small Scale Food Production 
- Principles of Agronomy 
- ~~Greenhouse Management~~
- ~~Irrigation~~

Animal Science Specialization

- Survey of the Animal Industry
- Forages in Agriculture
- Livestock Production and Management
- Principles of Agronomy 
- ~~Animal Nutrition and Feeding~~

Steps to Approval

- Program Advisory Committee
- Local College Board of Directors
- State TCSG Board of Directors



Future Changes

- Strive to meet community needs
- Add courses where needed
- Very adaptive curriculum system



GEORGIA

AGRICULTURE

Est. Fall
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