

## UNIVERSITY COURSE AND PROGRAMS COMMITTEE AGENDA

February 27, 2004

2:30 p.m.

Upchurch Conference Room

1. Announcements
2. Consent agenda: Course changes proposals can be viewed at <https://www2.uark.edu/servlet/edu.uark.regr.ccf.Main> by clicking on “View Changes Pending Before the University Course and Program Committee.”
  - a. Undergraduate Courses ([Table A](#))
  - b. Law Courses ([Table B](#))
  - c. Graduate Courses ([Table C](#))
  - d. Dual Credit Courses ([Table D](#))
3. Proposed program changes in the Bumpers College of Agricultural, Food and Life Sciences ([Table E](#), [Attachments 1-3](#)).
4. Proposed program change in the Walton College of Business ([Table F](#), [Attachment 4](#)).
5. Proposed program change in the College of Education and Health Professions ([Table G](#), [Attachment 5](#), [Attachment 6](#)).
6. Other business

**TABLE A****UCPC****Undergraduate Courses**

February 27, 2004

COLL	DEPARTMENT NAME	DEPT	CRSE ALPHA	CRSE NUM	CRSE TITLE	CREDIT LEVEL	ACTION	CREDIT HOURS	EFFECTIVE DATE
ARCH	Architecture	ARCD	ARCH	1015 to 1014	Architectural Design I	U	CHN, CCH	5 to 4	Fall 2004
ARCH	Architecture	ARCD	ARCH	1025 to 1024	Architectural Design II	U	CHN, CCH	5 to 4	Fall 2004
ARCH	Architecture	ARCD	ARCH	1211 to 1212	Introduction to Architecture I	U	CHN, CCH	1 to 2	Fall 2004
ARCH	Architecture	ARCD	ARCH	1221 to 1222	Introduction to Architecture II	U	CHN, CCH	1 to 2	Fall 2004
AFLS	Agricultural & Extension Education	AEED	AGED	3942	Professional Development in Agricultural Communications	U	ANC	2	Fall 2004
AFLS	Agricultural & Extension Education	AEED	AGED	4243	Publication Production in Agriculture	U	ANC	3	Fall 2004
AFLS	Agricultural & Extension Education	AEED	AGME	3042	Agricultural Construction Technology	U	ANC	2	Spring 2004
AFLS	Human Environmental Sciences	HESC	HESC	1601	Work Experience Practicum	U	ANC	1	Fall 2004
AFLS	Human Environmental Sciences	HESC	HESC	2623	Legal Issues in the Hospitality Industry	U	ANC	3	Fall 2004
AFLS	Poultry Science	POSC	POSC	1003	Introductory Animal and Poultry Science	U	ELC	3	Fall 2004
AFLS	Poultry Science	POSC	POSC	1013 to 3013	Exotic Companion Birds	U	CD, CNH	3	Fall 2004
AFLS	Poultry Science	POSC	POSC	3391	Poultry Junior Judging Team Activity	U	ELC	1	Fall 2004

AFLS	Poultry Science	POSC	POSC	4391	Poultry Senior Judging Team Activity	U	ELC	1	Fall 2004
EDUC	Curriculum & Instruction	CIED	CIED	3001	Early Childhood Education Practicum	U	ANC	1	Fall 2004
EDUC	Curriculum & Instruction	CIED	CIED	3003	Early Childhood Education	U	ANC	3	Fall 2004
EDUC	Curriculum & Instruction	CIED	CIED	3123	Mathematics Methods	U	ANC	3	Fall 2004
EDUC	Curriculum & Instruction	CIED	CIED	3133	Integrated Social Studies	U	ANC	3	Fall 2004
EDUC	Curriculum & Instruction	CIED	CIED	3143	Teaching Science	U	ANC	3	Fall 2004
EDUC	Curriculum & Instruction	CIED	CIED	4003	Elementary Seminar	U	ANC	3	Fall 2004
EDUC	Curriculum & Instruction	CIED	CIED	4023	Teachings in Inclusive Secondary Settings	U	ANC	3	Fall 2004
EDUC	Curriculum & Instruction	CIED	CIED	4131	Practicum in Secondary Education	U	ANC	1	Fall 2004
EDUC	Curriculum & Instruction	CIED	CIED	4133	Measurement, Research, and Readings	U	ANC	3	Fall 2004
EDUC	Curriculum & Instruction	CIED	CIED	4143	Curriculum Design	U	ANC	3	Fall 2004
EDUC	Curriculum & Instruction	CIED	CIED	4153	Classroom Management	U	ANC	3	Fall 2004
EDUC	Curriculum & Instruction	CIED	CIED	4163	Senior Project	U	ANC	3	Fall 2004
EDUC	Curriculum & Instruction	CIED	CIED	4173	Student Teaching	U	ANC	3	Fall 2004
EDUC	Educational Leadership, Counseling & Foundations	ELCF	CNED	4003	Classroom Human Relations Skills	D to U	CEGUC	3	Fall 2004
ENGR	Biological & Agricultural Engineering	BAEG	BENG	2612	Quantitative Biological Engineering I to Biological Engineering Design Studio II	U	CT, CD, OTH	2	Fall 2004
ENGR	Biological & Agricultural Engineering	BAEG	BENG	2622	Quantitative Biological Engineering II to Biological Engineering Design Studio III	U	CT, CD, OTH	2	Fall 2004

ENGR	Biological & Agricultural Engineering	BAEG	BENG	3722 to 3723	Biological Process Engineering I to Unit Operations in Biological Engineering	U	CT, CD, CHN, CCH, OTH	2 to 3	Fall 2004
ENGR	Biological & Agricultural Engineering	BAEG	BENG	3732	Biological Process Engineering II to Transport Phenomena in Biological Systems	U	CT, CD, CHN, CCH, OTH	2 to 3	Fall 2004
ENGR	Chemical Engineering	CHEG	CHEG	1135	Fundamentals of Chemical Engineering	U	ANC	5	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CENG	3313	Algorithms	U	ELC	3	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CENG	4413	Operating Systems	U	ELC	3	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CENG	4513	Software Engineering	U	ELC	3	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CSCE	1021M	Honors Programming I Laboratory	U	ELC	1	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CSCE	1111L	Introduction to Computers Laboratory	U	ELC	1	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CSCE	1111M	Honors Introduction to Computers Laboratory	U	ELC	1	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CSCE	1113	Introduction to Computers	U	ELC	3	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CSCE	1113H	Honors Introduction to Computers	U	ELC	3	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CSCE	2133	Assembler Language Programming	U	ELC	3	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CSCE	3213	Computer Organization	U	ELC	3	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CSCE	4561	CS Capstone I	U	ANC	1	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CSCE	4623	Intelligent Robot Control	D to U	CEGUC	3	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CSCE	4753	Computer Networks	U	ELC	3	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CSCE	4963	CS Capstone II	U	ANC	3	Fall 2004

ENGR	Computer Science & Computer Engineering	CSCE	CSCE	4991	Computer Science Review	U	ELC	1	Fall 2004
ENGR	Electrical Engineering	ELEG	ELEG	3803	Honors Colloquium	U	ANC	3	Fall 2004
ENGR	Electrical Engineering	ELEG	ELEG	400V	Senior Thesis	U	ANC	variable	Fall 2004
ENGR	Industrial Engineering	INEG	INEG	1103	Introduction to Engineering	U	ANC	3	Fall 2004

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**ACTION**

ANC= ADD NEW COURSE

ELC= ELIMINATE COURSE

CT= CHANGE TITLE

CD= CHANGE DESCRIPTION

CHN= CHANGE COURSE NUMBER FROM \_\_\_TO\_\_\_

CCH= CHANGE CREDIT HOURS FROM \_\_\_TO\_\_\_

CL= CROSS LISTED

CEUDC= CHANGE EXISTING UNDERGRADUATE COURSE TO DUAL CREDIT

CEUGC= CHANGE EXISTING UNDERGRADUATE COURSE TO GRADUATE CREDIT

CEGUC= CHANGE EXISTING DUAL/GRADUATE COURSE TO UNDERGRADUATE CREDIT

OTH= OTHER

RA= REACTIVATE

**TABLE B****UCPC****Law Courses**

February 27, 2004

COLL	DEPARTMENT NAME	DEPT	CRSE ALPHA	CRSE NUM	CRSE TITLE	CREDIT LEVEL	ACTION	CREDIT HOURS	EFFECTIVE DATE
LAW	Law	LAWD	LAWW	6033 to 603V	Federal Jurisdiction	L	CHN, CCH	3 to variable	Fall 2004
LAW	Law	LAWD	LAWW	6343	Conflict Resolution	L	ANC	3	Fall 2004
LAW	Law	LAWD	LAWW	6533	Business and Commercial Torts	L	ANC	3	Fall 2004

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OTH= OTHER

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**TABLE C****UCPC****Graduate Courses**

