

# General Curriculum Report #287

UNIVERSITY OF IDAHO – OFFICE OF THE REGISTRAR

FEBRUARY 17, 2017

## TO: MEMBERS OF THE UNIVERSITY OF IDAHO FACULTY

The items listed below, approved by the University Curriculum Committee, will be considered to have the necessary faculty approvals unless a petition requesting further consideration of specific items is signed by five faculty members and submitted to the chair of the Faculty Senate within 14 calendar days after the date of circulation. If no petition is received within 14 days, the entire report will be submitted to the president for approval and transmittal to the regents, if regents' action is required. If a petition is received, the items in the report for which further consideration is requested will be referred to the Faculty Senate and the remainder of the report will move forward. On items referred to it, the council may: (1) affirm the action and report it to a meeting of the university faculty, (2) amend the action and report it to a meeting of the university faculty, or (3) rescind the action. *Note:* If a petition concerns courses or curricula in the College of Letters, Arts and Social Sciences or in the College of Agricultural and Life Sciences, and is signed by five faculty members of the respective college, those items will be returned to the college concerned for further consideration.

All Items below are considered effective Summer 2017 unless otherwise noted with the approved item.

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

1. Change the following course:

#### AGLS 494 CALS Peer ~~Mentors~~Leaders (1 cr, max ~~3~~6)

The CALS Peer ~~Mentors~~Leaders provides students the opportunity to further develop leadership ~~and mentoring~~ skills through a variety of activities involving ~~recruitment, campus outreach, and new~~ student mentoring. The objective is to ~~welcome new~~integrate students into college life; create awareness of the academic programs; and be available to guide students ~~by fostering department and college engagement~~. Graded A/Pass/Fail.

**Prereq:** Departmental Permission

2. Make the following changes to the **Agricultural and Life Science Core:**

AGED 406	Exploring International Agriculture	3 cr
<del>AGED 451</del>	<del>Communicating in Agriculture</del>	<del>3 cr</del>
SOIL 205	The Soil Ecosystem	3 cr
SOIL 206	The Soil Ecosystem Lab	1 cr
<del>STAT 251</del>	<del>Statistical Methods</del>	<del>3 cr</del>
<del>COMM 101</del>	<del>Fundamentals of Public Speaking</del>	<del>2 cr</del>
<del>ECON 202</del>	<del>Principles of Microeconomics</del>	<del>3 cr</del>
<del>AGEC 278</del>	<del>Farm and Agribusiness Management</del>	<del>4 cr</del>
<del>BIOL 115</del>	<del>Cells and the Evolution of Life</del>	<del>3 cr</del>
<del>BIOL 115L</del>	<del>Cells and the Evolution of Life Laboratory</del>	<del>1 cr</del>

#### ~~One of the following (2-3 cr):~~

<del>ASM 305</del>	<del>GPS and Precision Agriculture</del>	<del>3 cr</del>
<del>ASM 412</del>	<del>Agricultural Safety and Health</del>	<del>2 cr</del>
<del>PLSC 207/ GENE 207</del>	<del>Introduction to Biotechnology</del>	<del>3 cr</del>

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## One of the following (4cr):

CHEM 101	Introduction to Chemistry I	4 cr
CHEM 111	Principles of Chemistry I	4 cr

## One of the following (3-4cr):

MATH 143	Pre-calculus Algebra and Analytic Geometry	3 cr
MATH 160	Survey of Calculus	4 cr
MATH 170	Analytic Geometry and Calculus I	4 cr

## One of the following (3-4cr):

<del>COMM 101</del>	<del>Fundamentals Public Speaking</del>	<del>2 cr</del>
ENGL 207	Persuasive Writing	3 cr
ENGL 313	Business Writing	3 cr
ENGL 316	Environmental Writing	3 cr
ENGL 317	Technical Writing	3 cr
<u>ENGL 318</u>	<u>Science Writing</u>	<u>3 cr</u>

## AGRICULTURAL AND EXTENSION EDUCATION

1. Change the following courses:

### **AgEd 453 Program Planning and Evaluation in Secondary and Adult Agricultural Education (1 or 3 cr)**

Planning, organizing, and implementing secondary and adult programs in agriculture. ~~Includes only the adult section of the course when taken for 1 cr. Class taught on an accelerated schedule.~~ This course is to be taken during the student teaching semester. (Spring only)

**Prereq:** ~~AgEd 180, AgEd 452~~ Agricultural Education major and Permission

**Prereq or Coreq:** ~~AgEd 358~~

### **AgEd 470 Proseminar in Agricultural Education (1 cr, max 2)**

Professional issues in agricultural education. Fall semester includes additional 8-hour Saturday session for CPR and first aid training.

**Prereq:** Admission to Teacher Education Program or Permission

2. Make the following curricular changes to the **Major in Agricultural Science, Communication and Leadership** (B.S.Ag.L.S.):

ACCT 201	Introduction to Financial Accounting	3 cr
<del>AGEC 278</del>	<del>Farm and Agribusiness Management</del>	<del>4 cr</del>
AGEC 289	Agricultural Markets and Prices	3 cr
AGED 180	Introduction to Agricultural Education	1 cr
AGED 450	Developing Leaders	2 cr
<del>AGED 451</del>	<del>Communicating in Agriculture</del>	<del>3 cr</del>
<del>BIOL 115</del>	<del>Cells &amp; the Evolution of Life</del>	<del>3 cr</del>
<del>BIOL 115L</del>	<del>Cells and the Evolution of Life Laboratory</del>	<del>1 cr</del>
<del>ECON 202</del>	<del>Principles of Microeconomics</del>	<del>3 cr</del>

## 5-10 credits required:

AGED 498	Internship	1-10 cr - Max 10 cr
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## ~~Additional Natural and Applied Science (4 cr):~~

~~Additional Natural and Applied Sciences 4 cr~~

## Upper-Division Agricultural Economics elective (3 cr):

AGEC Upper-Division Agricultural Economics Elective 3 cr

## One of the following (~~18~~20 cr):

~~Nine~~Ten credits in two different subject areas chosen from:

Agricultural System Management (ASM)

Animal and Veterinary Science (AVS)

Entomology (ENT)

Family and Consumer Science (FCS)

Food Science (FS)

Plant Science (PLSC)

Soils (SOIL)

## OR

~~12~~Fifteen credits in one subject area chosen from:

Agricultural System Management (ASM)

Animal and Veterinary Science (AVS)

Entomology (ENT)

Family and Consumer Science (FCS)

Food Science (FS)

Plant Science (PLSC)

Soils (SOIL)

and ~~Six~~Five credits from a Foreign Language.

## Communication Electives including one upper-division course (12 cr):

EDCI 410 Technology, Teaching, & Learning 2 cr

COMM 233 Interpersonal Communication 3 cr

COMM 332 Communication and the Small Group 3 cr

COMM 410 Conflict Management 3 cr

COMM 431 Applied Business and Professional Communication 3 cr

JAMM 100 Media and Society 3 cr

JAMM 121 Media Writing 3 cr

JAMM 252 Introduction to Public Relations 3 cr

## Leadership Electives (12 cr):

AGED 181 Introduction to Extension Education 1 cr

AGED 252 Developing Community and Collegiate Organizations 3 cr

AGED 359 Developing 4-H Youth Programs 2 cr

AGED 448 Foundations of Extension Education 2 cr

BUS 311 Introduction to Management 3 cr

BUS 413 Organizational Behavior 3 cr

BUS 418 Managing Organization Design and Leading Changes 3 cr

NRS 486 Public Involvement in Natural Resource Management 3 cr

MS 101 Intro to the Army & Critical Thinking 1 cr

MS 102 Intro to the Profession of Arms 1 cr

MS 201 Foundations of Leadership I 2 cr

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MS 202	Foundations of Leadership II	2 cr
REC 254	Camp Leadership in Recreation and Sport	3 cr

## Courses to total 120 credits for this degree

3. Make the following curricular changes to the **Major in Agricultural Education (B.S.Ag.Ed)**:

AGED 180	Introduction to Agricultural Education	1 cr
AGED 258	Experiential Learning and SAE Programs	1 cr
AGED 351	Principles and Philosophy of Career and Technical Education	3 cr
AGED 358	Supervising FFA and SAE Programs	3 cr
AGED 451	Communicating in Agriculture	3 cr
AGED 452	Methods of Teaching Agriculture	4 cr
AGED 453	Program Planning in Secondary and Adult Agricultural Education	1-3 cr - Max 3 cr

~~Three credits required~~

AGED 454	Facilities Organization and Management	2 cr
AGED 460	Practicum: Secondary School Teaching in Agriculture	10 cr
AGED 461	Student Teaching Portfolio	2 cr
AGED 470	Proseminar in Agricultural Education	1 cr - Max 2 cr
AGED 471	Senior Capstone in Agricultural Education	1 cr
ASM 107	Beginning Welding	2 cr
ASM 202	Agricultural Shop Practices	2 cr
ASM 210	Small Engines	2 cr
ASM 407	Advanced Welding	1 cr
BIOL 115	Cells & the Evolution of Life	3 cr
BIOL 115L	Cells and the Evolution of Life Laboratory	1 cr
COMM 101	Fundamntls Public Speaking	2 cr
ECON 202	Principles of Microeconomics	3 cr
EDCI 201	Contexts of Education	2 cr
EDCI 301	Lrng, Dvlpmnt, & Assessment	3 cr
<del>EDCI 453</del>	<del>Phonics, Phonological Awareness, Fluency, and Assessment</del>	<del>1 cr</del>
EDCI 463	Literacy Methods for Content Learning	3 cr
EDSP 300	Educating for Exceptionalities	2 cr
PSYC 101	Introduction to Psychology	3 cr

## ANIMAL AND VETERINARY SCIENCE

1. Add the following course:

### **AVS 110L Science of Animal Husbandry Lab (1 cr)**

Laboratory to support teaching in AVS 110; introductory applications of fundamentals of animal science to domestic animal management and production. One 2-hr lab a wk.

**Prereq:** AVS 109

**Coreq:** AVS 110

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2. Change the following courses:

### **AVS ~~209~~110 Science of Animal Husbandry (4~~3~~ cr)**

Fundamental concepts of animal husbandry and its foundation in the science of animal production; introduction to the technical subject matter of animal production. ~~Three lec and one 2-hr lab a week.~~

**Prereq:** AVS 109

### **AVS 305 Animal Nutrition (3~~4~~ cr)**

Introduction of the concepts and principles of animal nutrition; fundamentals of nutrients and their digestion and metabolism; various biochemical pathways and processes for nutrient utilization; nutrition fundamentals for a range of monogastric and ruminant animals.

Recommended Preparation: Biol 115 and Chem 111. Cooperative: open to WSU degree-seeking students.

**Prereq:** AVS 109

## FOOD SCIENCE

1. Add the following cooperative courses:

### **FS 407 Evaluation of Dairy Products Lab (1 cr)**

Identifying defects in dairy products and intense trainings for Collegiate Dairy Products Evaluation competition. Cooperative course available to WSU degree-seeking students.

**Coreq:** FS 406

### **FS 519 Food Rheology (3 cr)**

Rheology is the study of flow, deformation and friction. This course, will cover the fundamentals of rheology, including stress, strain, flow behaviors, pipe flow, viscoelasticity, and tribology. In the lab component, we will learn how to correctly set up and run tests. Both the lecture and the lab will focus on sound application of rheological principles for interpretation of rheological data. Cooperative course available to WSU degree-seeking students.

### **FS 575 Food Quality Management (3 cr)**

Discuss the principles and practices of commonly used quality management systems used to maintain and improve the quality of their products and services. Use statistical tools to monitor and assess quality. Cooperative course available to WSU degree-seeking students.

**Prereq:** STATS 251, FS 302 and FS 303

2. Change the following courses:

### **FS 201 Science on Your Plate (3 cr)**

Applications of science, scientific literacy, and critical thinking as related to the development and manufacture of modern food products and their use in modern civilizations. This is a cooperative course available to WSU degree-seeking students.

~~Prereq or Coreq: One science or physical science course~~

### **FS 304 Cereal Chemistry and Processing (3 cr)**

This course has been designed to provide students with a breadth of knowledge in the field of cereal grain science. This course will cover cereal and legume structure, chemistry, and function as it relates to processing and utilization. Cooperative: open to WSU degree-seeking students.

**Prereq:** Chem 275 ~~and Chem 276~~ or CHEM 277

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## **FS 406 Evaluation of Dairy Products I (12 cr)**

Identifying defects in dairy products and relating these defects to their probable cause; remedies. Recommended Preparation: FS 329, FS 429 and FS 433. Cooperative: open to WSU degree-seeking students. (Spring only).

## **FS 475 ~~Statistical~~ Quality Management ~~Tools for~~ Food Products (3 cr)**

~~Apply modern statistical methods for quality control and improvement of biomanufactured goods. The course is designed to expose the student to principles of statistical process control while providing a basis of application in a variety of situations and systems. Cooperative: open to WSU degree-seeking students. Describe fundamental concepts for quality management and improvement of biomanufactured goods. Apply principles of statistical process control in a variety of situations and systems. Cooperative course available to WSU degree-seeking students.~~  
Prereq: FS 302 and FS 303 and Stat 251

Coreq: FS 302 and FS 303; STATS 212 or STATS 251 or permission from instructor

## **FS 512 ~~Food Proteins and Enzymes~~ Protein Structure and Function (2 cr)**

Chemistry/biochemistry of proteins/enzymes applied to food research and industry; protein functionality/enzyme technology application to food industry. Cooperative: open to WSU degree-seeking students.

## **FS 517 Scientific Writing (2 cr, max 4)**

Planning, writing, reporting, reviewing and evaluating current food-related research. Cooperative: open to WSU degree-seeking students. Open to Food Science Graduate Students Only

## **FS 518 Oral Seminar (1 cr)**

Development of skills and communication tools and techniques for oral presentations of current food science research. Additional projects/assignments required for graduate credit. Cooperative: open to WSU degree-seeking students. Open to Food Science Graduate Students Only.

## **PLANT, SOIL AND ENTOMOLOGICAL SCIENCES**

1. Add the following course:

### **PLSC 420 Plant Community Restoration Methods (2 cr)**

Students will participate in classroom discussions surrounding topics that are important to modification and implementation of a restoration plan. Students will also participate in practical, hands-on activities during laboratory periods. Those activities include operation of equipment for cultivation and seeding, calibration of herbicide sprayers, calibration of drills, transplanting techniques, monitoring and evaluation of restoration projects and visits to restoration projects.

**Prereq:** REM 221, equivalent or permission

2. Make the following curricular changes to the **Major in Sustainable Food Systems (B.S.Ag.L.S.):**

SOIL 417	Market Garden Practicum	1-6 cr - Max 6 cr
	<u>Note: Students must complete 3 credits min.</u>	
SOIL 427	Sustainable Food Systems	3 cr
SOIL 446	Soil Fertility	1-3 cr - Max 3 cr
	<u>Note: Students must complete 3 credits</u>	
		3 cr

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AGEC 486	Regional Economic Development Theory	
<del>AGED 181</del>	<del>Introduction to Extension Education</del>	<del>1 cr</del>
ASM 315	Irrigation Systems and Water Management	3 cr
AVS 109	The Science of Animals that Serve Humanity	4 cr
<del>BIOL 115</del>	<del>Cells &amp; the Evolution of Life</del>	<del>3 cr</del>
ENT 322	General and Applied Entomology	4 cr
FCS 205	Concepts in Human Nutrition	3 cr
FOR 221/ REM 221	Ecology	3 cr
FS 110	Introduction to Food Science	3 cr
FS 220	Food Safety and Quality	3 cr
FS 436	Principles of Sustainability	3 cr
PLSC 102	The Science of Plants in Agriculture	3 cr
PLSC 338	Weed Control	4 cr
<del>PLSC 400</del>	<del>Seminar</del>	<del>1 cr</del>
<del>SOIL 400</del>	<del>Seminar</del>	<del>1 cr</del>
PLSC 451	Vegetable Crops	3 cr
POLS 364/ NRS 364	Politics of the Environment	3 cr
<del>SOC 101</del>	<del>Introduction to Society</del>	<del>3 cr</del>
SOC 350	Food, Culture, and Society	3 cr
SOIL 210	Food Systems and Healthy Lifestyles	3 cr
SOIL 398	Internship	1-6 cr - Max 6 cr

*Three credits of SOIL 398 required.*

### ~~One of the following (3-4 cr):~~

<del>AGEC 278</del>	<del>Farm and Agribusiness Management</del>	<del>4 cr</del>
<del>AGEC 289</del>	<del>Agricultural Markets and Prices</del>	<del>3 cr</del>

### One of the following (2 cr):

AGED 447	Adult Education in Agriculture	2 cr
AGED 448	Foundations of Extension Education	2 cr

### One of the following (3 cr):

CHEM 275	Carbon Compounds	3 cr
CHEM 277	Organic Chemistry I	3 cr

### One of the following (3-5 cr):

BIOL 154	Introductory Microbiology	3 cr
	AND	
BIOL 155	Introductory Microbiology Laboratory	1 cr
BIOL 250	General Microbiology	3 cr
	AND	
BIOL 255	General Microbiology Lab	2 cr
BIOL 300	Survey of Biochemistry	3 cr

**Courses to total 128 credits for this degree**

## COLLEGE OF BUSINESS AND ECONOMICS

### ACCOUNTING

1. Add and joint list the following courses:

**ACCT J421/J521 Accounting Data Analytics (3 cr)**

Role of accounting data analytics in the detection and assessment of fraud in an organizational setting. Topics include: definitions and detection of fraud; the data analysis cycle and data analytic and statistical techniques; and the application of these techniques to a variety of types of fraud.

