

This articulation agreement outlines a joint Program of Study between Tennessee State University (TSU) and Dyersburg State Community College (DSCC). The agreement specifies which courses may be taken and transferred from the Associate of Science (A.S.) Degree with an emphasis in General Studies (or Biology for the Animal Science/Pre-Vet and Biotech Concentrations) at DSCC to meet general education, major, and elective requirements for respective Concentrations in the Agricultural Sciences major at TSU. The Concentrations in the Agricultural Sciences Major include:

- 1) Agricultural and Extension Education with an option for 1) *Teacher Licensure in Agricultural Education and Agriscience* OR 2) a focus on Leadership and Communication
- 2) Food Bioscience and Technology
- 3) Animal Science OR Animal Science/Pre-Vet
- 4) Biotechnology

DSCC students who follow the program of study outlined in the respective articulation agreement are given academic credit for courses listed in the curriculum matrix. In the event of program revisions at TSU or DSCC, this agreement is subject to revision. This agreement is in accordance with guidelines established by the Tennessee Board of Regents (TBR) for articulation agreements between community colleges and universities.

#### Dyersburg State Community College

By: Teri Maddox Vice President 3.26.15  
Teri Maddox Title Date

By: Karen A. Bowyer President 3-26-15  
Karen A. Bowyer Title Date

#### Tennessee State University

By: Chandra Reddy Dean, CAHNS 4/7/15  
Chandra Reddy Title Date

By: Mark G. Hardy VP, Academic Affairs 4/24/15  
Mark G. Hardy Title Date

By: Dr. Glenda Glover President 4/17/15  
Dr. Glenda Glover Title Date

## Agricultural and Extension Education

The programs of study outlined below lead to the **Associate of Science (A.S.)** degree with an emphasis in **General Studies** from Dyersburg State Community College (DSCC) and a **Bachelor of Science (B.S.)** degree in **Agricultural Sciences** with a Concentration in **Agricultural and Extension Education** which includes **Teacher Licensure in Agricultural Education (7-12)** and **Agricultural Science (7-12)** from Tennessee State University (TSU).

This articulation agreement recognizes the following course work is needed to complete an A.S. degree at Dyersburg State Community College.

### DYERSBURG STATE COMMUNITY COLLEGE - A.S. emphasis in General Studies

Freshman	Fall	Spring	Sophomore	Fall	Spring
ENGL 1010	3		SPCH 1010		3
ENGL 1020		3	HIST Elective (2010, 2020, 2030)	3	3
AGRI 1010	3		ENGL 2110, 2120, 2210, 2220, 2310, 2320		3
BIOL 1110	4		ECON 2010		3
MATH 1530	3		AGRI 1030	3	
AGRI 1020		3	AGRI 1050	4	
PSYC 1030		3	INFS 1010		3
CHEM 1110		4	Humanities/Fine Arts	3	
Humanities/Fine Arts		3			
ORN 1010	3				
<b>TOTAL</b>	<b>16</b>	<b>16</b>		<b>13</b>	<b>15</b>

**A.S. Degree Total . . . . . 60**

#### Condition(s) for transfer

- This articulation agreement applies only to the B.S. degree in Agricultural Sciences with a Concentration in Agricultural and Extension Education, which includes Teacher Licensure in Agricultural Education (7-12) and Agricultural Science (7-12) from Tennessee State University (TSU). Any future changes to the degree program may not be applicable to this agreement and may necessitate renegotiation.
- A change of major invalidates these courses/credits for transfer unless they are approved within some other program-to-program articulation agreement for a different major at TSU.
- A minimum 2.00 Grade Point Average (GPA) is required for transferable credits. For admission into upper division teacher education courses a 2.75 GPA is required.
- The following Course Substitution Chart articulates some of the common DSCC courses that are interchangeable with the TSU program in Agricultural Education. Courses with the same course number at each institution are not noted in the chart below. General Education Core courses where students have different options are not listed in the chart.

This articulation agreement recognizes the following course work is needed to complete the B.S. degree in Agricultural & Environmental Sciences/Concentration in Agricultural and Extension Education with Teacher Licensure in Agricultural Education at TSU.