February 27, 2004

COLL	DEPARTMENT NAME	DEPT	CRSE ALPHA	CRSE NUM	CRSE TITLE	CREDIT LEVEL	ACTION	CREDIT HOURS	EFFECTIVE DATE
AFLS	Animal Science	ANSC	ANSC	5763	Protozoan Parasites of Domestic Livestock and Companion Animals	G	ANC	3	Fall 2004
AFLS	Biological & Agricultural Engineering	BAEG	BENG	5203	Mathematical Modeling of Physiological Systems	G	ANC	3	Fall 2004
AFLS	Biological & Agricultural Engineering	BAEG	BENG	5223	Biomedical Engineering Research Internship	G	ANC	3	Fall 2004
AFLS	Poultry Science	POSC	POSC	5763	Protozoan Parasites of Domestic Livestock and Companion Animals	G	ANC	3	Fall 2004
AFLS	Poultry Science	POSC	POSC	5873	Molecular Analysis of Foodborne Pathogens	G	ANC	3	Fall 2004
EDUC	Curriculum & Instruction	CIED	CIED	5221	The Moral Dimensions of Teaching	G	ELC	1	Fall 2004
EDUC	Curriculum & Instruction	CIED	CIED	5223	Issues and Principles of Secondary Education	G	ANC	3	Fall 2004
ENGR	Biological & Agricultural Engineering	BAEG	BENG	5213	Introduction to Bioinformatics	G	ANC	3	Fall 2004
ENGR	Biological & Agricultural Engineering	BAEG	BENG	5233	Tissue and Cell Engineering	G	ANC	3	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CENG	5173	Entrepreneurism/eCommerce	G	ANC	3	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CENG	5303	Parallel Programming	G	ELC	3	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CENG	5953	Real-Time Systems	G	ELC	3	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CSCE	5643	Computer Communication Networks	G	ELC	3	Fall 2004
ENGR	Mechanical Engineering	MEEG	MEEG	5323	Physical and Chemical Vapor Deposition Processes	G	ANC	3	Fall 2004

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**ACTION**

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CHN= CHANGE COURSE NUMBER FROM \_\_\_TO\_\_\_

CCH= CHANGE CREDIT HOURS FROM \_\_\_TO\_\_\_

CAC= CHANGE ALPHA CODE FROM \_\_\_TO\_\_\_

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CEUDC= CHANGE EXISTING UNDERGRADUATE COURSE TO DUAL CREDIT

CEUGC= CHANGE EXISTING UNDERGRADUATE COURSE TO GRADUATE CREDIT

CEGUC= CHANGE EXISTING DUAL/GRADUATE COURSE TO UNDERGRADUATE CREDIT

OTH= OTHER

RA= REACTIVATE



**TABLE D****UCPC****Dual Courses**

February 17, 2004

COLL	DEPARTMENT NAME	DEPT	CRSE ALPHA	CRSE NUM	CRSE TITLE	CREDIT LEVEL	ACTION	CREDIT HOURS	EFFECTIVE DATE
EDUC	Educational Leadership, Counseling & Foundations	ELCF	CNED	4003	Classroom Human Relations Skills	D to U	CEGUC	3	Fall 2004
ENGR	Biological & Agricultural Engineering	BAEG	BENG	4403	Controlled-Environment Structures for Biological Systems to Design of Enclosed Ecosystems	D	CT, CD	3	Fall 2004
ENGR	Biological & Agricultural Engineering	BAEG	BENG	4913	Bio-Environmental Engineering to Design of Animal Waste Management Systems	D	CT,CD	3	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CENG	4403	Control Systems	D	ELC	3	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CENG	4523	Data-Base Management	D	ELC	3	Fall 2004
ENGR	Computer Science & Computer Engineering	CSCE	CSCE	4623	Intelligent Robot Control	D to U	CEGUC	3	Fall 2004

**ACTION**

ANC= ADD NEW COURSE

ELC= ELIMINATE COURSE

CT= CHANGE TITLE

CD= CHANGE DESCRIPTION

CHN= CHANGE COURSE NUMBER FROM \_\_\_TO\_\_\_

CCH= CHANGE CREDIT HOURS FROM \_\_\_TO\_\_\_

CL= CROSS LISTED

CEUDC= CHANGE EXISTING UNDERGRADUATE COURSE TO DUAL CREDIT

CEUGC= CHANGE EXISTING UNDERGRADUATE COURSE TO GRADUATE CREDIT

CEGUC= CHANGE EXISTING DUAL/GRADUATE COURSE TO UNDERGRADUATE CREDIT

OTH= OTHER  
RA= REACTIVATE

## **PROGRAM CHANGES, UNIVERSITY COURSE AND PROGRAMS COMMITTEE**

27-Feb-04

### **Table E: Bumpers College of Agricultural, Food and Life Sciences**

#### Department of Crop, Soil and Environmental Sciences

##### ESWS-M - ATTACHMENT 1

Several changes in course requirements. Please see attachment for details.

##### ESWSBS - ATTACHMENT 2

The requirements for the CSES Bachelor of Science degree in Environmental Soil and Water Science (ESWSBS) will change to incorporate a broader range of environmental science topic areas than is currently being covered. The proposed changes are given in the attachment.

#### Department of Food Science

##### FDSCBS - ATTACHMENT 3

Change choices offered to fulfill statistics requirement by deleting ISYS 2013 Business Statistics (replaced by WCOB in Spring 04 with WCOB 1033 Data Analysis & Interpretation) and adding STAT 2023 Biostatistics and PSYC 2013 Introduction to Statistics for Psychologists to current list of course options that includes STAT 2303 Principles of Statistics and AGST 4023 Principles of Experimentation.

### **Table F: Walton College of Business**

#### Department of Finance

##### BADM - ATTACHMENT 4

Change in course requirements for a finance concentration in Business Minor for Non-Business students.

### **Table G: College of Education and Health Professions**

#### Department of Curriculum and Instruction

##### ELEDBS - ATTACHMENTS 5,6

Create a second option for the BSE degree in elementary education that will lead to Arkansas teacher licensure; option will be delivered in collaboration with community college. Thirty-one hours of new courses will be required.

# ATTACHMENT 1

## ADD, CHANGE OR DELETE PROGRAM OR UNIT

Complete this form consistent with the instructions in Academic Policy 1622.20. Use the form to add, change, or delete a program or unit. Proposed additions and changes must be consistent with Academic Policies 1100.40 and 1621.10 and any other policies which apply.

### SECTION I: Approvals

\_\_\_\_\_  
Department / Program Chair

\_\_\_\_\_  
Date Submitted

\_\_\_\_\_  
Faculty Senate Chair

\_\_\_\_\_  
Date

\_\_\_\_\_  
College Dean

\_\_\_\_\_  
Date

\_\_\_\_\_  
Provost

\_\_\_\_\_  
Date

\_\_\_\_\_  
Undergraduate Program Committee Chair Date

\_\_\_\_\_  
Board of Trustees Approval Date

\_\_\_\_\_  
Graduate Council Chair

\_\_\_\_\_  
Date

\_\_\_\_\_  
Arkansas Higher Education Coordinating Board Approval Date

### SECTION II: Profile Data - Required Information and Name Change Information

Academic Unit: 9 Major/Field of Study : Minor G Other Unit

Level: : Undergraduate G Graduate G Law Effective Catalog Year 2004-2005

Current Name Department of Crop, Soil and Environmental Sciences

College, School, Division

Department Code CSES

Current Code (6 digit Alpha) ESWS-M

Proposed Code (6 digit Alpha) ESWS-M

Prior approval from the Office of the Registrar is required.

G Interdisciplinary Program

CIP Code

Prior assignment from Office of Institutional Research is required.

Proposed Name

When a program name is changed, enrollment of current students reflects the new name.

### SECTION III: Add a New Program/Unit

G For new program proposals, complete Sections II and VII and use as a cover sheet for a full program proposal as described in 'Criteria and Procedures for Preparing Proposals for New Programs in Arkansas.' ADHE <<http://www.adhe.arknet.edu.aadept.html>>.

### SECTION IV: Eliminate an Existing Program/Unit

Code/Name \_\_\_\_ Effective Catalog Year

No new students admitted to program after Term: Year: \_\_\_\_

Allow students in program to complete under this program until Term: \_ Year:

### SECTION V: Proposed Changes to an Existing Program

Insert here a statement of the exact changes to be made: Under Category 1, following the phrase Aand 3 additional hours from@: delete BIOL 4503-Ecosystem Ecology, BIOL 485v-Field Biology, ENSC 400v-Special Problems, GEOG 3003-Conservation of Natural Resources, and GEOG 4543-Geographic Information Systems, and add ENSC 3103-Plants and Environmental Restoration, ENSC 3603-Environmental Applications of GIS, ENSC 3223-Ecosystems Assessment, ENSC 3263-Environmental Soil and Water Conservation, ENSC 3933-Environmental Ethics, ENSC 4034-Analysis of Environmental Contaminants, AGECE 3503-Agricultural Law, and RSOC/SOCI 4603-Environmental Sociology.

Under Category 2, following the phrase Ato include CSES 2203 and@ change A3 to 4 additional hours@ to A3 additional hours from@ and add CSES 355v-Soil Profile Descriptions to the list of soil science courses.

Under Category 3, following the phrase Ato include@: delete ENSC 4023-Water Quality and add ENSC 3003-Introduction to Water Science. Under Category 3, following the phrase Aand 3 additional hours from@ delete AGME 4973-Irrigation, AGME 4983-Agricultural Meteorology, GEOL 4043-Water Resource Issues, and GEOG 4353-Elements of Weather, and add ENSC 4023-Water Quality and GEOG 3333-Oceanography.

