LCCC New Program of Study/Concentration Form

In accordance with Program Development and Approval Procedure, 2.3.1P, this form must be completed to establish the submission of a new credit-bearing program of study or concentration.

ı	Dean's Signature: Please cl	ick here to add signature. Date: Click here to select today's date.		
1.	Program Contact:	Rosemary McBride		
2.	Effective Catalog Year:	: 2017-2018		
Sta	ge One: Identification of Pr	rogram, Need, Goals and Competencies		
3.	Program Title:	Agriculture – Agroecology Concentration		
4.	O*NET-SOC Code:	Locate the code at: http://www.onetonline.org/help/online/search Natural Sciences Managers 11-9121.00, Farmers, Ranchers, and Other Agricultural Managers 11-		
5.	CIP Code:	Locate the code at: http://nces.ed.gov/ipeds/cipcode/default.aspx?y=55 Agroecology 01.0308		
6.	Request for:	□ New Program X New Program Concentration		
7.	Type of Program: (choose one) Rationale for New Program:	□ Associate of Arts degree (60-64 credits in length) X Associate of Science degree (60-64 credits in length) □ Associate of Applied Science degree (60-72 credits in length) □ Credit Certificate (30-45 credits) □ Diplomas must be a minimum of 15 weeks and 16		
		☐ Credit Diploma (12-29 credits) credits and all credits in the program must be accepted toward an AA, AS or AAS degree at LCCC.		
8.		Explain the goals of the new program and how this new program will include robust curriculum leading to a degree or certificate. The Agroecology concentration couples the agriculture core program with a robust background in chemical and life sciences as well opportunities and emphasis on beginning research development. An Agroecology degree prepares students with the skills needed to pursue a career in both the public and private sectors and is aimed at the student seeking a degree that will be versatile and rigorous enough to prepare him or her for completion of a Bachelor's degree and seek gainful employment in an occupation that will allow them to work toward finding solutions to sustainable food production locally, regionally, or world-wide. The U.S. Bureau of Labor Statistics predicts steady job growth for agriculture-related fields including environmental consultants, restoration ecologists, agriculture scientists, and farm and ranch specialists.		
9.	Program Description (as it will appear in the catalog)	The Agriculture - Agroecology Concentration is rooted in integrated systems management and ecological fundamentals and features a hands-on, integrated sciences, research-based curriculum. This concentration is designed to allow students the option to pursue a bachelor's degree in Agroecology, Horticulture Sciences, or Agronomy at a university.		
10.	Program Competencies:	 Upon completion of the Agriculture - Agroecology Concentration students will be able to: Analyze management problems in agroecology; then evaluate and apply various tools to problem solve solutions and reflect on outcomes and effectiveness. (Problem Solving) Practice accessing, evaluating, and combining appropriate resources to foster decision making in an agricultural setting. Apply scientific and quantitative reasoning to concrete scenarios in all disciplines to create meaning and understanding and to communicate solutions to their audience. (Quantitative and Scientific Reasoning) Collaborate on an interdisciplinary level, foster teamwork, and work toward solutions in Agroecology on an interpersonal, local, and global scale. (Collaboration) 		
11.	Program Advisory Committee Summary Report:	The Advisory Committee discussed this proposal at its meeting. Full meeting minutes have been uploaded in CurricUNET.		

Stage Two: Program Research and Curriculum Development					
12.	Articulation:	Conversations with program faculty at University of Wyoming have been instrumental in developing the course sequence. We will pursue 2+2 articulation with the University of Wyoming upon approval.			
13.	Identification of similar Programs in WY and Region:	A.S. Northwest Community College, B.S. University of Wyoming			
14.	Implementation Plan/Timeline:	Program Concentration Proposal Deadline: November 11th, 2016, Approval by ASC Committee: Posted for Optional Concentration for 2017-2018, Recruitment in area and regional schools for new student enrollment.			
		Course	Title	Credits	
		COLS 1000	Introduction to College Success: First-Year Seminar	3	
		AGEC 1010	Agricultural Economics I	3	
		ANSC 1010	Livestock Production	4	
		ENGL 1010*+	English I: Composition	3	
		MATH 1400+	College Algebra	3	
		Course Number	Course Title	Credits	
		AGEC 1020*	Agricultural Economics II	16 3	
		AECL 1000	Agroecology	4	
		BIOL 1010*	General Biology	4	
		CHEM 1000*	Introductory Chemistry	4	
		CO/M 2010*	Public Speaking	3	
		Course Number	Course Title	Credits	
15.	Program Sequence:		Total Credits	18	
		AECL 2010*	The Ecological Web: Soils	4	
		CHEM 2300*	Introductory Organic Chemistry	4	
		BIOL 2023* GenEd: WY	Biology of Plants and Fungi Choose from approved US/WY Constitutional courses	3	
		Course Number	Course Title	Credits	
		Course Number	Course Title	Credits	
			Total Credits	15	
		AECL 2395*	Agricultural Science Research Methods Capstone	3	
		STAT 2050*	Fundamentals of Statistics	4	
		GEOG 1100	Introduction to Geographic Information Systems	4	
		GenEd: AA	Choose from approved Aesthetic Analysis courses	3	
		Course Number	Course Title	Credits Credits	
		Course Number	Course Title Total Credits	14	
			Total Program Credits	63	
46	Program Duration:		and Credit Diploma programs must be a minimum of 15 weeks and 16 opes do not need to provide this information.	credits.	
16.		Number of weeks to complete this program: 4 semesters			
17.	New Courses:	_	ultural Research Methods Capstone, and CHEM 2300 Introductory Orga 11.18.2016 AECL 2395 was recommended for approval to ASC and CHI roved course.		
		Have all new courses been confirmed by the Course Coordinator? X YES ☐ NO			
Is an MCOR attached for each new course? X YES □ NO					
Sta	ge Three: Identification of				
18.	Faculty/Staff: Can this program be delivered by current faculty? If not, what are the plans, budget and timeline for bringing on needed instructors? Yes, the course sequence utilizes current courses taught in the Agriculture Science program an in other departments on campus. The proposed concentration is an effort to expand current enrollment by offering concentrations in other markets. If projected student recruitment is reached in first 3 years, additional adjunct instructors may be needed to teach additional section.			gram and arrent nt is	