**TENNESSEE STATE UNIVERSITY – B.S. Agricultural Sciences/Concentration in Agricultural Education with Teacher Licensure/Certification Agricultural Education (7-12) and Agriscience (7-12)**

<b>Junior</b>	<b>Fall</b>	<b>Spring</b>	<b>Senior</b>	<b>Fall</b>	<b>Spring</b>
AGSC 3090	3		AGSC 3070	3	
PSYC 2420	3		AGSC 3060	3	
EDCI 2010	3		EDSE 3330	3	
Animal Science Elective	3		EDCI 4620	6	
AGSC 3110	3		AGSC 4500		3
EDCI 3870		3	EDCI 4705		3
EDCI 4910		3	AGSC 4050		9
Horticulture Elective		3			
AGSC 3080		3			
AGSC 3050		3			
<b>TOTAL</b>	<b>15</b>	<b>15</b>		<b>15</b>	<b>15</b>

Students pursuing the Concentration in Agricultural Education do not have to focus on teaching. They may choose the **Leadership and Communication Option**. For this option the following course work is needed.

**TENNESSEE STATE UNIVERSITY – B.S. Agricultural Sciences/Concentration in Agricultural Education - Leadership & Communication Option**

<b>Junior</b>	<b>Fall</b>	<b>Spring</b>	<b>Senior</b>	<b>Fall</b>	<b>Spring</b>
AGSC 3090	3		AGSC 3070	3	
PSYC 2420 or Ag Elective	3		AGSC 3060	3	
EDCI 2010 or Ag Elective	3		AGSC Elective	3	3
Animal Science Elective	3		AGSC Elective		3
AGSC 3110	3		AGSC 4500		3
EDCI 3870		3	AGSC Elective	3	3
EDCI 4910		3	AGSC Elective	3	3
Horticulture Elective		3			
AGSC 3080		3			
AGSC 3050		3			
<b>TOTAL</b>	<b>15</b>	<b>15</b>		<b>15</b>	<b>15</b>

## Food Bioscience and Technology

The program of study outlined below leads to the **Associate of Science (A.S.)** degree with an emphasis in **General Studies** from Dyersburg State Community College (DSCC) and a **Bachelor of Science (B.S.)** degree in **Agricultural Sciences** with a Concentration in Food Bioscience and Technology from Tennessee State University (TSU).

This articulation agreement recognizes the following course work is needed to complete an A.S. degree at Dyersburg State Community College.

### DYERSBURG STATE COMMUNITY COLLEGE - A.S. emphasis in General Studies

Freshman	Fall	Spring	Sophomore	Fall	Spring
ENGL 1010	3		CHEM 1110 & 1120	4	4
ENGL 1020		3	HIST Elective (2010, 2020, 2030)	3	3
Humanities/Fine Arts Elective		3	Humanities/Fine Arts Elective	3	
BIOL 1110 Gen Bio I	4		ECON 2010		3
MATH 1530		3	AGRI 1030 Plant Sci	3	
AGRI 1020 An Sci	3		ENGL 2110, 2120, 2210, 2220, 2310, 2320		3
INFS 1010		3	Social and Behavioral Sciences Elective	3	
ORN 1010	3				
SPCH 1010		3			
AGRI 1010 Ag Bus	3				
<b>TOTAL</b>	<b>16</b>	<b>15</b>		<b>16</b>	<b>13</b>

**A.S. Degree Total . . . . . 60**

#### Condition(s) for transfer

- This articulation agreement applies only to the B.S. degree in Agricultural Sciences with a Concentration in Food Bioscience and Technology. Any future changes to the degree program may not be applicable to this agreement and may necessitate renegotiation.
- A change of major invalidates these courses/credits for transfer unless they are approved within some other program-to-program articulation agreement for a different major at TSU.
- A minimum 2.00 Grade Point Average (GPA) is required for transferable credits. For admission into upper division teacher education courses a 2.75 GPA is required.
- The following Course Substitution Chart articulates some of the common DSCC courses that are interchangeable with the TSU program in Agricultural Education. Courses with the same course number at each institution are not noted in the chart below. General Education Core courses where students have different options are not listed in the chart.

