College of Agriculture & Life Sciences Proposed Catalog Changes Effective Summer 2020

Department of Agricultural and Extension Education

1. Reactivate the following course:

AGED 252 Developing Community and Collegiate Organizations 3 credits

Assisting community, collegiate, or social organization members, officers, or committee chairs to better serve the organization and to acquire practical organizational and management skills that will help them throughout their academic and professional careers. Basic knowledge and skills related to parliamentary procedure and the orderly conduct of meetings will also be covered. (Alt/odd yrs)

Rationale: This course was listed in the 2017-2018 course catalog. It was mistakenly put on the Dormant List. Dr. Connors last taught this course in the spring of 2017. This is not a new course. It should have never been put on the Dormant List. It will either be taught in spring 2020 or during the 2020-2021 academic year.

2. Drop the following courses:

AGED 140 Introduction to Organizational and Personal Leadership Development 1 credit

This course is designed to introduce the student to important concepts in organizational and personal leadership development. Topics will include organizational leadership, citizenship, and cooperation, personal development, employee/employer relations, and group and individual interpersonal communications skills.

Rationale: This was a dual credit course that has not been taught in over 5 years. There is no plans for requiring it in the Ag Ed major or using it as a dual credit course in the future.

AGED 158 Introduction to Supervised Agricultural Experience Programs 1 credit

This course is designed to introduce the student to important concepts in conducting and organizing supervised agricultural experience projects related to secondary agricultural education classroom and local FFA chapter. Topics will include project planning, goal setting, budgeting, record keeping, basic technical writing, project/program evaluation, employability skills, citizenship, employee/employer relations, and group and individual interpersonal communication skills. (Spring only)

Rationale: This was a dual credit course that has not been taught in over 5 years. There is no plans for requiring it in the Ag Ed major or using it as a dual credit course in the future.

AGED 159 Introduction to the FFA Organization 1-2 credits

This course is designed to introduce the student to important concepts in conducting, organizing, and competing in activities inherent in the Idaho and National FFA Organizations as an outgrowth of the secondary agricultural education classroom instruction and coupled with a successful supervised agricultural experience program. Topics will include parliamentary procedure, FFA History and activities, public speaking and communications, project planning, goal setting, budgeting, record keeping, basic technical writing, project/program evaluation, employability skills, citizenship, employee/employer relations, and group and individual interpersonal communication skills. (Spring only)

Rationale: This was a dual credit course that has not been taught in over 5 years. There is no plans for requiring it in the Ag Ed major or using it as a dual credit course in the future.

AGED 160 Survey of the Expectations and Responsibilities of Teaching High School Agriculture 1 credit, max 2

This course is designed for high school students interested in pursuing a career in agricultural education and will serve as a bridge class between high school and collegiate level teacher education courses. The course will include an exploration of the professional qualities and expectations of the teacher/educator. Roles, responsibilities and challenges in the field of education, leadership, and communication will be examined.

Rationale: This was a dual credit course that has not been taught in over 5 years. There is no plans for requiring it in the Ag Ed major or using it as a dual credit course in the future.

3. Change the following courses:

AGED 471 Senior Capstone in Agricultural Education

12 credits

Gen Ed: Senior Experience

This course serves as the senior capstone course for the Bachelors of Science degree in Agricultural Education. The course meetings will include 2 mandatory seminars (2days each), a meeting during the Idaho FFA State Leadership Conference in April, a final presentation, and a senior capstone debriefing meeting at the end of the student-teaching field-experience.

Prereq: AGED 470

Coreq: AGED 460 and AGED 461

Rationale: Increasing the number of credits from 1 to 2 appropriately reflects the student effort hours required to present their comprehensive portfolio as well as the time required for the seminars.

4. Make the following curriculum changes:

Agricultural and Life Sciences Core

Total Hours		33-3 4 13
- ENGL 318	Science Writing	
-ENGL 317	Technical Writing	
ENGL 316	Environmental Writing	
ENGL 313	Business Writing	
-ENGL 207	Persuasive Writing	
Select one of the fo	ollowing:	3
-MATH 170	Calculus I	
-MATH 160	Survey of Calculus	
-MATH 143	College Algebra	
Select one of the fo	ollowing:	3-4
 & 111L	and General Chemistry I Laboratory	
-CHEM 111	General Chemistry I	
 & 101L	and Introduction to Chemistry Laboratory	
-CHEM 101	Introduction to Chemistry	
Select one of the fo	ollowing:	4
SOIL 206	The Soil Ecosystem Lab	1
SOIL 205	The Soil Ecosystem	3
ECON 202	Principles of Microeconomics	3
COMM 101	Fundamentals of Oral Communication	2
BIOL 115L	Cells and the Evolution of Life Laboratory	1
BIOL 115	Cells & the Evolution of Life	3
AGED 451	Communicating in Agriculture	3
Or AGED 407		
AGED 406	Exploring International Agriculture	3
AGEC 278	Farm and Agribusiness Management	4

Rationale: During the trifurcation the BS in Agricultural and Life Sciences was established. This proposed change accomplishes a modification to the BSALS that provides flexibility to the majors while maintaining the BSALS.