Check all the boxes that apply and complete the required sections of the form:

- Change of Name and Code (Complete only sections I, II, V and VII.)  
: Change Course Requirements: (Complete all sections of the form except AProposed Name@in II, section III, and section IV.)
- Change Delivery Site/Method (Complete all sections of the form except AProposed Name@in II, section III, and section IV.)
- Change Total Hours (Complete all sections of the form except AProposed Name@in II, section III, and section IV.)

#### **SECTION VI: Justification**

*Justify this change and state its likely effect on any other degree program (including those outside the school or college). Identify any program or program components (other than courses) to be eliminated if this program is implemented. (Program and course change forms must also be submitted for such related changes.)*

**Major revisions in the requirements for a BS in ESWS and changes (addition of new courses, elimination of some courses, etc.) throughout the ESWS curriculum generally have made these changes in the requirements for a minor in ESWS necessary. These changes do not directly impact other degree programs.**

#### **SECTION VII: Catalog Text and Format**

*Insert the current catalog text and the proposed catalog text. Be sure that the proposed text includes all the elements listed below in order. Do not include university requirements or college requirements. Do not substitute a sample schedule for an explicit statement of requirements. Use standard terms and vocabulary (see Academic Policy 1621.10).*

Include the following elements, in order, in the catalog text for proposed undergraduate program(s) or program changes:

- State complete major/program name
- Briefly define or describe the major/program or discipline.
- Identify typical career goals or paths for graduates. (Optional)
- State admission requirements (if any) for entry or entry into upper/advanced level of major/program.
- Identify location in catalog of university, college/school, and department/program requirements which the student must meet in addition to hours in the major, but do not restate these requirements.
- State course requirements in the major and any allied areas, giving number of hours and specific courses; specify electives or elective areas and give numbers of hours and courses in elective pools or categories; identify any other course requirements.
- State any other requirements (required GPA, internship, exit exam, project, thesis, etc.).
- Identify name and requirements for each concentration (if any).
- Specify whether a minor or other program component is allowed or required and provide details.

For minors, state requirements in terms of hours, required courses, electives, etc.

For graduate program/units, include elements (as needed) parallel to those listed for undergraduate programs above.

For Law School program/units, prepare text consistent with current catalog style.  
For centers, prepare text consistent with current catalog style.

**OLD CATALOG COPY**

**Requirements for a minor in environmental, soil, and water science (ESWS):**  
**18 semester hours of courses to be selected from the following three categories**

**Category 1: Environmental science (6 hours) to include ENSC 1003 and 3 additional hours from AGEC 3413, AGEC 4413, BIOL 3863/3861L, BIOL 4503, BIOL 485V, ENSC 3253, ENSC 400V, GEOL 1113/1111L, GEOG 3003, GEOG 4543.**

**Category 2: Soil science (6-7 hours) to include CSES 2203 and 3 to 4 additional hours from CSES 3214, CSES 4224, CSES 4253, CSES/ENSC 4263.**

**Category 3: Water science (6 hours) to include ENSC 4023 and 3 additional hours from AGME 4973, AGME 4983, ENSC 3263, GEOL 4033, GEOL 4043, GEOG 4353, ZOOL 4814.**

**A student planning to minor in environmental, soil, and water science should notify the department of crop, soil, and water sciences and consult with an academic adviser.**

**NEW CATALOG COPY**

**Requirements for a minor in ESWS:**  
**18 semester hours of courses to be selected from the following three categories**

**Category 1: Environmental science (6 hours) to include ENSC 1003 and 3 additional hours from AGEC 3413, AGEC 3503, BIOL 3863/3861L, ENSC 3103, ENSC 3223, ENSC 3603, ENSC 3253, ENSC 3263, ENSC 3933, ENSC 4034, ENSC/AGEC 4413, GEOL 1113/1111L, RSOC/SOCI 4603,**

**Category 2: Soil science (6 hours) to include CSES 2203 and 3 additional hours from CSES 3214, CSES 355V, CSES 4224, CSES 4253, CSES/ENSC 4263.**

**Category 3: Water science (6 hours) to include ENSC 3003 and 3 additional hours from ENSC 4023/4020L, GEOG 3333, GEOL 4033, and ZOOL 4814.**

**A student planning to minor in environmental, soil, and water science should notify the department of crop, soil, and water sciences and consult with an academic adviser.**

**SECTION VIII: Action Recorded by Registrar's Office**

PROGRAM INVENTORY/DARS

PGRM ___	SUBJ ___	CIP ___	CRTS
DGRE ___	PGCT ___	OFFC&CRTY VALID	
REPORTING CODES			
PROG. DEF. ___	REQ. DEF.	Initials ___	Date

**Distribution**

Notification to:	(2) Department	(3) Admissions	(4) Institutional Research	(5) Continuing Education	(6) Graduate School
(1) College	(8) Undergraduate Program Committee			Initials ___	Date
(7) Treasurer					



## ATTACHMENT 2

### ADD, CHANGE OR DELETE PROGRAM OR UNIT

Complete this form consistent with the instructions in Academic Policy 1622.20. Use the form to add, change, or delete a program or unit. Proposed additions and changes must be consistent with Academic Policies 1100.40 and 1621.10 and any other policies which apply.

#### SECTION I: Approvals

_____	_____	_____	_____
Department / Program Chair	Date Submitted	Faculty Senate Chair	Date
_____	_____	_____	_____
College Dean	Date	Provost	Date
_____	_____	_____	_____
Undergraduate Program Committee Chair	Date	Board of Trustees Approval Date	
_____	_____	_____	_____
Graduate Council Chair	Date	Arkansas Higher Education Coordinating Board Approval Date	

#### SECTION II: Profile Data - Required Information and Name Change Information

Academic Unit: : Major/Field of Study G Minor GOther Unit  
Level: : Undergraduate G Graduate G Law Effective Catalog Year **2004-2005**

Current Name **Department of Crop, Soil and Environmental Sciences**

College, School, Division Department Code **CSES**

Current Code (6 digit Alpha) **ESWSBS** Proposed Code (6 digit Alpha) **ESWSBS**  
Prior approval from the Office of the Registrar is required.

Interdisciplinary Program CIP Code  
Prior assignment from Office of Institutional Research is required.

Proposed Name  
When a program name is changed, enrollment of current students reflects the new name.

#### SECTION III: Add a New Program/Unit

G For new program proposals, complete Sections II and VII and use as a cover sheet for a full program proposal as described in 'Criteria and Procedures for Preparing Proposals for New Programs in Arkansas.' ADHE  
<<http://www.adhe.arknet.edu.aadept.html>>.

#### SECTION IV: Eliminate an Existing Program/Unit

Code/Name \_\_\_\_ Effective Catalog Year

No new students admitted to program after Term: Year: \_\_\_\_  
Allow students in program to complete under this program until Term: \_ Year:



## **SECTION V: Proposed Changes to an Existing Program**

Insert here a statement of the exact changes to be made: The requirements for the CSES Bachelor of Science degree in Environmental Soil and Water Science (ESWSBS) will change to incorporate a broader range of environmental science topic areas than is currently being covered. The proposed changes are as follows:

1. New requirements under the category of Physical, Chemical, and Biological Sciences include BIOL 1543/1541L Principles of Biology with the laboratory, GEOL 1113/1111L General Geology with the laboratory and an ecology course, either BIOL 3863/3861L General Ecology with the laboratory or a new 3000-level CSES course, Ecosystems Assessment with a laboratory.

2. CSES 1012, Freshmen Orientation will continue to be required, but will be revised and offered as a 1 credit, 8 week course, CSES 1011 Introduction to CSES.

3. Basic requirements requiring students to take a soil, water and environmental science course will remain. However, the requirements will be revised such that the requirement of CSES 4023/4020L Water Quality will be eliminated and a new 3000-level CSES course, Introduction to Water Science will be required instead. Overall, the basic environmental requirements for ESWSBS will be ENSC 1003 Environmental Science (no change), CSES 2203/2201L Soil Science (no change), and ENSC 3003 Introduction to Water Science (new course to fulfill water science requirement).

4. Students will be required to take a second soil science and a second water science course from those listed among the options below.

Soil Science (3 hrs):

CSES 3214/3210L Soil Resources & Nutrient Cycles with Lab (revision of CSES 3214/3210D Intermediate Soils)

CSES 4224/4220L Soil Fertility with Lab

CSES 4253 Soil Classification & Genesis

ENSC 4263 Environmental Soil Science

Water Science (3 hrs):

ENSC 4023/4020L Water Quality with Lab

GEOG 3333 Oceanography

GEOL 4033/4030L Hydrogeology with Lab

ZOOL 4814/4810L Limnology with Lab

5. In addition to the changes stated above, students will select 12 credit hours from at least 2 of the following 3 sections:

Methods/Techniques in Environmental Science:

CSES 355V Soil Profile Descriptions (1 credit, may take twice)

CSES/BENG 4803 Precision Agriculture

ENSC 3253 Septic Systems

ENSC 3603 GIS for Environmental Science (new course)

ENSC 4034 Analysis of Environmental Contaminants (revision of ENSC 4033 Water Quality Analysis)

Environment and Society:

AGEC 3413 Principles of Environmental Economics

AGEC 3503 Agricultural Law

ENSC 3933 Environmental Ethics (new course)

ENSC/AGEC 4413 Economics of Env. Mgmt.

