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Educational Policies Committee Program Proposal, College of Agriculture and Applied Sciences, January 11, 2019 - Emphasis in Farm and Ranch Operations

Utah State University

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11 January 2019

ITEM FOR ACTION

Utah State University's School of Applied Sciences, Technology, and Education in the College of Agriculture and Applied Sciences proposes offering an emphasis in the Agricultural Systems Technology program in the manner described below.

EXECUTIVE SUMMARY

The School of Applied Sciences, Technology, and Education in the College of Agriculture and Applied Sciences proposes offering an emphasis in the Agricultural Systems Technology program.

RECOMMENDATION

The President and Provost recommend that the Board of Trustees approve the proposal to offer an emphasis in the Agricultural Systems Technology program in the College of Agriculture and Applied Sciences.

RESOLUTION
UTAH STATE UNIVERSITY
BOARD OF TRUSTEES

WHEREAS, Utah State University's School of Applied Sciences, Technology, and Education in the College of Agriculture and Applied Sciences proposes offering an emphasis in the Agricultural Systems Technology program, and

WHEREAS, The proposed emphasis in Farm and Ranch Operations will provide a clear degree path for students who wish to efficiently operate a crop or livestock production, and

WHEREAS, The proposal has been approved by the academic dean, the Educational Policies Committee, and the USU Faculty Senate, and

WHEREAS, The proposal has been approved by the President and Provost of Utah State University;

NOW THEREFORE BE IT RESOLVED, That the Utah State University Board of Trustees hereby approve the proposal to offer an emphasis in the Agricultural Systems Technology program in the College of Agriculture and Applied Sciences' School of Applied Sciences, Technology, and Education and that notification of this proposal be forwarded to the Utah State Board of Regents of the Utah System of Higher Education.

RESOLUTION APPROVED BY THE BOARD OF TRUSTEES

DATE:

**Utah System of Higher Education
New Academic Program Proposal
Cover/Signature Page - Abbreviated Template**

Institution Submitting Request: Utah State University
Proposed or Current Program Title: Agricultural Systems Technology
Sponsoring School, College, or Division: College of Agriculture and Applied Sciences
Sponsoring Academic Department(s) or Unit(s): Applied Sciences, Technology & Education
Classification of Instructional Program Code¹ : 01.0301
Min/Max Credit Hours Required of Full Program: 120 / 120
Proposed Beginning Term²: Fall 2019
Institutional Board of Trustees' Approval Date:

<input type="checkbox"/>	Certificate of Proficiency	<input type="checkbox"/>	Entry-level CTE CP	<input type="checkbox"/>	Mid-level CP
<input type="checkbox"/>	Certificate of Completion				
<input type="checkbox"/>	Minor				
<input type="checkbox"/>	Graduate Certificate				
<input type="checkbox"/>	K-12 Endorsement Program				
<input checked="" type="checkbox"/>	NEW Emphasis for Regent-Approved Program				
	<i>Current Program BOR Approval Date:</i>		01/01/1991		
	<i>Proposed Emphasis Title</i>		Farm & Ranch Operations		
	<i>Credit Hours for NEW Emphasis Only:</i>	24	/	24	
	Propose a NEW Emphasis				
<input type="checkbox"/>	Out of Service Area Delivery Program				

Chief Academic Officer (or Designee) Signature:

I, the Chief Academic Officer or Designee, certify that all required institutional approvals have been obtained prior to submitting this request to the Office of the Commissioner.

Please type your first and last name _____ Date: _____

I understand that checking this box constitutes my legal signature.

¹ For CIP code classifications, please see <http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55>.

² "Proposed Beginning Term" refers to first term after Regent approval that students may declare this program.

**Utah System of Higher Education
Program Description - Abbreviated Template**

Section I: The Request

Utah State University requests approval to offer the following Degree: Agricultural Systems Technology with emphases effective Fall 2019. This program was approved by the institutional Board of Trustees on .