This articulation agreement recognizes the following course work is needed to complete the B.S. degree in Agricultural & Environmental Sciences/Concentration in Food Bioscience & Technology at TSU.

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**TENNESSEE STATE UNIVERSITY – B.S. Agricultural Sciences/Concentration in Food Bioscience and Technology.**

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<b>Junior</b>	<b>Fall</b>	<b>Spring</b>	<b>Senior</b>	<b>Fall</b>	<b>Spring</b>
CHEM 2010, 2011	4		AGSC 4280 Food Safety & Quality Assurance	3	
AGSC 3690 Food Eng & Proc	3		AGSC 4430 Animal Nutrition	3	
AGSC 3500 Prin of Food & Sci Tech	3		AGSC 4710, 4720	1	1
AGSC 2410 Intro to Poultry Sci	4		CHEM 3410, 3411	4	
AGSC 3540 Lab Instrumentation	3		AGSC 4450 Science of Meat	3	
CHEM 2020, 2021		4	AGSC 4460 Food Chem		3
AGSC 3510 Proc Milk & Milk Prod		3	AGSC 4500 Sr. Proj.		3
AGSC 3520 Processing Poultry Prod		3	CHEM 3420, 3421		4
AGSC 3530 Food Microbiology		4	AGSC Elective		3
UNIV 1000 Service to Lead		1			
<b>TOTAL</b>	<b>17</b>	<b>15</b>		<b>14</b>	<b>14</b>

## Animal Science

The programs of study outlined below lead to the **Associate of Science (A.S.)** degree in with an emphasis in **General Studies** from Dyersburg State Community College (DSCC) and a **Bachelor of Science (B.S.)** degree in **Agricultural Sciences with a Concentration in Animal Science** from Tennessee State University (TSU).

This articulation agreement recognizes the following course work is needed to complete an A.S. degree in Agriculture at Dyersburg State Community College.

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**DYERSBURG STATE COMMUNITY COLLEGE - A.S. emphasis in General Studies**

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Freshman	Fall	Spring	Sophomore	Fall	Spring
ENGL 1010	3		SPCH 1010		3
ENGL 1020		3	HIST Elective (2010, 2020, 2030)	3	3
Humanities/Fine Arts Elective	3	3	ENGL 2110, 2120, 2210, 2220, 2310, 2320		3
			ECON 2010		3
CHEM 1110	4		AGRI 1030	3	
MATH 1530		3	Social/Behavioral Elective	3	
AGRI 1020	3		INFS 1010		3
ORN 1010	3		AGRI 1010	3	
CHEM 1120		4	MATH 1710*	3	
General Electives Credit		1			
<b>TOTAL</b>	<b>16</b>	<b>14</b>		<b>15</b>	<b>15</b>

\*Unless students earned at least a 22 on the ACT Math, they must take MATH 1005 prior to MATH 1710

**A.S. Degree Total . . . . . 60**

**Condition(s) for transfer**

- This articulation agreement applies only to the B.S. degree in Agricultural Sciences with a Concentration in Animal Science. Any future changes to the degree program may not be applicable to this agreement and may necessitate renegotiation.
- A change of major invalidates these courses/credits for transfer unless they are approved within some other program-to-program articulation agreement for a different major at TSU.
- A minimum 2.00 Grade Point Average (GPA) is required for transferable credits. For admission into upper division teacher education courses a 2.75 GPA is required.
- The following Course Substitution Chart articulates some of the common DSCC courses that are interchangeable with the TSU program in Animal Science. Courses with the same course number at each institution are not noted in the chart below. General Education Core courses where students have different options are not listed in the chart.

This articulation agreement recognizes the following course work is needed to complete the B.S. degree in Agricultural Sciences/Concentration in Animal Science at TSU.