RSOC/SOCI 4603 Environmental Sociology

Natural Resources Systems/Management:

CSES 2013 Pest Management

ENSC 3103 Plants & Environmental Restoration

ENSC 3263/3260L Env. Soil & Water Conservation with Lab

Check all the boxes that apply and complete the required sections of the form:

GChange of Name and Code (Complete only sections I, II, V and VII.)

: Change Course Requirements: (Complete all sections of the form except AProposed Name@in II, section III, and section

IV.)

GChange Delivery Site/Method (Complete all sections of the form except AProposed Name@in II, section III, and section

IV.)

GChange Total Hours (Complete all sections of the form except AProposed Name@in II, section III, and section IV.)

## **SECTION VI: Justification**

*Justify this change and state its likely effect on any other degree program (including those outside the school or college). Identify any program or program components (other than courses) to be eliminated if this program is implemented. (Program and course change forms must also be submitted for such related changes.)*

**New faculty, faculty evaluations of program goals and assessment of curriculum strengths and weaknesses, declining undergraduate enrollment, and recurring comments from graduating seniors that students would like to see more course options covering a broader base of environmental science have led the CSES faculty to evaluate and revise its ESWS curriculum. The proposed revisions retain and strengthen the scientific base of the degree by specifically adding the requirements of geology, biology and ecology. Biology is required to take Microbiology and Plant Biology which are existing requirements for the ESWSBS degree. Requiring geology will strengthen understanding of surficial earth processes and soil science. Ecology is fundamental to the understanding and management of ecosystems. Further changes in the curriculum are designed to strengthen certain areas within the curriculum (including ecosystem management, environmental sampling, analysis, and interpretation, water science, and societal aspects of environmental science). The revised curriculum maintains the requirements for courses covering the fundamentals in soil and environmental science, but the requirement for water science is changed to incorporate an introductory water science course. After mastering information in the introductory course, students may opt to take the more advanced Water Quality course or choose from a selection of other water science courses. The proposed revisions specifically requiring courses dealing with current methods and techniques, relationships of environmental science with society, and ecosystem level processes and management have been designed with the intent of ensuring more comprehensive coverage of a broad range of important topic areas within environmental science for all our ESWSBS students. These revisions do not directly impact other degree programs.**

## **SECTION VII: Catalog Text and Format**

*Insert the current catalog text and the proposed catalog text. Be sure that the proposed text includes all the elements listed below in order. Do not include university requirements or college requirements. Do not substitute a sample schedule for an explicit statement of requirements. Use standard terms and vocabulary (see Academic Policy 1621.10).*

Include the following elements, in order, in the catalog text for proposed undergraduate program(s) or program changes:

- State complete major/program name
- Briefly define or describe the major/program or discipline.
- Identify typical career goals or paths for graduates. (Optional)
- State admission requirements (if any) for entry or entry into upper/advanced level of major/program.
- Identify location in catalog of university, college/school, and department/program requirements which the student must meet in addition to hours in the major, but do not restate these requirements.
- State course requirements in the major and any allied areas, giving number of hours and specific courses; specify electives or elective areas and give numbers of hours and courses in elective pools or categories; identify any other course requirements.
- State any other requirements (required GPA, internship, exit exam, project, thesis, etc.).
- Identify name and requirements for each concentration (if any).
- Specify whether a minor or other program component is allowed or required and provide details.

For minors, state requirements in terms of hours, required courses, electives, etc.

For graduate program/units, include elements (as needed) parallel to those listed for undergraduate programs above.

For Law School program/units, prepare text consistent with current catalog style.

For centers, prepare text consistent with current catalog style.

## OLD CATALOG COPY

Courses in the Department of Crop, Soil, and Environmental Sciences provide fundamental and applied studies in two majors: Crop Management (CPMG) and Environmental, Soil, and Water Science (ESWS). Areas studied within the Crop Management major include plant breeding and genetics, crop and forage production, pest management (weeds, insects, and plant diseases) and soil fertility. The Environmental, Soil, and Water Science major includes courses in areas such as environmental science, water quality, soil science, soil and water conservation, and the sustainable productivity of natural resources. Supporting education in the basic sciences complements courses in the Crop Management and Environmental, Soil, and Water Science majors. Opportunities for employment and post-graduate study are numerous for graduates of the Department of Crop, Soil, and Environmental Sciences. Crop Management graduates become involved in crop production or find employment in public agencies providing support services for agriculture (e.g., Extension Service, State Plant Board, Natural Resources Conservation Service), as consultants serving production agriculture, in the agrichemical and seed industries, and in agricultural research programs. Environmental, Soil, and Water Science graduates find jobs with environmental consulting companies, environmental education organizations, state agencies (e.g., Extension Service, Department of Environmental Quality, Health Department), federal agencies (e.g., Environmental Protection Agency, Natural Resources Conservation Service), municipalities and local environmental services (e.g., waste management and recycling, water and wastewater treatment facilities, parks and tourism departments), and a wide variety of private businesses. Many graduates from both majors also choose to continue their educations in graduate programs in a wide variety of disciplines both related and complementary to their B.S. degrees.

Requirements for a B.S.A. degree with a major in environmental, soil, and water science: (See page 41 for University Core and page 68 for B.S.A. requirements)

35 hours of University Core requirements to include:

CHEM 1103/1101L and

CHEM 1123/1121L

University Advanced Composition Requirement:

ENGL 2003 - exemption possible

College Requirements: Comm 1313 and 3 hours communication elective selected from the following: AGED 3142/3141L, CSES 3023 or any course from ENGL, JOUR, or COMM

Electives: 28-31 hours

Departmental Requirements: 55-56 hrs

CSES/ENSC 1012 - Orientation to Crop, Soil and Environmental Sciences

CSES 2013 - Pest Management

MATH 2043 - Survey of Calculus

BOTY 1613/1611L or CSES 1203- Plant Biology/Lab or Intro Plant Sciences

CHEM 2613/2611L - Organic Physiological Chem/Lab

MBIO 2013/2011L - General Microbiology/Lab

AGST 4023 or STAT 2023 or STAT 2303- Princ of Experimentation or Biostatistics or Principles of Statistics

PHYS 2013/2011L - College Physics I/Lab

Select 9 hours from Environmental Sciences:

ENSC 1003 - Environmental Science (required)

AGEC 3413 - Principles of Environmental Economics

AGEC 4413 - Econ of Environmental Management

BIOL 3863/3861L - General Ecology

BIOL 4503 - Ecosystem Ecology

BIOL 485V - Field Ecology

ENSC 3253 - Septic Systems

ENSC 400V - Special Problems

GEOL 1113/1111L - General Geology/Lab  
GEOG 3003 - Conservation of Natural Resources  
GEOG 4543 - Geographic Info. Sys.

Select 11 hours from Soil Science:

CSES 2203/2201L - Soil Science/Lab(required)  
CSES 3214/3210D - Intermediate Soil Science/Disc  
CSES 355V - Judging Team Activity (1-2 hours)  
CSES 4224/4220L - Soil Fertility/Lab  
CSES 4253/4250L - Soil Classification and Genesis/Lab  
CSES/ENSC 4263 - Env. Soil Sci.

Select 9 hours from Water Science:

ENSC 4023/4020L - Water Quality/Lab (required)  
ENSC 3263/3260L - Environmental Soil and Water Conservation/Lab  
AGME 4973 - Irrigation  
AGME 4983 - Agricultural Meteorology  
GEOL 4033 - Hydrogeology  
GEOL 4043 - Water Resource Issues  
GEOG 4353 - Elements of Weather  
ZOOL 4814 - Limnology

Environmental science courses transferred from Northwest Arkansas Community College, Westark Community College and the University of Arkansas at Little Rock can be used to fulfill selected ESWS requirements. Consult an academic adviser to verify transfer applicability.

#### NEW CATALOG COPY

Courses in the Department of Crop, Soil, and Environmental Sciences provide fundamental and applied studies in two majors: Crop Management (CPMG) and Environmental, Soil, and Water Science (ESWS). Areas studied within the Crop Management major include plant breeding and genetics, crop and forage production, pest management (weeds, insects, and plant diseases) and soil fertility. The Environmental, Soil, and Water Science major includes courses in areas such as environmental science, water quality, soil science, soil and water conservation, and the sustainable productivity of natural resources. Supporting education in the basic sciences complements courses in the Crop Management and Environmental, Soil, and Water Science majors. Opportunities for employment and post-graduate study are numerous for graduates of the Department of Crop, Soil, and Environmental Sciences. Crop Management graduates become involved in crop production or find employment in public agencies providing support services for agriculture (e.g., Extension Service, State Plant Board, Natural Resources Conservation Service), as consultants serving production agriculture, in the agrichemical and seed industries, and in agricultural research programs. Environmental, Soil, and Water Science graduates find jobs with environmental consulting companies, environmental education organizations, state agencies (e.g. Extension Service, Department of Environmental Quality, Health Department), federal agencies (e.g. Environmental Protection Agency, Natural Resources Conservation Service), municipalities and local environmental services (e.g. waste management and recycling, water and wastewater treatment facilities, parks and tourism departments), and a wide variety of private businesses. Many graduates from both majors also choose to continue their educations in graduate programs in a wide variety of disciplines both related and complementary to their B.S. degrees.