Section II: Program Proposal/Needs Assessment

Program Description/Rationale

Present a brief program description. Describe the institutional procedures used to arrive at a decision to offer the program. Briefly indicate why such a program should be initiated. State how the institution and the USHE benefit by offering the proposed program. Provide evidence of student interest and demand that supports potential program enrollment.

The Agricultural Systems Technology degree has provided a career path for students entering production agriculture since inception of the degree in 1991. The degree has existing emphases in Agribusiness and Mechanization. This emphasis codifies a path some students have worked towards who were wanting to customize a degree plan to meet their individual career plan (i.e., returning to make a positive contribution on a multi-generation farm and/or ranch). This emphasis will provide a clear degree path for students who wish to efficiently operate a crop or livestock production operation. In addition to the core requirements of this major, which includes classes in agribusiness and technology, students in this emphasis will choose from classes in animal science and plant science. This 8-course emphasis will strengthen knowledge and ability in those areas to meet the variety of challenges in agriculture today.

Labor Market Demand

Provide local, state, and/or national labor market data that speak to the need for this program. Occupational demand, wage, and number of annual openings information may be found at sources such as Utah DWS Occupation Information Data Viewer (jobs.utah.gov/jsp/wi/utalmis/gotoOccinfo.do) and the Occupation Outlook Handbook (www.bls.gov/oco).

According to the United States Department of Labor - Bureau of Labor Statistics, (<https://www.bls.gov/ooh/management/farmers-ranchers-and-other-agricultural-managers.htm>, retrieved September 11, 2018) Employment of farmers, ranchers, and other agricultural managers is projected to show little or no change from 2016 to 2026. Over the past several decades, the efficiencies of large-scale crop production have led to the consolidation of acreage under fewer, but larger, farms. This emphasis will continue to provide students to efficiently operate farms and ranches in the Great Basin region.

Consistency with Institutional Mission/Impact on Other USHE Institutions

Explain how the program is consistent with the institution's Regents-approved mission, roles, and goals. Institutional mission and roles may be found at higheredutah.org/policies/policyr312/ . Indicate if the program will be delivered outside of designated service area; provide justification. Service areas are defined in higheredutah.org/policies/policyr315/ .

These emphasis areas are consistent with USU's land-grant mission of education and outreach in agriculture. This emphasis clarifies the degree option for students seeking careers in production agriculture. Because of USU's unique mission, the proposed emphasis area does not overlap or conflict with any other USHE institution. This program will not be delivered outside of the designated service area and many of the courses in the degree plan have laboratory sections with dedicated space on the USU-Logan campus.

Finances

What costs or savings are anticipated in implementing the proposed program? If new funds are required, indicate expected sources of funds. Describe any budgetary impact on other programs or units within the institution.

No impact to funding is anticipated as all courses are already available and used within the degree program. This request codifies program design that have been tailored to meet student needs.

Section III: Curriculum

Program Curriculum

List all courses, including new courses, to be offered in the proposed program by prefix, number, title, and credit hours (or credit equivalences). Indicate new courses with an X in the appropriate columns. The total number of credit hours should reflect the number of credits required to receive the award. **For NEW Emphases, skip to emphases tables below.**

For variable credits, please enter the minimum value in the table below for credit hours. To explain variable credit in detail as well as any additional information, use the narrative box below.

Can students complete this degree without emphases? Yes or <input checked="" type="checkbox"/> No				
	Course Number	NEW Course	Course Title	Credit Hours
General Education Courses (list specific courses if recommended for this program on Degree Map)				
General Education Credit Hour Sub-Total				
Required Courses				
+	-			
Choose of the following courses:				
+	-			
+	-			
Required Course Credit Hour Sub-Total				0
Elective Courses				
+	-			
Elective Credit Hour Sub-Total				
Core Curriculum Credit Hour Sub-Total				0