**Prereq:** ACCT 315

**ACCT 521 Accounting Data Analytics (3 cr)**

See ACCT J421/J521.

2. Make the following curricular changes to the **Accounting Major** (B.S.Bus.):

ACCT 305	Accounting Information Systems	3 cr
ACCT 315	Intermediate Financial Accounting I	3 cr
ACCT 325	Intermediate Financial Accounting II	3 cr
ACCT 385	Cost and Management Accounting	3 cr
ACCT 483	Fundamentals of Federal Taxation	3 cr
ACCT 492	Auditing and Controls	3 cr

**Accounting Electives chosen from the following (6 cr):**

ACCT 415	Advanced Financial Accounting & Reporting	3 cr
<a href="#">ACCT 420</a>	<a href="#">Accounting Data Analytics</a>	<a href="#">3 cr</a>
ACCT 440	Fraud Examination	3 cr
ACCT 484	Federal Taxation of Entities	3 cr
ACCT 530	Accounting for Public Sector Entities	3 cr
ACCT 585	Estate and Elder Planning	3 cr
BLAW 420	Commercial Law	3 cr
BLAW 425	Law of Business Entities	3 cr

### BUSINESS

1. Add the following course:

**MKTG 431 Marketing Analytics (3 cr)**

Marketing Analytics is concerned with concepts, tools, methods, and applications of modeling and decision making to address important marketing issues such as pricing, segmentation, positioning, market forecasting, new product management and development, sales force management, and promotion planning. The course is aimed at providing students with analytic and interpretive skills needed to make intelligent and critical use of marketing data.

**Prereq:** Mktg 421

**Coreq:** Stat 431

2. Change the following courses:

**BUS 301 Financial Resources Management (3 cr)**

This course examines the policies and practices involved in the allocation of financial resources in business organizations; develops the tools needed to use financial data for analysis and financial decision making. May involve evening exams.

**Prereq:** Acct 201 ~~and Acct 202; and Stat 251 or Stat 301; and Econ 202 or Econ 272; and Bus 252 or Math 330~~

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## **BUS 302 Intermediate Financial Management (3 cr)**

Advanced course in managerial finance that addresses more complex issues such as risk in capital budgeting, working capital management, mergers, business failure and reorganization, and lease financing. May involve evening exams.

**Prereq:** Bus 301; [Acct 202](#); [Econ 201](#) or [Econ 272](#); [Bus 252](#)

## **BUS 310 Leading Organizations and People (3 cr)**

Great leaders are made, not born. This course prepares students to effectively acquire and deploy human capital, lead individuals and teams, inspire and motivate people to perform the tasks needed to achieve ambitious goals, and inspire innovation. Includes international and ethical issues. May involve evening exams and presentation practices.

**Prereq:** Acct 201 or [Acct 202](#), and Bus 190; and Econ 201 or [Econ 202](#) or [Econ 272](#); and [Sophomore Standing](#)

## **BUS 420 ~~Promotional Strategy~~ Integrated Marketing Communications (3 cr)**

~~Marketing management point of view; objectives, methods, strategies, budgets, and measures of effectiveness; campaign management including advertising, public relations, sales promotion, reseller support, personal selling. May involve evening exams.~~ [Integrated Marketing Communications \(IMC\) from a marketing strategy perspective. Application of the IMC planning process and examination of the role of integration to create consistency of strategy using traditional promotion elements \(advertising, public relations, sales promotion, reseller support, personal selling\) and new media. May involve evening exams.](#)

**Prereq:** Bus 321

## **BUS 463 Portfolio Management (3 cr)**

Application of security selection, portfolio theory and construction; financial futures; risk and return in investments; may involve management of actual portfolios.

~~**Prereq:** Bus 302~~

**Coreq:** [Bus 302](#)

## **BUS 465 Introduction to Market Trading (3 cr)**

Provides students practical experiences in the analysis of financial conditions and markets with the objective of developing trading and risk management strategies. Professional trading analysis software is used. The major topics covered include financial instruments, fundamental and technical analysis of markets, inter-market analysis, and risk management. ~~[Recommended Preparation: Econ 201 and Econ 202 or Econ 272; and Stat 251.](#)~~ (Fall only)

~~**Prereq:** Permission~~

**Coreq:** [Bus 302](#) or [Permission](#)

## **Bus 495 Product Development and Brand Management (3 cr)**

*Gen Ed: Senior Experience*

[Same as RMat 495. This course examines product development strategy and the management of brands. Topics will include strategic intent of product development, the process of product development \(ideation through post product launch evaluation\), market and financial feasibility of product development, trends in product development, and managing brands \(strategic brand management and managing brand equity\). Principles of product planning, development and commercialization; concept testing; product life cycle management; portfolio analysis; targeting and positioning; team management; and implementing product decisions. \(Fall only\)](#)

**Prereq:** [Econ 201, 202 or 272](#); and [Bus 321](#)

**Coreq:** [Bus 321](#)

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### 3. Make the following curricular changes to the **Entrepreneurship Undergraduate Academic Certificate**:

BUS 414	Entrepreneurship	3 cr
BUS 415	New Venture Creation	3 cr

#### **One of the following accounting courses (3 cr):**

ACCT 482	Enterprise Accounting	3 cr
<del>ACCT 486</del>	<del>Contemporary Management Accounting Issues</del>	<del>3 cr</del>
ACCT 582	Enterprise Accounting	3 cr

#### **Technical electives (3 cr):**

AGEC 415	Entrepreneurial Skills in Agribusiness Management	1 cr
AGEC 478	Advanced Agribusiness Management	3 cr
ARCH 475	Professional Practice	3 cr
ARCH 556	Graduate Project	6 cr
ART 410	Professional Practices	2 cr
ART 490	BFA Art/Design Studio	6 cr - Max 12 cr
<u>Bus 353</u>	<u>Application Development</u>	<u>3 cr</u>
BE 478	Engineering Design I	3 cr
BE 479	Engineering Design II	3 cr
BUS 428	Marketing Management	3 cr
BUS 490	Strategic Management	3 cr
CHE 451	Environmental Management and Design	1-16 cr
CHE 452	Environmental Management and Design	1-16 cr
CS 481	CS Senior Capstone Design II	3 cr
ECE 480	EE Senior Design I	3 cr
ECE 481	EE Senior Design II	3 cr
ECE 482	Computer Engineering Senior Design I	3 cr
ECE 483	Computer Engineering Senior Design II	3 cr
FCS 496	Internship: Fashion Business	2-8 cr - Max 8 cr
FS 489	Food Product Development	3 cr
GEOG 340	Business Location Decisions OR	3 cr
GEOG 540	Business Location Decisions	3 cr
GEOG 360	Population Dynamics and Distribution OR	3-4 cr - Max 4 cr
GEOG 560	Population Dynamics and Distribution	3-4 cr - Max 4 cr
GEOG 385	GIS Primer	3 cr
ME 410	Principles of Lean Manufacturing	3 cr
ME 426	Mechanical Systems Design II	3 cr
STAT 446/ BUS 446	Six Sigma Innovation	3 cr

**Courses to total 12 credits for this certificate**

## COLLEGE OF EDUCATION

### CURRICULUM AND INSTRUCTION

1. Add the following courses:

**EDCI 413 Data Analysis and Probability (3 cr)**

Examines the understandings that are foundational to probability and data analysis, and how grade 5-10 students develop these ideas. Topics include experimental and theoretical probability, sample space, independent and dependent events, measures of central tendency and spread, and data representations. Emphasis will be on proof and argumentation and modeling with mathematics to draw conclusions, on the specialized mathematics knowledge for teaching, and how engagement in this content exemplifies the mathematical practices expressed in CCSS-M.

**EDCI 416 Proportional and Algebraic Reasoning (3 cr)**

This course examines topics related to the development and application of reasoning with proportional quantities, and how students develop an understanding of these, application of rational number and operations, and how grade 5-10 students develop algebraic reasoning from arithmetic thinking, by abstracting from computation and working with generalized numbers. Topics include comparison, ratio, proportion, rate, equality and relational thinking, generalizing, patterns, and modeling. Emphasis will be on modeling with mathematics to analyze problems, reasoning abstractly and quantitatively, looking for and making sense of structure, proof and argumentation, the specialized mathematics knowledge needed for teaching these topics, and on how engagement in this content exemplifies the mathematical practices expressed in CCSS-M.

2. Change the following course:

**EDSP 300 Educating for Exceptionalities (23 cr)**

Introduction to exceptionalities and strategies for addressing individual differences to ensure student success in the classroom.

### EDUCATION

1. Add the following courses:

**ED 250 CoEd Student Ambassador (1 cr, max 2)**

The College of Education Ambassadors are a select group of students representing all departments within our college and assist the college in recruitment and retention of highly qualified students, and promotional activities.

**ED 591 Indigenous and Decolonizing Research Methods (3 cr)**

In this course, students will explore the historic and current discourse in Indigenous and Decolonizing Research. From an interdisciplinary perspective, students will analyze knowledge production through histories of Indigenous persistence and resistance to colonial power. Course content will expose students to methodologies grounded in the lived experiences and histories of individuals and communities marginalized by the colonial legacy, and will seek to engage students in research which invigorates connections, struggles, and knowledges to reflect reciprocal benefit to communities beyond the academy.

### MOVEMENT SCIENCES

1. Add the following courses

**AT 634 Introduction to Quantitative Data Analysis and Interpretation in Patient Care (2 cr)**

This course introduces quantitative research design, methods of measurement, and introductory data analysis skills for health care professionals. The goals are for students to develop an introductory understanding of quantitative design, develop skills to perform basic data analysis procedures, and begin to develop the skills to

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interpret findings from quantitative data analysis research projects.

**Prereq:** Permission

### **AT 635 Intermediate Quantitative Data Analysis & Interpretation in Patient Care (2 cr)**

This course provides an in-depth analysis of quantitative research design and data analysis for health care professionals. The goal is to prepare health care students to apply quantitative research design and data analysis skills in patient care. The goals are for students to develop sound understand of research design and be able to utilize correlational, reliability, and univariate data analysis skills to answer important research questions in patient care. Students will learn to interpret and disseminate their findings to other health care professionals.

**Prereq:** Permission

### **REC 380 Principles of Travel and Tourism (3 cr)**

Tourism is “the largest scale movement of goods, services, and people that humanity has ever seen.” This course provides an overview of tourism as an industry and a sociocultural phenomenon from local to international levels as well as the economic, social, and environmental impacts of tourism on local communities.

## 2. Change the following courses:

### **AT 610 ~~Seminar in Athletic Training I~~ Advances in Manual Therapy and Practice (3 cr)**

~~Selected readings from peer reviewed articles will be examined and discussed. Translation of research findings to current clinical practice will be emphasized.~~

**Prereq:** Permission

### **AT 611 ~~Seminar in Athletic Training II~~ Integrative Manual Therapy and Practice (3 cr)**

~~Selected readings from peer reviewed articles will be examined and discussed.~~ Translation of research findings to current clinical practice will be emphasized. Novel intervention theories, techniques, strategies, will be presented, discussed, practiced as related to patient care and practice based evidence.

**Prereq:** Permission

### **AT 620 Research Methods & Evidence Based Practice in Patient Care ~~in Athletic Training I~~ (3 cr)**

This course introduces common research performed in ~~Athletic Training~~ patient care. Development of in-depth understanding in areas and types of research underlying quantitative research design will be explored. Introduction to critiquing literature for the purpose of developing a theoretical framework will be included.

**Prereq:** Permission

### **AT 621 ~~Research Methods in Athletic Training II~~ Action Research in Patient Care (3 cr)**

~~This course introduces Statistical methods employed in clinical research. Topics including statistical terminology, measures of central tendency, Hypothesis testing and common parametric tests will be the content for the course.~~ This course sets the foundation for action research in clinical practice. Development of a research question and justification with literature review will be employed. Purpose and methods of institutional review will be evaluated. Further discussion will elucidate the importance of becoming a scholarly practitioner.

**Prereq:** Permission

### **AT 622 ~~Advanced Action Research in Athletic Training~~ Designing and Conducting Applied Research in Patient Care (3 cr)**

~~This course is a continuation of clinical research in athletic training and advances the students understanding of research methods in action research.~~ This continues the process of applied research in clinical practice. Development of methods to test a chosen hypothesis will be created. Exploration of statistical methods to test the clinician’s hypothesis will be compared. Dissertation proposal will developed.

**Prereq:** AT 620 and AT 621

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### AT 623 ~~Introduction to Survey and Qualitative Methods and Research Design in Athletic Training~~ Patient Care (3 cr)

This course introduces common qualitative methodologies and survey research design in AT patient care.

**Prereq:** AT 620, AT 621, and AT 622

### AT 624 ~~Advanced Quantitative Data Analysis & Interpretation in Patient Care Methods and Statistics in Athletic Training~~ (3 cr)

~~This course is a continuation of clinical research in athletic training and advances the students understanding of quantitative research methods and statistics utilized in health professions. This course provides an in-depth analysis of quantitative research design and data analysis for health care professionals. The goal is to prepare health care students to apply quantitative research design and data analysis skills in patient care. Students will develop sound understanding of research design and be able to utilize regression, factor analysis, and multivariate data analysis skills to answer important research questions in patient care. Students will learn to interpret and disseminate their findings to other health care professionals.~~

**Prereq:** AT 620, AT 621, AT 622, and AT 623

### AT 625 ~~Dissertation of Culminating Clinical Practice Project~~ Improvement: Analysis and Dissemination of Action Research Project (3 cr)

~~This continues the process of action research in clinical practice. Data analysis of the student's research will be performed. Introduction to manuscript writing, dissemination of knowledge in written, oral and poster presentation and a focus on journal review will be the context for this course. Student will successfully present their findings and prepare manuscript in journal ready format. This course is a continuation of clinical research in athletic training and is the culmination of the students research methods in action research related to their Doctor of Athletic Training Studies.~~

**Prereq:** AT 620, AT 621, AT 622, AT 623, and AT 624

### AT 630 ~~Current Issues in Clinical Practice I~~ Holistic Foundations of Pain in Patient Care (3 cr)

~~This course explores current topics in clinical practice that influence quality care and methods of measurement and evaluation for quality assessment. Exploration to common instrumentation utilized by clinicians will be discussed and compared to literature utilizing the instruments for research purposes. This course explores current topics in clinical practice, related to the foundations of pain in the human body that influence quality care and methods of measurement and evaluation for quality assessment. Exploration to common instrumentation utilized by clinicians will be discussed and compared to literature utilizing the instruments for research purposes.~~

**Prereq:** Permission

### AT 631 ~~Current Issues in Clinical Practice II~~ Theory and Application of Current and Novel Paradigms in Patient Care (3 cr)

~~This course explores current topics and causes of musculoskeletal injuries to the extremities. An in-depth look at epidemiology, biomechanics and other topics related to musculoskeletal injuries of the extremities will be emphasized. Building on foundation of AT 630, this course illustrates the implications of holistic theories of pain by exploring and integrating appropriate novel interventions within efficacious patient care.~~

**Prereq:** Permission

### AT 632 ~~Current Issues in Clinical Practice III~~ Integrative Patient Care for the Spine and Pelvic Girdle (3 cr)

~~This course explores current topics of interest areas of practicing professionals. An in-depth look at theory, research, and art of the chosen interest area will be explored. Focus will be in critically analyzing areas such as; anatomy, pathophysiology, biomechanics, theoretical framework or ethical principles to explain the students chosen topic. This course explores current topics and causes of musculoskeletal injuries to the spine and pelvis. An in-depth look at epidemiology, biomechanics and other topics related to musculoskeletal injuries of the lumbar spine and pelvis will be emphasized.~~

**Prereq:** Permission

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### **AT 633 ~~Current Issues in Clinical Practice IV~~ Application of Advanced Practice Skills: A Practice-Based Evidence Approach (3 cr)**

This course explores current topics of interest areas of practicing professionals. An in-depth look at theory, research, and art of the chosen interest area will be explored. Focus will be in critically analyzing areas such as; anatomy, pathophysiology, biomechanics, theoretical framework or ethical principles to explain the students chosen topic.

**Prereq:** Permission

### **AT 640 Clinical Residency and Analysis of Patient Care I (6 cr)**

This course is designed to critically assess clinical skills and improve patient care of the practicing healthcare professional in a mentor guided model.~~This course is designed to improve the clinical skills of the practicing Athletic Training professional in a mentor guided model.~~ Improvement in a selected area(s) of clinical practice will be measured via formative and summative assessment that employs quantitative measures. Impact of the skill improvement to the organization and profession will be demonstrated.

**Prereq:** Permission

### **AT 641 Clinical Residency and Analysis of Patient Care II (6 cr)**

This course is designed to critically assess clinical skills and improve patient care of the practicing healthcare professional in a mentor guided model.~~This course is designed to improve the clinical skills of the practicing Athletic Training professional in a mentor guided model.~~ Improvement in a selected area(s) of clinical practice will be measured via formative and summative assessment that employs quantitative measures. Impact of the skill improvement to the organization and profession will be demonstrated.