**TENNESSEE STATE UNIVERSITY – B.S. Agricultural Sciences/Concentration in Animal Science.**

<b>Junior</b>	<b>Fall</b>	<b>Spring</b>	<b>Senior</b>	<b>Fall</b>	<b>Spring</b>
AGSC 2200	4		AGSC 4080	3	
AGSC 3410	3		AGSC 4440	3	
CHEM 2010, 2011	4		AGSC 4430	3	
BIOL 1110, 1111	4		AGSC 4710	1	
			AGSC 4500	3	
			AGSC 3460	3	
BIOL 1120, 1121		4			
AGSC 3400		3	AGSC 4450		3
AGSC 3430		3	AGSC 4720		1
AGSC Elective		3	AGSC 4720		1
AGSC Livestock Electives		3	AGSC Livestock Elective		3
			AGSC 3000-4000 Elective		3
			Elective 3000-4000		2
<b>TOTAL</b>	<b>15</b>	<b>16</b>		<b>16</b>	<b>13</b>

**Junior & Senior Years Total Credit Hours ..... 60**  
**BS in Agricultural Sciences, Animal Science Concentration Total Credit Hours.....120**

## Animal Science/Pre-Vet

The Pre-Vet route has two options. Students can choose this pathway through an Associate of Science (AS) degree with an Emphasis in General Studies OR Biology at DSCC.

The programs of study outlined below lead to the **Associate of Science (A.S.)** degree with an emphasis in **General Studies** from Dyersburg State Community College (DSCC) and a **Bachelor of Science (B.S.) degree in Agricultural Sciences** with a Concentration in **Pre-Vet** from Tennessee State University (TSU).

This articulation agreement recognizes the following course work is needed to complete an A.S. degree in Agriculture at Dyersburg State Community College.

### DYERSBURG STATE COMMUNITY COLLEGE - A.S. emphasis in General Studies

Freshman	Fall	Spring	Sophomore	Fall	Spring
ENGL 1010	3		SPCH 1010		3
ENGL 1020		3	HIST Elective (2010, 2020, 2030)	3	3
Humanities/Fine Arts Elective	3	3	CHEM 1110	4	
ECON 2010 or 2020		3	Social/Behavioral Science Elective	3	
ORN 1010	3		AGRI 1030	3	
Biology 1110	4		ENGL 2110, 2120, 2210, 2220, 2310, 2320		3
AGRI 1020	3		MATH 1530	3	
Biology 1120		4	CHEM 1120		4
*General Elective		2			
<b>TOTAL</b>	<b>16</b>	<b>15</b>		<b>16</b>	<b>13</b>

\*The suggested General Elective course from TSU is AGRI 1050

**A.S. Degree Total . . . . . 60**



This articulation agreement recognizes the following course work is needed to complete the B.S. degree in Agricultural Sciences/Concentration in Pre-Vet if a student received an AS with an emphasis in Biology from DSCC.

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**TENNESSEE STATE UNIVERSITY – B.S. Agricultural Sciences/Concentration in Pre-Vet.**

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<b>Junior</b>	<b>Fall</b>	<b>Sp</b>	<b>Senior</b>	<b>Fall</b>	<b>Sp</b>
BIOL 2110, 2111 Cell Biology OR BIOL 2400, 2401 Principles of Micro	4		AGSC 4440 Physiology of Reproduction	3	
AGSC 2010 Intro to Ag Business	3		AGSC 4430 Animal Nutrition and Feeding	3	
AGSC 1410 Intro to Animal Science	3		AGSC 3460 Livestock Management & Applied Eth	3	
PHYS 2010, 2011 College Physics I	4		AGSC/BIOL Elective	3	
CHEM 2020, 2021 Org Chem II	4		AGSC 4500 Senior Proj	3	
AGSC 3400 Animal Breeding and Gen		3	AGSC 4710 Seminar	1	
AGSC 3410 Anat and Phys Domestic		3	AGSC 4450 Science of Meat		3
AGSC 1200 Intro to Plant Sci		3	AGSC 3430 Animal Health and Disease Prev		3
CHEM 3410 Gen Biochem		4	AGSC Livestock Elective		3
PHYS 2020, 2021 College Physics II		4	ANSCI/BIOL/CHEM 3000- 4000 Elective		3
<b>TOTAL</b>	<b>18</b>	<b>16</b>		<b>16</b>	<b>12</b>

The programs of study outlined below lead to the **Associate of Science (A.S.)** degree with an emphasis in **Biology** from Dyersburg State Community College (DSCC) and a **Bachelor of Science (B.S.)** degree in **Agricultural Sciences** with a Concentration in **Pre-Vet** from Tennessee State University (TSU).