Requirements for a B.S.A. degree with a major in environmental, soil, and water science: (See page 41 for University Core and page 68 for B.S.A. requirements)

35 hours of University Core requirements to include:

CHEM 1103/1101L and  
CHEM 1123/1121L  
MATH 2043 - Survey of Calculus

**University Advanced Composition Requirement:**

**ENGL 2003 - exemption possible**

**College Requirements: Comm 1313 and 3 hours communication elective selected from the following: AGED 3142/3141L, CSES 3023 or any course from ENGL, JOUR, or COMM**

**Electives: 20-21 hours**

**Departmental Requirements: 59-60 hrs**

**BOTY 1613/1611L or CSES 1203- Plant Biology/Lab or Introduction to Plant Sciences**

**BIOL 1543/1541L Principles of Biology/Lab**

**BIOL3863/3861L General Ecology/Lab or CSES 3223/3221LEcosystems Assessment/Lab**

**MBIO 2013/2011L - General Microbiology/Lab**

**GEO 1113/1111L General Geology/Lab**

**CHEM 2613/2611L - Organic Physiological Chem/Lab**

**AGST 4023 or STAT 2023 or STAT 2303- Principles of Experimentation or Biostatistics or Principles of Statistics**

**PHYS 2013/2011L - College Physics I/Lab**

**Environmental Sciences core:**

**CSES/ENSC 1011 - Introduction to Crop, Soil and Environmental Sciences**

**ENSC 1003 - Environmental Science**

**CSES 2203/2201L - Soil Science/Lab**

**ENSC 3003 - Introduction to Water Science**

**Select 3 hrs from Soil Science:**

**CSES 3214/3210L - Soil Resources and Nutrient Cycles/Lab**

**CSES 4224/4220L - Soil Fertility/Lab**

**CSES 4253/4250L - Soil Classification and Genesis/Lab**

**CSES/ENSC 4263 - Environmental Soil Science**

**Select 3 hrs from Water Science:**

**ENSC 4023/4020L - Water Quality/Lab**

**GEOG 3333 - Oceanography**

**GEO 4033/4030L - Hydrogeology/Lab**

**ZOOL 4814/4810L - Limnology/Lab**

**Select 12 hrs from at least 2 of the following 3 groups:**

**Methods/Techniques in Environmental Science**

**CSES 355V - Soil Profile Descriptions (1-2 hours)**

**CSES/BENG 4803 - Precision Agriculture**

**ENSC 3253 - Septic Systems**

**ENSC 3603 - GIS for Environmental Science**

**ENSC 4034 - Analysis of Environmental Contaminants**

**Environment & Society**

**AGEC 3413 - Principles of Environmental Economics**

**AGEC 3503 - Agricultural Law**

**ENSC 3933 - Environmental Ethics**

**ENSC/AGEC 4413 Economics of Env. Mgmt.**

**RSOC/SOCI 4603 - Environmental Sociology**

**Natural Resource Systems/Management**

**CSES 2013 - Pest Management**

**ENSC 3103 - Plants & Env. Restoration**

**ENSC 3263/3260L - Env. Soil & Water Conservation/Lab**

**Environmental science courses transferred from Northwest Arkansas Community College, Westark Community College and the University of Arkansas at Little Rock can be used to fulfill selected ESWS requirements. Consult an academic adviser to verify transfer applicability.**

**SECTION VIII: Action Recorded by Registrar's Office**

PROGRAM INVENTORY/DARS

PGRM \_\_\_                      SUBJ \_\_\_                      CIP \_\_\_                      CRTS

DGRE \_\_\_                      PGCT \_\_\_                      OFFC&CRTY VALID

REPORTING CODES

PROG. DEF. \_\_\_                      REQ. DEF.                      Initials \_\_\_                      Date

**Distribution**

Notification to:  
 (1) College                      (2) Department                      (3) Admissions                      (4) Institutional Research                      (5) Continuing Education                      (6) Graduate School  
 (7) Treasurer                      (8) Undergraduate Program Committee                      Initials \_\_\_                      Date

## ATTACHMENT 3

### ADD, CHANGE OR DELETE PROGRAM OR UNIT

Complete this form consistent with the instructions in Academic Policy 1622.20. Use the form to add, change, or delete a program or unit. Proposed additions and changes must be consistent with Academic Policies 1100.40 and 1621.10 and any other policies which apply.

#### SECTION I: Approvals

Department / Program Chair	Date Submitted	Faculty Senate Chair	Date
College Dean	Date	Provost	Date
Undergraduate Program Committee Chair	Date	Board of Trustees Approval Date	
Graduate Council Chair	Date	Arkansas Higher Education Coordinating Board Approval Date	

#### SECTION II: Profile Data - Required Information and Name Change Information

Academic Unit:      G Major/Field of Study    G Minor      GOther Unit  
Level:                G Undergraduate      G Graduate    G Law      Effective Catalog Year **2004**  
Current Name        **Food Science**  
College, School, Division                                  Department Code **FDSC**  
Current Code (6 digit Alpha) **FDSCBS**                                  Proposed Code (6 digit Alpha)  
Prior approval from the Office of the Registrar is required.  
GInterdisciplinary Program    CIP Code **02.0301**  
Prior assignment from Office of Institutional Research is required.  
Proposed Name  
When a program name is changed, enrollment of current students reflects the new name.

#### SECTION III: Add a New Program/Unit

G For new program proposals, complete Sections II and VII and use as a cover sheet for a full program proposal as described in 'Criteria and Procedures for Preparing Proposals for New Programs in Arkansas.' ADHE  
<<http://www.adhe.arknet.edu.aadept.html>>.

#### SECTION IV: Eliminate an Existing Program/Unit

Code/Name \_\_\_ Effective Catalog Year  
No new students admitted to program after Term: Year: \_\_\_  
Allow students in program to complete under this program until Term: \_ Year:

#### SECTION V: Proposed Changes to an Existing Program

Insert here a statement of the exact changes to be made: **Change choices offered to fulfill statistics requirement by deleting ISYS 2013 Business Statistics (replaced by WCOB in Spring 04 with WCOB 1033 Data Analysis & Interpretation) and adding STAT 2023 Biostatistics and PSYC 2013 Introduction to Statistics for Psychologists to current list of course options that includes STAT 2303 Principles of Statistics and AGST 4023 Principles of Experimentation.**

Check all the boxes that apply and complete the required sections of the form:

GChange of Name and Code (Complete only sections I, II, V and VII.)

GChange Course Requirements: (Complete all sections of the form except "Proposed Name" in II, section III, and section IV.)

GChange Delivery Site/Method (Complete all sections of the form except "Proposed Name" in II, section III, and section IV.)

GChange Total Hours (Complete all sections of the form except "Proposed Name" in II, section III, and section IV.)

## **SECTION VI: Justification**

*Justify this change and state its likely effect on any other degree program (including those outside the school or college). Identify any program or program components (other than courses) to be eliminated if this program is implemented. (Program and course change forms must also be submitted for such related changes.)*

**Purpose of this change is to increase course options for students allowing choice of course that best fits their needs (ie students wishing to fulfill pre-med requirements are encouraged by their pre-med advisors to take Biostatistics). Change in course option list would significantly reduce number of requested course substitutions.**

## **SECTION VII: Catalog Text and Format**

*Insert the current catalog text and the proposed catalog text. Be sure that the proposed text includes all the elements listed below in order. Do not include university requirements or college requirements. Do not substitute a sample schedule for an explicit statement of requirements. Use standard terms and vocabulary (see Academic Policy 1621.10).*

**Include the following elements, in order, in the catalog text for proposed undergraduate program(s) or program changes:**

- State complete major/program name
- Briefly define or describe the major/program or discipline.
- Identify typical career goals or paths for graduates. (Optional)
- State admission requirements (if any) for entry or entry into upper/advanced level of major/program.
- Identify location in catalog of university, college/school, and department/program requirements which the student must meet in addition to hours in the major, but do not restate these requirements.
- State course requirements in the major and any allied areas, giving number of hours and specific courses; specify electives or elective areas and give numbers of hours and courses in elective pools or categories; identify any other course requirements.
- State any other requirements (required GPA, internship, exit exam, project, thesis, etc.).
- Identify name and requirements for each concentration (if any).
- Specify whether a minor or other program component is allowed or required and provide details.

