



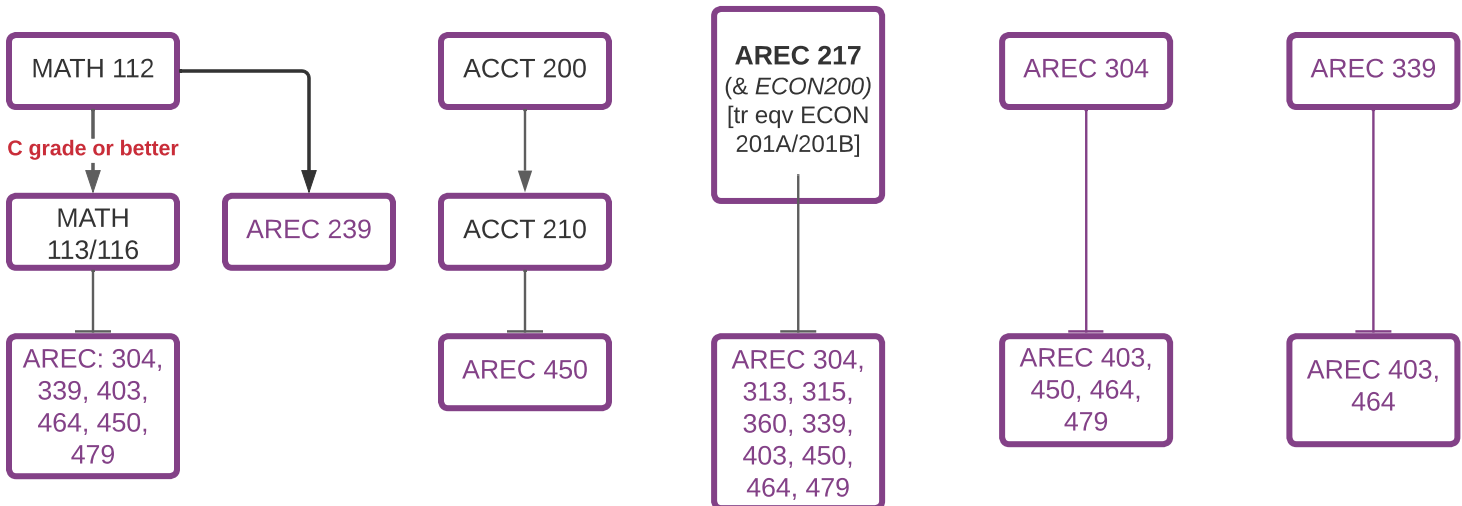
<b>Name:</b> _____	<b>Date:</b> _____	<b>SID:</b> _____	
<b>Foundation / General Education Requirements (32 minimum units):</b>			
ENGL 101/107: _____	ENGL 102/108/109H _____	<b>General Education requirements</b> for admits Spring 2022 & beyond. 32 total units required: English composition, MATH112 or higher, & 2nd semester language proficiency courses count for 9 minimum units; or AGEC/CSUGE/IGETC.	
<i>Mid-Career Writing Assessment (MCWA): Satisfied by a grade of A or B in 2nd semester English. or in AED301, ALC422, AREC360, AREC450, AREC464, AREC479, ENGL307, ENGL308 and ENGL340.</i>	UNIV 101 intro portfolio, 1 unit required	<b>Exploring Perspectives</b> , 12 units required 4 perspectives, one course in each perspective  Artist Humanist Natural Scientist AREC 217 Social Scientist	
<b>Second semester proficiency in a 2nd language.</b> 0-8 units 'C' or better final grade required in 2nd semester course. Options of coursework, CLEP, or proficiency test to complete this requirement _____	UNIV 301 final portfolio course, 1 unit required	<b>Building Connections</b> , 9 units required, 3 courses total	
<b>Math requirements (11 units):</b>			
<b>MATH112</b> College Algebra, C or better final grade is pre-req to calculus _____	<b>AREC197c</b> , Marginal Analysis for Economists (F) 1 unit, MATH112 placement is pre-req _____	<b>MATH 113, or MATH 116, Calculus.</b> MIS111 or BE120 & C or better in MATH112 are pre-reqs to 116. _____	<b>AREC 239 Intro Statistics</b> , (Sp, 4 units) _____
<b>Required Core Pre-Requisites (16 units):</b>			
<b>ECON200</b> Basic Economics or transfer eqv: ECON201A & 201B _____	<b>AREC304 (F)</b> Production & Consumption Analysis (pre-reqs ECON200 & calculus) _____	<b>AREC 217</b> , Economics of Food & Ag, Solutions for a Changing World, (EP Soc Sci) _____	
<b>Computer Skills: AREC297</b> (Sp) Excel Applications for Economic Analysis, 1 unit _____	ABEM-MGMT: <b>MIS111 (Sp)</b> ; or ABEM-ECON: <b>BE/PLS120</b> _____		
<b>ACCT200 (Sp)</b> Intro Fin. Acctg _____	<b>ACCT210 (F)</b> Intro Managerial Acctg (pre-req ACCT200) _____		
<b>Communication as a Skill, 2 course requirement (5-6 units):</b>			
Course 1: _____	Course 2: _____		