Agricultural Science, Communication and Leadership (B.S.Ag.L.S.)

Required course work includes the university requirements (see <u>regulation J-3</u>) and:

Agricultural and Life		33-34 <u>13</u>
Agricultural Science, A CCT 201	Communication and Leadership Courses Introduction to Financial Accounting	3
AGEC 289	Agricultural Markets and Prices	3
AGEC 289 AGED 180	Introduction to Agricultural Education	5 1
AGED 180 AGED 251		3
AGED 231	Principles of Agricultural Communications and Leadership	Э
AGED 450	Leading People and Teams	3
AGED 498	Internship	5-10
AGED 481	Advanced Ag Comm and Leadership	<u>3</u>
CHEM 101	Introduction to Chemistry	<u>3</u>
OR CHEM 111	Principles of Chemistry I	
CHEM 101L	Introduction to Chemistry Laboratory	<u>1</u>
OR CHEM 111L	Principles of Chemistry I Laboratory	
BIOL 114	Organisms & Environment	<u>4</u>
OR BIOL 115	Cells & the Evolution of Life	
<u>& 115L</u>	Cells & the Evolution of Life Laboratory	
Select one of the follo	owing:	<u>9</u>
MATH 130	Finite Mathematics	
MATH 137	Algebra with Applications	
MATH 143	College Algebra	
Select two of the		<u>6</u>
following:		
ENGL 202	Professional Writing	
ENGL 207	Persuasive Writing	
ENGL 313	Business Writing	
ENGL 316	Environmental Writing	
ENGL 317	Technical Writing	
ENGL 318	Science Writing	
JAMM 121	Media Writing	
JAMM 225	Reporting I	
JAMM 350	Public Relations Writing and Production	
Foundational Ag Con	nmunications & Leadership Courses	
Select 9 credits of the	e following:	<u>9</u>
AGED 252	Developing Community and Collegiate Orgs	
AGED 350	Leadership Event Coordination (3 credit max)	
AGED 359	Developing 4H Youth Programs	
AGED 448	Foundations of Extension Education	

AGED 301	Undergraduate Research (3 credits max)	
CLDR 360	Leadership and Community Dynamics	
CLDR 480	Change and Power in a Global Society	
Upper Division Ag	ricultural Economics Elective	3
Subject Area Elect	ives	20
Select one of the f	ollowing:	
10 credits in two o	f the following subject areas:	
— Agricultural Syst	em Management	
— Animal and Vete	erinary Science	
- Entomology		
Family and Cons	umer Science	
Food Science		
Soils		
Plant Science/Ra	angeland Ecology Management	
OR 15 credits from	one of the following subject areas AND 5 credits from a	
Foreign Language:		
—Agricultural Syst	em Management	
—Animal and Vete	erinary Science	
- Entomology		
Family and Cons	umer Science	
Food Science		
Plant Science/Ra	angeland Ecology Management	
Soils		
Subject Area Elect		<u>24</u>
	om 3 of the following of the following subject areas. A	
	edits must be upper-division (300 or 400). At least two	
	n the College of Agricultural and Life Sciences (CALS). One	
	he College of Natural Resources (CNR).	
CALS Subject Matt		
Agricultural Ecor		
-	rems Management	
Animal and Vete	erinary Science	
Entomology		
Family and Cons	<u>sumer Science</u>	
<u>Food Science</u>		
Soils		
	angeland Ecology Management	
CNR Subject Matte		
Forest Resources	_	
	es/Natural Resources and Society	
Wildlife Resourc		
Communication El	ectives	12