**For minors, state requirements in terms of hours, required courses, electives, etc.**

**For graduate program/units, include elements (as needed) parallel to those listed for undergraduate programs above.**

**For Law School program/units, prepare text consistent with current catalog style.**

**For centers, prepare text consistent with current catalog style.**

### **Old Catalog Text:**

#### **Requirements for Food Science Concentration (FDSC):**

**CHEM 3813 - Intro to Biochemistry**

**MATH 1213 - Trigonometry**

**MATH 2554 - Calculus I**

**PHYS 2013-2011L - College Physics I**

**ISYS 2013 or STAT 2303 or AGST 4023 - Statistics**

**HESC 3204 - Nutrition for Health Professionals and Educators**

**FDSC 4114/4110L - Food Analysis/Lab**

**FDSC 4124/4120L - Food Microbiology/Lab**

**FDSC 4201/4200L - Quality Evaluation and Control/Lab**

**FDSC 4304/4300L - Food Chemistry/Lab**

**FDSC 4413/4410L - Sensory Evaluation of Food/Lab**

**FDSC 4754/4750L - Engineering Principles of Food Processing/Lab**

### **Proposed Catalog Text:**

1622.20A p/vcaa 10/1/00  
FDSCBS.doc

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- Requirements for Food Science Concentration (FDSC):**  
**CHEM 3813 - Intro to Biochemistry**  
**MATH 1213 - Trigonometry**  
**MATH 2554 - Calculus I**  
**PHYS 2013/2011L - College Physics I**  
**STAT 2303 or STAT 2023 or PSYC 2013 or AGST 4023 - Statistics**  
**HESC 3204 - Nutrition for Health Professionals and Educators**  
**FDSC 4114/4110L - Food Analysis/Lab**  
**FDSC 4124/4120L - Food Microbiology/Lab**  
**FDSC 4203/4200L - Quality Evaluation and Control/Lab**  
**FDSC 4304/4300L - Food Chemistry/Lab**  
**FDSC 4413/4410L - Sensory Evaluation of Food/Lab**  
**FDSC 4754/4750L - Engineering Principles of Food Processing/Lab**

**SECTION VIII: Action Recorded by Registrar's Office**

PROGRAM INVENTORY/DARS

PGRM \_\_\_                      SUBJ \_\_\_                      CIP \_\_\_                      CRTS  
 DGRE \_\_\_                      PGCT \_\_\_                      OFFC&CRTY VALID

REPORTING CODES

PROG. DEF. \_\_\_                      REQ. DEF.                      Initials \_\_\_                      Date

Distribution

Notification to:

- |               |                                     |                |                            |                          |                     |
|---------------|-------------------------------------|----------------|----------------------------|--------------------------|---------------------|
| (1) College   | (2) Department                      | (3) Admissions | (4) Institutional Research | (5) Continuing Education | (6) Graduate School |
| (7) Treasurer | (8) Undergraduate Program Committee |                |                            | Initials ___             | Date                |

## **PROGRAM CHANGES, UNIVERSITY COURSE AND PROGRAMS COMMITTEE**

27-Feb-04

### **Table E: Bumpers College of Agricultural, Food and Life Sciences**

#### Department of Crop, Soil and Environmental Sciences

##### ESWS-M - ATTACHMENT 1

Several changes in course requirements. Please see attachment for details.

##### ESWSBS - ATTACHMENT 2

The requirements for the CSES Bachelor of Science degree in Environmental Soil and Water Science (ESWSBS) will change to incorporate a broader range of environmental science topic areas than is currently being covered. The proposed changes are given in the attachment.

#### Department of Food Science

##### FDSCBS - ATTACHMENT 3

Change choices offered to fulfill statistics requirement by deleting ISYS 2013 Business Statistics (replaced by WCOB in Spring 04 with WCOB 1033 Data Analysis & Interpretation) and adding STAT 2023 Biostatistics and PSYC 2013 Introduction to Statistics for Psychologists to current list of course options that includes STAT 2303 Principles of Statistics and AGST 4023 Principles of Experimentation.

### **Table F: Walton College of Business**

#### Department of Finance

##### BADM - ATTACHMENT 4

Change in course requirements for a finance concentration in Business Minor for Non-Business students.

### **Table G: College of Education and Health Professions**

#### Department of Curriculum and Instruction

##### ELEDBS - ATTACHMENTS 5,6

Create a second option for the BSE degree in elementary education that will lead to Arkansas teacher licensure; option will be delivered in collaboration with community college. Thirty-one hours of new courses will be required.

# ATTACHMENT 4

## ADD, CHANGE OR DELETE PROGRAM OR UNIT

Complete this form consistent with the instructions in Academic Policy 1622.20. Use the form to add, change, or delete a program or unit. Proposed additions and changes must be consistent with Academic Policies 1100.40 and 1621.10 and any other policies which apply.

### SECTION I: Approvals

Department / Program Chair	Date Submitted	Faculty Senate Chair	Date
College Dean	Date	Provost	Date
Undergraduate Program Committee Chair	Date	Board of Trustees Approval Date	
Graduate Council Chair	Date	Arkansas Higher Education Coordinating Board Approval Date	

### SECTION II: Profile Data - Required Information and Name Change Information

Academic Unit:      G Major/Field of Study    G Minor      G Other Unit

Level:              G Undergraduate      G Graduate      G Law      Effective Catalog Year 2004

Current Name      **Business Minor for Non-Business Students: Finance Concentration**

College, School, Division                      Department Code **FINN**

Current Code (6 digit Alpha)                             Proposed Code (6 digit Alpha)  
Prior approval from the Office of the Registrar is required.

G Interdisciplinary Program                      CIP Code  
Prior assignment from Office of Institutional Research is required.

Proposed Name  
When a program name is changed, enrollment of current students reflects the new name.

### SECTION III: Add a New Program/Unit

**G** For new program proposals, complete Sections II and VII and use as a cover sheet for a full program proposal as described in 'Criteria and Procedures for Preparing Proposals for New Programs in Arkansas.' ADHE <<http://www.adhe.arknet.edu.aadept.html>>.

### SECTION IV: Eliminate an Existing Program/Unit

Code/Name        Effective Catalog Year

No new students admitted to program after Term: Year:       

Allow students in program to complete under this program until Term:    Year:

### SECTION V: Proposed Changes to an Existing Program

Insert here a statement of the exact changes to be made: **Change in course requirements for a finance concentration in Business Minor for Non-Business students.**

Check all the boxes that apply and complete the required sections of the form:

Change of Name and Code (Complete only sections I, II, V and VII.)

GChange Course Requirements: (Complete all sections of the form except "Proposed Name" in II, section III, and section

IV.)

GChange Delivery Site/Method (Complete all sections of the form except "Proposed Name" in II, section III, and section

IV.)

GChange Total Hours (Complete all sections of the form except "Proposed Name" in II, section III, and section IV.)

**SECTION VI: Justification**

*Justify this change and state its likely effect on any other degree program (including those outside the school or college). Identify any program or program components (other than courses) to be eliminated if this program is implemented. (Program and course change forms must also be submitted for such related changes.)*

**The current proposed concentration in finance for non-business students is unnecessarily restrictive. The revision to the proposed concentration will better meet the needs of non-business students who take the finance concentration as a career enhancing complement to their non-business major.**

**SECTION VII: Catalog Text and Format**

*Insert the current catalog text and the proposed catalog text. Be sure that the proposed text includes all the elements listed below in order. Do not include university requirements or college requirements. Do not substitute a sample schedule for an explicit statement of requirements. Use standard terms and vocabulary (see Academic Policy 1621.10).*

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**OLD CATALOG COPY**

**Concentration 4 - Finance**

<b>FINN 3043</b>	<b>Financial Analysis and Valuation</b>	<b>3</b>
<b><u>Plus any 3 of the 4 courses</u></b>		
<b>FINN 3053</b>	<b>Financial Markets and Institutions*</b>	<b>3</b>
<b>FINN 3063</b>	<b>Investments</b>	<b>3</b>
<b>FINN 3603</b>	<b>Corporate Finance</b>	<b>3</b>
<b>FINN 3703</b>	<b>International Finance</b>	<b>3</b>
<b>Total</b>		<b>12</b>

**NEW CATALOG COPY**

**Concentration 4 - Finance**

**WCOB 2043 Acquiring and Managing Financial Resources**

**Plus an additional nine (9) credit hours of 3000-4000 level coursework in finance.**

**SECTION VIII: Action Recorded by Registrar's Office**

PROGRAM INVENTORY/DARS

PGRM \_\_\_ SUBJ \_\_\_ CIP \_\_\_ CRTS

DGRE \_\_\_ PGCT \_\_\_ OFFC&CRTY VALID

REPORTING CODES

PROG. DEF. \_\_\_ REQ. DEF. Initials \_\_\_ Date

Distribution

Notification to:

(1) College (2) Department (3) Admissions (4) Institutional Research (5) Continuing Education (6) Graduate School  
(7) Treasurer (8) Undergraduate Program Committee Initials \_\_\_ Date

## **PROGRAM CHANGES, UNIVERSITY COURSE AND PROGRAMS COMMITTEE**

27-Feb-04

### **Table E: Bumpers College of Agricultural, Food and Life Sciences**

#### Department of Crop, Soil and Environmental Sciences

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#### Department of Food Science

##### FDSCBS - ATTACHMENT 3

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#### Department of Finance

##### BADM - ATTACHMENT 4

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#### Department of Curriculum and Instruction

##### ELEDBS - ATTACHMENTS 5,6

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## ATTACHMENT 5

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#### SECTION I: Approvals

Department / Program Chair	Date Submitted	Faculty Senate Chair	Date
College Dean	Date	Provost	Date
Undergraduate Program Committee Chair	Date	Board of Trustees Approval Date	
Graduate Council Chair	Date	Arkansas Higher Education Coordinating Board Approval Date	

#### SECTION II: Profile Data - Required Information and Name Change Information

Academic Unit:      G Major/Field of Study      G Minor      GOther Unit

Level:                      G Undergraduate      G Graduate      G Law      Effective Catalog Year 2004

Current Name              Elementary Education

College, School, Division                      Department Code CIED

Current Code (6 digit Alpha) ELEDBS                       Proposed Code (6 digit Alpha)  
Prior approval from the Office of the Registrar is required.