**Prereq:** Permission

### **AT 642 Clinical Residency and Analysis of Patient Care III (6 cr)**

This course is designed to critically assess clinical skills and improve patient care of the practicing healthcare professional in a mentor guided model.~~This course is designed to improve the clinical skills of the practicing Athletic Training professional in a mentor guided model.~~ Improvement in a selected area(s) of clinical practice will be measured via formative and summative assessment that employs quantitative measures. Impact of the skill improvement to the organization and profession will be demonstrated.

**Prereq:** Permission

### **AT 643 Clinical Residency and Analysis of Patient Care IV (6 cr)**

This course is designed to critically assess clinical skills and improve patient care of the practicing healthcare professional in a mentor guided model.~~This course is designed to improve the clinical skills of the practicing Athletic Training professional in a mentor guided model.~~ Improvement in a selected area(s) of clinical practice will be measured via formative and summative assessment that employs quantitative measures do demonstrate improved patient care. Impact of the skill improvement to the organization and profession will be demonstrated. Summary of all impact of clinical residencies will be presented to the participant's organization

**Prereq:** Permission

### 3. Change the following courses:

#### **Rec 104 Introduction to Recreation, ParksSport, and Tourism Professions (3 cr)**

Introduction to the foundations of recreation, park sport and tourism professions and careers, and related issues, resources, and professional opportunities. (Fall only)

#### **Rec 107 Outdoor Recreation and Tourism Pursuits Adventure Sports (3 cr)**

Introduction to leadership and motivational theories, core competencies, trends, and programming for contemporary outdoor recreation and adventure sports~~tourism pursuits~~ via theoretical discussion, examination of current trends and hands-on programming and participation opportunities. Overnight field trips and weekly labs required.

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## **Rec 240 ~~Recreation and Sport Activities, Programming, and Marketing~~ Recreation Activities, Programming and Marketing (3 cr)**

Introduction to recreation activities with applications to programming and marketing in leisure settings. Programming field experience required.

## **Rec 260 Foundations of Recreation, Sport, and Tourism ~~Leisure and Society~~ (3 cr)**

History of and expanding role of leisure in modern U.S. life; emphasis on factors influencing leisure; analysis of leisure values as related to the individual and society. (Fall only)

## **Rec 280 ~~Recreation~~ Practicum in Recreation, ParksSport, and Tourism (1 cr, max 3)**

Practical experience in agency recreation and leisure services recreation, park, sport, or tourism agency services. Forty clock hrs reqd per cr. Graded P/F.

**Prereq:** Permission of advisor

## **Rec 370 Leisure, Health and Human Development in Recreation, Sport, and Tourism (3 cr)**

~~Leisure and health~~ Recreation, sport, and tourism across the lifespan (early childhood to late life) ~~based on~~ health and human development concepts and theories. ~~Emphasis on psychological, sociological, and cultural influences.~~ (Alt/yrs)

## **Rec 395 Diversity in Recreation, ParksSport, and Tourism (3 cr)**

Delivery of recreation, park sport, and tourism services to diverse populations. Analysis of diversity issues in a wide array of leisure settings.

## **Rec 485 Trends in Recreation, ParksSport, and Tourism (3 cr)**

Current trends and issues in the recreation, park sport and tourism field; analysis of selected topics of current relevance. (Alt/yrs)

## **Rec 490 Management and Entrepreneurship in Recreation, ParksSport, and Tourism (3 cr)**

Models of entrepreneurship and components of successful management in recreation, sport, park, and tourism settings such as business planning, human resources, operations and risk management. (Alt/yrs)

## **Rec 498 (s) Internship in Recreation, ParksSport, and Tourism (cr arr)**

Supervised field work with a professional, sport, or tourism recreation agency.

**Prereq:** Rec 280, senior status, majority of coursework completed

### 4. Make the following curricular changes to the **Major in Recreation** (B.S.Rec.):

COMM 101	Fundamntls Public Speaking	2 cr
REC 104	Introduction to Recreation, Parks, and Tourism Professions	3 cr
REC 107	Outdoor Recreation and Tourism Pursuits	3 cr
REC 240	Recreation Activities, Programming and Marketing	3 cr
REC 260	Foundations of Leisure and Society	3 cr
REC 280	Recreation Practicum in Recreation, Parks and Tourism	1 cr - Max 3 cr
REC 370	Leisure, Health and Human Development	3 cr
REC 395	Diversity in Recreation, Parks and Tourism	3 cr
REC 424	Inclusive Physical Education and Recreation	3 cr
REC 485	Trends in Recreation, Parks and Tourism	3 cr
<u>REC 490</u>	<u>Management and Entrepreneurship in Recreation, Sport, and Tourism</u>	<u>3 cr</u>
REC 498	Internship in Recreation, Parks and Tourism	1-16 cr

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### Additional courses selected from the following (6 cr):

REC 254	Camp Leadership in Recreation and Sport	3 cr
REC 310	Outdoor and Adventure Leadership	3 cr
<a href="#">REC 380</a>	<a href="#">Principles of Travel and Tourism</a>	
REC 408	Experiential Education and Adventure Recreation	3 cr
<a href="#">REC 203</a>	<a href="#">Workshop</a>	<a href="#">1-16 cr</a>
	<a href="#">OR</a>	
<a href="#">REC 403</a>	<a href="#">Workshop</a>	<a href="#">1-16 cr</a>
REC 204	Special Topics	1-16 cr
	OR	
REC 404	Special Topics	1-16 cr
REC 299	Directed Study	1-16 cr
	OR	
REC 499	Directed Study	1-16 cr
MVSC 429	Leadership, Pedagogy and Program Planning for Healthy Active Lifestyles	3 cr
MVSC 486	Marketing, Implementation and Evaluation for Healthy, Active Lifestyles	1 cr

### One of the following (2-3 cr):

H&S 288	First Aid: Emergency Response	2 cr
REC 290	Wilderness First Responder	3 cr
	<i>REC 290 or Emergency Responder Certification.</i>	

### One of the following (3-4 cr):

NRS 310	Social Science Methods	4 cr
REC 455	Design & Analysis of Research in Movement Sciences	3 cr

### One of the following (3 cr):

ENGL 207	Persuasive Writing	3 cr
ENGL 313	Business Writing	3 cr
ENGL 317	Technical Writing	3 cr

### Four credits of the following courses selected from:

DAN 105	Dance	1 cr
PEB 106	Individual & Dual Sports	1 cr
PEB 107	Team Sports	1 cr
PEB 108	Water-Based Sports & Fit Act	1 cr
PEP 132	Skill and Analysis of Striking and Net/Wall Activities	1 cr
PEP 133	Skill and Analysis of Target and Invasion Activities	1 cr
PEP 134	Skill and Analysis of Recreation and Outdoor Activities	1 cr
PEP 135	Skill and Analysis of Basketball and Volleyball	1 cr
PEP 136	Skill and Analysis of Soccer and Speedball	1 cr
<a href="#">REC 108</a>	<a href="#">Orienteering and Navigation</a>	<a href="#">1 cr</a>
REC 222	Cross Country Skiing	1 cr
REC 224	Whitewater Rafting	1 cr
REC 225	Kayaking	1 cr
REC 227	Mountain Biking	1 cr

And/or other elective outdoor and adventure courses offered within the program as available

**Courses to total 120 credits for this degree**

5. Make the following curricular changes to the **Major in Athletic Training (D.A.T.)**:

The department offers a D.A.T. program. This program is designed for certified athletic trainers who are interested in improving their clinical practice through a structured academic program with a clinical practice residency. Please contact the department for any inquires in this program.

**The following courses are required:**

AT 606	Professional and Post-Professional Education in Athletic Training	3 cr
AT 610	Seminar in Athletic Training I	3 cr
AT 611	Seminar in Athletic Training II	3 cr
AT 620	Research Methods in Athletic Training I	3 cr
AT 621	Research Methods in Athletic Training II	3 cr
AT 622	Advanced Action Research in Athletic Training	3 cr
AT 623	Qualitative Methods and Research Design in Athletic Training	3 cr
AT 624	Quantitative Methods and Statistics in Athletic Training	3 cr
AT 625	Dissertation of Clinical Practice Improvement: Analysis and Dissemination of Action Research Project	3 cr
AT 630	Current Issues in Clinical Practice I	3 cr
AT 631	Current Issues in Clinical Practice II	3 cr
AT 632	Current Issues in Clinical Practice III	3 cr
AT 633	Current Issues in Clinical Practice IV	3 cr
<u>AT 634</u>	<u>Introduction to Quantitative Data Analysis and Interpretation in Patient Care</u>	<u>2 cr</u>
<u>AT 635</u>	<u>Intermediate Quantitative Data Analysis &amp; Interpretation in Patient Care</u>	<u>2 cr</u>
AT 640	Clinical Residency I	6 cr
AT 641	Clinical Residency II	6 cr
AT 642	Clinical Residency III	6 cr
AT 643	Clinical Residency IV	6 cr

The department also participates in the interdisciplinary M.S. and Ph.D. in Neuroscience and the M.S. in Bioregional Planning and Community Development. Persons interested in doctoral study should visit the College of Education and departmental web page for more information about admission requirements and application procedures.

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### Procedures for Doctor of Athletic Training

The ~~Dissertation of Culminating Clinical Project. Practice Improvement.~~ Students enrolled in the Doctor of Athletic Training (D.A.T.) will engage in research projects during the curricular phase of the program. These project(s) will lead to at least two publication ready manuscripts and all students must meet professional authorship requirements (regardless of order). See Department of Movement Sciences and Doctor of Athletic Training webpages for more information. ~~complete a Dissertation of Clinical Practice Improvement which has been adapted from the traditional theoretical Ph.D. and Ed.D. formats and altered to meet the demands of the changing healthcare landscape. The Dissertation of Clinical Practice Improvement incorporates not only original research but additional evidential measures of the development of advanced practice (e.g. patient outcomes, plan of advanced practice, etc.).~~

The ~~Dissertation~~ Team (Committee). All D.A.T. ~~dissertation project team~~ committees will have at least four committee members: two members of the athletic training faculty (all with graduate faculty status), the student's Attending Clinician (who is the student's on-site mentor during the student's residency), and an expert in the student's chosen area of clinical research. The AT faculty members will always chair the ~~CCP dissertation~~, provide research guidance, and serve as the experts in the development of advanced practice in Athletic Training. A situation may arise in which one or both of the members of the committee that are outside of the AT program faculty may have a degree less than that of which the student is seeking, however, the intent of the third and fourth D.A.T. committee membership is to provide outside validation of the student's progress toward advanced practice and clinical utility of action research studies.

~~Preliminary Exams. All students will successfully complete preliminary exams (in the second summer of the cohort) before being admitted to candidacy. The format of these exams will be decided at the committee and committee chair's discretion but will include the Plan of Advanced Practice and at least one of the following options.~~

~~Comprehensive Exam in the student's area of advanced practice (may include both oral and written items).~~

~~Publication quality manuscript (committee approved).~~

~~Dissertation Culminating Clinical Project Hours. The D.A.T. requires 12 credit hours of dissertation (AT 600) to be eligible for graduation. These dissertation hours may be used in instances when the CCP has not been successfully completed and the curricular phase of program has been completed. are to be completed after the completion of the academic coursework.~~

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### Requirements for Doctoral Degrees

Credit Requirements. For the Ph.D. and Ed.D., a minimum of 78 credits beyond the bachelor's degree is required; of these, at least 52 credits must be at the 500 level or above and at least 33 of the 78 credits must be in courses other than 600 (Doctoral Research and Dissertation). A maximum of 45 credits in dissertation and 5 credits of 599 (Non-thesis Research) may be used toward the degree. For the D.A.T., a minimum of ~~78~~66 credits are required (including all dissertation work). Courses numbered below 300 may not be used to fulfill the requirements for a doctoral degree; courses numbered 300-399 may be used only in supporting areas. Individual programs may require additional course work. Applicants having a doctoral degree may obtain a second doctoral degree subject to the approval of the Graduate Council. The Graduate Council will establish the requirements for the second degree.

**COLLEGE OF LETTERS, ARTS AND SOCIAL SCIENCES**

**AGING STUDIES**

1. Make the following curricular changes to the **Minor in Aging Studies**:

<del>PSYC 419</del>	<del>Adult Development and Aging</del>	<del>3 cr</del>
<del>SOC 431</del>	<del>Personal and Social Issues in Aging</del>	<del>3 cr</del>
<del>FCS 428</del>	<del>Housing America's Families</del>	<del>3 cr</del>
<del>Additional courses selected from the following if not taken above (9-10 cr):</del>		
<b><u>Courses from a minimum of two disciplines (18 cr):</u></b>		
<del>ARCH 498</del>	<del>Internship</del>	<del>1-16 cr</del>
<u>COMM 491</u>	<u>Communication and Aging</u>	<u>3 cr</u>
FCS 346	Personal and Family Finance and Management	4 cr
<del>FCS 404</del>	<del>Special Topics</del>	<del>1-16 cr</del>
FCS 410	Growing Old in a New Age	3 cr
FCS 428	Housing America's Families	3 cr
<u>FCS 434</u>	<u>Adulthood and Aging within the Context of Family</u>	<u>3 cr</u>
<del>FCS 498</del>	<del>Internship</del>	<del>3-9 cr—Max 9 cr</del>
H&S 150	Wellness Lifestyles	3 cr
<del>H&amp;S 498</del>	<del>Internship</del>	<del>1-9 cr</del>
<u>ID 443</u>	<u>Universal Design</u>	<u>3 cr</u>
<del>PEP 498</del>	<del>Internship in Exercise Science &amp; Health</del>	<del>1-16 cr</del>
<u>PSYC 312</u>	<u>Practical Gerontology</u>	<u>3 cr</u>
<u>PSYC 419</u>	<u>Adult Development and Aging</u>	<u>3 cr</u>
<u>REC 370</u>	<u>Leisure, Health and Human Development</u>	<u>3 cr</u>
<del>REC 498</del>	<del>Internship in Recreation, Parks and Tourism</del>	<del>1-16 cr</del>
SOC 431	Personal and Social Issues in Aging	3 cr
<del>SOC 498</del>	<del>Internship</del>	<del>1-6 cr</del>
<b><u>Up to 6 credits may come from:</u></b>		
<u>ARCH 498</u>	<u>Internship</u>	<u>1-6 cr</u>
<u>FCS 404</u>	<u>Special Topics</u>	<u>1-6 cr</u>
<u>FCS 498</u>	<u>Internship</u>	<u>3-6 cr</u>
<u>H&amp;S 498</u>	<u>Internship</u>	<u>1-6 cr</u>

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<a href="#">PEP 498</a>	<a href="#">Internship in Exercise Science &amp; Health</a>	<a href="#">1-6 cr</a>
<a href="#">REC 498</a>	<a href="#">Internship in Recreation, Parks and Tourism</a>	<a href="#">1-6 cr</a>
<a href="#">SOC 498</a>	<a href="#">Internship</a>	<a href="#">1-6 cr</a>

*Other courses with at least 50% aging content as approved by a co-coordinator or an advisor may be selected.*

**Courses to total 18 credits for this minor**

## AMERICAN INDIAN STUDIES

1. Add the following courses:

### **AIST 314 Tribal Sovereignty & Federal Policy (3 cr)**

The Tribal Sovereignty and Federal Policy course is designed to provide an in-depth understanding of how colonial and Federal Indian Policies have impacted the lives of Tribes and their surrounding communities. Through a survey of the changing eras of policy (conquest, pre-Revolutionary approaches, the Marshall Trilogy, the Treaty Era, Allotment and Termination, and Self-Determination), students will learn about the forces that have shaped tribal communities, and a deeper appreciation for tribes' efforts to restore and exercise their sovereignty. Tribal Sovereignty as it applies to land management, natural resources and community development will be a focal area.

### **AIST 344 Indigenous Epistemologies (3 cr)**

The course is intended as an introduction to issues of cultural, racial, ethnic and linguistic diversity that arise in American school and society. In particular we will be looking at indigenous epistemological comparison with Western educational models. The central question for the course will be: Why is educational attainment different for different groups in society, and how does that difference relate to social stratification characteristics of the larger society? We will also try to answer other questions: What is the impact of cultural and linguistic diversity on the various institutions of society, including family, schools, and the economic system? What policies and programs have been developed in the US and other societies to deal with cultural diversities? These and other questions will be the basis for our reading and discussions.