Select 12 credits of communication electives including one upper division course: - COMM 233	C-11-40 19 C	and the state of t	
-COMM 233 Interpersonal Communication -COMM 332 Communication and the Small Group -COMM 410 Conflict Management -COMM 431 Applied Business and Professional Communication -EDCI 410 Technology, Teaching and Learning -JAMM 100 Media and Society -JAMM 121 Media Writing -JAMM 252 Introduction to Integrated Media Campaigns Leadership Electives 9 Select 9 credits of leadership electives: -AGED 359 Developing 4 H Youth Programs -AGED 448 Foundations of Extension Education -MHR 311 Introduction to Management -MHR 413 Organizational Behavior -MHR 418 Managing Organization Design and Leading Changes -NRS 311 Public Involvement in Natural Resource -Management -MS 101 Intro to the Army & Critical Thinking -MS 102 Intro to the Profession of Arms	Select 12 credits of com	nmunication electives including one upper-division	
	course:		
-COMM 410 Conflict Management -COMM 431 Applied Business and Professional Communication -EDCI 410 Technology, Teaching and Learning -JAMM 100 Media and Society -JAMM 121 Media Writing -JAMM 252 Introduction to Integrated Media Campaigns Leadership Electives 9 Select 9 credits of leadership electives: -AGED 359 Developing 4-H Youth Programs -AGED 448 Foundations of Extension Education -MHR 311 Introduction to Management -MHR 413 Organizational Behavior -MHR 418 Managing Organization Design and Leading Changes -NRS 311 Public Involvement in Natural Resource -Management -MS 101 Intro to the Army & Critical Thinking -MS 102 Intro to the Profession of Arms	—COMM 233	Interpersonal Communication	
- COMM 431 Applied Business and Professional Communication - EDCI 410 Technology, Teaching and Learning - JAMM 100 Media and Society - JAMM 121 Media Writing - JAMM 252 Introduction to Integrated Media Campaigns Leadership Electives 9 Select 9 credits of leadership electives: - AGED 359 Developing 4 H Youth Programs - AGED 448 Foundations of Extension Education - MHR 311 Introduction to Management - MHR 413 Organizational Behavior - MHR 418 Managing Organization Design and Leading Changes - NRS 311 Public Involvement in Natural Resource - Management - MS 101 Intro to the Army & Critical Thinking - MS 102 Intro to the Profession of Arms	— COMM 332	Communication and the Small Group	
— EDCI 410 Technology, Teaching and Learning — JAMM 100 Media and Society — JAMM 121 Media Writing — JAMM 252 Introduction to Integrated Media Campaigns Leadership Electives 9 Select 9 credits of leadership electives: — AGED 359 Developing 4 H Youth Programs — AGED 448 Foundations of Extension Education — MHR 311 Introduction to Management — MHR 413 Organizational Behavior — MHR 418 Managing Organization Design and Leading Changes — NRS 311 Public Involvement in Natural Resource Management — MS 101 Intro to the Army & Critical Thinking — MS 102 Intro to the Profession of Arms	—COMM 410	Conflict Management	
- JAMM 100 Media and Society - JAMM 121 Media Writing - JAMM 252 Introduction to Integrated Media Campaigns Leadership Electives 9 Select 9 credits of leadership electives: - AGED 359 Developing 4 H Youth Programs - AGED 448 Foundations of Extension Education - MHR 311 Introduction to Management - MHR 413 Organizational Behavior - MHR 418 Managing Organization Design and Leading Changes - NRS 311 Public Involvement in Natural Resource Management - MS 101 Intro to the Army & Critical Thinking - MS 102 Intro to the Profession of Arms	—COMM-431	Applied Business and Professional Communication	
- JAMM 121 Media Writing - JAMM 252 Introduction to Integrated Media Campaigns Leadership Electives 9 Select 9 credits of leadership electives: - AGED 359 Developing 4-H Youth Programs - AGED 448 Foundations of Extension Education - MHR 311 Introduction to Management - MHR 413 Organizational Behavior - MHR 418 Managing Organization Design and Leading Changes - NRS 311 Public Involvement in Natural Resource - Management - MS 101 Intro to the Army & Critical Thinking - MS 102 Intro to the Profession of Arms	 EDCI 410	Technology, Teaching and Learning	
Leadership Electives Select 9 credits of leadership electives: — AGED 359 Developing 4 H Youth Programs — AGED 448 Foundations of Extension Education — MHR 311 Introduction to Management — MHR 413 Organizational Behavior — MHR 418 Managing Organization Design and Leading Changes — NRS 311 Public Involvement in Natural Resource Management — MS 101 Intro to the Army & Critical Thinking — MS 102 Intro to the Profession of Arms	—JAMM 100	Media and Society	
Select 9 credits of leadership electives: - AGED 359 Developing 4-H Youth Programs - AGED 448 Foundations of Extension Education - MHR 311 Introduction to Management - MHR 413 Organizational Behavior - MHR 418 Managing Organization Design and Leading Changes - NRS 311 Public Involvement in Natural Resource Management - MS 101 Intro to the Army & Critical Thinking - MS 102 Intro to the Profession of Arms	—JAMM 121	Media Writing	
Select 9 credits of leadership electives: — AGED 359 Developing 4-H Youth Programs — AGED 448 Foundations of Extension Education — MHR 311 Introduction to Management — MHR 413 Organizational Behavior — MHR 418 Managing Organization Design and Leading Changes — NRS 311 Public Involvement in Natural Resource Management — MS 101 Intro to the Army & Critical Thinking — MS 102 Intro to the Profession of Arms	JAMM 252	Introduction to Integrated Media Campaigns	
- AGED 359 Developing 4 H Youth Programs - AGED 448 Foundations of Extension Education - MHR 311 Introduction to Management - MHR 413 Organizational Behavior - MHR 418 Managing Organization Design and Leading Changes - NRS 311 Public Involvement in Natural Resource Management - MS 101 Intro to the Army & Critical Thinking Intro to the Profession of Arms	Leadership Electives	9	
 AGED 448 Foundations of Extension Education MHR 311 	Select 9 credits of leade	ership electives:	
 MHR 311 Introduction to Management MHR 413 Organizational Behavior MHR 418 Managing Organization Design and Leading Changes NRS 311 Public Involvement in Natural Resource Management MS 101 Intro to the Army & Critical Thinking MS 102 Intro to the Profession of Arms 	— AGED 359	Developing 4-H Youth Programs	
 MHR 413 Organizational Behavior MHR 418 Managing Organization Design and Leading Changes NRS 311 Public Involvement in Natural Resource	—AGED 448	Foundations of Extension Education	
 MHR 418 Managing Organization Design and Leading Changes NRS 311 Public Involvement in Natural Resource	MHR 311	Introduction to Management	
 NRS 311 Public Involvement in Natural Resource Management MS 101 Intro to the Army & Critical Thinking MS 102 Intro to the Profession of Arms 	—MHR 413	Organizational Behavior	
Management — MS 101 Intro to the Army & Critical Thinking — MS 102 Intro to the Profession of Arms	—MHR 418	Managing Organization Design and Leading Changes	
 MS 101 Intro to the Army & Critical Thinking MS 102 Intro to the Profession of Arms 	— NRS 311	Public Involvement in Natural Resource	
— MS 102 Intro to the Profession of Arms		Management	
	—MS 101	Intro to the Army & Critical Thinking	
— MS 201 Foundations of Leadership I	—MS 102	Intro to the Profession of Arms	
	NAC 201	Foundations of Leadership I	
— MS 202 Foundations of Leadership II	- IVI3 2U1	1 Outliations of Leadership i	