AED 301 Youth Leadership; ALC 309 Leadership Principles & Practice, ALC 409 Team & Organization Leadership, ALC 410 Entrepreneurial Leadership in Ag & Life Sciences, ALC 411 Principles & Appl. Of Org. Innovation, ALC 422 Communication Knowledge in Ag & Life Sciences, COMM 101 Into to the Study of Communication, COMM 119 Public Speaking, ENGL 307 Business Writing, ENGL 308 Technical Writing, ENGL 340 Topics in Professional & Technical Writing, HED 201 Foundations of Leadership, HED 397b Project SOAR (2 units), SBE 202 Prof. Comm. & Presentation (SP)			
<b>Required Core Courses for both emphasis, ECON200 is pre-req for all below courses (12 units):</b>			
Agribusiness Economics & Mgmt <b>AREC315 (F)</b> _____	Economic Statistics <b>AREC339 (F)</b> (pre-req calculus) _____	Economics of Policy Analysis <b>AREC464 (F)</b> (pre-reqs: AREC339 & AREC304) _____	
Analysis of Economic Data <b>AREC403 (Sp)</b> (pre-reqs: AREC339 & AREC304) _____			
<b>Select one of the below emphasis options</b>			
<b>ABEM-MGMT, 3 required courses:</b> (BNAD minor is required with this emphasis)		<b>ABEM-ECON 3 required courses, choose 2 courses for 6 units</b>	
<b>AREC313 (F)</b> Economics of Futures Markets _____		A minor is not required with this emphasis.	
<b>AREC360 (Sp)</b> Poverty & Development of Nations _____		<b>AREC 479 (Sp)</b> Econ. Anlys Water, Food & Env. Pol. required course. (Calculus is pre-req)	
Financial Mgmt for Agribusiness (ACCT210 pre-req) <b>AREC450 (Sp)</b> _____		<b>Environmental Economics</b> related courses from list; 1 of 2 courses must be from AREC: <b>AREC313 (F)</b> or <b>AREC360 (Sp)</b> or <b>AREC 365 (F)</b> or <b>AREC450 (Sp)</b> _____	
<b>Current:</b>	<b>Notes:</b>		
Total units required for the degree: 120 /120			
Total Upper Division units required for degree: 42 (Courses numbered 300-499, UD) /42			
Remaining to be completed: / UD			
GPA-2.0 cumulative, major & minor required			
Generally, 15-20 elective units will be needed, varies by emphasis selected.			
Electives offered by AREC: <b>AREC150C (F)</b> : Sustaining. Life, the Global Economy of Food, <b>AREC210 (Sp)</b> Understanding the World of Commerce (T2 Indvs), <b>AREC365 (F)</b> Food Economy: Efficiencies, Gaps & Policies			