2. Make the following curricular changes to the **American Indian Studies Minor**:

<del>AIST 401</del>	<del>Contemporary American Indian Issues</del>	<del>3-cr</del>
<del>AIST 314</del>	<del>Tribal Sovereignty and Federal Policy</del>	<del>3 cr</del>
<del>AIST 344</del>	<del>Tribal Epistemologies</del>	<del>3 cr</del>
AIST 422/ ANTH 422/ RELS 422	Plateau Indians	3 cr
<del>ENGL 484/ AIST 484</del>	<del>American Indian Literature</del>	<del>3-cr</del>
<b>One of the following (3 cr):</b>		
<del>AIST 426/ HIST 426</del>	<del>Red Earth White Lies: American Indian History 1840-Present</del>	<del>3-cr</del>
<del>AIST 431/ HIST 431</del>	<del>Stolen Continents, The Indian Story: Indian History to 1840</del>	<del>3-cr</del>

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### Elective courses selected from the following (69 cr):

AIST 320	<del>The Celluloid Indian: American Indians in Popular Film</del> <u>Native Film</u>	3 cr
AIST 404	Special Topics	1-16 cr
AIST 411/ ARCH 411	Native American Architecture	3 cr
AIST 420/ LAW 949	Native American Law	3 cr
AIST 421/ LAW 979	Native American Natural Resource Law	3 cr
AIST 426/ HIST 426	Red Earth White Lies: American Indian History 1840-Present	3 cr
AIST 431/ HIST 431	Stolen Continents, The Indian Story: Indian History to 1840	3 cr
AIST 478/ LAW 928	Tribal Nation Economics and Law	3 cr
AIST 498	Internship	1-16 cr
AIST 499	Directed Study	1-16 cr
ANTH 329	North American Indians	3 cr
ANTH 436	North American Prehistory	3 cr
ANTH 443	Plateau Prehistory	3 cr
<u>ENGL 484</u>	<u>American Indian Literature</u>	<u>3 cr</u>
NEZP 101	Elementary Nez Perce I	4 cr
NEZP 102	Elementary Nez Perce II	4 cr
SOC 427/ ANTH 427	Racial and Ethnic Relations	3 cr
<u>AIST 420 / LAW 949</u>	<u>Native American Law</u>	<u>3 cr</u>
<u>AIST 478 / LAW 979</u>	<u>Native American Natural Resources Law</u>	<u>3 cr</u>

### Courses to total 18 credits for this minor

#### HISTORY

1. Add the following courses:

#### **HIST 211 Food through the Ages (3 cr)**

The comparative survey and analysis of how the choice, preparation and eating of food not only shaped and formed cultures but also defined civilizations, from hunting and gathering to the present.

#### **HIST 212 Sex and Gender through the Ages (3 cr)**

Comparative analysis of sex and gender in global historical setting. Focus upon changing sexual/gender behavior both inside and outside of marriage; shifts in sexual mentalities and moral values; and the efforts to regulate, repress, or encourage forms of sexual behavior and attitudes.

#### **HIST 213 Race and Ethnicity through the Ages (3 cr)**

Comparative survey of race and ethnicity across region, culture, and time; factors that create social cohesion and/or conflict; political, sociocultural, and economic dimensions of racial and ethnic relations; the making of identity and cultural mentalities in international/global settings.

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### **HIST 214 Warfare through the Ages (3 cr)**

Comparative survey of war and military history from ancient times to present; emphasis on interrelationship of war, society, and technology; impact of war and violence upon human culture, environment, and everyday life.

### **HIST 318 Colonial America: A Collision of Peoples (3 cr)**

Surveys North American history from the era preceding contact through the American Revolution. Emphasizes encounters and conflicts between Europeans and Native Americans, major political and economic developments, cultural and intellectual transformations, and the formation of American societies.

### **HIST 319 19<sup>th</sup>-century America: Expanding America (3 cr)**

Surveys American history in the nineteenth century. Emphasizes contests over national expansion and inclusion, war and reconstruction, and cultural reform and invention.

### **HIST 320 20<sup>th</sup>-century America: The Colossus (3 cr)**

Surveys American history in the twentieth century. Emphasizes growth of the United States as a world military and economic power, rising nationalism, battles for civil rights and reforms, and rise and consequences of popular culture.

### **HIST 453 (s) Studying History in an International Setting (3-6 cr)**

Introduction to studying history in an international setting and history as expeditionary learning. Course covers on-site historical experience, including: museums, archives, libraries, historical monuments, daily life and culture, material culture, language, and cultural awareness and sensibility. Travel is a required part of course experience.

### **HIST 544 (s) Colloquium in Global History (3 cr, max 9)**

Intense reading in the historical literature on topics in global history. Emphasis on changing approaches to historical problems, different schools of historical thought, methodological issues, and implementation in the classroom. Content will vary with instructor.

### **HIST 590 Issues and Methods in History (3 cr)**

This course introduces graduate students to key methodological, theoretical, and disciplinary standards of history; and the significance of comparative and interdisciplinary approaches to understanding historical developments.

2. Change the following courses:

#### **Hist ~~329~~461 Idaho and the Pacific Northwest (3 cr)**

Gen Ed: American Diversity

Political, economic, social development; earliest times to the present.

#### **Hist ~~328~~462 History of the American West (3 cr)**

Gen Ed: American Diversity

Survey of major developments in the American West, from the Great Plains to the Pacific Ocean and beyond, including racial and ethnic diversity, environment, gender, politics, and economics.

3. Drop the following courses:

#### **Hist 321 Pirates of the Caribbean and Beyond (3 cr)**

*Gen Ed: International*

The course will use the study of pirates and privateers to examine two main questions. Firstly, the role of pirates in the construction and collapse of empires from the Roman period to the present day and secondly, the examination of the popular representations of piracy across a similar period.

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## **Hist 411 Colonial North America, 1492-1763 (3 cr)**

*Gen Ed: American Diversity*

## **Hist 415 Expanding America (3 cr)**

*Gen Ed: American Diversity*

Market revolution, territorial expansion, and rising sectionalism, including nineteenth-century wars.

## **Hist 416 Rise of Modern America (3 cr)**

Industrial development, unchecked capitalism, political reform, populism, the progressive era, World War I, and the rise of celebrity culture (sports and Hollywood).

## **Hist 417 America in Crisis (3 cr)**

*Gen Ed: American Diversity*

The Depression, the New Deal, World War II, becoming a world power, the Cold War, and defining freedom and democracy for all.

## **Hist 418 Contemporary America (3 cr)**

*Gen Ed: American Diversity*

1960's the age of great dreams, 1970's disillusionment, Reaganism and a renewed American nationalism, and other topics.

## **Hist J458/J558 Military History (3 cr)**

Survey of military history from ancient times to present; emphasis on interrelationship of war, society, and technology.

## **Hist 558 Military History (3 cr)**

See Hist J458/J558.

## **INTERNATIONAL STUDIES**

1. Make the following changes to the **Major in International Studies (B.A.)**:

Required course work includes the university requirements (see regulation J-3), the general requirements for the B.A. degree, and:

<a href="#"><u>IS 310</u></a>	<a href="#"><u>The United Nations</u></a>	<a href="#"><u>3 cr</u></a>
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<a href="#"><u>IS 410</u></a>	<a href="#"><u>NGOs in the International System</u></a>	<a href="#"><u>3 cr</u></a>
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IS 495	International Studies Senior Seminar	3 cr
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STAT 251	Statistical Methods	3 cr
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### **One of the following groups of courses (4-6 cr):**

Group A:

ECON 201	Principles of Macroeconomics	3 cr
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ECON 202	Principles of Microeconomics	3 cr
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OR

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ECON 272	Foundations of Economic Analysis	4 cr
<a href="#">One of the following (3 cr):</a>		
<del>IS 310</del>	<del>The United Nations</del>	<del>3 cr</del>
<del>POLS 235</del>	<del>Political Research Methods and Approaches</del>	<del>3 cr</del>
<b>One of the following (3 cr):</b>		
GEOG 260	Introduction to Geopolitics	3 cr
POLS 205	Introduction to Comparative Politics	3 cr
POLS 237	Introduction to International Politics	3 cr
<b>Six credits chosen from:</b>		
ANTH 220	Peoples of the World	3 cr
ENGL 485	Global Literatures in English	3 cr - Max 6 cr
ENVS 225	International Environmental Issues Seminar	3 cr
GEOG 200	World Regional Geography	3 cr
IS 195	International Studies Freshman Seminar	3 cr
JAMM 490	Global Media	3 cr
SOC 350	Food, Culture, and Society	3 cr

At least 12 cr from one of the following issue emphases: international relations, international economics and business, global resources and development (see courses below). [This requirement may be waived by completion of a relevant second major with approval from the program director.](#)

At least 12 cr from one of the following regional emphases: Latin America [and the Caribbean](#), Europe, Asia (see courses below)

### Modern Foreign Language Proficiency (0-22 cr)

Demonstrated proficiency in a modern foreign language correlating with the region of emphasis and equivalent to that gained from six semesters of university study. Exceptions include any class taught in English. (0-22 cr)

### International Experience

In addition, international experience in the student's region of emphasis is required for all students in this major. The experience must extend consecutively for at least ~~8~~ [10-12](#) weeks, be qualified for at least 12 credits, and include an academic project or assignment and immersion in the culture of the country. All costs associated with the international experience are the responsibility of the student.

The requirement of international experience will normally be fulfilled by completing a registered credit program such as study abroad, student exchange, student teaching, ~~or~~ [internship, or a Faculty-Staff Led International Trip for 8 weeks minimum](#). In general, credits are registered on the UI campus; course work and field experience are taken abroad.

In some cases, permission may be granted to complete noncredit work experience that places the student abroad for a contracted length of time. Normally this work assignment will be completed during the degree program. In some instances, prior work experience may be accepted based on the following criteria: verification, length, nature, recentness, and relevancy of experience.

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## ISSUE EMPHASIS IN INTERNATIONAL STUDIES

*Recommended courses for completion of requirement (special topic courses may be used when approved by the director).*

### A. International Relations

GEOG 365	Political Geography	3 cr
HIST 430	U.S. Diplomatic History	3 cr
HIST 458	Military History	3 cr
IS 320	Model United Nations	2 cr
IS 321	UN and Related Agencies	1 cr
IS 350	Sports and International Affairs	3 cr
POLS 338	American Foreign Policy	3 cr
POLS 440/ IS 440	International Organizations & International Law	3 cr
POLS 449	World Politics and War	3 cr
POLS 487	Political Violence and Revolution	3 cr
SOC 335	Terrorism, Society and Justice	3 cr

### B. International Economics and Business

AGEC 481	Agricultural Markets in a Global Economy	3 cr
BUS 381	International Finance	3 cr
BUS 482	International Marketing	3 cr
ECON 446	International Economics	3 cr
ECON 447/ AGEC 447/ LAS 447	International Development Economics	3 cr
GEOG 345	Global Economic Geography	3 cr
IS 323	International Monetary and Trade Organizations	3 cr

### C. Global Resources and Development

AGEC 481	Agricultural Markets in a Global Economy	3 cr
ANTH 462/ LAS 462	Human Issues in International Development	3 cr
FCS 411	Global Nutrition	3 cr
FS 436	Principles of Sustainability	3 cr
GEOG 313	Global Climate Change	3 cr
GEOG 350	Geography of Development	3-4 cr - Max 4 cr
GEOG 360	Population Dynamics and Distribution	3-4 cr - Max 4 cr

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GEOG 409	Rural Development	3 cr
IS 322	International Environmental Organizations	3 cr
<del>IS 410</del>	<del>NGOs in the International System</del>	<del>3 cr</del>
NRS 493/ LAS 493	International Land Preservation and Conservation Systems	3 cr
POLS 480	Politics of Development	3 cr
SOC 340	Social Change & Globalization	3 cr

### REGIONAL EMPHASES IN INTERNATIONAL STUDIES

#### A. Latin America and the Caribbean

FLEN 394/ LAS 394	Latin American Literature in Translation	3 cr
HIST 438/ LAS 438	Modern Mexico and the Americas	3 cr
HIST 439/ LAS 439	Modern Latin America	3 cr
HIST 440/ LAS 440	Social Revolution in Latin America	3 cr
SPAN 306	Culture and Institutions of Latin America	3 cr
SPAN 402	Readings: Spanish American Literature	3 cr
SPAN 413	Spanish American Short Fiction	3 cr
<b>B. Europe</b>		
ENGL 342	Survey of British Literature	3 cr
FLEN 307	The European Union	3 cr
FLEN 308	European Immigration and Integration	3 cr
FLEN 313	French/Francophone Literature in Translation	3 cr
FLEN 324	Topics in German Literature in Translation	3 cr - Max 6 cr
FREN 304	Connecting French Language and Culture	3 cr
FREN 407	French & Francophone Literatures	3 cr - Max 9 cr
FREN 408	French and Francophone Culture and Institutions	3 cr - Max 9 cr
GERM 420	Topics in German Culture & Literature - Themes	3 cr - Max 6 cr
HIST 350	The Age of Enlightenment: European Culture & Ideas, 1680-1800	3 cr
HIST 366	Modern European Cultural and Intellectual History, 1880-1980	3 cr
HIST 447/ RELS 447	The Renaissance	3 cr
HIST 452	Europe in the Age of the Revolution, 1770-1880	3 cr
HIST 455	Modern Europe	3 cr

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HIST 466	Eastern Europe Since 1774	3 cr
HIST 467	Russia to 1894	3 cr
HIST 468	Russia and Soviet Union Since 1894	3 cr
POLS 381	European Politics	3 cr
SPAN 305	Culture and Institutions of Spain	3 cr
SPAN 401	Readings: Spanish Literature	3 cr
<b>C. Asia/Africa</b>		
FLEN 331	Japanese Anime	3 cr
HIST 331	The Age of African Empires	3 cr
HIST 457	History of the Middle East	3 cr
HIST 481	America's Wars in Asia	3 cr
HIST 482	Japan, 1600 to Present	3 cr
HIST 484	Modern China, 1840s to Present	3 cr
HIST 485	Chinese Social and Cultural History	3 cr
IS 325	The Contemporary Muslim World	3 cr
IS 326	Africa Today	3 cr
PHIL 307/ RELS 307	Buddhism	3 cr
POLS 420	Introduction to Asian Politics	3 cr

### **Courses to total 120 credits for this degree**

Other courses with an international component may be used as electives with permission of the [school program](#) director.

## **JOURNALISM AND MASS MEDIA**

1. Add the following courses:

### **JAMM 267 Introduction to Media Design (3 cr)**

Foundational principles and theories of visual communication; use of graphics to communicate information and support persuasive appeals; hands-on learning using industry standard graphic applications.

**Prereq:** JAMM 100, JAMM 121, and JAMM 122 with grades of 'C' or better

### **JAMM 326 Design for the Media (3 cr)**

Principles and applications of design tailored to the media professions. Students learn design principles, software programs and critical thinking applicable to the creation of visual content intended for targeted audiences. (Advertising majors should take the required courses JAMM 267 and JAMM 468 instead of JAMM 326, and will not receive additional JAMM elective credit for JAMM 326 if JAMM 267 and JAMM 468 are counting toward their degree.)

**Prereq:** JAMM 100, JAMM 121, and JAMM 122 with grades of "C" or better

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## JAMM 367 Social Media Management and Analytics (3 cr)

How to analyze and understand the metric effect social media has on consumer behavior, campaign effectiveness and the return on investment (ROI) of social media in a media plan.

**Prereq:** JAMM 100, JAMM 121, and JAMM 122 with grades of 'C' or better, and JAMM 265

2. Change the following courses:

## JAMM 122 Multimedia Storytelling (1 cr)

Basic principles of photographic and video/audio storytelling techniques emphasizing practical application for mass media. Students in JAMM 121 must also register for JAMM 122 the same semester.

**Prereq:** Engl 102 and JAMM 100 with grades of "C" or better

**Coreq:** [JAMM 121](#)

## JAMM 252 Introduction to ~~Public Relations~~ **Integrated Media Campaigns (3 cr)**

Overview of issues and methods used by public relations ~~and advertising practitioners, including strategies, practices and basic products produced. Multiple writing assignments address basic skills needed for successful PR activities.~~ **Requires that participants engage with their peers to discuss readings, theoretical perspectives, obstacles, history, and current events in integrated marketing communication.**

**Prereq:** JAMM 100 and JAMM 121 ~~and JAMM 122~~ with grades of 'C' or better

## JAMM 466 ~~Advertising Campaign Strategy~~ **Media Campaign Strategy (3 cr)**

Advanced ~~advertising~~ strategies in creative approaches and media usage ~~for Public Relations and Advertising; current ad campaigns and~~ **focuses on the** development of a complete ~~advertising~~ campaign for a client.

**Prereq:** ~~JAMM 100 with a grade of 'C' or better and JAMM 121 with a grade of 'C' or better; and JAMM 265, JAMM 361 and JAMM 364~~ **JAMM 350 or JAMM 364**

## JAMM 468 ~~The Advertising Agency~~ **Advanced Media Design (3 cr)**

~~Functioning of an advertising agency, including management, accounting, creative and media buying systems, government regulation, account management, and creative strategies in the marketplace. Field trips.~~

~~Recommended Preparation: Jamm 466.~~ **Advanced principles and theories of visual communication across multiple channels; working in creative teams; presenting original concepts, copywriting, design and layout; emphasis on finished portfolios.**

**Prereq:** ~~JAMM 100 with a grade of 'C' or better and JAMM 121 with a grade of 'C' or better~~ **JAMM 265**

3. Make the following curricular changes to the **Major in Public Relations** (B.A. or B.S.):

Required course work includes the university requirements (see regulation J-3), the School of Journalism and Mass Media core, and the following:

JAMM 225	Reporting I	3 cr
JAMM 252	Introduction to Public Relations	3 cr
JAMM 350	Public Relations Writing and Production	3 cr
<del>JAMM 452</del>	<del>Public Relations Campaign Design</del>	<del>3 cr</del>
JAMM 458	Public Relations Research and Case Studies	3 cr
<u>JAMM 466</u>	<u>Media Campaigns</u>	<u>3 cr</u>

**Courses to total 120 credits for this degree**

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## MODERN LANGUAGES AND CULTURES

1. Change the following course:

### **FLEN 307 Institutions of the European Union (3 cr)**

*Gen Ed: Social Science, International*

Same as PoIS 307. A cross-cultural examination of the European Union, its history, evolution, and current functioning; social, cultural, and political differences among union partners; economic structure and demographics; business culture.