Leadership and Communication Electives

Select 21 credits from the list of courses:

Any COMM Prefix

Any JAMM Prefix

Ally JAIVIIVI FTC	TIA
AGED 350	Leadership Event Coordination
AGED 252	Developing Community and Collegiate Orgs
AGED 359	<u>Developing 4-H Youth Programs</u>
AGED 448	Foundations of Extension Education
AGED 407	Global Ag & Life Science Systems
AGED 301	Undergraduate Research (3 credit max)
CLDR 360	Leadership and Community Dynamics
<u>CLDR 480</u>	Change and Power in a Global Society
MHR 311	Introduction to Management
MHR 413	Organizational Behavior
MHR 418	Managing Organization Design & Leading Changes
NRS 311	Public Involvement in Natural Resource Mgmt
AGLS 495	CALS Ambassadors (3 credit max)
AGLS 494	CALS Peer Leaders (3 credit max)
EDCI 410	Technology, Teaching and Learning
ORGS 110	Governance in Small Organizations

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ORGS 305	Nonprofit Organizations	
ORGS 320	Budgeting for Small Organizations	
ORGS 312	Workplace Motivation	
ORGS 322	Workplace Soft Skills	
ORGS 323	Messaging for Small Organizations	
ORGS 407	Advanced Nonprofit Organizations	
ORGS 435	<u>Personnel</u>	
ORGS 441	Human Relations in the Workplace	
ORGS 450	Training and Performance Support	
Total Hours		95-101 105-110

Courses to total 120 credits for this degree

Distance Availability: Yes

Geographic Availability: Moscow, Twin Falls

Rationale: The reconfiguration of the ASCL major is to align more closely with industry needs. Students in the ASCL major have the option of selecting Subject Areas, where they take 10 Credits in two subject areas OR 15 credits in a subject area and a foreign language. To provide our students with a wider-breadth of knowledge that is more applicable to industry needs the change allows for students to have experience in an additional field and incorporates Agricultural Economics, Natural Resources, Wildlife Resources, and Forest Resources as options for electives.

The proposed changes allow students to select 9 credits from courses specific to the agricultural industry. Some of these courses are new and/or have been updated recently.

The proposed changes also allow students to choose from a mixture of leadership and communication-based courses to allow them to tailor their educational experience to their specific career goals. It also provides more flexibility for at distance students.

There is no additional workload for the department.

