

**Establishing  
an  
AG\*IDEA Degree Program  
in  
*Soil, Water, and Environmental Sciences***

**John Havlin  
Mark Coyne  
Wes Wood**

**Michael Mullen  
David Radcliffe  
Tom Thompson**

**Ed McCoy**

**June 23-25, 2010  
NACTA**

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**GREAT PLAINS IDEA** 

Interactive Distance Education Alliance

**AG\*IDEA**  
**Agriculture Interactive Distance**  
**Education Alliance**  
**([www.agidea.org](http://www.agidea.org))**

**Kenneth L. Esbenshade (Chair)**

**AG\*IDEA Board of Directors**

Assoc. Dean / Director - Academic Programs  
College of Agriculture and Life Sciences  
NC State University

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# Great Plains IDEA

## *A Model for National Collaboration*

- Established 1999
- 11 Institutions
- 8 degree programs -  
***Family & Consumer Sciences***



# Great Plains IDEA Model

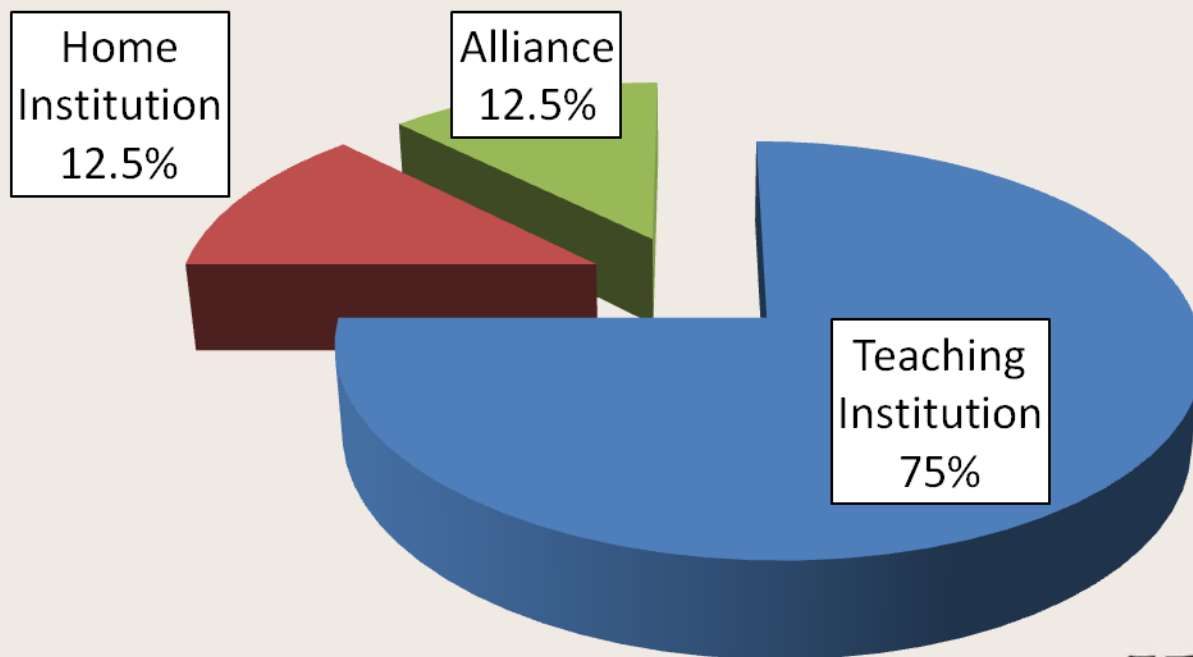
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1. Cooperating institutions develop curriculum
  2. Curriculum approved at each participating institution
  3. Student admitted at “**home**” institution
  4. Student takes courses at “**teaching**” institution
  5. Student awarded degree from “**home**” institution
  6. Student pays “**Common Price**” for all courses
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# Funding Model

Common Price = Tuition + Fees

2010-11 Fiscal Year: **\$445** / graduate CR  
**\$330** / undergraduate CR



# AG\*IDEA - Brief History

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- **USDA-HECG (2006)** ⇒ **Southern region DE consortium**
  - Univ. of Georgia                      Jean Bertrand
  - NC State Univ.                         John Havlin
  - Auburn Univ.                             William Hardy
  
- **Concurrently (2006)** ⇒ **Mid-west DE consortium**
  - Univ. of Missouri                         Kansas State Univ.
  - Iowa State Univ.                         Univ. of Nebraska.
  
