

Geography, Environment, and Planning  
New program options

3/30/2021

# New program options for students\*

- As part of the new curriculum, future students will enroll in one of two new degree options
- All current students are entitled to remain in the BA of Geography and Environment program with their current concentrations/requirements.

- Students may choose to re-declare in one of the two new degree options

\*Both degrees are contingent on final program authorization from the CSU Chancellor's Office

- Bachelor of Arts in Environmental Studies, Geography, and Planning

Or

- Bachelor of Science in Environmental Science, Geography, and Management

\*\* Students with greater than 90 units completed should consult with their academic advisor

# New program options for students

Bachelor of Arts in  
Environmental Studies,  
Geography, and Planning

**Mostly similar to the current BA in Geography and Environment with a new name, some changes in the upper division curriculum**

Bachelor of Science in  
Environmental Science  
Geography, and Management

**New BS option for all interests... currently a BS is only available for Energy Management and Design students**

Both degrees are contingent on final program authorization from the CSU Chancellor's Office

**Both BA/BS allow for more upper division diversification in classes than currently allowed  
(However, you can specialize as much as you want)**

<b>Comparison of current and new BA and new BS options</b>	<b>Current BA in Geography and Environment</b>	<b>New Option** BA in Environmental Studies, Geography, and Planning</b>	<b>New Option** BS in Environmental Science, Geography, and Management</b>
<b>Foundation (in GEP, mostly lower division)</b>	4 courses	4 courses (unchanged)	4 courses (unchanged)
<b>Lower division outside of GEP</b>	None	None	3 courses/10 units of Math, Biology, Physics, Chemistry, Computer Science
<b>Breadth (in GEP, upper division)</b>	4 courses, 10 options	4 courses, 10 options (1 changed option)	4 courses, 10 options (1 changed option)
<b>Upper Division major courses (in GEP, in addition to breadth)</b>	16-21 units of concentration courses (courses in your concentration only)*	21 units of electives (courses in any topic, so long as 3 classes in one “focus area”)	21 units of electives (courses in any topic, so long as 3 classes in one “focus area”)
<b>Practical Experience/ Professional Preparation (in GEP)</b>	310 (2 units) + 0-4 more units practical experience	310 (2 units) + 311 (1 unit) + 2 more units (practical experience [5 minimum])	310 (2 units) + 311 (1 unit) + 2 more units (practical experience [5 minimum])
<b>Related courses outside GEP</b>	6-16 units*	3 units	6 units
<b>TOTAL UNITS</b>	<b>56-59 units*</b>	<b>55 units</b>	<b>68 units</b>

\*Varies by concentration

\*\* Contingent on final program authorization from the CSU Chancellor’s Office

# Detailed differences: Current BA vs new BA/BS

Foundation (in GEP, mostly lower division)	Current BA in Geography and Environment	New Option** BA in Environmental Studies, Geography, and Planning	New Option** BS in Environmental Science, Geography, and Management
	201: Global Env. Systems  202: Quantitative Methods  203, 205, or 206  215: GEP Forum	201: Global Env. Systems  280: Foundations in Environ. Data and Analysis (202 re-named/numbered)  203, 206, or 305/306  211: GEP Forum (215 re-numbered)	201: Global Env. Systems  280: Foundations in Environ. Data and Analysis (202 re-named/numbered)  203, 206, or 305/306  211: GEP Forum (215 re-numbered)
<b>TOTAL UNITS</b>	11 units	11 units	11 units

## Foundation: no significant differences

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# Detailed differences: Current BA vs new BA/BS

Natural and Data Science Foundation (lower division outside GEP)	Current BA in Geography and Environment	New Option** BA in Environmental Studies, Geography, and Planning	New Option** BS in Environmental Science, Geography, and Management
	None	None	Choose 3 from at least 2 categories <u>Biological Science Theme</u> BIOL 130, 131  <u>Physical Science Theme</u> CHEM 110 or 115A CHEM 115B PHYS 114 or 210A PHYS 214 or 210B  <u>Data Science Theme</u> CS 115
<b>TOTAL UNITS</b>	0 units	0 units	10 units

**Foundation: BS requires LD support courses**

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# Detailed differences: Current BA vs new BA/BS