		of core agriculture courses that serve all concentrations. The new AECL course in the program sequence will first be needed in the Spring 2019 semester, providing sufficient opportunity for resource identification and allocation within the school of BATS to meet identified need. The new CHEM course has been designed with a broader audience than this concentration and the CHEM faculty anticipate its use in several programs throughout the College.			
19.	Equipment:	What resources are required to start and sustain the program? What is the current plan to meet those resource needs through the college or other external funds? No additional resources are needed to start the concentration.			
		Total cost of program to a student: Enter overall cost here. Consider additional course and materials fees, if any, above the usual tuition, course fees and book costs. X Not applicable Identify costs associated with the establishment of this program in the table below:			
		Budget Summary	Account Number	Budget Amount	
		Adjunct Instructor/ Overload 3 credits	Account number	\$2,100	
		Budget item	Account number	Amount	
		Budget item	Account number	Amount	
		Budget item	Account number	Amount	
		Budget item	Account number	Amount	
		Budget item	Account number	Amount	
20.	Cost of Program:	Budget item	Account number	Amount	
	_	Budget item	Account number	Amount	
		Budget item	Account number	Amount	
		Budget item	Account number	Amount	
		Budget item	Account number	Amount	
	Program/Course Fees (refer to LCCC 4.10.1P):	Budget item	Account number	Amount	
		Budget item Budget item	Account number Account number	Amount Amount	
		Dudget Item	TOTAL:		
21.		Additional comments regarding the cost of program implementation: We are proposing the concentration with no additional costs, if enrollment targets are met, the costs identified above are a possibility but unforeseen at this time. The target recruitment goals are 8 students between Rangeland Ecology and Management and Agroecology for year 1 with a 15% growth in enrollment in first 3 years. Are fees being requested for this program? YES X NO If yes click here to provide details and rationale. Are new or revised fees being requested for courses with this program? YES X NO If yes click here to provide details and rationale.			
Sta	ge Four: Process Checklis	t			
22.	Submit for Financial Aid Review:	Financial Aid has reviewed the new program submission to ensure it includes appropriate information for seeking U.S. Department of Education approval for Title IV eligibility. Financial Aid confirmation: Please click here to add signature.			
23.	Submit for Registrar Review:	Registrar has reviewed the new program submission to confirm accuracy and feasibility. Registrar confirmation: Approval indicated in CurricUNET.			
24.	Submit for Institutional Effectiveness Review:	Program has been reviewed by the office of Institutional Effectiveness for HLC and Institutional Research reporting. Institutional Effectiveness confirmation: Please click here to add signature.			

25.	Documentation Checklist:	In addition to this completed form, the following documentation must be included (as applicable): Wyoming Community College Commission form X MCOR for each new course N/A Student Fee Request form				
Sta	Stage Five: Administrative Review					
26.	Administrative Procedure 2.1P:	☐ Program meets credits required under Administrative Procedure 2.1P Degrees and Certificates ☐ Program does NOT meet credits required under 2.1P Degrees and Certificates/Exception Requested A compelling case for the variation must be made. Supporting documentation for the request citing accreditation or other professional certifying agents needs to be attached if applicable. Please click here to provide explanation for variance request. Attach supporting documentation as requested above.				
27.	VPAA Signed Approval for Exception to Administrative Procedure 2.1P:	SIGNED: Please click here to add signature.	DATE:			

Other relevant information from the program contact:

The core agriculture program and resources upon which this concentration is founded have a long-standing track record of success of integrating incoming students, citizens, and the agriculture industry in the core mission of Laramie County Community College and the Agriculture Program. Laramie County Conservation District USDA/NRCS has become increasingly supportive of rangeland and agroecology education programs at the College and advocated for the development of this program to provide students and research to support their mission in the region. The Agroecology program is an interdisciplinary collaboration with the science department with courses in Biology, Chemistry, and Geography while providing students with research opportunities utilizing faculty in the agriculture and science field. Per the Wyoming Department of Employment Research & Planning the state and national employment forecast in areas served by this degree include the following:

United States	Employ	ment	Percent	Job Openings
Onited States	2010	2020	Change	
54162 Environmental Consulting Services	BLS reports that 89,400 environmental specialists were employed in 2010 with a growth projection of 19% expected between 2010 and 2020	Projected number of jobs at 19% growth 106,386	19%	
Ahramina	Employment		Percent	Job Openings
Wyoming	2004	2014	Change	Jon Obenings
19-1013 Soil and Plant Scientists	74	82	10.8%	2