- **Formal discussions (2007-08)** ⇒ **both groups**
  - ⇒ with GP IDEA

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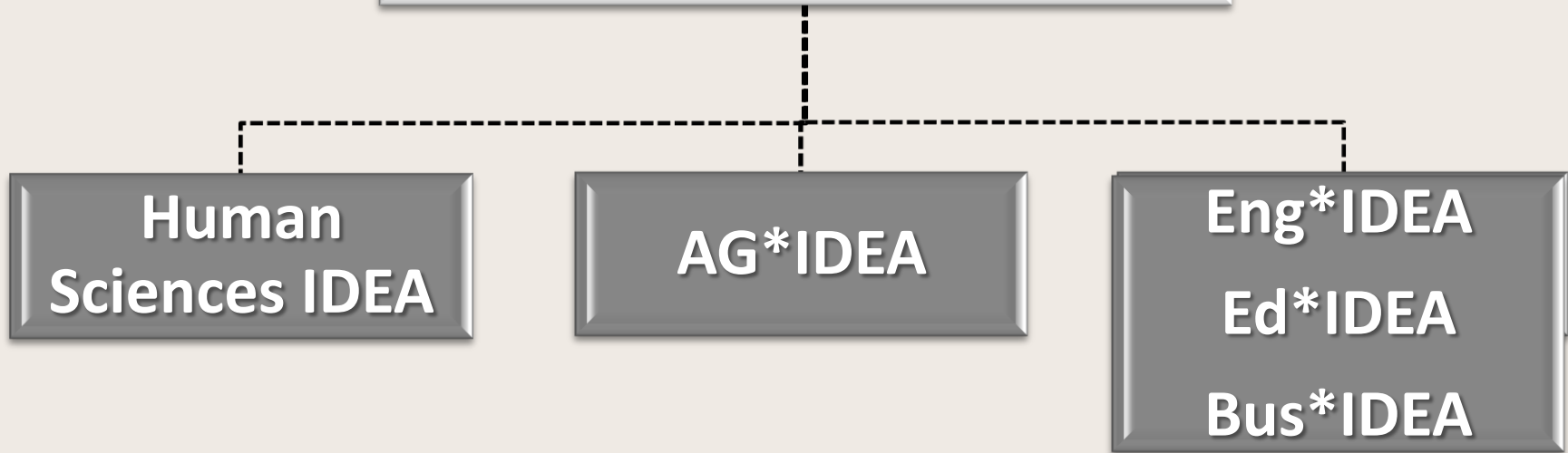
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# Great Plains IDEA Structure

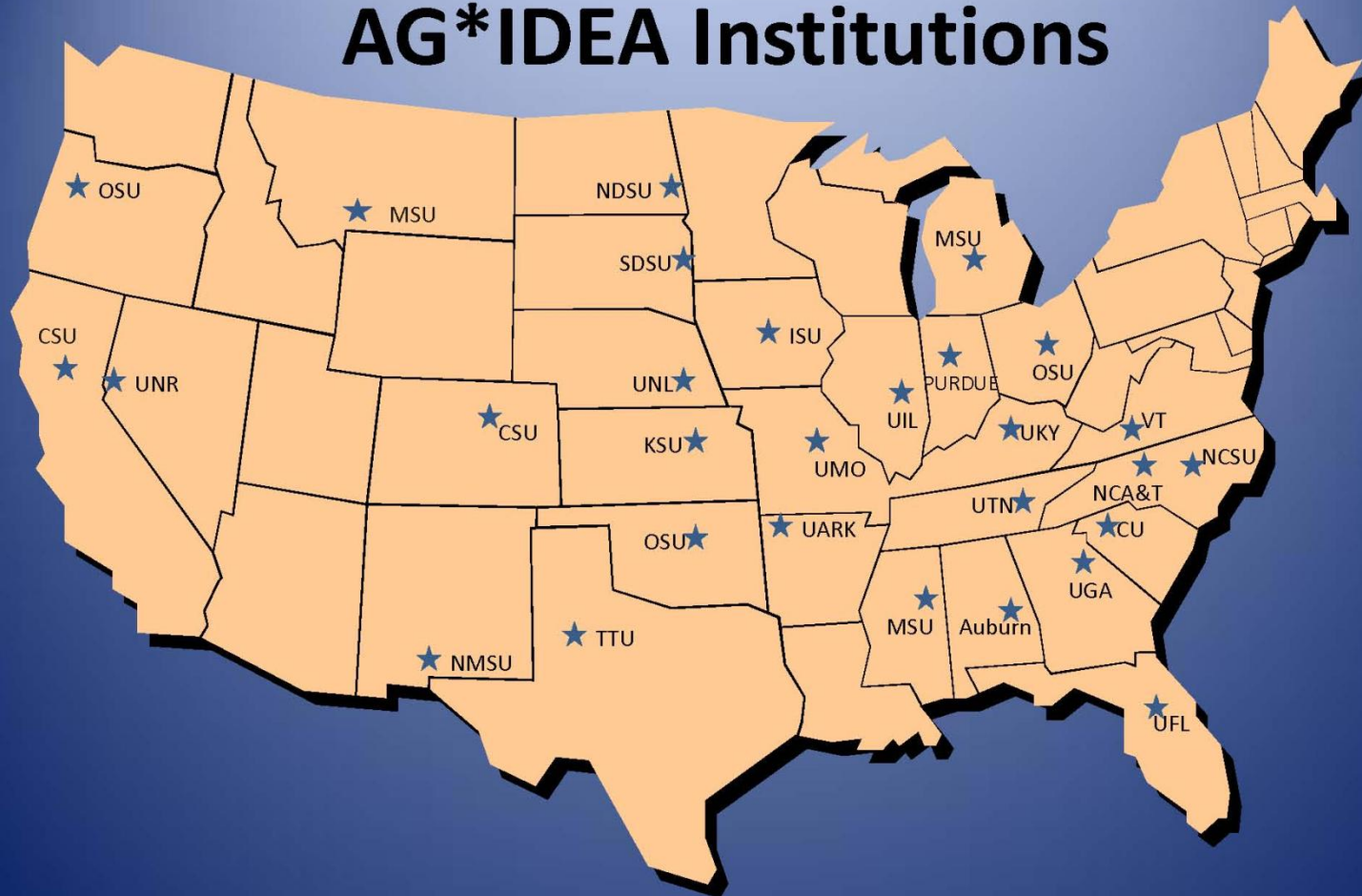
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## Great Plains IDEA Cabinet