Breadth (in GEP, upper division)	Current BA in Geography and Environment	New Option** BA in Environmental Studies, Geography, and Planning	New Option** BS in Environmental Science, Geography, and Management
<b>Society, Environment, and Development</b>	320: Geopolitics* 324: Climate Change and Society 330: Environmental History	<b>325: Global Food Systems</b> 324: Climate Change and Society 330: Environmental History	<b>325: Global Food Systems</b> 324: Climate Change and Society 330: Environmental History
<b>Environmental Systems</b>	340: Applied Ecology 351: Natural hazards 355: Weather and Climate	340: Applied Ecology 351: Natural hazards 355: Weather and Climate	340: Applied Ecology 351: Natural hazards 355: Weather and Climate
<b>Sustainable Communities</b>	360: Intro to Planning 370: Globalization & The City 373: Energy, Tech, Society	360: Intro to Planning 370: Globalization & The City 373: Energy, Tech, Society	360: Intro to Planning 370: Globalization & The City 373: Energy, Tech, Society
<b>Geospatial Analysis</b>	387: Intro to GIS	387: Intro to GIS	387: Intro to GIS
<b>TOTAL UNITS</b>	14-16 units	15 units	15 units

\*In the new plan geopolitics will count as an elective not a breadth

## UD Breadth: no significant differences

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# Detailed differences: Current BA vs new BA/BS

Professional Preparation and Practical Experience	Current BA in Geography and Environment	New Option** BA in Environmental Studies, Geography, and Planning	New Option** BS in Environmental Science, Geography, and Management
	<p><b>Required</b> 310: Professional Development (2 units)</p> <p><b>Additional 0-4 units* from</b> 317: Internship 312: Professional Conferences 313: Field Experience</p> <p>*Depends on how many units you took in the breadth and your concentration</p>	<p><b>Required</b> 310: Professional Development (2 units) <b>311: Research Colloquium (1 unit)</b></p> <p><b>Additional 2 units from</b> 317: Internship 312: Professional Conferences 313: Field Experience <b>316: Research Assistant</b> <b>201B: Global Env. Systems lab</b> <b>318: Agroecology in Practice</b> <b>319: Native Plant... in Practice</b></p>	<p><b>Required</b> 310: Professional Development (2 units) <b>311: Research Colloquium (1 unit)</b></p> <p><b>Additional 2 units from</b> 317: Internship 312: Professional Conferences 313: Field Experience <b>316: Research Assistant</b> <b>201B: Global Env. Systems lab</b> <b>318: Agroecology in Practice</b> <b>319: Native Plant... in Practice</b></p>
<b>TOTAL UNITS</b>	2-6 units	5 units	5 units

## Prof Prep & Exp: req course and units

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# Detailed differences: Current BA vs new BA/BS

Supporting courses outside of GEP	Current BA in Geography and Environment	New Option** BA in Environmental Studies, Geography, and Planning	New Option** BS in Environmental Science, Geography, and Management
	<p><b>“Supporting courses”</b> SED concentration: 6+ units</p> <p>ES concentration: 12+ units, including BIOL 131</p> <p>GAT concentration: 16+ units including CS 115</p> <p>SC concentration: 6+ units</p> <p>PSC concentration: 6+ units</p> <p><i>Each concentration has separate list of eligible courses</i></p>	<p><b>“Supporting courses”</b> ANTH 328, 345, 352, or 358 BIOL 131 or 312 CAL S 432 or 480 CS 115 GEOL 303, 306, 310, or 323 HIST 471 POLS 314 or 452 SOCI 382, 384, 425, or 482</p> <p><i>Everyone works off same list</i></p>	<p><b>“Natural and Data Science Electives outside GEP”</b> <u>Biological Science Theme</u> BIOL 314, 322, 323, 324, 327, 329, 330, 332, 333, 334, 335, 337, 338, 341, or 351</p> <p><u>Physical Science Theme</u> CHEM 300, 335A, 336A GEOL 303, 310, 323</p> <p><u>Data Science Theme</u> ANTH 328, BIOL 485, ECON 317, ES 314, MATH 161, PHYS 381 CS 210, 215, 355, 370, 386</p>
<b>TOTAL UNITS</b>	6-16 units	3 units	6 units (in appropriate area)

## Support: Differences

\*\* Contingent on final program authorization from the CSU Chancellor’s Office

# Upper Division GEP Electives

- Foci instead of Concentrations
  - 21 units of electives
  - courses in any topic, so long as 3 classes in one “focus area”
- Capstone
  - Must take a 400 level capstone during junior or senior year.
    - Can take more than one capstone