Agricultural Communications and Leadership Minor

AGED 251	Principles of Agricultural Communications and Leadership	3
AGED 450	Leading People and Teams	<u>3</u>
AGED 451	Communicating in Agriculture	<u>3</u>
AGED 481	Advanced Ag Communications and Leadership	<u>3</u>
Additional Elec	ctive Courses	<u>8</u>
AGED 140	Intro to Org & Personal Leadership Development	
AGED 252	Developing Community & Collegiate Orgs	
AGED 301	Undergraduate Research (3 credits max)	1-3
AGED 350	Leadership Event Coordination	1
AGED 450	Leading People and Teams	3
AGED 451	Communicating in Agriculture	3
AGED 406	Exploring International Agriculture	3
AGED 407	Global Agricultural & Life Sciences Systems	3
AGED 498	Internship (5 cr max)	1-10
CLDR 360	Community & Leadership Dynamics	
CLDR 480	Change & Power in a Global Society	
AGLS 494	CALS Peer Leaders (2 credit max)	
AGLS 495	CALS Ambassadors (2 credit max)	
Total Hours		18-29 20

Courses to total 20 credits for this minor

Distance Availability: Yes – over 50%, not available 100% online.

Geographic Availability: Moscow, Twin Falls-CSI

Rationale: The proposed changes are based on new courses being offered in the department that align with the minor focus. There will be minimal added workload as most of these courses are already being taught used in the existing degree programs.

Learning outcomes will continue to be assessed using the following:

- Class projects and assignments
- Student involvement in leadership/communications outside the classroom
- Exit Interviews
- Follow-up studies

Department of Agricultural Economics and Rural Sociology

1. Change the following courses:

AGEC 333 Introduction to Sales

3 credits

Introduction to the economic and consumer behavior theory of the sales industry. Fundamentals of professional business-to-business selling, business-to-consumer selling, sales ethics, and career assessment. Evening practicum required and a day-long job shadowing required. (Spring only)

Rationale: The description is being changed to make students aware of requirements outside of class time.

AGEC 433 Advanced Sales

3 credits

Building on principles of professional sales and sales management, students will learn additional processes, procedures and practices of sales professionals. Students will apply the old and new concepts when selling a product to be determined to actual customers. <u>Semester-long project requires working with sales professionals or in professional sales capacity.</u>

Prereq: AGEC 333.

Rationale: The description is being changed to make students aware of requirements outside of class time.

2. Make the following curriculum changes:

Agricultural Economics (B.S.Ag.Econ.)

The agricultural economics area has two programs designed to prepare students for careers in the agricultural economics profession. The agribusiness major provides students with training related to management, finance, and marketing in the agribusiness sector. The agricultural economics major provides students with the theory behind decisions concerning agricultural production, marketing, resource use, pricing, and policy. Both of these majors prepare students to pursue advanced degrees if they choose.

Required course work includes the university requirements (see regulation J-3) and:

ACCT 201	Introduction to Financial Accounting	3
ACCT 202	Introduction to Managerial Accounting	3
AGEC 101	The Business of Agriculture	1
AGEC 278	Farm and Agribusiness Management	4
AGEC 289	Agricultural Markets and Prices	3
AGEC 301	Managerial Economics: Production	3
AGEC 302	Managerial Economics: Consumption & Markets	3
AGEC 356	Agricultural and Rural Policy	3
AGEC 478	Advanced Agribusiness Management	3
AGEC 481	Agricultural Markets in a Global Economy	3