This articulation agreement recognizes the following course work is needed to complete an A.S. degree with an emphasis in Biology at Dyersburg State Community College.

**DYERSBURG STATE COMMUNITY COLLEGE - A.S. AGRICULTURE**

<b>Freshman</b>	<b>Fall</b>	<b>Sp</b>	<b>Sophomore</b>	<b>Fall</b>	<b>Sp</b>
ENGL 1010	3		SPCH 1010		3
ENGL 1020		3	HIST Elective (2010, 2020, 2030)	3	3
Humanities/Fine Arts Elective		3	Humanities/Fine Arts Elective	3	
Social/Behavioral Science Elective		3	Social/Behavioral Science Elective	3	
CHEM 1110	4		CHEM 2010		4
Biology 1110	4		ENGL 2110, 2120, 2210, 2220, 2310, 2320		3
MATH 1910	4		MATH 1920 (4) or MATH 1530		3-4
Biology 1120		4	CHEM 2020	4	
CHEM 1120		4			
<b>TOTAL</b>	<b>15</b>	<b>17</b>		<b>13</b>	<b>16-17</b>

**A.S. Degree Total . . . . . 61-62**

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This articulation agreement recognizes the following course work is needed to complete the B.S. degree in Agricultural Sciences/Concentration in Pre-Vet if a student received an AS with an emphasis in Biology from DSCC.

**TENNESSEE STATE UNIVERSITY – B.S. Agricultural Sciences/Concentration in Pre-Vet.**

<b>Junior</b>	<b>Fall</b>	<b>Sp</b>	<b>Senior</b>	<b>Fall</b>	<b>Sp</b>
BIOL 2110, 2111 Cell Biology OR BIOL 2400, 2401 Principles of Micro	4		AGSC 4440 Physiology of Reproduction	3	
AGSC 2010 Intro to Ag Business	3		AGSC 4430 Animal Nutrition and Feeding	3	
AGSC 1410 Intro to Animal Science	3		AGSC 3460 Livestock Management & Applied Eth	3	
PHYS 2010, 2011 College Physics I	4		AGSC/BIOL Elective	3	
CHEM 2020, 2021 Org Chem II	4		AGSC 4500 Senior Proj	3	
AGSC 3400 Animal Breeding and Gen		3	AGSC 4710 Seminar	1	
AGSC 3410 Anat and Phys Domestic		3	AGSC 4450 Science of Meat		3
AGSC 1200 Intro to Plant Sci		3	AGSC 3430 Animal Health and Disease Prev		3
CHEM 3410 Gen Biochem		4	AGSC Livestock Elective		3
PHYS 2020, 2021 College Physics II		4	ANSCI/BIOL/CHEM 3000- 4000 Elective		3
<b>TOTAL</b>	<b>18</b>	<b>16</b>		<b>16</b>	<b>12</b>

## Ag Biotechnology

The programs of study outlined below lead to the **Associate of Science (A.S.)** degree with an emphasis in **Biology** from Dyersburg State Community College (DSCC) and a **Bachelor of Science (B.S.) degree in Agricultural Sciences with a Concentration in Biotechnology** from Tennessee State University (TSU).

This articulation agreement recognizes the following course work is needed to complete an A.S. degree in Biology at Dyersburg State Community College.