### **Germ 302 Advanced German Speaking and Writing (3 cr)**

*Gen Ed: International*

Emphasis on developing proficiency in speaking and writing; discussion on topics of cultural interest.

~~Recommended Preparation: Germ 202.~~

Prereq: Germ 202

### **Germ 304 20th Century German Culture and Society (3 cr)**

German society, political culture, and the arts in the 20th century. ~~Recommended Preparation: Germ 202.~~

Prereq: Germ 202

### **Germ 305 Germany in the New Europe (3 cr)**

Contemporary social and political institutions in German-speaking Europe; reading and discussion on topics of current interest in Germany and the European Union. ~~Recommended Preparation: Germ 202.~~

Prereq: Germ 202

### **Germ 420 (s) Topics in German Culture and Literature - Themes (3 cr, max 6)**

*Gen Ed: International*

For advanced students; important themes in German cultural/literary studies. ~~Recommended Preparation: Germ 301 or Germ 302.~~ Cooperative: open to WSU degree-seeking students. (Spring Alt/ yrs)

Prereq: Germ 301 or Germ 302

### **Germ 440 German Media through the Internet (3 cr)**

*Gen Ed: International*

For advanced Students. Reading and discussion from contemporary media in the German-language Internet; focus on topics of current cultural interest. ~~Recommended Preparation: Germ 301 or Germ 302.~~

Prereq: Germ 301 or Germ 302

2. Make the following curricular changes to the **Minor in Asian Studies**:

~~Two semesters of Asian Language~~ 12 credits of one Asian language or one semester of Approved Study Abroad in Asia. Courses from the following list; no more than 9 credits in one discipline and no more than 6 credits in student's major. Of the 21 credits, nine (9) credits of upper division coursework required. Students must complete 6 of these 9 credits of upper-division coursework at the University of Idaho to complete the Asian Studies minor.

ANTH 220	Peoples of the World	3 cr
ANTH 261	Language and Culture	3 cr
COMM 335	Intercultural Communication	3 cr
<u>FLEN 325</u>	<u>Contemporary Chinese Culture and Customs</u>	<u>3 cr</u>
<u>FLEN 326</u>	<u>Chinese Cinema in Translation</u>	<u>3 cr</u>
<u>FLEN 331</u>	<u>Japanese Anime</u>	<u>3 cr</u>
GEOG 200	World Regional Geography	3 cr

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HIST 180	Introduction to East Asian History	3 cr
HIST 481	America's Wars in Asia	3 cr
HIST 482	Japan, 1600 to Present	3 cr
HIST 484	Modern China, 1840s to Present	3 cr
HIST 485	Chinese Social and Cultural History	3 cr
IS 325	The Contemporary Muslim World	3 cr
PHIL 307/ RELS 307	Buddhism	3 cr
POLS 205	Introduction to Comparative Politics	3 cr
POLS 237	Introduction to International Politics	3 cr
POLS 420	Introduction to Asian Politics	3 cr

### Courses to total 21 credits for this minor

3. Make the following curricular changes to the **Major in Modern Language Business (B.A.)**:

Required course work includes the university requirements (see regulation J-3), the general requirements for the B.A. degree, and:

~~In addition to the course work specified for this major, an international experience is required. This requirement will normally be fulfilled by completing a program of studies abroad which takes place after the student has finished language study through the intermediate (200) level. The specific program must receive prior approval from the student's MLC advisor and must be one that lasts a minimum of 12-15 weeks. The classes taken must earn a minimum of 12 upper-division (300/400 level) academic credits and be in subjects pertinent to the student's language option. Such credits may be obtained by two consecutive summer programs.~~ An international experience (eight week minimum). This international experience requirement will be fulfilled by completing an MLC approved study abroad program or international internship or faculty-led experience or a combination of all. This experience should take place after the student has finished language study through the intermediate (200) level. The study abroad program or the internship must receive prior approval from the student's MLC advisor and/or MLC Validation Committee appointed by MLC chair. Shorter international experiences exceptions can be considered by MLC Validation Committee in case of extraordinary financial or family circumstances.

ACCT 201	Introduction to Financial Accounting	3 cr
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### One of the following (3-4 cr):

<del>ECON 201</del>	<del>Principles of Macroeconomics</del>	<del>3 cr</del>
ECON 202	Principles of Microeconomics	3 cr
ECON 272	Foundations of Economic Analysis	4 cr

### One of the following (3 cr):

FLEN 307	The European Union	3 cr
FLEN 308	European Immigration and Integration	3 cr

~~One of the following group of courses (15-18 cr):~~

~~Group A:~~

<del>BUS 301</del>	<del>Financial Resources Management</del>	<del>3 cr</del>
<del>BUS 311</del>	<del>Introduction to Management</del>	<del>3 cr</del>
<del>BUS 321</del>	<del>Marketing</del>	<del>3 cr</del>

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<del>BUS</del>	<del>Six Credits Taken From BUS 101 or any other 300-400 level BUS Prefix Course</del>	<del>6 cr</del>
<del>or</del>		
<del>Group B:</del>		
<del>BUS 310</del>	<del>Leading Organizations and People</del>	<del>3 cr</del>
<del>BUS 301</del>	<del>Financial Resources Management</del>	<del>3 cr</del>
<del>BUS 321</del>	<del>Marketing</del>	<del>3 cr</del>
<del>BUS 350</del>	<del>Managing Information</del>	<del>3 cr</del>
<del>BUS 370</del>	<del>Process Management</del>	<del>3 cr</del>
<del>BUS 390</del>	<del>Integrated Topics in Business</del>	<del>3 cr Max 6 cr</del>

### **Three or more of the following:**

<u>BUS 301</u>	<u>Financial Resources Management</u>	<u>3 cr</u>
<u>BUS 311</u>	<u>Introduction to Management</u>	<u>3 cr</u>
<u>BUS 321</u>	<u>Marketing</u>	<u>3 cr</u>
<u>BUS 350</u>	<u>Managing Information</u>	<u>3 cr</u>
<u>BUS 370</u>	<u>Process Management</u>	<u>3 cr</u>
<u>BUS 378</u>	<u>Project Management</u>	<u>3 cr</u>
<u>BUS 414</u>	<u>Entrepreneurship</u>	<u>3 cr</u>

### **Business Electives (6 cr):**

<u>BUS</u>	<u>Upper Division Business Electies</u>	<u>6 cr</u>
	<u>OR</u>	
<u>BUS 190</u>	<u>Integrated Business and Value Creation</u>	<u>3 cr</u>
	<u>AND</u>	
<u>BUS</u>	<u>Upper-Division Business Elective</u>	<u>3 cr</u>

### **Language Requirements:**

One modern language (Chinese, French, German, Japanese, or Spanish), elementary and intermediate (16 cr)

Approved upper-division courses in the same language (including one business course or approved alternative in the target language) (21 cr)

**Courses to total 120 credits for this degree**

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## MUSIC

1. Change the following course:

**MusA 314 (s) Studio Instruction (1 cr, max arr)**

See MusA 114 for description.

**Prereq:** [MusA 124 or 134 on the same instrument or](#) Permission

## POLITICAL SCIENCE

1. Add and cross-list the following course:

**POLS 307 Institutions of the European Union (3 cr)**

*Gen Ed: Social Science, International*

See Flen 307.

2. Change the following course:

**PolS 560 ~~Seminar in Public Administration Professional Practice Practicum (1 cr, max 3 cr)~~**

This course provides students with practical information and skills that are needed to support careers in local government administration. Topics will include professionalism, computer skills, resume writing, interview and presentation skills. ~~Students may retake the course three times.~~

## SOCIOLOGY AND ANTHROPOLOGY

1. Add the following courses:

**Soc 329 Homicide (3 cr)**

This course provides an analysis of the dynamics and processes associated with various types of homicides, as well as the theoretical explanations of homicide. Topics may include familial homicide, serial homicide, homicide associated with cults, and gang-related homicide, among others. Issues related to criminal justice processing of offenders are also discussed.

**Prereq:** Soc 101

**Soc 421 Gender and Crime (3 cr)**

This course uses sociological and criminological theories to explore the relationship between gender and crime. Topics explore adult and juvenile females and their entry into the criminal justice system as victims and offenders. The course examines the challenges faced by females working in criminal justice (policing, courts, and corrections). Gender is also discussed by considering issues faced by the LGBT community in terms of how particular behaviors are criminalized, how LGBT individuals are treated within and by the criminal justice system.

**Prereq:** Soc 101

2. Change the following courses:

**Anth J417/J517 Social Data Analysis (3 cr)**

Anth 417 same as Soc 417. This course introduces students to social science research methods that collect quantitative data. It will discuss research design and ethics, data collection processes, and data analysis. Additional work required for graduate credit.

**Prereq:** [Stat 251 and](#) Soc 101

**Anth J462/J562 Human Issues in International Development (3 cr)**

*Gen Ed: Social Science, International*

Anth 462 same as LAS 462. ~~Interdisciplinary analysis of complex interaction between tradition and modernity in Third World society, and its attendant human predicament.~~ [Course content includes the historical and](#)

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political contexts that shape development, development theories and approaches, along with the global challenges of poverty, social inequalities, and environment. Culture as an important consideration in development is emphasized. Additional projects/assignments reqd for grad cr. (Alt/ yrs)

### 3. Make the following curricular changes to the **Major in Sociology** (B.A. or B.S.):

Required course work includes the university requirements (see regulation J-3), the general requirements for either the B.A. or B.S. degree and the following courses (electives must be approved by the student's advisor):

ANTH 100	Introduction to Anthropology	3 cr
SOC 101	Introduction to Sociology	3 cr

#### **Two of the following (6 cr):**

SOC 416	Qualitative Social Science Methods	3 cr
SOC 417	Social Data Analysis	3 cr
STAT 251	Statistical Methods	3 cr

#### **Related fields (12 cr)**

(E.g. Anthropology, Economics, Environmental Science, Geography, History, Political Science, Psychology, Statistics, and Women's and Gender Studies)

Related field as approved by the department	12 cr
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*Must be approved by student's advisor*

#### **One of the following (3 cr):**

<u>SOC 421</u>	<u>Gender and Crime</u>	<u>3 cr</u>
SOC 423	Sociology of Prosperity: Social Class and Economics in the 21st Century	3 cr
SOC 424	Sociology of Gender	3 cr
SOC 427/ ANTH 427	Racial and Ethnic Relations	3 cr
SOC 439	Inequalities in the Justice System	3 cr

#### **Select one of the following emphases:**

##### **A. Criminology**

<u>SOC 130</u>	<u>Introduction to Criminology</u>	<u>3 cr</u>
<u>SOC 260</u>	<u>Intro to Deviance and Crime</u>	<u>3 cr</u>
<u>SOC 329</u>	<u>Homicide</u>	<u>3 cr</u>
SOC 331	Criminology Theory	3 cr

#### **One of the following (3 cr):**

SOC 460	Capstone: Sociology in Action	3 cr
SOC 461	Capstone: Justice Policy Issues	3 cr
SOC 462	Senior Practicum	3 cr
SOC 464	Criminology Abroad	3 cr

#### **Selected upper-division emphasis electives (15 cr):**

SOC 315	Community Service Learning	1-4 cr
SOC 325	Family, Violence, and Society	3 cr
<u>SOC 328</u>	<u>Deviant Behavior</u>	<u>3 cr</u>
SOC 330	Juvenile Delinquency	3 cr
SOC 332	Sociology of Punishment	3 cr
SOC 333	Elite and White Collar Crime	3 cr

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SOC 334	Police and Social Control	3 cr
SOC 335	Terrorism, Society and Justice	3 cr
SOC 336	Comparative Criminal Justice Systems	3 cr
SOC 337	Violence and Society	3 cr
SOC 338	Regulation of Vice	3 cr
SOC 339	Crime and the Media	3 cr
SOC 344	Urban Sociology	3 cr
SOC 345	Extremism and American Society	3 cr
SOC 346	Responding to Risk	3 cr
SOC 403	Workshop	1-16 cr
SOC 404	Special Topics	1-16 cr
SOC 420	Sociology of Law	3 cr
<u>SOC 421</u>	<u>Gender and Crime</u>	<u>3 cr</u>
<u>SOC 426</u>	<u>Sociology of Sports</u>	<u>3 cr</u>
SOC 439	Inequalities in the Justice System	3 cr
SOC 450	Dynamics of Social Protest	3 cr
SOC 465	Environment, Policy, and Justice	3 cr
SOC 498	Internship	1-6 cr
SOC 499	Directed Study	1-16 cr

**\*\*Note:** No more than A maximum of 6 credits may be earned in SOC 315, 6 credits in SOC 498, and 6 credits in SOC 499, respectively may be counted toward this major.

**Courses to total 120 credits for this degree**

### B. Inequalities and Globalization

ANTH 301/ SOC 301	Introduction to Diversity and Stratification	3 cr
SOC 311	Development of Social Theory	3 cr
<b>One of the following (3 cr):</b>		
SOC 460	Capstone: Sociology in Action	3 cr
SOC 462	Senior Practicum	3 cr
SOC 464	Criminology Abroad	3 cr
<b>Selected upper-division emphasis electives (15 cr):</b>		
ANTH 418	Anthropology of Tourism	3 cr
ANTH 462/ LAS 462	Human Issues in International Development	3 cr
SOC 313	Collective Behavior	3 cr
SOC 315	Community Service Learning	1-4 cr
SOC 325	Family, Violence, and Society	3 cr
SOC 327	Sociology of the Family	3 cr
SOC 335	Terrorism, Society and Justice	3 cr
SOC 336	Comparative Criminal Justice Systems	3 cr
SOC 340	Social Change & Globalization	3 cr
SOC 341	Science, Technology, and Society	3 cr
SOC 343	Power, Politics, and Society	3 cr
SOC 345	Extremism and American Society	3 cr
SOC 346	Responding to Risk	3 cr
SOC 350	Food, Culture, and Society	3 cr
SOC 403	Workshop	1-16 cr
SOC 404	Special Topics	1-16 cr
<u>SOC 421</u>	<u>Gender and Crime</u>	<u>3 cr</u>
SOC 423	Sociology of Prosperity: Social Class and Economics in the 21st Century	3 cr

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SOC 424	Sociology of Gender	3 cr
SOC 427/ ANTH 427	Racial and Ethnic Relations	3 cr
SOC 431	Personal and Social Issues in Aging	3 cr
SOC 439	Inequalities in the Justice System	3 cr
SOC 450	Dynamics of Social Protest	3 cr
SOC 465	Environment, Policy, and Justice	3 cr
SOC 498	Internship	1-6 cr

**\*\*Note:** ~~No more than a maximum of 6 credits may be earned in SOC 315, 6 credits in SOC 498, and 6 credits in SOC 498, respectively may be counted toward this major.~~

### Courses to total 120 credits for this degree

#### C. General Sociology

SOC 311	Development of Social Theory	3 cr
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#### One of the following (3 cr):

SOC 230	Social Problems	3 cr
SOC 301	Introduction to Diversity and Stratification	3 cr

#### One of the following (3 cr):

SOC 460	Capstone: Sociology in Action	3 cr
SOC 462	Senior Practicum	3 cr
SOC 464	Criminology Abroad	3 cr

#### Selected upper-division emphasis electives (15 cr):

SOC 301	Introduction to Diversity and Stratification	3 cr
SOC 313	Collective Behavior	3 cr
SOC 315	Community Service Learning	1-4 cr
SOC 325	Family, Violence, and Society	3 cr
SOC 327	Sociology of the Family	3 cr
SOC 335	Terrorism, Society and Justice	3 cr
SOC 337	Violence and Society	3 cr
SOC 340	Social Change & Globalization	3 cr
SOC 341	Science, Technology, and Society	3 cr
SOC 343	Power, Politics, and Society	3 cr
SOC 344	Urban Sociology	3 cr
SOC 345	Extremism and American Society	3 cr
SOC 346	Responding to Risk	3 cr
SOC 350	Food, Culture, and Society	3 cr
SOC 403	Workshop	1-16 cr
SOC 404	Special Topics	1-16 cr
<u>SOC 416</u>	<u>Qualitative Social Science Methods</u>	<u>3 cr</u>
<u>SOC 417</u>	<u>Social Data Analysis</u>	<u>3 cr</u>
SOC 423	Sociology of Prosperity: Social Class and Economics in the 21st Century	3 cr
SOC 424	Sociology of Gender	3 cr
SOC 425	Society and Popular Culture	3 cr
SOC 426	Sociology of Sports	3 cr
SOC 427/ ANTH 427	Racial and Ethnic Relations	3 cr
SOC 431	Personal and Social Issues in Aging	3 cr
SOC 439	Inequalities in the Justice System	3 cr
SOC 450	Dynamics of Social Protest	3 cr
SOC 465	Environment, Policy, and Justice	3 cr
SOC 498	Internship	1-6 cr