COMM 101	Fundamentals of Oral Communication	2
ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
STAT 251	Statistical Methods	3
Select one of the	following:	4-5
BIOL 102	Biology and Society	
& 102L	and Biology and Society Lab	
BIOL 115	Cells & the Evolution of Life	
& 115L	and Cells and the Evolution of Life Laboratory	
—BIOL 250	General Microbiology	
— & BIOL 255	and General Microbiology Lab	
EPPN 154	Microbiology and the World Around Us	
<u>& EPPN 155</u>	And Microbiology & the World Around Us Laboratory	
Emphasis		
Select one of the	following Emphases:	42-43
Applied Econor	mirs	
	Thes	
Agribusiness		
		86-88
Agribusiness Total Hours A. Applied Econo	omics Emphasis	86-88
Agribusiness Total Hours A. Applied Econo AGEC 451	omics Emphasis Applied Environmental and Natural Resource Economics	3
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351	omics Emphasis Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis	3
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352	Omics Emphasis Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis	3 3 3
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352 ECON 453	Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis Econometrics	3 3 3 3
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352 ECON 453 ENGL 317	Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis Econometrics Technical Writing	3 3 3 3 3
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352 ECON 453 ENGL 317 MATH 170	Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis Econometrics Technical Writing Calculus I	3 3 3 3
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352 ECON 453 ENGL 317 MATH 170 Economics/Math	Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis Econometrics Technical Writing Calculus I	3 3 3 3 3 4
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352 ECON 453 ENGL 317 MATH 170 Economics/Math	Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis Econometrics Technical Writing Calculus I n/Statistics Electives rses from the following:	3 3 3 3 3
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352 ECON 453 ENGL 317 MATH 170 Economics/Math Select three cour	Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis Econometrics Technical Writing Calculus I n/Statistics Electives rses from the following: Money and Banking	3 3 3 3 3 4
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352 ECON 453 ENGL 317 MATH 170 Economics/Math Select three cour ECON 343 ECON 407	Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis Econometrics Technical Writing Calculus I n/Statistics Electives rses from the following: Money and Banking Public Finance	3 3 3 3 3 4
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352 ECON 453 ENGL 317 MATH 170 Economics/Math Select three cour ECON 343 ECON 407 ECON 441	Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis Econometrics Technical Writing Calculus I n/Statistics Electives rses from the following: Money and Banking Public Finance Labor Economics	3 3 3 3 3 4
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352 ECON 453 ENGL 317 MATH 170 Economics/Math Select three cour ECON 343 ECON 407 ECON 441 ECON 446	Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis Econometrics Technical Writing Calculus I n/Statistics Electives rses from the following: Money and Banking Public Finance Labor Economics International Economics	3 3 3 3 3 4
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352 ECON 453 ENGL 317 MATH 170 Economics/Math Select three cour ECON 343 ECON 407 ECON 441 ECON 446 ECON 447	Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis Econometrics Technical Writing Calculus I n/Statistics Electives rses from the following: Money and Banking Public Finance Labor Economics International Economics International Development Economics	3 3 3 3 3 4
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352 ECON 453 ENGL 317 MATH 170 Economics/Math Select three cour ECON 343 ECON 407 ECON 441 ECON 446 ECON 447 MATH 330	Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis Econometrics Technical Writing Calculus I n/Statistics Electives reses from the following: Money and Banking Public Finance Labor Economics International Economics International Development Economics Linear Algebra	3 3 3 3 3 4
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352 ECON 453 ENGL 317 MATH 170 Economics/Math Select three cour ECON 343 ECON 407 ECON 441 ECON 446 ECON 447 MATH 330 STAT 431	Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis Econometrics Technical Writing Calculus I n/Statistics Electives Tees from the following: Money and Banking Public Finance Labor Economics International Economics International Development Economics Linear Algebra Statistical Analysis	3 3 3 3 3 4
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352 ECON 453 ENGL 317 MATH 170 Economics/Math Select three cour ECON 343 ECON 407 ECON 441 ECON 446 ECON 447 MATH 330 STAT 431 or other 300 or	Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis Econometrics Technical Writing Calculus I n/Statistics Electives rese from the following: Money and Banking Public Finance Labor Economics International Economics International Development Economics Linear Algebra Statistical Analysis r 400 level Economics Courses by persmission	3 3 3 3 3 4
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352 ECON 453 ENGL 317 MATH 170 Economics/Math Select three cour ECON 343 ECON 407 ECON 441 ECON 446 ECON 447 MATH 330 STAT 431 or other 300 of Agricultural Econ	Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis Econometrics Technical Writing Calculus I n/Statistics Electives rses from the following: Money and Banking Public Finance Labor Economics International Economics International Development Economics Linear Algebra Statistical Analysis r 400 level Economics Courses by persmission momics Electives	3 3 3 3 4
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352 ECON 453 ENGL 317 MATH 170 Economics/Math Select three cour ECON 343 ECON 407 ECON 441 ECON 446 ECON 447 MATH 330 STAT 431 or other 300 or Agricultural Ecor Select 3 credits	Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis Econometrics Technical Writing Calculus I n/Statistics Electives Teses from the following: Money and Banking Public Finance Labor Economics International Economics International Development Economics Linear Algebra Statistical Analysis r 400 level Economics Courses by persmission Inomics Electives So of Agriculture Economics Electives	3 3 3 3 3 4
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352 ECON 453 ENGL 317 MATH 170 Economics/Math Select three cour ECON 343 ECON 407 ECON 441 ECON 446 ECON 447 MATH 330 STAT 431 or other 300 or Select 3 credits Technical Agricul	Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis Econometrics Technical Writing Calculus I n/Statistics Electives Tees from the following: Money and Banking Public Finance Labor Economics International Economics International Development Economics Linear Algebra Statistical Analysis r 400 level Economics Courses by persmission momics Electives s of Agriculture Economics Electives Ilture Electives	3 3 3 3 4
Agribusiness Total Hours A. Applied Econo AGEC 451 ECON 351 ECON 352 ECON 453 ENGL 317 MATH 170 Economics/Math Select three cour ECON 343 ECON 407 ECON 441 ECON 446 ECON 447 MATH 330 STAT 431 or other 300 or Select 3 credits Technical Agricul	Applied Environmental and Natural Resource Economics Intermediate Macroeconomic Analysis Intermediate Microeconomic Analysis Econometrics Technical Writing Calculus I n/Statistics Electives Teses from the following: Money and Banking Public Finance Labor Economics International Economics International Development Economics Linear Algebra Statistical Analysis r 400 level Economics Courses by persmission Inomics Electives So of Agriculture Economics Electives	3 3 3 3 4