	Course Number	NEW Course	Course Title	Credit Hours
Name of Emphasis:			Farm & Ranch Operations	
+	-		ADVS 1110 Introduction to Animal Science	4
+	-		ADVS 2080 Beef & Dairy Herd Health and Production	3
+	-		ADVS 5030 Sustainable Agriculture Production Systems with Animals	3
+	-		ASTE 3100 Personal and Team Leadership	3
+	-		ASTE 3600 Management of Agricultural Machinery Systems (QI)	3
+	-		PSC 2010 Soils, Waters and the Environment	3
+	-		PSC 4280 Field Crops	3
+	-		PSC 4550 Weed Management	3
Emphasis Credit Hour Sub-Total				25
Total Number of Credits to Complete Program				25
Remove this emphasis				

Propose a NEW Emphasis to an existing Regent approved program

Program Curriculum Narrative

Describe any variable credits. You may also include additional curriculum information, as needed.

Other elective course choices are available to meet the needs of students' career goals. Those courses will be selected with input from faculty and advisor, based on students' career goals.

Degree Map

Degree maps pertain to undergraduate programs ONLY. Provide a degree map for proposed program. Degree Maps were approved by the State Board of Regents on July 17, 2014 as a degree completion measure. Degree maps or graduation plans are a suggested semester-by-semester class schedule that includes prefix, number, title, and semester hours. For more details see <http://highereducation.org/pdf/agendas/201407/TAB%20A%202014-7-18.pdf> (Item #3).

Please cut-and-paste the degree map or manually enter the degree map in the table below

First Year Fall	Cr. Hr.	First Year Spring	Cr. Hr.
Farm & Ranch Designated Elective - ADVS 1110	4	ASTE 2200: Electricity in Agricultural Systems	3
ASTE 1010: Intro to Agricultural Systems Tech	3	APEC 1600: Natural Resources and American	3
ENGL 1010: Intro to Writing	3	MATH 1050: College Algebra (QL)	4
Math Class	4	Farm & Ranch Designated Elective - ADVS 2000	3
Breadth Humanities (BHU)	3	Farm & Ranch Designated Elective - PSC 2010	3
Total	17	Total	16
Second Year Fall	Cr. Hr.	Second Year Spring	Cr. Hr.
ACCT 2010: Financial Accounting Principles OP	3	APEC 2010: Intro to Microeconomics (BSS)	3
ASTE 2830: Agribusiness Sales and Marketing	3	ASTE 3080: Compact Power Units for Agricultu	3
ASTE 3030: Metal Welding Processes and Tech	3	CHEM 1110: General Chemistry I (BPS)	4
ENGL 2010: Intermediate Writing: Research Wri	3	Farm & Ranch Designated Elective - ASTE 3100	3
Breadth Creative Arts (BCA)	3	CAAS Elective	3
Total	15	Total	16
Third Year Fall	Cr. Hr.	Third Year Spring	Cr. Hr.
Farm & Ranch Designated Elective - ADVS 5020	3	APEC 3010: Intro to Agricultural Economics and	3
ASTE 3050: Technical and Professional Comm	3	ASTE 2900: Food Matters, Ethics, Economics,	3
PSC 3000: Fundamentals of Soil Science	4	Farm & Ranch Designated Elective - ASTE 3600	3
USU 1350: Integrated Life Science (BLS)	3	ASTE 4100: Agricultural Structures and Enviro	3
CAAS Elective	3	CAAS Elective	3
Total	16	Total	15
Fourth Year Fall	Cr. Hr.	Fourth Year Spring	Cr. Hr.
ASTE 5260: Environmental Impacts of Agricultu	3	APEC 3020: Firm Finance and Records Analysi	3
Depth Humanities and Creative Arts Course (D	2	Farm & Ranch Designated Elective: PSC 4280	3
CAAS Elective	3	Farm & Ranch Designated Elective - PSC 4550	3
CAAS Elective	3	TEE 1200: Computer-Aided Drafting and Design	3
CAAS Elective	3		
Total	14	Total	12