# New BA<sup>\*\*</sup>: Five Focus Areas and Electives

Society, Environment, and Development	Urban Studies and Planning	Environmental Systems	Energy Management and Design	Geospatial Analysis
320: Geopolitics 323: Resource Mngmt. and Devel. Global Pers. 324: Climate Change and Society 325: Global Food Systems <b>333: Natural Resource Planning</b> 335: US Environmental Policy 336: Environmental Law 337: Landscape History of the American West	360: Intro to Planning 362: Environmental Impact Assessment 367: Transportation Policy and Technology 368: Urban Design 370: Globalization and the City 371: Social Geography of the American City	340: Applied Ecology 343: Biogeography 344: Field Methods 345: Lab Methods 346: Restoration Ecology 350: Geomorphology 351: Natural Hazards 352: Soil Science 354: Watershed Hydrology/Management 355: Weather and Climate	373: Energy, Technology, and Society <b>374a: Strategies for Carbon and Energy Reductions</b> <b>374b: Lab Methods for Energy</b> <b>375: Renewable and Resilient Energy Sources</b>	380: Environmental Remote Sensing 385: Cartographic Visualization 388: Environmental GIS
<b>Capstone and associated focus areas. Note Capstones can be taken from any foci</b>				
<b>422: Globalization and Environments</b> <b>431: Restoration/Society</b> <b>490/491: Global Capstone</b>	<b>461: Planning Practice and Methodology</b>	<b>452: Conservation Biology</b> <b>456: Global Climate Change</b>	<b>476: Energy Services and Efficiency</b>	<b>486: Environmental Data Analysis</b> <b>489: Advanced GIS</b>

Red: New or re-numbered courses

\*\* Contingent on final program authorization from the CSU Chancellor's Office

# New BS\*\* : Four Focus Areas and Electives

Environmental Management and Policy	Environmental Systems	Energy Management and Design	Geospatial Science
323: Resource Management and Development in Global Prspctve. 324: Climate Change and Society 325: Global Food Systems <b>333: Natural Resource Planning</b> 335: US Environmental Policy 336: Environmental Law 337: Landscape History of the American West 360: Intro to Planning 362: Environmental Impact Assessment 367: Transportation Policy and Technology 368: Urban Design	340: Applied Ecology 343: Biogeography 344: Field Methods 345: Lab Methods 346: Restoration Ecology 350: Geomorphology 351: Natural Hazards 352: Soil Science 354: Watershed Hydrology/Management 355: Weather and Climate	373: Energy, Technology, and Society <b>374a: Strategies for Carbon and Energy Reductions</b> <b>374b: Lab Methods for Energy</b> <b>375: Renewable and Resilient Energy Sources</b>	380: Environmental Remote Sensing 385: Cartographic Visualization 388: Environmental GIS
<b>Capstone and associated focus areas. Note Capstones can be taken from any foci</b>			
<b>422: Globalization and Environments</b> <b>431: Restoration/Society</b>	<b>452: Conservation Biology</b> <b>456: Global Climate Change</b>	<b>476: Energy Services and Efficiency</b>	<b>486: Environmental Data Analysis</b> <b>489: Advanced GIS</b>

Red: New or re-numbered courses

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**Should I switch from the  
current BA to new BA or BS?**

**You don't have to but you can if you want to.  
Some considerations follow...**

# Should I switch from the current BA to new BA or BS?

- **Branding**

- New BA leads with Environment and includes word planning
- New BS leads with Environment and includes the word science

- **Flexibility**

- All courses are now open to all majors (subject to pre-requisites)
- More or less specialization you decide...
  - This allows you the ability to tailor to your career interests

# How do I declare in a new degree program?

- The “paperwork” for this can not happen until the

**FALL**

- We will have further advising workshops and “paperwork” processing in the Fall

# Summary

## New programs

Contingent on final program authorization from the CSU Chancellor's Office  
(New students and those who choose to re-declare)

### Current program

Bachelor of Arts in  
Geography and  
Environment

Current students are  
entitled to and by default  
will remain in the current  
BA with your current  
concentrations

Bachelor of Arts in  
Environmental Studies,  
Geography, and  
Planning

Mostly similar to current  
BA, more flexible,  
no concentrations,  
re-named

Bachelor of Science in  
Environmental Science,  
Geography, and  
Management

New BS option

<http://gep.sonoma.edu/degree-programs>