Courses to total 120 credits for this degree

B. Agribusiness Emphasis

Total Hours		42-43
Select 12 credits	of Technical Agriculture Electives:	12
Technical Agricultu	re Electives	
Electives:		
Select 12 credits	of Agricultural Economics, Economics, Accounting, or Business	12
Business or Econor	mics Electives	
MATH 170	Calculus I	
MATH 160	Survey of Calculus	
MATH 143	College Algebra	
Select one of the fo	ollowing:	3-4
MHR 413	Organizational Behavior	
MKTG 321	Marketing	
BLAW 265	Legal Environment of Business	
AGEC 333	Introduction to Sales	
Select two of the fo	ollowing:	6
or ENGL 317	Technical Writing	
ENGL 313	Business Writing	3
or AGEC 477	Law, Ethics and the Environment	
AGEC 451	Applied Environmental and Natural Resource Economics	3
ACCT 482	Enterprise Accounting	3

Courses to total 120 credits for this degree

Rationale: The changes are being made to be update the curriculum to changes that have taken place with these classes. BIOL 250 (and by association 255) requires BIOL 115 and 115L. We only require one level of biology. The EPPN 154 & 155 is replacing BIOL 250/255 because they do not have additional prerequisites.

Department of Entomology, Plant Pathology and Nematology

1. Add the following courses:

PLP 512 Viruses and Virus Diseases of Plants Laboratory 1 credit

As a companion course to PLP 511 Viruses and Virus Diseases of Plants, this laboratory course increases student knowledge about plant diseases caused by viruses. This laboratory course provides hands-on training in the identification and classification of viruses that infect plants and cause plant disease. One 2 hr 20 min lab per week (Spring, odd years only).

Prereq: PLSC 102; EPPN 154 and EPPN 155 or BIOL 250 and 255; or permission.

Coreq: PLP 511

Rationale: The original documentation put forward PLP 511/512 on one document. Only one course, PLP 511 was established, but the intent was for a separate lecture and laboratory course. This adds a course document which is being filed to fix this oversight.

2. Change the following course:

PLP 511 Viruses and Virus Diseases of Plants

43 credits

Nature of plant viruses, vector-virus relationships and virus diseases of plants. Includes laboratory section. Offered spring of odd years only.

Prereq: PLSC 102; BIOL EPPN 154 and BIOL EPPN 155 or BIOL 250 and 255; and PLSC 102 or permission.

Available via Distance: Yes

Geographical Area: Moscow, Distance Online

Rationale: Introductory microbiology, BIOL 154 and 155 are no longer being offered and Microbiology and the World Around Us, EPPN 154 and 155 are the most similar replacement for the prerequisites.

The original documentation put forward PLP 511/512 on one document. Only one course, PLP 511 was established, but the intent was for a separate lecture and laboratory course. This change of course document is being filed to fix this oversight.

The credits for lecture should be 3 not 4.

3. Reactivate and change the following courses:

ENT 447 Fundamentals of Biological Control in Plant Pest Management Systems 3 credits

Joint-listed with ENT 547

Intro to history and development of biological control and biological and ecological factors involved; emphasis on entomophagous and phytophagous insects. For graduate credit, students present a paper or "grant proposal" for critique. Recommended Preparation: general ecology. This is a cooperative course available to WSU degree-seeking students. (Alt/yrs) This course teaches content within the fields of agro-ecology, natural resource conservation and especially integrated pest management. Biological control and classical biological control of exotic invasive plants, arthropod crop and forest pests, and crop diseases are a major subdiscipline of integrated pest management. Biological control can reduce and sometimes eliminate the need for pesticides to manage pests and/or invasive species.

The course will introduce students to i) the underlying principles of biological control, predator prey interactions and invasion ecology; Students will learn about ii) the history of the discipline including many environmentally disastrous examples of 'biological control' from the 18th and 19th century prior to the use of environmental assessments, iii) about methods to develop and assess biological control organism across taxa; and iv) environmental risk assessment procedures and introduction policies and guidelines of different countries. Examples of biological control across taxa will be used

throughout the course to illustrate the conservation, social and economic benefits of the discipline. Course will meet twice weekly for 1 hour and 15 min sessions.

Distance Delivery: Yes

Geographical Area: Moscow, Online

Rationale: We intend to revive a graduate level course that was taught in the former PSES department frequently between 1983 – 1999 and infrequently thereafter until 2007. The course addresses all aspects of classical biological control of plants, arthropods and pathogens in pest management system. With the current increase of faculty with expertise in subject area and our growing number of graduate students conducting research in this area, it may be appropriate to also provide educational training on the topic.

The course was well participated and successful during the time it was offered but has fallen dormant. We want to revive the course and intend to first teach the revived course as a directed study, likely in spring 2020.