**Bachelor of Science in: Agribusiness Economics & Management (ABEM) emphasis options**

**Bachelor of Science in: Environmental & Water Resource Economics (EWRE)**

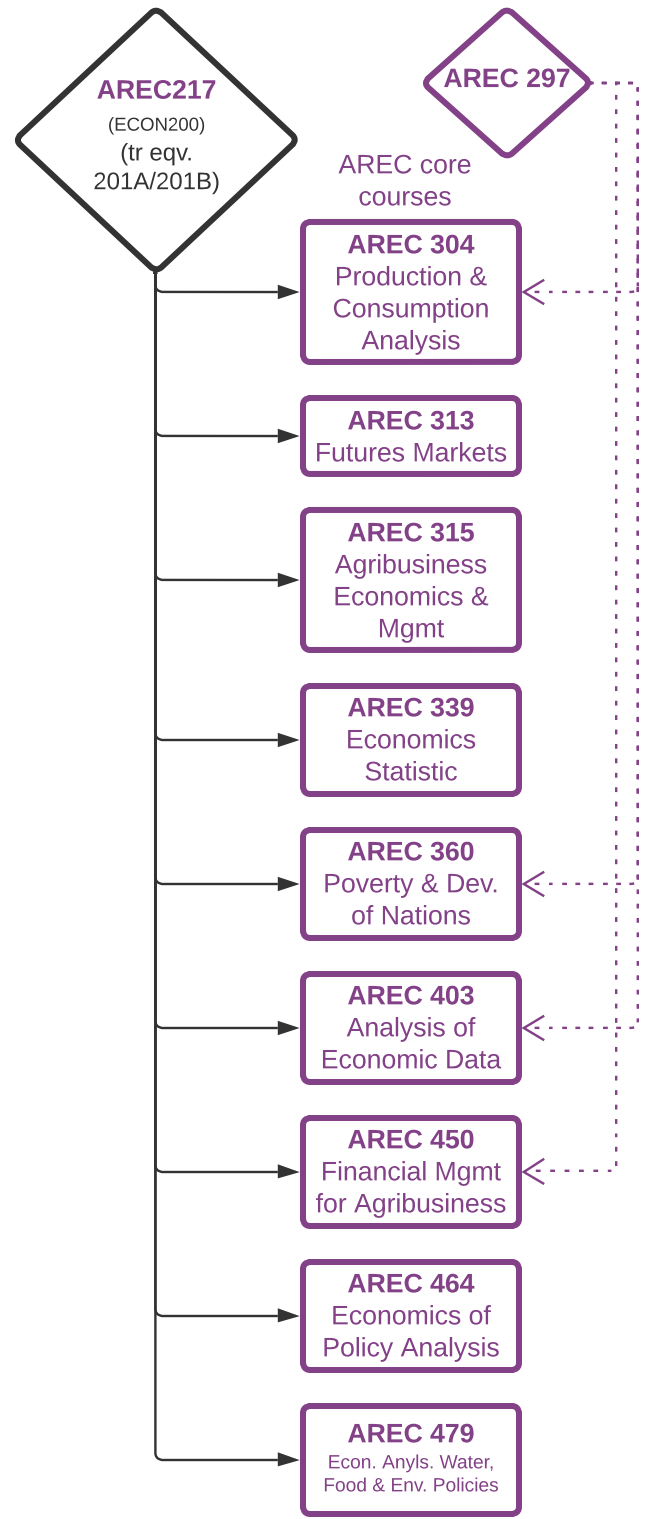
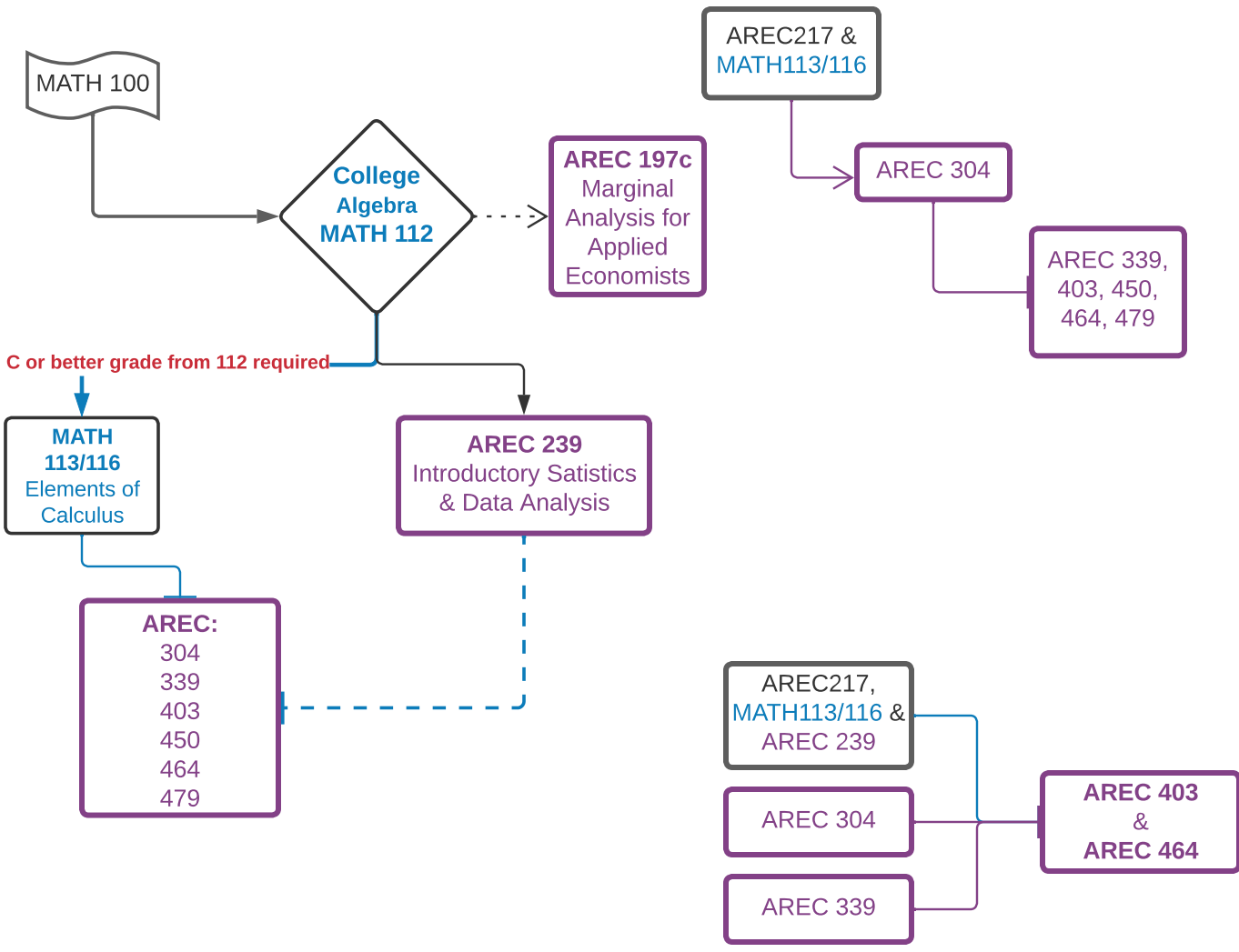
Agribusiness Management emphasis (ABEM-MGMT) (57 units + 9 BNAD minor units, & 20 elective units to each 120)		Agricultural Economics (ABEM-ECON) emphasis (57 units, minor optional/suggested, 29 additional elective units to reach 120)		Environmental & Water Resource Economics (EWRE) (68 units, minor suggested, 18 elective units to reach 120)	
<b>Required: AREC 297:</b> Excel Applications for Economic Analysis (1 unit)	<b>Required: AREC 217</b> Economics of Food & Agriculture: Sustainable Solutions for a Changing World (EP: Social Scientist)	<b>Required: AREC 297:</b> Excel Applications for Economic Analysis (1 unit)	<b>Required: AREC 217</b> Economics of Food & Agriculture: Sustainable Solutions for a Changing World (EP: Social Scientist)	<b>Required: AREC 297:</b> Excel Applications for Economic Analysis (1 unit)	<b>Required: AREC 217</b> Economics of Food and Agriculture: Sustainable Solutions for a Changing World (EP: Social Scientist)
<b>Required Supporting coursework (3):</b> ECON200, MIS111, ACCT200		<b>Supporting coursework (3):</b> ECON200, & BE120 or MIS111, & ACCT200		<b>Required pre-reqs (2):</b> ECON 200, & BE 120 or MIS 111	