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SOC 499 Directed Study

1-16 cr

*\*\*Note: ~~No more than A maximum of 6 credits may be earned in SOC 315, 6 credits in SOC 498, and 6 credits in SOC 499 respectively.~~ may be counted toward this major.*

## Courses to total 120 credits for this degree

### 4. Make the following curricular changes to the Justice Studies Minor:

<del>SOC 334</del>	<del>Police and Social Control</del>	<del>3 cr</del>
<u>SOC 130</u>	<u>Introduction to Criminology</u>	<u>3 cr</u>

#### One of the following (3 cr):

<del>SOC 330</del>	<del>Juvenile Delinquency</del>	<del>3 cr</del>
<del>SOC 331</del>	<del>Criminology Theory</del>	<del>3 cr</del>
<u>SOC 332</u>	<u>Sociology of Punishment</u>	<u>3 cr</u>
<u>SOC 334</u>	<u>Police and Social Control</u>	<u>3 cr</u>

#### One of the following (3 cr):

<u>SOC 328</u>	<u>Deviant Behavior (3 cr)</u>	<u>3 cr</u>
<u>SOC 330</u>	<u>Juvenile Delinquency (3 cr)</u>	<u>3 cr</u>

#### One of the following (3 cr):

<u>SOC 420</u>	<u>Sociology of Law (3 cr)</u>	<u>3 cr</u>
<u>AIST 420</u>	<u>Native American Law (3 cr)</u>	<u>3 cr</u>
<u>PHIL 470</u>	<u>Philosophy of Law (3 cr)</u>	<u>3 cr</u>
<u>POLS 467</u>	<u>Constitutional Law (3 cr)</u>	<u>3 cr</u>
<u>POLS 468</u>	<u>Civil Liberties (3 cr)</u>	<u>3 cr</u>
<u>POLS 469</u>	<u>The Judicial Process (3 cr)</u>	<u>3 cr</u>

#### Three or more of the following to total at least 21 cr for the minor (9 cr):

<del>POLS 467</del>	<del>Constitutional Law</del>	<del>3 cr</del>
<del>POLS 468</del>	<del>Civil Liberties</del>	<del>3 cr</del>
<del>POLS 469/</del>	<del>The Judicial Process</del>	<del>3 cr</del>
<del>PHIL 469</del>		
<u>ANTH 451</u>	<u>Forensic Anthropology</u>	<u>3 cr</u>
<u>AGEC 477</u>	<u>Law, Ethics and the Environment</u>	<u>3 cr</u>
<u>PSYC 311</u>	<u>Abnormal Psychology</u>	<u>3 cr</u>
<del>PSYC 320</del>	<del>Introduction to Social Psychology</del>	<del>3 cr</del>
<del>SOC 301</del>	<del>Introduction to Diversity and Stratification</del>	<del>3 cr</del>
<u>SOC 325</u>	<u>Family, Violence, and Society</u>	<u>3 cr</u>
<u>SOC 327</u>	<u>Sociology of the Family</u>	<u>3 cr</u>
<u>SOC 329</u>	<u>Homicide</u>	<u>3 cr</u>
<u>SOC 333</u>	<u>Elite and White Collar Crime</u>	<u>3 cr</u>
<u>SOC 335</u>	<u>Terrorism, Society and Justice</u>	<u>3 cr</u>
<u>SOC 336</u>	<u>Comparative Criminal Justice Systems</u>	<u>3 cr</u>
<u>SOC 337</u>	<u>Violence and Society</u>	<u>3 cr</u>
<u>SOC 338</u>	<u>Regulation of Vice</u>	<u>3 cr</u>

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<u>SOC 339/</u> <u>JAMM 339</u>	<u>Crime and the Media</u>	<u>3 cr</u>
<u>SOC 345</u>	<u>Extremism in American Society</u>	<u>3 cr</u>
<u>SOC 346</u>	<u>Responding to Risk</u>	<u>3 cr</u>
<u>SOC 404</u>	<u>Special Topics</u>	<u>Cr arr</u>
<u>SOC 420</u>	<u>Sociology of Law</u>	<u>3 cr</u>
<u>SOC 421</u>	<u>Gender and Crime</u>	<u>3 cr</u>
<u>SOC 424</u>	<u>Sociology of Gender</u>	<u>3 cr</u>
<u>SOC 427/</u> <u>ANTH 427</u>	<u>Racial and Ethnic Relations</u>	<u>3 cr</u>
<u>SOC 439</u>	<u>Inequalities in the Justice System</u>	<u>3 cr</u>
<u>SOC 464</u>	<u>Criminology Abroad</u>	<u>3 cr</u>
<u>WLF 205</u>	<u>Wildlife Law Enforcement</u>	<u>3 cr</u>
<b>Courses to total 21 credits for this minor</b>		

5. Make the following curricular changes to the **Sociology Minor**:

<u>SOC 101</u>	<u>Introduction to Sociology</u>	<u>3 cr</u>
	<u>Research Methods Course Acceptable to Student's Major Field</u>	<u>3 cr</u>
<u>SOC</u>	<u>One 200-Level Sociology Course</u>	<u>3 cr</u>
<u>SOC</u>	<u>Sociology Electives</u>	<u>12 cr</u>
<u>Sociology Electives: 9 cr must be in Upper Division Courses.</u>		

**One of the following (3 cr):**

<u>Soc 230</u>	<u>Social Problems</u>	<u>(3 cr)</u>
<u>Soc 301</u>	<u>Diversity and Stratification</u>	<u>(3 cr)</u>

**Selected electives (12 cr):**

<u>Soc 301</u>	<u>Introduction to Diversity and Stratification</u>	<u>(3 cr)</u>
<u>Soc 313</u>	<u>Collective Behavior</u>	<u>(3 cr)</u>
<u>Soc 315</u>	<u>Community Service Learning</u>	<u>(3 cr, max 4)**</u>
<u>Soc 325</u>	<u>Family, Violence, and Society</u>	<u>(3 cr)</u>
<u>Soc 327</u>	<u>Sociology of the Family</u>	<u>(3 cr)</u>
<u>Soc 335</u>	<u>Terrorism, Society and Justice</u>	<u>(3 cr)</u>
<u>Soc 337</u>	<u>Violence and Society</u>	<u>(3 cr)</u>
<u>Soc 340</u>	<u>Social Change &amp; Globalization</u>	<u>(3 cr)</u>
<u>Soc 341</u>	<u>Science, Technology, and Society</u>	<u>(3 cr)</u>
<u>Soc 343</u>	<u>Power, Politics, and Society</u>	<u>(3 cr)</u>
<u>Soc 344</u>	<u>Urban Sociology</u>	<u>(3 cr)</u>
<u>Soc 345</u>	<u>Extremism in American Society</u>	<u>(3 cr)</u>
<u>Soc 346</u>	<u>Responding to Risk</u>	<u>(3 cr)</u>
<u>Soc 350</u>	<u>Food, Culture, and Society</u>	<u>(3 cr)</u>
<u>Soc 403</u>	<u>Workshop</u>	<u>(cr arr)</u>
<u>Soc 404</u>	<u>Special Topics</u>	<u>(cr arr)</u>
<u>Soc 415</u>	<u>Citizen's Police Academy</u>	<u>(3 cr)</u>
<u>Soc 416</u>	<u>Qualitative Social Science Methods</u>	<u>(3 cr)</u>
<u>Soc 417</u>	<u>Social Data Analysis</u>	<u>(3 cr)</u>
<u>Soc 423</u>	<u>Social Class and Economics in the 21st Century</u>	<u>(3 cr)</u>
<u>Soc 424</u>	<u>Sociology of Gender</u>	<u>(3 cr)</u>
<u>Soc 425</u>	<u>Society and Pop Culture</u>	<u>(3 cr)</u>
<u>Soc 426</u>	<u>Sociology of Sports</u>	<u>(3 cr)</u>

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<a href="#">Soc 427</a>	<a href="#">Racial and Ethnic Relations</a>	<a href="#">(3 cr)</a>
<a href="#">Soc 431</a>	<a href="#">Personal and Social Issues in Aging</a>	<a href="#">(3 cr)</a>
<a href="#">Soc 439</a>	<a href="#">Inequalities in the Justice System</a>	<a href="#">(3 cr)</a>
<a href="#">Soc 450</a>	<a href="#">Dynamics of Social Protest</a>	<a href="#">(3 cr)</a>
<a href="#">Soc 465</a>	<a href="#">Environment, Policy, and Justice</a>	<a href="#">(3 cr)</a>
<a href="#">Soc 498</a>	<a href="#">Internship</a>	<a href="#">(1-6 cr, max arr)**</a>
<a href="#">Soc 499</a>	<a href="#">Directed Study</a>	<a href="#">(cr arr)**</a>

## Courses to total ~~20~~21 credits for this minor

\*\*Note: No more than 6 credits in Soc 498, and 6 credits in Soc 499 may be counted toward this minor.

6. Make the following curricular changes to the **Diversity and Stratification Undergraduate Certificate**:

### Academic Exploration Component (~~6~~9 cr):

SOC 301	Introduction to Diversity and Stratification	3 cr
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### Focus Course Electives (~~3~~6 cr): Selected upper-division emphasis electives (6 cr):

<a href="#">AMST 301</a>	<a href="#">Studies in American Cultures</a>	<a href="#">3 cr</a>
ANTH 220	Peoples of the World	3 cr
<a href="#">ANTH 327</a>	<a href="#">Belief Systems</a>	<a href="#">3 cr</a>
ANTH 329	North American Indians	3 cr
<a href="#">ANTH 412</a>	<a href="#">Human Races</a>	<a href="#">3 cr</a>
<a href="#">ANTH 422</a>	<a href="#">Plateau Indians</a>	<a href="#">3 cr</a>
ANTH 462/ LAS 462	Human Issues in International Development	3 cr
COMM 335	Intercultural Communication	3 cr
COMM 410	Conflict Management	3 cr
COMM 432	Gender and Communication	3 cr
COMM 491	Communication and Aging	3 cr
<a href="#">EDCI 302</a>	<a href="#">Teaching Culturally Diverse Learners</a>	<a href="#">4 cr</a>
<a href="#">ENGL 380</a>	<a href="#">Introduction to U.S. Ethnic Literature</a>	<a href="#">3 cr</a>
<a href="#">ENGL 481</a>	<a href="#">Women's Literature</a>	<a href="#">3 cr</a>
<a href="#">ENGL 483</a>	<a href="#">African American Literatures</a>	<a href="#">3 cr</a>
<a href="#">ENGL 484</a>	<a href="#">American Indian Literature</a>	<a href="#">3 cr</a>
<a href="#">FCS 410</a>	<a href="#">Growing Old in a New Age</a>	<a href="#">3 cr</a>
<a href="#">HIST 315</a>	<a href="#">Comparative African American Cultures</a>	<a href="#">3 cr</a>
<a href="#">HIST 420</a>	<a href="#">History of Women in American Society</a>	<a href="#">3 cr</a>
<a href="#">HIST 426</a>	<a href="#">Red Earth White Lies: American Indian History 1840-Present</a>	<a href="#">3 cr</a>
<a href="#">HIST 431</a>	<a href="#">Stolen Continents, the Indian Story: Indian History to 1840</a>	<a href="#">3 cr</a>
<a href="#">HIST 441</a>	<a href="#">Slavery and Freedom in the Americas</a>	<a href="#">3 cr</a>
JAMM 340	Cultural Diversity and the Media	3 cr
JAMM 490	Global Media	3 cr
<a href="#">MUSH 201</a>	<a href="#">History of Rock and Roll</a>	<a href="#">3 cr</a>
<a href="#">MUSH 410</a>	<a href="#">Studies in Jazz History</a>	<a href="#">3 cr</a>
<a href="#">POLS 423</a>	<a href="#">Politics, Policy, and Gender</a>	<a href="#">3 cr</a>
PSYC 315	Psychology of Women	3 cr
<a href="#">PSYC 330</a>	<a href="#">Human Sexuality</a>	<a href="#">3 cr</a>
<a href="#">PSYC 419</a>	<a href="#">Adult Development and Aging</a>	<a href="#">3 cr</a>
<a href="#">SOC 325</a>	<a href="#">Family, Violence and Society</a>	<a href="#">3 cr</a>
<a href="#">SOC 327</a>	<a href="#">Sociology of the Family</a>	<a href="#">3 cr</a>

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<a href="#">SOC 340</a>	<a href="#">Social Change and Globalization</a>	<a href="#">3 cr</a>
<a href="#">SOC 343</a>	<a href="#">Power, Politics, and Society</a>	<a href="#">3 cr</a>
<a href="#">SOC 350</a>	<a href="#">Food, Culture, and Society</a>	<a href="#">3 cr</a>
<a href="#">SOC 421</a>	<a href="#">Gender and Crime</a>	<a href="#">3 cr</a>
SOC 423	Sociology of Prosperity: Social Class and Economics in the 21st Century	3 cr
SOC 424	Sociology of Gender	3 cr
SOC 427/ ANTH 427	Racial and Ethnic Relations	3 cr
<a href="#">SOC 431</a>	<a href="#">Personal and Social Issues in Aging</a>	<a href="#">3 cr</a>
SOC 439	Inequalities in the Justice System	3 cr
<a href="#">WMST 367</a>	<a href="#">Topics in Women's Studies</a>	<a href="#">3 cr</a>
<a href="#">WMST 410</a>	<a href="#">Feminist Theory and Action</a>	<a href="#">3 cr</a>

### Application Component Electives

(3 cr, no more than 6 cr can apply to this certificate):

ANTH 203	Workshop	1-16 cr
ANTH 403	Workshop	1-16 cr
SOC 203	Workshop	1-16 cr
SOC 403	Workshop	1-16 cr
	Experiential Learning	0-3 cr

**Courses to total 12 credits for this certificate**

### THEATRE ARTS

1. Add and joint-list the following courses:

#### **The 564 Scenographic Techniques (3 cr)**

See The J464/J564.

#### **The 565 Advanced Scene Design (3 cr)**

See The J465/J565.

#### **The 566 Scene Painting (3 cr)**

See The J466/J566.

## COLLEGE OF NATURAL RESOURCES

### ENVIRONMENTAL SCIENCE

1. Make the following curricular changes to the **Environmental Science Major** (M.S., non thesis):

Each student will design a study plan in consultation with an advisor. The study plan is subject to approval by the director and the Graduate College.

There are five requirements for the M.S. degree in environmental science: (1) Depth requirement: the graduate program is structured around three option areas, biological science, physical science, or social science. A student must complete a minimum of 12 credits (thesis degree) or 15 credits (non-thesis degree) in one of the three option areas; (2) Breadth requirement: A student must complete a minimum of 3 credits at the MS level in each of the other two option areas; (3) A student must complete one course (3 cr) in appropriate research methods or statistics at the 500 level; (4) ~~Three seminar credits, including at least 1 credit in ENVS 501; ENVS 501 (2 cr)~~ (5) ENVS 500 (6 cr., thesis degree) or ENVS 599 (~~3~~4 cr., non-thesis degree). These requirements may be augmented to compensate for undergraduate deficiencies.

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## FISH AND WILDLIFE SCIENCES

1. Add the following course:

### **Fish 495 Introduction to Aquatic Restoration (1 cr)**

Fundamental theoretical and practical concepts in aquatic restoration spanning from in-water to the top of the watershed. Major topics include water quality, sources of pollution, restoration techniques (in-water and terrestrial) to restore aquatic ecosystems, and the role of using an adaptive systems approach. Lecture material are delivered online, while a 1-2 day face-to-face hands-on practicum will be based out of UI's Lakes Social Ecological Systems (LaSES) lab at the Harbor Center in Coeur D'Alene or UI's McCall Outdoor Science School (MOSS) in McCall.

**Prereq:** For 221/REM 221/WLF 220

2. Add and cross-list the following course:

### **WLF 220 Principles of Ecology (3 cr)**

See REM 221.