GInterdisciplinary Program                      CIP Code  
Prior assignment from Office of Institutional Research is required.

Proposed Name  
When a program name is changed, enrollment of current students reflects the new name.

#### SECTION III: Add a New Program/Unit

G For new program proposals, complete Sections II and VII and use as a cover sheet for a full program proposal as described in 'Criteria and Procedures for Preparing Proposals for New Programs in Arkansas.' ADHE  
<<http://www.adhe.arknet.edu.aadept.html>>.

#### SECTION IV: Eliminate an Existing Program/Unit

Code/Name          Effective Catalog Year         

No new students admitted to program after Term: Year:         

Allow students in program to complete under this program until Term:          Year:         

#### SECTION V: Proposed Changes to an Existing Program

Insert here a statement of the exact changes to be made: Create a second option for the BSE degree in elementary education that will lead to Arkansas teacher licensure; option will be delivered in collaboration with community college. 31 hours of new courses will be required.

Check all the boxes that apply and complete the required sections of the form:

GChange of Name and Code (Complete only sections I, II, V and VII.)

GChange Course Requirements: (Complete all sections of the form except "Proposed Name" in II, section III, and section

IV.)

GChange Delivery Site/Method (Complete all sections of the form except "Proposed Name" in II, section III, and section

IV.)

GChange Total Hours (Complete all sections of the form except "Proposed Name" in II, section III, and section IV.)

## **SECTION VI: Justification**

*Justify this change and state its likely effect on any other degree program (including those outside the school or college). Identify any program or program components (other than courses) to be eliminated if this program is implemented. (Program and course change forms must also be submitted for such related changes.)*

**Teacher shortages are becoming critical all across the United States, and northwest Arkansas is no exception. The demand for increasing the number of newly licensed teachers continues to grow, but university training programs are not growing in response. The proposed program would add another site in northwest Arkansas and offer a teacher licensure program at the BSE level. Currently, the only licensure program at the University of Arkansas is a fifth year, Master of Arts in Teaching program. The proposed program would offer an option to students who are enrolled in NWACC and allow them to complete their BSE and teacher licensure through the University of Arkansas in four years. Teachers completing this program would significantly impact the availability of teachers in this region of the state, especially in the Rogers and Bentonville area.**

## **SECTION VII: Catalog Text and Format**

*Insert the current catalog text and the proposed catalog text. Be sure that the proposed text includes all the elements listed below in order. Do not include university requirements or college requirements. Do not substitute a sample schedule for an explicit statement of requirements. Use standard terms and vocabulary (see Academic Policy 1621.10).*

**Include the following elements, in order, in the catalog text for proposed undergraduate program(s) or program changes:**

- State complete major/program name
- Briefly define or describe the major/program or discipline.
- Identify typical career goals or paths for graduates. (Optional)
- State admission requirements (if any) for entry or entry into upper/advanced level of major/program.
- Identify location in catalog of university, college/school, and department/program requirements which the student must meet in addition to hours in the major, but do not restate these requirements.
- State course requirements in the major and any allied areas, giving number of hours and specific courses; specify electives or elective areas and give numbers of hours and courses in elective pools or categories; identify any other course requirements.
- State any other requirements (required GPA, internship, exit exam, project, thesis, etc.).
- Identify name and requirements for each concentration (if any).
- Specify whether a minor or other program component is allowed or required and provide details.

**For minors, state requirements in terms of hours, required courses, electives, etc.**

**For graduate program/units, include elements (as needed) parallel to those listed for undergraduate programs above.**

**For Law School program/units, prepare text consistent with current catalog style.**

**For centers, prepare text consistent with current catalog style.**

### **Bachelor of Science in Education in Elementary Education, Option II (in conjunction with NWACC)**

**This proposal is for the creation of a partnership between the University of Arkansas, Fayetteville, and the Northwest Arkansas Community College to develop a program for caring early childhood scholar-practitioner educators who are eligible for initial P-4 teacher certification in the state of Arkansas.**

**This will be a four-year plus one half summer sequenced program. Classes for the senior year are blocked and must be taken together. The senior year is also site-based student teaching four days of the week with one day for classes. The first two years of classes are primarily from those already available at NWACC. The junior and senior year classes will include 11 new courses to be included with others selected from those currently offered by the University. The new proposed classes include an early childhood preschool/kindergarten course ( 3 hrs) with a one hour practicum; a student teaching class (3 hrs.), a senior project class (3 hrs.), a senior seminar (3 hrs.), a research & readings course (3 hrs.), behavior management class (3 hrs.)**



**curriculum development and design class (3 hrs.); three new methods classes (9 hrs.) for a total of 31 hours. The total proposed program will be 129 hours that will include four academic years plus a summer session prior to the senior year.**

**Admission Requirements:**

**Successful completion of prerequisites.**

**Establish a minimum 2.5 GPA**

**Passing scores on all parts of PRAXIS I**

**“C” or higher in the following courses or their equivalent:**

**ENGL 1013, ENGL 1023, ENGL 2003 or exempt, COMM 1313, MATH 1203 or higher, ETEC 2001, ETEC 2002L, CIED 1002, CIED 1011**

**SECTION VIII: Action Recorded by Registrar's Office**

PROGRAM INVENTORY/DARS

PGRM \_\_\_                      SUBJ \_\_\_                      CIP \_\_\_                      CRTS

DGRE \_\_\_                      PGCT \_\_\_                      OFFC&CRTY VALID

REPORTING CODES

PROG. DEF. \_\_\_                      REQ. DEF.                      Initials \_\_\_                      Date

Distribution

Notification to:

- |               |                                     |                |                            |  |                     |
|---------------|-------------------------------------|----------------|----------------------------|--|---------------------|
| (1) College   | (2) Department                      | (3) Admissions | (4) Institutional Research | (5) Continuing Education               | (6) Graduate School |
| (7) Treasurer | (8) Undergraduate Program Committee |                |                            | Initials ___                      Date |                     |

## **ATTACHMENT 6**

### **Proposal to Add a Second Option to the BSE Degree Program in Elementary Education**

#### **Complete Major/Program Name**

Bachelor of Science in Education in Elementary Education, Option II (in conjunction with NWACC)

#### **Describe Major/Program or Discipline**

The B.S.E. degree in Elementary Education, Option II, prepares teachers for grades P-4 and meets requirements for an initial Arkansas teaching license in Childhood Education, P-4.

#### **Admission Requirements**

Successful completion of prerequisites.

Establish a minimum 2.5 GPA

Passing scores on all parts of PRAXIS I

“C” or higher in the following courses or their equivalent:

ENGL 1013, ENGL 1023, ENGL 2003 or exempt, COMM 1313, MATH 1203 or higher, ETEC 2001, ETEC 2002L, CIED 1002, CIED 1011

#### **Course Requirements**

Overview of Curriculum:

The curriculum consists of a minimum of 129 hours. The first two years of the program would be offered at NWACC and would culminate in the Associate of Arts degree.

Following completion of the prescribed courses and additional admission requirements, students would be eligible to be enrolled in the junior year of the program, provided by the University of Arkansas.

*Freshman Year*

**Fall (17)**  
ENGL 1013 Comp I  
MATH 1204 College Algebra  
BIOL 1544 Principles of Biology/lab  
AHSC 1023 First Responder  
CIED 1002/1001 Intro. to Ed. & Pract.

**Spring (16)**  
ENGL 1023 Comp II  
GEOL 1114 General Geology  
MATH 2213 Math Structures I  
CHED 1003 Foundations & Theories  
in Early Childhood Education  
PSYC 2003 General Psychology

*Sophomore Year*

**Fall (16)**  
ART 1003 Art Appreciation  
PHYS 1024 Physics & Human Affairs  
CHED 1033 Creative Experiences  
MATH 2223 Math Structures II  
ENGL 2213 or 2223 (WLIT)

**Spring (18)**  
ETEC 2003 Educational Tech. & lab  
GEOG 1123 Human Geography  
ART 1003 Intro to Art Studio  
COMM 1313 Fund. Of Communication  
PLSC 2003 Amer. Nat. Govt.  
CHED 2033 Child Development

*Junior Year*

**Fall (16)**  
CIED 3023 Survey of Exceptionalities  
CIED 3033 Classroom Learning Theory  
ARED 3603 Public School Art  
CIED 3003 Early Child. Ed. \*  
CIED 3001 Practicum\*  
CIED 3103 Children's Lit.

**Spring (16)**  
CIED 3123 Mathematics Methods  
CIED 3113 Emer. & Dev. Literacy  
CIED 3143 Teaching Science  
CIED 3133 Integrated Social Studies  
CIED 4101 Practicum  
MUED 3813/3810L Music ELED Majors

*Summer (6)*

CIED 4323 Instructional Design for Teachers  
CIED 4253 Curriculum Design for Teachers\*

*Senior Year*

**Fall (12)**  
CIED 4173 Student teaching\*  
CIED 4153 Classroom Mgt\*  
CIED 4133 Research, Meas., & Rdgs\*  
CIED 5933 Second Lang. Meth.