<b>Required Math (3):</b> MATH112 & MATH113/116 & AREC 239- "Intro Statistics & Data Analysis" AREC197 suggested 1 unit, Marginal Anyls Applied Econ.	<b>Required Communication Skills (2):</b> Variety of course options from which to choose.	<b>Required Math (3):</b> MATH112 & MATH113/116 & AREC 239- "Intro Statistics & Data Analysis" AREC197 suggested 1 unit, Marginal Anyls Applied Econ.	<b>Required Communication Skills (2):</b> Variety of course options from which to choose.	<b>Required Math (3):</b> MATH112 & MATH113/116 & AREC 239- "Intro Statistics & Data Analysis" AREC197 suggested 1 unit, Marginal Anyls Applied Econ.	
<b>ABEM-MGMT Core Required (8):</b> Fall: AREC 304, AREC 313, AREC 315, AREC 339, & AREC 464 Spring: AREC 360, AREC 403, & AREC 450		<b>ABEM-ECON required core (6):</b> Fall: AREC 304, AREC 315, AREC 339, AREC 464 & Spring: AREC 403, AREC 479		<b>EWRE core &amp; concentration (7):</b> Fall: AREC 304, AREC 339, AREC 464 Spring: AREC 360, AREC 403, AREC 479 Variable: concentration course	
+		+		+	
<b>BNAD minor is required with this emphasis</b>		<b>Concentration courses (2):</b> 1 of 2 must be from AREC course subject: AREC313, AREC360, AREC365 & AREC450, the 2nd course may come from an alternate course list provided by ABEM academic advisor.		<b>Focus Area (FA)</b> <b>Required:</b> 21 units, from variety of course options	
ACCT 200, ECON 200 & MIS 111	BNAD 301, 302 & 303				