Freshman	Fall	Sp	Sophomore	Fall	Sp
ENGL 1010	3		SPCH 1010		3
ENGL 1020		3	HIST Elective (2010, 2020, 2030)	3	3
Humanities/Fine Arts Elective		3	Humanities/Fine Arts Elective	3	
Social/Behavioral Science Elective		3	Social/Behavioral Science Elective	3	
CHEM 1110	4		CHEM 2010	4	
Biology 1110	4		ENGL 2110, 2120, 2210, 2220, 2310, 2320		3
MATH 1910	4		MATH 1530		3
Biology 1120		4	CHEM 2020		4
CHEM 1120		4			
<b>TOTAL</b>	<b>15</b>	<b>17</b>		<b>13</b>	<b>16</b>

### Condition(s) for transfer

- This articulation agreement applies only to the B.S. degree in Agricultural Sciences with a Concentration in Biotechnology. Any future changes to the degree program may not be applicable to this agreement and may necessitate renegotiation.
- A change of major invalidates these courses/credits for transfer unless they are approved within some other program-to-program articulation agreement for a different major at TSU.
- A minimum 2.00 Grade Point Average (GPA) is required for transferable credits.
- The following Course Substitution Chart articulates some of the common DSCC courses that are interchangeable with the TSU program in Agricultural Biotechnology.

This articulation agreement recognizes the following coursework totaling no less than 60 credits to be completed at TSU will be needed to complete the B.S. degree in Agricultural Sciences -Concentration in Biotechnology at TSU.

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**TENNESSEE STATE UNIVERSITY – B.S. Agricultural Sciences/Concentration in Biotechnology.**

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Junior Year	Credit	Senior Year	Credits
AGSC 3540 - Laboratory Instrumentation	3	BIOL 4112, 4113 Bioinformatics (4)	4
Elective	4	CHEM 3410 (3) and 3411 (1)	4
BIO 2120/2021 Genetics and Lab	4	BIOL 3400/BIOL3410	4
AGSC 3710 Biotech and Society	3	BIOL 4110, 4111	4
AGSC 2600 Principles and Methods of Biotech I	3	AGSC 4500 Senior Project	3
AGSC 3110 Principle and Methods of Biotech II	3	AGSC 4710 Seminar	1
AGSC 4280 Biotech in Ag Prod	3	AGSC 4720 Seminar	1
AGSC 4270 Ag Biosecurity	3	ECON 2010 - Macroeconomics Credits: 3 OR-ECON 2020 – Microeconomics	3
AGSC 3270 Ethics	3	Elective	3
		Elective	4
<b>TOTAL</b>	29		31

**Electives**

<b><u>Number</u></b>	<b><u>Course Title</u></b>	<b><u>Credits</u></b>
AGSC 2200	Fundamentals of Soil Science	3
AGSC 3210	Principles of Crop Science	3
AGSC 3260	Plant Physiology	3
AGSC 3300	Plant Pathology	3
AGSC 3320	Propagation of Horticultural Plants	3
AGSC 3400	Animal and Plant Genetics	3
AGSC 3410	Anatomy and Physiology of Domestic Animals	3
AGSC 3430	Animal Health and Disease Prevention	3
AGSC 3530	Food Microbiology	3
AGSC 4070	Agricultural Special Problems	3
AGSC 4310	Plant Breeding	3
AGSC 4410	Dairy Production and Management	3
AGSC 4420	Poultry Disease Prevention and Sanitation	3
AGSC 4430	Animal Nutrition	3
AGSC 4440	Physiology of Reproduction	3
CHEM 4600	Spectroscopic Methods in Chemistry	3/4
CHEM 4700	Biochemical Analysis and Laboratory	3/4
CHEM 2100	Introduction to Analytical Chemistry and Laboratory	3/4

**Course Substitution Chart**

Dyersburg State Community College	Credit Hrs.	Tennessee State University	Credit Hrs.
MATH 1710	3	MATH 1110	3
MATH 1530	3	MATH 1110, 1140, 1830	3
ORN 1010	3	UNIV 1000	1
AGRI 1010	3	AGSC 2010	3
AGRI 1020	3	AGSC 1410	3
AGRI 1030	3	AGSC 1200	3
AGRI 1050	4	AGSC 2200	4
SPCH 1010	3	COMM 2200	3
INFS 1010	3	AGSC 2040	3
PSYC 1030	3	PSYC 2010	3
ACCT 1010	3	ACCT 2010	3
BIOL 2230	4	BIOL 2400	4