# AG\*IDEA Institutions



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# Current AG\*IDEA Programs

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- Agriculture Education **GR certificates**
  - Agriculture Mechanization **UG/GR courses**
  - Food Safety and Defense **GR certificate**
  - Grasslands Management **GR certificate**
  - Horticulture **GR certificate**
  - Swine Science **UG certificate**
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# AG\*IDEA Programs

## (in process)

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- Agricultural Communications
  - Agricultural and Environmental Law
  - Animal Breeding
  - Biobased Products and Bioenergy
  - Poultry Science
  - Soil, Water and Environmental Science (**SWES**)
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# Soil, Water, & Environmental Sciences Program Committee

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John Havlin (Chair)

**NC State University**

David Radcliffe

**Univ. of Georgia**

Wes Wood, Dennis Shannon

**Auburn University**

Thomas Thompson

**Texas Tech Univ.**

Ed McCoy, Jerry Bigham

**Ohio State Univ.**

Yuji Arai

**Clemson University**

Mark Coyne

**Univ. of Kentucky**

Michael Mullen (Ag\*IDEA Liaison)

Joelle Pitts (Ag\*IDEA Coordinator)

**Kansas State Univ.**

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# Soil, Water, & Environmental Sciences

## Learning Outcomes

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- **Knowledge** → demonstrate proficiency in scientific principles and illustrate interrelationships
  - **Skills** → apply basic technical principles to management of ecosystems
  - **Communication** → effective oral and written formats
  - **Application** → define problems, retrieve and synthesize information, propose and evaluate potential solutions
  - **Professionalism** → appreciate transdisciplinary research and collaboration
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# SWES Curriculum

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## Core Courses

12-15 credits

**Soil biology**

**3 credits**

**Soil chemistry**

**3 credits**

**Soil physics**

**3 credits**

**Pedology**

**3 credits**

**Hydrology**

**3 credits**

**Minimum of 4 core areas required**

**Statistics**

**3 credits**

**Seminar**

**1 credit**

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# SWES Curriculum

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**Electives**

**21-24 credits**

## **Soil, water, nutrient management**

- **Soil fertility**
  - Soil erosion & conservation**
  - Environmental appl. of soil science**
  - Plant-water relations**
  - Waste management**
  - Wetlands**
  - Stormwater BMPs**
  - Bioenergy and Environment**

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# SWES Curriculum

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**Electives**

**21-24 credits**

## **Technology, analytics**

- Applied geostatistics
- Quantitative remote sensing
- Precision agriculture technology
- Experimental methods
- Instrumentation for hydrologic applications
- Watershed monitoring & assessment

## **Policy, law**

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# Soil, Water, & Environmental Sciences

## M.S. Degree & Certificate

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<b>Fall</b>	Soil Physics Pedology Hydrology	Soil Chemistry	Soil Physics	Soil Chemistry	Soil Chemistry
<b>Spring</b>	Soil Biology Pedology	Soil Physics Soil Chemistry		Soil Biology	

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# Soil, Water, & Environmental Sciences

## Learning Assessment

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- performance in body of coursework, especially in the core subjects
  - evaluation of seminars, papers, abstracts, and other products of knowledge synthesis
  - synthesis paper on contemporary problem of interest
  - successful completion of oral exam
  - pass fundamental soil science exam
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# Soil, Water, & Environmental Sciences

## Projected Enrollments and Revenue

Year	\$/CR	Projected Enrollment*	Revenue	
			Total	AG*IDEA (12.5%)
1	445	20	\$80,100	\$10,013
2	445	45	\$180,225	\$22,528
3	445	75	\$300,375	\$37,547
<b>Total</b>			<b>\$560,700</b>	<b>\$70,088</b>



# AG\*IDEA Degree Program

*Soil, Water, and Environmental Sciences*

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**January, 2011**

[www.agidea.org](http://www.agidea.org)

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