For diagram purposes only, not all degree requirements shown here. upd: 4/2023

**AREC flowchart of standard pre-reqs & core requirements for ABEM & EWRE**

- - - - - = suggested to take prior to AREC course
- \_\_\_\_\_ = required pre-requisite/course sequence



**Agribusiness Economics &  
Management major with Agribusiness  
Management emphasis (ABEM-  
MGMT) and required BNAD minor**

**2023+ ABEM-MGMT  
General 4 year plan**



COLLEGE OF AGRICULTURE & LIFE SCIENCES  
**Agricultural &  
Resource Economics**

Fall, Semester 1	
MATH 112, College Algebra	3
ENGL 1st semester composition	3
1st semester 2nd language	4
AREC 197c, Marginal Anlys for Economists	1
GE Core: EP or BC (BC: AREC150C)	3
GE Core: EP or BC	3
<b>Total semester units:</b>	<b>17</b>

Spring, Semester 2	
ENGL 2nd semester composition	3
2nd semester 2nd language	4
AREC217, EP Soc. Sci, ABEM reqmt	3
MIS 111, Spring only, req'd	3
GE Core: EP or BC	3
UNIV 101	1
<b>Total semester units:</b>	<b>17</b>

Fall, Semester 3	
MATH 113/116, calculus, req'd	3
ECON 200, req'd	3
GE Core: EP or BC (BC: AREC365)	3
GE Core: EP or BC	3
GE Core: EP or BC	3
<b>Total semester units:</b>	<b>15</b>

Spring, Semester 4	
AREC 239, Sp only, Intro Statistics & Data Analysis	4
AREC 297, Spring only, req'd	1
ACCT 200, Spring only, req'd	3
UNIV 301, reqmt	1
Communication skills course 1	3
elective towards 120 total units	3
<b>Total semester units:</b>	<b>15</b>

Fall, Semester 5	
AREC 304, req'd, Fall only	3
AREC 315, req'd, Fall only	3
AREC 339, req'd, Fall only	3
ACCT 210, req'd, Fall only	3
Elective, Upper division (UD)	3
Elective, to reach 120 total units, consider SBS311/411, AED295, ALC196a	1
<b>Total semester units:</b>	<b>16</b>

Spring, Semester 6	
AREC 360, req'd, Spring only	3
Communication skills course 2	3
BNAD minor, 301/302/303	3
BNAD minor, 301/302/303	3
Elective, UD	3
<b>Total semester units:</b>	<b>15</b>

Fall, Semester 7	
AREC 313, req'd, Fall only	3
AREC 464, req'd, Fall only	3
BNAD minor, 301/302/303	3
Elective, to reach 120 total units	3
Elective, to reach 120 total units	1
<b>Total semester units:</b>	<b>13</b>

Spring, Semester 8	
AREC 403, req'd, Spring only	3
AREC 450, req'd, Spring only	3
Elective, (UD)	3
Elective, to reach 120 total units	3
<b>Total semester units:</b>	<b>12</b>

**Agribusiness Economics & Management major with Agricultural Economics emphasis** 2023+ ABEM-ECON General 4-year plan



Fall, Semester 1	
MATH 112, College Algebra	3
ENGL 1st semester composition	3
1st semester 2nd language	4
AREC 197c, Marginal Anlys for Economists	1
GE Core: EP or BC (BC: AREC150C)	3
GE Core: EP or BC	3
Total semester units:	17