3. Make the following curricular changes to the **Aquaculture Minor**:

BIOL 250	General Microbiology	3 cr
BIOL 255	General Microbiology Lab	2 cr
FISH 422	Concepts in Aquaculture	4 cr
FISH 424	Fish Health Management	4 cr
FISH 481	Ichthyology	4 cr

### ~~Three~~**Two** of the following courses:

ASM 107	Beginning Welding	2 cr
AVS 305	Animal Nutrition	3 cr
BUS 321	Marketing	3 cr
BUS 414	Entrepreneurship	3 cr
FISH 498	Internship	1-16 cr

### **Courses to total 20 credits for this minor**

4. Make the following curricular changes to the **Major in Fishery Resources (B.S.F.R.)**:

### **First and Second Years**

BIOL 114	Organisms and Environments	4 cr
BIOL 115	Cells & the Evolution of Life	3 cr
BIOL 115L	Cells and the Evolution of Life Laboratory	1 cr
BIOL 213	Principles of Biological Structure and Function	4 cr
COMM 101	Fundamntls Public Speaking	2 cr
ECON 202	Principles of Microeconomics	3 cr
FISH 102/ WLF 102	The Fish and Wildlife Professions	1 cr
FISH 202	Fish & Wildlife Applications II	1 cr
FOR 235/ NRS 235	Society and Natural Resources	3 cr
FOR 375	Introduction to Spatial Analysis for Natural Resource Management	3 cr
<del>GEOL 101</del>	<del>Physical Geology</del>	<del>3 cr</del>
<del>GEOL 101L</del>	<del>Physical Geology Lab</del>	<del>1 cr</del>
NR 101	Exploring Natural Resources	2 cr

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STAT 251	Statistical Methods	3 cr
WLF 201	Fish and Wildlife Applications I	1 cr

**One of the following (4 cr):**

CHEM 101	Introduction to Chemistry I	4 cr
CHEM 111	Principles of Chemistry I	4 cr

**One of the following (3 cr):**

CHEM 275	Carbon Compounds	3 cr
CHEM 277	Organic Chemistry I	3 cr

**One of the following (3 cr):**

FOR 221/ REM 221	Ecology	3 cr
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**One of the following (4 cr):**

MATH 160	Survey of Calculus	4 cr
MATH 170	Analytic Geometry and Calculus I	4 cr

**One of the following (4 cr):**

GEOG 100	Physical Geography	3 cr
	AND	
GEOG 100L	Physical Geography Lab	1 cr
<a href="#">GEOL 101</a>	<a href="#">Physical Geology</a>	<a href="#">3 cr</a>
	AND	
<a href="#">GEOL 101L</a>	<a href="#">Physical Geology Lab</a>	<a href="#">1 cr</a>

PHYS 100	Fundamentals of Physics	3 cr
	AND	

PHYS 100L	Fundamentals of Physics Lab	1 cr
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PHYS 111	General Physics I	3 cr
	AND	

PHYS 111L	General Physics I Lab	1 cr
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**Third and Fourth Years**

BIOL 250	General Microbiology	3 cr
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BIOL 255	General Microbiology Lab	2 cr
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NRS 383	Natural Resource and Ecosystem Service Economics	3 cr
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FISH 314	Fish Ecology	3 cr
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FISH 315	Fish Ecology Lab	1 cr
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FISH 415	Limnology	4 cr
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FISH 418	Fisheries Management	4 cr
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FISH 481	Ichthyology	4 cr
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FISH 495	Fisheries Seminar	1 cr
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WLF 371	Physiological Ecology of Fish and Wildlife	3 cr
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WLF 448	Fish and Wildlife Population Ecology	4 cr
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**One of the following (2 cr):**

FISH 398	Renewable Natural Resources Internship	1-16 cr
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WLF 398	Renewable Natural Resources Internship	1-16 cr
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### One of the following (3 cr):

ENGL 313	Business Writing	3 cr
<a href="#">ENGL 316</a>	<a href="#">Environmental Writing</a>	<a href="#">3 cr</a>
ENGL 317	Technical Writing	3 cr
<a href="#">ENGL 318</a>	<a href="#">Science Writing</a>	<a href="#">3 cr</a>

### One of the following (3-4 cr):

FISH 422	Concepts in Aquaculture	4 cr
FISH 424	Fish Health Management	4 cr

### One of the following (3 cr):

BIOL 310	Genetics	3 cr
GENE 314	General Genetics	3 cr

### Courses to total 120 credits for this degree

#### 5. Make the following curricular changes to the **Major in Wildlife Resources** (B.S.Wildl.Res.)

##### First and Second Years

BIOL 114	Organisms and Environments	4 cr
BIOL 115	Cells & the Evolution of Life	3 cr
BIOL 115L	Cells and the Evolution of Life Laboratory	1 cr
BIOL 213	Principles of Biological Structure and Function	4 cr
CHEM 101	Introduction to Chemistry I	4 cr
COMM 101	Fundamentals Public Speaking	2 cr
ECON 202	Principles of Microeconomics	3 cr
FISH 202	Fish & Wildlife Applications II	1 cr
FOR 235/ NRS 235	Society and Natural Resources	3 cr
NR 101	Exploring Natural Resources	2 cr
STAT 251	Statistical Methods	3 cr
WLF 102	The Fish and Wildlife Professions	1 cr
WLF 201	Fish and Wildlife Applications I	1 cr

##### Ecology (3 cr):

FOR 221/ REM 221	Ecology	3 cr
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##### One of the following (3 cr):

CHEM 275	Carbon Compounds	3 cr
CHEM 277	Organic Chemistry I	3 cr

##### One of the following (3-4 cr):

FOR 320	Dendrology	4 cr
REM 341	Systematic Botany	3 cr
<a href="#">REM 252</a>	<a href="#">Wildland Plant Identification</a>	<a href="#">2 cr</a>
	<a href="#">AND</a>	
<a href="#">REM 253</a>	<a href="#">Wildland Plant Identification Field Studies</a>	<a href="#">1 cr</a>

##### One of the following (4 cr):

GEOL 101	Physical Geology	3 cr
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GEOL 101L	AND Physical Geology Lab	1 cr
PHYS 100	Fundamentals of Physics	3 cr
PHYS 100L	AND Fundamentals of Physics Lab	1 cr
PHYS 111	General Physics I	3 cr
PHYS 111L	AND General Physics I Lab	1 cr
SOIL 205	The Soil Ecosystem	3 cr
SOIL 206	AND The Soil Ecosystem Lab	1 cr

### One of the following (4 cr):

MATH 160	Survey of Calculus	4 cr
MATH 170	Analytic Geometry and Calculus I	4 cr

### Third and Fourth Years

FOR 375	Introduction to Spatial Analysis for Natural Resource Management	3 cr
NRS 383	Natural Resource and Ecosystem Service Economics	3 cr
REM 411	Wildland Habitat Ecology and Assessment	2 cr
WLF 314	Ecology of Terrestrial Vertebrates	3 cr
WLF 315	Techniques Laboratory	2 cr
WLF 371	Physiological Ecology of Fish and Wildlife	3 cr
WLF 440	Conservation Biology	3 cr
WLF 448	Fish and Wildlife Population Ecology	4 cr
WLF 492	Wildlife Management	4 cr

### One of the following (3 cr):

BIOL 310	Genetics	3 cr
GENE 314	General Genetics	3 cr

### One of the following (3 cr):

<del>COMM 431</del>	<del>Applied Business and Professional Communication</del>	<del>3 cr</del>
<del>ENGL 208</del>	<del>Personal &amp; Exploratory Writing</del>	<del>3 cr</del>
<u>ENGL 316</u>	<u>Environmental Writing</u>	<u>3 cr</u>
ENGL 317	Technical Writing	3 cr
<u>ENGL 318</u>	<u>Science Writing</u>	<u>3 cr</u>

### One of the following (2-3 cr):

COMM 410	Conflict Management	3 cr
FOR 484	Forest Policy and Administration	2 cr
NRS 387	Environmental Communication Skills	3 cr
NRS 486	Public Involvement in Natural Resource Management	3 cr
WLF 205	Wildlife Law Enforcement	2 cr
<u>NRS 250</u>	<u>Environmental Problem Solving</u>	<u>3 cr</u>
<u>NRS 462</u>	<u>Natural Resource Policy</u>	<u>3 cr</u>

### One of the following (2 cr):

FISH 398	Renewable Natural Resources Internship	1-16 cr
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WLF 398 Renewable Natural Resources Internship 1-16 cr

### Restricted electives

Choose two courses from the following (must receive a grade of C or better):

BIOL 483	Mammalogy	3 cr
BIOL 489	Herpetology	4 cr
FISH 481	Ichthyology	4 cr
WLF 482	Ornithology	4 cr

### Courses to total 120 credits for this degree

6. Make the following curricular changes to the **Tribal Natural Resources Stewardship Undergraduate Certificate**:

~~AIST 404 Special Topics 1-16 cr~~

*Course Topic required: Tribal Sovereignty (3 cr)*

~~AIST 478/LAW 928 Tribal Nation Economics and Law 3 cr~~

~~LARC 480 The Resilient Landscape 3 cr~~

~~REM 221/ FOR 221 Ecology 3 cr~~

~~REM 280 Introduction to Wildland Restoration 2 cr~~

~~SOIL 205 The Soil Ecosystem 3 cr~~

~~FISH 405 Introduction to Aquatic Restoration 1 cr~~

~~FOR 310 -Indigenous Culture and Ecology 3 cr~~

~~AIST 314 Tribal Sovereignty and Federal Policy 3 cr~~

~~AIST 498 American Indian Studies Internship 1 cr~~

~~FISH 398 Renewable Natural Resources Internship 1-16 cr~~

~~OR~~

~~WLF 398 Renewable Natural Resources Internship 1-16 cr~~

### One of the following (3 cr):

~~FOR 375 Introduction to Spatial Analysis for Natural Resource Management 3 cr~~

~~GEOG 385 GIS Primer 3 cr~~

### One of the following (3-4 cr):

~~BE 433 Bioremediation 3 cr~~

~~BE 450 Environmental Hydrology 3 cr~~

~~BE 452 Environmental Water Quality 3 cr~~

~~CE 433 Water Quality Management 3 cr~~

~~FISH 314 Fish Ecology 3 cr~~

~~FISH 415 Limnology 4 cr~~

~~FISH 430 Riparian Ecology 3 cr~~

~~FOR 310 Indigenous Culture and Ecology 3 cr—Max 9 cr~~

~~FOR 326 Fire Ecology and Management 3 cr~~

~~FOR 462 Watershed Science and Management 3 cr~~

~~GEOG 424 Hydrologic Applications of GIS and Remote Sensing 3 cr~~

~~LARC 480 The Resilient Landscape 3 cr~~

~~REM 440 Wildland Restoration Ecology 3 cr~~

~~REM 456 Integrated Rangeland Management 3 cr~~

~~REM 459 Rangeland Ecology 2 cr~~

~~WLF 314 Ecology of Terrestrial Vertebrates 3 cr~~



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### For 497 (s) Senior Thesis (~~2-4 cr, max 4~~1-4 cr)

Independently plan and conduct a thesis project; write and defend the thesis under supervision of an advisor.

**Prereq:** Senior standing and minimum 3.20 GPA or Permission

### For 529 ~~Forest Ecosystem Analysis~~ **Ecosystem Analysis and Modeling (3 cr)**

~~Forest ecosystem processes and analysis from the leaf to the landscape scale; techniques for measuring forest ecosystem attributes; integration with forest management. Field trip required. (Fall only)~~ **Terrestrial ecosystem processes, analysis, and modeling from the leaf to the landscape scale; techniques for measuring and modeling ecosystem attributes; integration with land management and climate change impacts. Field trip required. (Fall only)**

### REM 151 Rangeland Principles (~~2~~3 cr)

Rangelands are vast landscapes that cover most of western North America and the earth. Students will examine the ecological principles that cause these grasslands, shrublands, woodlands and deserts to change or stay the same. How humans use and manage these ecosystems will also be explored. The modern challenges of rangeland management must be met with broad thinking and new, sustainable practices to maintain and restore rangelands and the human communities that rely on them. Course requires in-class projects and field experience(s).

### REM 252 Wildland Plant Identification ~~Field Studies~~ (2 cr)

Develop skills to identify and classify major rangeland plants. Focus is on identification of grasses, forbs, and shrubs. Discussions will also encompass the ecological roles of wildland plants and the ecosystem classification. This course includes a 1-day field trip. Required for REM majors. (Spring only)

### REM 410 Principles of Vegetation Measurement (2 cr)

On-line course designed to give an overview of vegetation measurement techniques for grasslands, shrublands, woodlands, and forests. Students will gain a solid understanding of how to evaluate and monitor vegetation attributes relative to wildlife habitat, livestock forage, fire fuel characteristics, watershed function, and many other wildland values. Recommended Preparation: A basic ~~statistics course and~~ understanding of how to use computer spreadsheets such as Excel. (Fall only) Students who desire a hands-on and interactive experience with vegetation measurement are encouraged to also enroll in REM 411 which is a course the builds on the principles delivered in REM410 and includes field experiences.

**Prereq:** STAT 251 or permission

### REM 411 Ecological Monitoring and Analysis (2 cr)

This course integrates field sampling with quantitative and theoretical concepts related to scientific research, wildlife habitat, and land management practices. ~~Field and data analysis course where students~~ Students collect, analyze, and report on ecological data in various formats, and learn specific protocols used by professionals to assess wildlife habitat ~~related to scientific research, wildlife habitat, fire, grazing, and land management practices.~~ Class field trips required. Recommended preparation: REM 252 & 253, REM 341, or other plant identification class; ~~Ability~~ ability to use excel. Co-enrollment in REM 410 is recommended.

**Prereq:** Stat 251 or Permission

### REM 459 Rangeland Ecology (2 cr)

Application of ecological principles in rangeland management; stressing response and behavior of range ecosystems to various kinds and intensity of disturbance and management practice. Web-only [ <http://www.cnr.uidaho.edu/range459bunting/> ]. Recommended Preparation: courses in general ecology (e.g., REM 221), technical writing (e.g., Engl 317), and vegetation assessment (e.g., REM ~~410~~411 or For 274) or Permission (Fall only).

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3. Change and cross-list the following courses:

**For 552 Current Literature in Environmental Remote Sensing (1 cr, max arr).**

Same as NRS 552. Review, present, and discuss recent articles related to remote sensing of the environment journals. Students choose, critically review, and discuss the articles to develop critical-thinking skills, remote sensing research strategies, and confidence in their knowledge of the literature. Graded P/F.

**RMat 495 Product Development and Brand Management (3 cr)**

See Bus 495. Principles of product planning, development and commercialization; concept testing; product life cycle management; portfolio analysis; targeting and positioning; team management; and implementing product decisions. (Fall only)

4. Change the following cross-listed courses:

**For 221 Principles of Ecology (3 cr)**

See REM 221.

**REM 221 Principles of Ecology (3 cr)**

Same as For 221 and WLF 220. Fundamental principles of ecology. Major topics covered by the course include the physical environment, how organisms interact with each other and their environment, evolutionary processes, population dynamics, communities, energy flow and ecosystems, human influences on ecosystems, and the integration and scaling of ecological processes through systems ecology. Computer-based materials are used extensively for guided independent learning of ecology; a good working knowledge of Windows-based computer systems is recommended. An online version of this course is offered as a separate section. Course information: EcologyOnline.net. Recommended Preparation: Introductory botany and zoology. Principles of ecology and their relevance to management of natural resources. Major topics include plant and wildlife population, community, ecosystem, and landscape level processes and how these processes interact with the environment. Exploration of how ecosystems are affected by humans and global change. Introduction to the types of questions asked by ecologists, the principal concepts and theories that guide ecological inquiry, and the methods that are used to answer ecological questions. Both terrestrial and aquatic systems are considered.

**Prereq:** Biol 102/Biol 102L or Biol 114 or Biol 115 or PISc 205; or Permission

**For 472 Remote Sensing of the Environment (3-4 cr)**

Same as REM 472-NRS 472. Current airborne and satellite systems, data acquisition on ground and from remote locations, instrumentation, imagery interpretation and digital analysis, applications for natural resource science and management. Two 75-minute lectures and one two-hour lab per week. Recommended Preparation: Math 143 Phys 100 or Phys 112. Cooperative: open to WSU degree-seeking students.

5. Drop the following course:

**REM 472 Remote Sensing of the Environment (4 cr)**

See For 472. Cooperative: open to WSU degree-seeking students.