ENT 547 Fundamentals of Biological Control in Plant Pest Management Systems 3 credits

Joint-listed with ENT 447

Intro to history and development of biological control and biological and ecological factors involved; emphasis on entomophagous and phytophagous insects. For graduate credit, students present a paper or "grant proposal" for critique. Recommended Preparation: general ecology. This is a cooperative course available to WSU degree-seeking students. (Alt/yrs) This course teaches content within the fields of agro-ecology, natural resource conservation and especially integrated pest management. Biological control and classical biological control of exotic invasive plants, arthropod crop and forest pests, and crop diseases are a major subdiscipline of integrated pest management. Biological control can reduce and sometimes eliminate the need for pesticides to manage pests and/or invasive species.

The course will introduce students to i) the underlying principles of biological control, predator prey interactions and invasion ecology; Students will learn about ii) the history of the discipline including many environmentally disastrous examples of 'biological control' from the 18th and 19th century prior to the use of environmental assessments, iii) about methods to develop and assess biological control organism across taxa; and iv) environmental risk assessment procedures and introduction policies and guidelines of different countries. Examples of biological control across taxa will be used throughout the course to illustrate the conservation, social and economic benefits of the discipline. Course will meet twice weekly for 1 hour and 15 min sessions.

Distance Delivery: Yes

Geographical Area: Moscow, Online

Rationale: We intend to revive a graduate level course that was taught in the former PSES department frequently between 1983 – 1999 and infrequently thereafter until 2007. The course addresses all aspects of classical biological control of plants, arthropods and pathogens in pest management system. With the current increase of faculty with expertise in subject area and our growing number of graduate students conducting research in this area, it may be appropriate to also provide educational training on the topic.

The course was well participated and successful during the time it was offered but has fallen dormant. We want to revive the course and intend to first teach the revived course as a directed study, likely in spring 2020.

4. Make the following curricular changes:

Entomology (B.S.Ag.L.S.)

Required course work includes the university requirements (see regulation J-3) and:

Agricultural and Life Scie	nices core	33-34 <u>13</u>
Entomology Courses		
BIOL 114	Organisms and Environments	4
BIOL 115	Cells and the Evolution of Life	<u>3</u>
BIOL 115L	Cells and the Evolution of Life Laboratory	<u>1</u>
BIOL 213	Principles of Biological Structure and	4
	Function	
or PLSC 205	General Botany	
BIOL 312	Molecular and Cellular Biology	3
BIOL 313	Molecular and Cellular Laboratory	1
BIOL 314	Ecology and Population Biology	4
<u>CHEM 111</u>	General Chemistry I	<u>3</u>
CHEM 111L	General Chemistry Laboratory	<u>1</u>
CHEM 112	General Chemistry II	3
CHEM 112L	General Chemistry II Laboratory	2
COMM 101	Fundamentals of Oral Communication	<u>2</u>
CHEM 275	Carbon Compounds	3
or CHEM 277	Organic Chemistry I	
ENT 322	General and Applied Entomology	4
ENT 438	Pesticides in the Environment	3
ENT 440	Insect Identification	4
ENT 441	Insect Ecology	3
PLP 415	Plant Pathology	3
or SOIL 425	Microbial Ecology	
PLSC 102	The Science of Plants in Agriculture	3
PLSC 207	Introduction to Biotechnology	3
PLSC 400	Seminar	1
ENT 400	<u>Seminar</u>	<u>1</u>
SOIL 205	The Soil Ecosystem	<u>3</u>
SOIL 206	The Soil Ecosystem Lab	1
STAT 251	Statistical Methods	<u>3</u>

And Microbiology & the World Around Us And Microbiology & the World Around Us Lab General Microbiology and General Microbiology Lab Survey of Biochemistry Biochemistry I Quantitative Analysis and Quantitative Analysis: Lab Genetics And Genetics Lab General Genetics	3-4
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Introductory Microbiology	
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electives	3
& General Physics I Lab	
General Physics I	
& Fundamentals of Physics Lab	
Fundamentals of Physics	
	<u>4</u>
Calculus I	
Survey of Calculus	
College Algebra	
-	3-4
Science Writing	
Technical Writing	
Environmental Writing	
Business Writing	
	Environmental Writing Fechnical Writing Science Writing College Algebra Survey of Calculus Calculus I Fundamentals of Physics & Fundamentals of Physics Lab General Physics I & General Physics I Lab electives lectives lectives lectives

Courses to total 128 credits for this degree

Rationale: During the trifurcation the BS in Agricultural and Life Sciences was established. This proposed change accomplishes a modification to the BSAgLS that provides flexibility to the majors while maintaining the BSAgLS. There are minimal changes to the overall Entomology degree. In general, the courses that effectively supported the Entomology degree were moved

from the core into the Entomology degree section. There is no additional workload for the department.