Spring, Semester 2	
ENGL 2nd semester composition	3
2nd semester 2nd language	4
AREC217, EP Soc. Sci, ABEM reqmt	3
MIS 111 or BE 120	3
GE Core: EP or BC	3
UNIV 101	1
Total semester units:	17

Fall, Semester 3	
MATH 113/116, calculus	3
ECON 200	3
GE Core: EP or BC (BC: AREC365)	3
GE Core: EP or BC	3
GE Core: EP or BC	3
Total semester units:	15

Spring, Semester 4	
AREC 239, Sp only, Intro Statistics & Data Analysis	4
AREC 297, Spring only	1
ACCT 200, Spring only	3
UNIV 301, reqmt	1
Communication skills course 1	3
minor or elective towards 120 total units	3
Total semester units:	15

Fall, Semester 5	
AREC 304, required, Fall only	3
AREC 315, required, Fall only	3
AREC 339, required, Fall only	3
ACCT 210, required, Fall only	3
Elective, Upper division (UD)	3
Elective, to reach 120 total units, consider SBS311/411, AED295, ALC196a	1
Total semester units:	16

Spring, Semester 6	
Concentration course: AREC 360 or 450, Spring only	3
Communication skills course 2	3
UD minor course or UD elective	3
UD minor course or UD elective	3
UD minor course or UD elective	3
Total semester units:	15

Fall, Semester 7	
concentration course: AREC 313 or 365, Fall only	3
AREC 464, required, Fall only	3
UD minor course or UD elective	3
Elective, to reach 120 total units	3
Elective, to reach 120 total units	1
Total semester units:	13

Spring, Semester 8	
AREC 403, required, Spring only	3
AREC 479, required, Spring only	3
UD minor course or UD elective	3
Elective, to reach 120 total units	3
Total semester units:	12

Alternate concentration course options for EWRE & Ag-Econ emphasis ABEM majors. Any not taken for the concentration area in the major can also be used as focus area courses for EWRE majors.

- **ACBS 411** Agriculture, Environmental and Legal Issues
- **ARC 461A** Water Efficiency in Buildings
- **AREC 365** Food Economy & Efficiencies (Fall only)
- **ENVS 450** Green Infrastructure
- **ENVS 482** Reclamation and Redevelopment of Impacted Lands
- **GEOG 302** Introduction to Sustainable Development
- **GEOG 304** Water, Environment, and Society
- **GEOG 305** Economic Geography
- **GEOG 330** Intro to Remote Sensing
- **GEOG 368** The Green Economy
- **GEOG 370** Geography of International Development
- **GEOG 371** Principles and Practices of Regional Development
- **GEOG 379** Urban Growth and Development
- **GEOG 497S** Sustainable Urban Development and Design
- **GEOG/RNR 403** Applications of Geographic Information Systems
- **GEOG 416F** GIS for the Social Sciences
- **GEOG/GIST/RNR 417** Geographic Information Systems for Natural & Social Sciences
- **GEOG/RNR 422** Resource Mapping Using Unmanned Aircraft Systems
- **GEOG 430** The Climate System (Pre-requisites are GEOG 230 OR ATMO 336)
- **GEOG 471** Problems in Regional Development
- **GEOG 476** The Land Development Process
- **GEOG 497F** Community and School Garden Workshop (2-6 units)
- **HIST 442** Natural Res & the Law in the Spanish Borderlands of N.A.
- **PA 323** Environmental Ethics
- **PA 484** Environmental Mgmt. (if offered in Spring semesters, and seats available after Nov. 30, enrollment is allowed per P.A. dept.)
- **RNR 316** Natural Res. Ecology (pre-reqs ECOL 182R/L & RNR230)
- **RNR 321** Ecological Surveys and Sampling (pre-req intro stats)
- **RNR 340** Conservation and Agriculture in the Southwest
- **RNR 384** Natural Resources Management Practices
- **RNR 429** Ecological Climatology
- **RNR 440** Perspectives Nexus of Science, Society, & Res. Mgmt.
- **RNR 441A** Natural Resource Management in Native Communities
- **RNR 448** Conservation Planning & Wildland Recreation
- **RNR 458** Ecosystem Ecology & Sustainable Future (pre-req RNR 316 or ECOL 302)
- **RNR 473** Spatial Analysis & Modeling (pre-reqs RNR 417 & stats course)
- **RNR 480** Natural Resources Policy and Law
- **RNR 485** The Economics & Social Connections to Natural Resources
- **WSM 468** Wildland Water Quality