6. Make the following curricular changes to the **Major in Fire Ecology and Management (B.S.Fire.Ecol.Mgmt.):**

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

ECON 202	Principles of Microeconomics	3 cr
FOR 235/ NRS 235	Society and Natural Resources	3 cr
FOR 274	Forest Measurement and Inventory	3 cr
FOR 326	Fire Ecology and Management	3 cr

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FOR 375	Introduction to Spatial Analysis for Natural Resource Management	3 cr
FOR 427	Prescribed Burning Lab	3 cr
FOR 433	Fire and Fuel Modeling	2 cr
FOR 450	Fire Behavior	2 cr
FOR 484	Forest Policy and Administration	2 cr
NR 101	Exploring Natural Resources	2 cr
NRS 125	Introduction to Conservation and Natural Resources	3 cr
NRS 383	Natural Resource and Ecosystem Service Economics	3 cr
PHYS 100	Fundamentals of Physics	3 cr
PHYS 100L	Fundamentals of Physics Lab	1 cr
PLSC 205	General Botany	4 cr
REM 144	Wildland Fire Management	2 cr
REM 407	GIS Application in Fire Ecology and Management	2 cr
REM 459	Rangeland Ecology	2 cr
SOIL 205	The Soil Ecosystem	3 cr
SOIL 206	The Soil Ecosystem Lab	1 cr
STAT 251	Statistical Methods	3 cr

**One of the following (3-4 cr):**

FOR 330	Forest Soil and Canopy Processes	4 cr
<u>For 424</u>	<u>Silvicultural Principles and Practices</u>	<u>4 cr</u>
<u>REM 456</u>	<u>Integrated Rangeland Management</u>	<u>3 cr</u>

**One of the following (3 cr):**

REM 429	Landscape Ecology	3 cr
<u>FOR 435</u>	<u>Remote Sensing of Fire</u>	<u>3 cr</u>

**One of the following (4 cr):**

BIOL 114	Organisms and Environments	4 cr
BIOL 115	Cells & the Evolution of Life	3 cr
	AND	
BIOL 115L	Cells and the Evolution of Life Laboratory	1 cr

**One of the following (4 cr):**

CHEM 101	Introduction to Chemistry I	4 cr
CHEM 111	Principles of Chemistry I	4 cr

**One of the following (3 cr):**

ENGL 313	Business Writing	3 cr
ENGL 317	Technical Writing	3 cr

**Ecology (3 cr):**

FOR 221/ REM 221	Ecology	3 cr
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**One of the following courses (3 cr):**

GEOG 301	Meteorology	3 cr
GEOG 313	Global Climate Change	3 cr
<u>FOR 454</u>	<u>Air Quality, Pollution, and Smoke</u>	<u>3 cr</u>

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## One of the following (3-4 cr):

MATH 143	Pre-calculus Algebra and Analytic Geometry	3 cr
MATH 160	Survey of Calculus	4 cr

## One of the following courses (3-4 cr):

FOR 320	Dendrology	4 cr
REM 252	Wildland Plant Identification Field Studies	2 cr
REM 341	Systematic Botany	3 cr

## Advisor Approved Electives or Approved Minor

Complete 13 credits of Advisor Approved Electives OR one of the following Minors:

Rangeland Ecology and Management

Forest Resources

Natural Resource Conservation

Natural Resources Economics

Fishery Resources

Wildlife Resources

[Ecology](#)

[Forest Operations](#)

[Renewable Materials](#)

## Courses to total 120 credits for this degree

### 7. Make the following changes to **the Major in Forestry** (B.S.Forestry):

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

BIOL 114	Organisms and Environments	4 cr
ECON 202	Principles of Microeconomics	3 cr
ENT 469	Introduction to Forest Insects	2 cr
FOR 102	Introduction to Forest Management	1 cr
FOR 235/ NRS 235	Society and Natural Resources	3 cr
FOR 273	Forestry Sampling Methods	2 cr
FOR 274	Forest Measurement and Inventory	3 cr
FOR 320	Dendrology	4 cr
FOR 324	Forest Regeneration	3 cr
FOR 330	Forest Soil and Canopy Processes	4 cr
FOR 375	Introduction to Spatial Analysis for Natural Resource Management	3 cr
FOR 424	Silviculture Principles and Practices	4 cr
FOR 430	Forest Operations	3 cr
FOR 462	Watershed Science and Management	3 cr
FOR 468	Forest and Plant Pathology	2 cr
FOR 484	Forest Policy and Administration	2 cr
MATH 143	Pre-calculus Algebra and Analytic Geometry	3 cr
MATH 144	Analytic Trigonometry	1 cr
NR 101	Exploring Natural Resources	2 cr
NRS 383	Natural Resource and Ecosystem Service Economics	3 cr
PHYS 100	Fundamentals of Physics	3 cr
PLSC 205	General Botany	4 cr
REM 144	Wildland Fire Management	2 cr
SOIL 205	The Soil Ecosystem	3 cr

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SOIL 206	The Soil Ecosystem Lab	1 cr
STAT 251	Statistical Methods	3 cr
One of the following (4 cr):		
CHEM 101	Introduction to Chemistry I	4 cr
CHEM 111	Principles of Chemistry I	4 cr
Ecology (3 cr):		
FOR 221/ REM 221	Ecology	3 cr

### Advisor Approved Electives or Minor

Complete 13 credits of Advisor Approved Electives OR one of the following Minors:

Business

Ecology

Environmental Communication

Fire Ecology and Management

Fishery Resources

Forest Operations

Natural Resource Conservation

Natural Resources Economics

Renewable Materials

Rangeland Ecology and Management

Soil Science

Wildlife Resources

[Horticulture](#)

### Courses to total 120 credits for this degree

8. Make the following changes to the **Major in Rangeland Ecology and Management** (B.S.Range.Ecol.Mgmt.)

[This major prepares students to conserve, restore, and manage the vast landscapes known as rangelands. These ecosystems include deserts, prairies, shrublands, and woodlands. The degree program focuses on the scientific study of rangelands and introduces principles for managing and restoring rangelands for maximum benefit and ecosystem sustainability.](#)

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

### First and Second Years

AVS 109	The Science of Animals that Serve Humanity	4 cr
<del>BIOL 115</del>	<del>Cells &amp; the Evolution of Life</del>	<del>3 cr</del>
<del>BIOL 115L</del>	<del>Cells and the Evolution of Life Laboratory</del>	<del>1 cr</del>
<del>CHEM 275</del>	<del>Carbon Compounds</del>	<del>3 cr</del>
<a href="#">BIOL 114</a>	<a href="#">Organisms and Environments</a>	<a href="#">4 cr</a>
COMM 101	Fundamentals Public Speaking	2 cr
ECON 202	Principles of Microeconomics	3 cr
FOR 235/NRS 235	Society and Natural Resources	3 cr
NR 101	Exploring Natural Resources	2 cr
REM 151	Rangeland Principles	2 cr
<del>REM 152</del>	<del>Rangeland Ecosystem Exploration</del>	<del>1 cr</del>
SOIL 205	The Soil Ecosystem	3 cr
SOIL 206	The Soil Ecosystem Lab	1 cr
STAT 251	Statistical Methods	3 cr
<a href="#">REM 252</a>	<a href="#">Wildland Plant Identification</a>	<a href="#">2 cr</a>

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[REM 253](#)      [Wildland Plant Identification Field Studies](#)      [1 cr](#)

**One of the following (4 cr):**

BIOL 213      Principles of Biological Structure and Function      4 cr  
PLSC 205      General Botany      4 cr

**One of the following (4 cr):**

CHEM 101      Introduction to Chemistry I      4 cr  
CHEM 111      Principles of Chemistry I      4 cr

**One of the following (3-4 cr):**

MATH 143      Pre-calculus Algebra and Analytic Geometry      3 cr  
MATH 160      Survey of Calculus      4 cr  
Ecology (3 cr):  
FOR 221/  
REM 221      Ecology      3 cr

**Third and Fourth Years**

FOR 375      Introduction to Spatial Analysis for Natural Resource Management      3 cr  
NRS 383      Natural Resource and Ecosystem Service Economics      3 cr  
[REM 252](#)      [Wildland Plant Identification Field Studies](#)      [2 cr](#)  
REM 341      Systematic Botany      3 cr  
REM 410      Principles of Vegetation Measurement      2 cr  
REM 411      Wildland Habitat Ecology and Assessment      2 cr  
REM 440      Wildland Restoration Ecology      3 cr  
REM 456      Integrated Rangeland Management      3 cr  
REM 459      Rangeland Ecology      2 cr  
REM 460      Integrating GIS and Field Studies in Rangelands      2 cr  
SOIL 454      Pedology      3 cr

**One of the following (3 cr):**

ENGL 313      Business Writing      3 cr  
ENGL 317      Technical Writing      3 cr

**One of the following (3 cr):**

FISH 430      Riparian Ecology and Management      3 cr  
FOR 462      Watershed Science and Management      3 cr

**Career Tracks with Advisor Input and Approval ~~Approved Emphasis Areas~~ (1215 cr):**

Students must also complete [1215](#) credits of advisor approved electives in [emphasis areas that contributing to a specific career track that may include: Restoration Ecology, Field Botany, Spatial Ecology, Watershed Science, Wildland Fire Management, Invasive Plant Management, Wildlife Habitat Management, Tribal Land Management, Rangeland Economics, Natural Resource Communication, and Environmental Consulting.](#)

[RESTORATION ECOLOGY – Millions of acres of rangeland and forests have been disturbed by fire, invasive plants, and overgrazing. Academic advisors in rangeland conservation have developed a set of electives for students interested in a career in wildland restoration. Completing these career track electives will fulfill requirements for the Restoration Ecology Undergraduate Academic Certificate. Careful selection of courses can also highlight expertise in botany and plant materials to qualify for professions as a botanist.](#)

[WILDLIFE HABITAT - Many species of wildlife live on rangelands and the management of wildlife habitat is an important and sought after skill. With help from their Academic Advisor, rangeland students can complete a](#)

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career track that will show expertise in wildlife habitat management and fulfill the requirements for a Minor in Wildlife Resources.

LAND AND LIVESTOCK - This career track is for students interested in “hands-on” management of rangelands. Academic Advisors work with students to select courses that provide the knowledge and skills needed to manage rangelands with grazing and fire to enhance livestock production while sustaining communities of native plants and animals. Completion of these courses can also satisfy the requirements for a Minor in Animal Science or Soil Science.

WILDLAND FIRE - Wildfire is one of the major forces causing change on rangeland ecosystems. Completing a specific set of advisor approved electives, will enable students to show knowledge of land management related to wildland fire and fulfill the requirements for a Minor in Fire Ecology and Management.

INDIVIDUAL INTEREST – Students can work with their advisor to select specific courses to show expertise in a career track of specific interest that may include Watershed or Riparian Ecologist, Natural Resource GIS Specialist, Environmental Consultant, Tribal Land Manager, Resource Economist, or many other interests related to rangelands.

## **Courses to total 122 credits for this degree**

9. Make the following curricular changes to the **Fire Ecology, Management, and Technology Graduate Certificate**:

*Note: A grade of 'B' or higher is required in all coursework for this academic certificate.*

### **Fire Core (8 cr):**

FOR 526	Fire Ecology	3 cr
FOR 546	Science Synthesis and Communication	3 cr
FOR 587	Wildland Fire Policy	2 cr

### **Ecology and Management Course Group (2-3 cr):**

FOR 427	Prescribed Burning Lab	3 cr
FOR 451	Fuels Inventory and Management	3 cr
FOR 529	Forest Ecosystem Analysis	3 cr
FOR 531	Invasion Biology	3 cr
FOR 557	Advanced Fire Behavior	3 cr
REM 429	Landscape Ecology	3 cr
REM 440	Wildland Restoration Ecology	3 cr
REM 459	Rangeland Ecology	2 cr
REM 507	Landscape and Habitat Dynamics	3 cr

### **Tools and Technology Course Group (2-4 cr):**

FOR 435	Remote Sensing of Fire	3 cr
	OR	
FOR 535	Remote Sensing of Fire	3 cr
FOR 472/ REM 472	Remote Sensing of the Environment	4 cr
<u>REM 407</u>	<u>GIS Application in Fire Ecology and Management</u>	<u>2 cr</u>
	<u>OR</u>	
REM 510	GIS Application in Fire Ecology and Management	2 cr

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## Planning and Policy Course Group (3 cr):

<a href="#">FOR 454</a>	<a href="#">Air Quality, Pollution, and Smoke</a>	<a href="#">3 cr</a>
	OR	
<a href="#">FOR 554</a>	<a href="#">Air Quality, Pollution, and Smoke</a>	<a href="#">3 cr</a>
FOR 584	Natural Resource Policy Development	3 cr
<a href="#">NRS 573</a>	<a href="#">Planning &amp; Decision Making for Watershed Management</a>	<a href="#">3 cr</a>
REM 456	Integrated Rangeland Management	3 cr

## Electives to total 15 for the certificate

### NATURAL RESOURCES

1. Change the following course:

#### **NR 321 Ecology in the Wilderness (3 cr)**

Fundamental principles of the science of ecology. Major topics covered by the course include the physical environment, how organisms interact with each other and their environment, evolutionary processes, population dynamics, communities, energy flow and ecosystems, human influences on ecosystems, and the integration and scaling of ecological processes through systems ecology. ~~This course is only offered in a wilderness setting and is complementary to the re-required co-requisite course, Field Ecology (NR 322).~~

Computer-based materials are used extensively for guided independent learning of ecology. Course information: EcologyOnline.net. Recommended Preparation: Introductory botany and zoology.

**Prereq:** [Biol 102 and 102L](#), [Biol 114](#), [Biol 115/115L](#), [Introductory biology](#) or permission

**Coreq:** [NR 322](#)

### NATURAL RESOURCES AND SOCIETY

1. Add the following courses:

#### **NRS 411 Environmental Project Management and Decision Making (4 cr)**

Integrated, interdisciplinary approaches to project and program management and decision making. Emphasis on environmental planning techniques, scenario development, analysis, and application of geospatial tools such as GIS and remote sensing. Direct experience and basic skills for project and program development and evaluation.

**Prereq:** NRS 311

#### **NRS 482 Outdoor Leadership Expedition (3 cr)**

This expedition based course will explore the practice of leadership, using the wilderness experience as the classroom. Topics include trip planning, small group dynamics, decision-making, communication and expedition behavior. Examining leadership theory, modeling of leadership techniques, written assignments, and backcountry skill development are used to support learning.

#### **NRS 566 Place-based Ecology II (4 cr)**

Explore how plants and animals manage the unique survival challenges of winter. Delve into fundamentals of winter ecology including the changing snowpack, life under the ice, plants and animals in the winter environment and plant-animal interactions. The middle of the course addresses environmental change and interactions with winter ecology. At the end of the semester, the springtime environment will be used to study fundamental chemical and physical processes that drive the natural world emerging out of its apparent hibernation. Work outdoors to gain hands-on knowledge and practical experience. Field experiences will be fundamental in developing ecological understanding, with field trips to various locations to gain crucial insight into the natural world during the winter and spring seasons. Outdoor experience and learning will be complemented by lectures, group discussions, readings, and field experiments.

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2. Add and cross-list the following courses:

**NRS 552 Current Literature in Environmental Remote Sensing (1 cr, max arr)**

See For 552.

**NRS 472 Remote Sensing of the Environment (4 cr)**

See For 472.

3. Change the following courses:

**NRS 125 Introduction to Conservation and Natural Resources (3 cr)**

~~Overview of conservation and natural resources from a political, economic, behavioral, and land use perspective; philosophical, theoretical, and historical foundations of conservation as linked to social trends.~~  
Foundations of natural resource management and agencies with responsibility for land management; philosophical, theoretical, and historical basis for protected areas; principles and frameworks for managing human use of and recreation on public lands.

**NRS 235 Society and Natural Resources (3 cr)**

*Gen Ed: Social Science*

~~Same as For 235. The social sciences applied to natural resources management; relationship between natural resources and human socioeconomic systems; analysis of resource issues.~~  
Introduction to the human dimensions of natural resources management. Includes individual values, attitudes and behaviors and societal norms and behaviors; methods of measurement, research and interpretation of human influence; institutions and processes for implementing policy and regulation and managing human difference; and understanding the nature of major natural resource issues.

~~**NRS 385386 Conservation Management and Planning I**~~ **Social-Ecological Systems (43 cr)**

~~Theory and practice of decision making for conservation planning and management, including protected areas, working landscapes, conservation organizations and the challenges facing natural resource managers in the 21st Century. Field trips and a collaborative group community Service Learning project are required. (Fall only)~~  
Social-ecological systems are comprised of interconnected social, economic, and environmental components. Explore social-ecological systems frameworks and fundamental principles of sustainability in social-ecological systems by examining theory and practice in case studies. Topics may include natural resource scarcity and human conflict, ecosystem service provision, management, and conservation, and land tenure, rights, and justice relating to human access to natural resources.

~~**NRS 475 Conservation Management and Planning II**~~ **Conservation Planning and Management (4 cr)**

*Gen Ed: Senior Experience*

~~Advanced theory, processes, and techniques for the management and planning of conservation systems including conservation organizations, natural areas, and their uses; focuses on resource and user management programs and techniques such as programming, budgeting, financing, contracting, and personnel management processes, as well as conservation planning processes including operational, strategic, and long range planning for natural sites and larger landscapes. A required 2-day field trip, collaborative group projects and a Service Learning project are required. (Spring only)~~  
Advanced theory, processes and techniques for the management and planning of conservation systems and working landscapes. In-depth focus on conservation planning approaches such as comprehensive, strategic, advocacy and communicative action

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planning; critical examination of sprawl and the alternatives for managing land use and development on natural sites and larger landscapes at the urban-rural interface. Collaborative group exercises, a community Service-Learning Project and required field trips.

**Prereq:** ~~NRS 385 and~~ Junior or Senior standing; or Permission

### **NRS ~~486~~311 Public Involvement in Natural Resource Management (3 cr)**

Theoretical and applied concepts of public involvement in both public and private sectors of natural resource management; case studies and applied techniques or methods for public involvement; National Environmental Policy Act (NEPA) regulations and other public involvement policy or law~~historical and legal mandates, government agency responsibilities, applied methods and techniques, case studies, and practical experience. Three lec and three hrs of lab a wk;~~ field trip may be reqd. (Spring only)

### **NRS 560 Place-based Ecology I (34 cr)**

Cover plant and animal community ecology from both a qualitative and quantitative perspective. Topics will include: community interaction of plants and animals; community dynamics, succession, and disturbance; basic data collection and statistical analysis of habitat association data; and the effect of abiotic factors on community structure. (Fall only)

### **NRS 563 Place Based Environmental Education (34 cr)**

Educating students so that they have the skills and knowledge base in order to begin to understand the human and natural environment in which they live is a complicated endeavor. This course is designed to provide a foundation of educational pedagogy, a survey of place-based literature in areas critical to this educational endeavor, and opportunities for personal and professional application. (Fall only)

### **NRS 565 Science Communication and the Environment (34 cr)**

Examines the flow of scientific information between experts and non-experts, with emphasis on educational settings. Project-based and includes practice in digital storytelling, documentary film, blogs, podcasts, public talks, and field experiences. McCall Field Campus. (Spring Only)

#### 4. Drop the following course:

### **NRS 390 Environmental Decision Making (3 cr)**

Integrated, interdisciplinary approaches to explaining and understanding the importance of major environmental protection laws, with special emphasis on the National Environmental Policy Act, the Endangered Species Act, and the Clean Water Act.