**Spring (12)**  
CIED 4173 Student teaching—3 hrs.  
CIED 4163 Senior Project\*  
CIED 4003 Elementary Seminar  
HIST 2053 History of Arkansas

**Total hours: 129**

**Advanced Comp. is required unless exemption is gained through exemption exam or appropriate grades in Comp. I & II.**

## **Proposal to Add a Second Option to the BSE Degree Program in Elementary Education at an Off-Campus Site**

### **Proposed Program Title**

Bachelor of Science in Elementary Education, Option II

Option II of the BSE results in eligibility for initial Arkansas licensure, P-4.

### **CIP Code Requested**

### **Contact Person**

Tom E.C. Smith, Department of Curriculum and Instruction, University of Arkansas, 201 Graduate Education Building, Fayetteville, AR 72701, [tecsmith@uark.edu](mailto:tecsmith@uark.edu)

### **Proposed Starting Date**

Fall 2004

### **Proposed Location**

Northwest Arkansas Community College, Bentonville/Rogers

### **Program Summary**

General Description:

Northwest Arkansas Community College (NWACC) would like to enter into an arrangement with the College of Education and Health Professions (COEHP), University of Arkansas, to provide junior and senior coursework that would result in a University of Arkansas Bachelor of Science in Education degree and an initial teaching license in elementary education (P-4). Currently the Elementary Education/Childhood Education program only endorses individuals for a teaching license in Arkansas through the Master of Arts in Teaching (MAT) program. While this program has been recognized as an award winning teacher preparation program, teacher shortages in Arkansas have resulted in a need to expand the program to include licensure at the BSE level. NWACC is interested in developing a joint program where students complete the BSE degree on their campus. This joint program would greatly alleviate the teacher shortage in northwest Arkansas and would serve as a model for collaborative efforts between the University of Arkansas and NWACC.

Courses and internships/practica for the program would be delivered on the NWACC campus and surrounding communities via on-site instructors or distance education.

This proposal is for the creation of a partnership between the University of Arkansas, Fayetteville, and the Northwest Arkansas Community College to develop a program for caring early childhood scholar-practitioner educators who are eligible for initial P-4 teacher certification in the state of Arkansas.

This will be a four-year plus one half summer sequenced program. Classes for the senior year are blocked and must be taken together. The senior year is also site-based student teaching four days of the week with one day for classes. The first two years of classes are primarily from those already available at NWACC. The junior and senior year classes will include four new courses to be included with others selected from those currently offered by the University. The eleven new proposed classes include an early childhood preschool/kindergarten class of 3 hours, with a one-hour practicum; a behavior management class (3 hrs.); a student teaching course (3 hrs.), a senior project (3 hrs.), a curriculum design course (3 hrs.), a senior seminar (3 hrs.); a measurement, research, and readings course (3 hrs.); and three new methods courses. The total proposed program will be 129 hours that will include four academic years plus a summer session prior to the senior year.

Faculty to teach classes and supervise student teachers plus an administrator for the student teaching program would need to be hired. This would be the equivalent of 2.0 FTE clinical faculty for the first year of course offerings, and 3.0 for each year thereafter. The program cannot be delivered without these additional faculty lines. Arrangements with public schools to host student teachers and to be part of an advisory board along with other interested parties would need to be established. Designing the assessment program and check points prior to the start of the program would also need consideration.

It is proposed that the seminar class be a large group meeting on the class day. Within schools the supervisor will have a weekly or biweekly lunchtime meeting with students to handle scheduling observations and other concerns. A director of supervisors will be responsible for overseeing the supervision operation and will report to a director of student teaching who will be responsible for school placements, school policies, evaluation and general administration of the program.

### **Need for the Program Option**

Teacher shortages are becoming critical all across the United States, and northwest Arkansas is no exception. The demand for increasing the number of newly licensed teachers continues to grow, but university training programs are not growing in response. The proposed program would add another site in northwest Arkansas and offer a teacher licensure program at the BSE level. Currently, the only licensure program at the University of Arkansas is a fifth year, Master of Arts in Teaching program. The proposed program would offer an option to students who are enrolled in NWACC and allow them to complete their BSE and teacher licensure through the University of Arkansas in four years. Teachers completing this program would significantly impact the

availability of teachers in this region of the state, especially in the Rogers and Bentonville area.

Officials at NWACC indicate that there are approximately 80 students who are interested in enrolling in the proposed program. If only half of this number enrolled each year, an additional 40 teachers would be prepared to enter the job market annually.

### **Faculty**

Dr. Lavonne Kirkpatrick, Assistant Professor, University of Arkansas; Dr. Emilie Sullivan, Associate Professor, University of Arkansas; Dr. Christy McGee, Associate Professor, University of Arkansas, Dr. Linda Eilers, Assistant Professor, University of Arkansas; and three additional clinical faculty employed specifically to assist in delivering the proposed program.

### **Description of Resources**

NWACC is developing a university center with state-of-the-art distance education and teaching facilities. Coursework for the program would be delivered in combination of on-site instruction, compressed video, and web-based courses. Field-based coursework would constitute a significant part of the final year of the program when students are in a full-time, one year internship.

### **New Program Costs**

Costs for administrative support, faculty, equipment, facilities, library resources, research activities, and distance delivery will be supported, to a large degree, through a cost-recovery basis through student tuition with the Division of Continuing Education, University of Arkansas. In addition, the university will support the addition of 2.0 FTE during the first year of the program and an additional 1.0 beginning with the second year. Clinical faculty supported by the faculty lines will primarily focus on the delivery of the proposed program.

### **Sources of Funding**

Tuition and fees will be used to support the program on a cost-recovery basis. The Division of Continuing Education, University of Arkansas, collects tuition and fees, reimburses faculty for travel, pays faculty stipends, and supports marketing the program through tuition generated by student enrollment in this program. Indirectly, the university will support the program through the approval of additional clinical lines.

### **Board of Trustees Approval**

The Board of Trustees approved the original BSE program several years ago. This is a request to modify the program and add an additional off-campus delivery site.

### **Similar Program Options in Arkansas and in Adjoining States**

There are no other programs like this in Arkansas where a community college is partnering with a four-year college to complete the BSE degree requirements.

### **Desegregation**

The University of Arkansas had a 6.2% black student enrollment in 2001. The undergraduate degree completion program has had a similar percentage of black students since its inception. It is anticipated that students entering the proposed program will comprise a similar percentage.

### **Institutional/Corporate Agreements**

A Memorandum of Understanding (MOU) between the University of Arkansas and Northwest Arkansas Community College (NWACC) and a letter of invitation from NWACC are attached.

Memorandum of Understanding

For a Bachelor of Science in Education Degree

in

Elementary Education

To be offered

By the University of Arkansas

Department of Curriculum and Instruction

At

Northwest Arkansas Community College

Fall 2004



## Agreement

Northwest Arkansas Community College (NWACC) in Bentonville/Rogers and the University of Arkansas, Fayetteville, agree to provide the junior and senior level courses needed to complete a Bachelor of Science in Education in Elementary Education on the NWACC campus. Assuming that there are sufficient students enrolled to commence the two-year cycle, the specifics of this agreement are outlined below:

### I. The University of Arkansas will:

- A. Offer undergraduate courses each fall and spring for a period of two years, starting Fall 2005 and completing Spring 2007. The courses will be delivered to NWACC using a combination of compressed video, web-based courses, and on-site courses. The schedule for these classes will be developed with input from NWACC administrators to ensure maximum student participation. Courses during the second year of the cycle will be field-based, in conjunction with a full-time internship in local public schools. (Upon completion of the first two-year rotation, the possibility of continuing the partnership will be evaluated by both institutions.)
- B. Mail registration materials/course materials to NWACC prior to the beginning of classes. Registration will be handled through the Division of Continuing Education, University of Arkansas.
- C. Offer arranged internships and experiential learning courses to support the program option to NWACC based students as required.
- D. Provide student advisement concerning program of study issues to students enrolled in the program.

### II. Northwest Arkansas Community College will:

- A. Host the BSE program option for a minimum of two years.
- B. Designate a person to serve as point-of-contact for persons wishing to enroll in the BSE program option and to facilitate the delivery of the option on the NWACC campus, including assistance with distance education programs.
- C. Assist in marketing the BSE program option by making information concerning the program available to interested persons.

### III. Assumptions:

- A. Students accepted into this program must meet all the requirements for admission to the program option and to the University of Arkansas.

- B. Students will be accepted into the program only at the beginning of the two-year rotation.
- C. Students seeking financial aid will follow procedures for application for financial aid through the University of Arkansas, Office of Financial Aid.
- D. Communication between the two institutions will be consistently maintained throughout the period of this agreement.
- E. Points of contact between the two institutions concerning programmatic issues will be Dr. Tom Smith, Department of Curriculum and Instruction, and Dr. , NWACC.
- F. Both institutions will re-evaluate the program after the first two-year rotation to determine the feasibility of the UA continuing to offer the program option at NWACC

## Official Signatures

We agree to the above statements and indicate by our signatures our commitment to a University Center program of excellence and service to students in Northwest Arkansas Community College.

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Reed Greenwood, Dean  
College of Education and Health Professions  
University of Arkansas, Fayetteville

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Donnie Dutton, Dean  
Continuing Education  
University of Arkansas, Fayetteville

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John A. White, Chancellor  
University of Arkansas, Fayetteville

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Date