

Building the Sustainability Minor at NMSU

David Boje, Coordinator for Greening the Curriculum Presidents Fund project

THE MATRIX of Tracks in Sustainability Minor

Environmental Protection	Economic Prosperity and	Equity and Social Well Being		
and Resource Conservation	Continuity			
TRACK 1: SUSTAINABLE DEVELOPMENT				
Note: This is already a supplementary major and minor,				
housed in Anthropology Department				
AGHE 380G Ecosystem Earth	AG E 315V World Agriculture	SOC 465G Environmental		
	and Food Problems	Sociology		
GEOG 295 Introduction to Climate Science	AG E 337G Natural Resource	GOVT 424 Environmental		
	Economics	Policy		
BIO 461 Human Ecology	AG E 348G Water Resource	ANTH 362 Environmental		
	Economics	Anthropology		
BIO 462 Conservation Biology	AGRO 483 Sustainable	GEOG 464 Land Use and Land		
Dio 102 conservation biology	Production of Agronomic Crops	Rent		
BIO 301 Principles of Ecology	ANTH 360 Food & Culture	WSLC Principles of Natural		
bio 301 i filicipies of Leology	Around the World	Resource Management		
WSLC Systems Ecology	GEOG 362 Geography of			
	International Development			
	GOVT 447 Sociology of			
	Development			
	AINABLE SCIENCE, ENGINEERING			
Note: This is a proposed track, and no courses are listed until they are vetted by the				
Coordinator	with the responsible Departmen	ts and Faculty		
TRACK 3: To be determined,	but perhaps tailored to Agricult	ure, Economics and Business		
Note: We are leaving the name and the courses, their Departments open until it can be vetted				
by the Coordinator going and working with each Department and their Faculty				



Our Request



- Track 1 already underway in Anthropology Department
- We would like to phase in the other two tracks



MILESTONES in Contract with Presidents Excellence Fund





- June 2014 Establish interdisciplinary undergraduate minor in sustainability
- June 2014 Establish database of sustainability courses and prerequisites
- Oct 2014 Use database to evaluate dept, course and student engagement
- Implement marketing Dec 2014 campaign
- June 2015 Establish graduate certificate in sustainability



Table 1: Measures/Targets for Greening the Curriculum @ NMSU

Measures/ Targets	Dec 2014	Dec 2015	Dec 2016
Departments participating in sustainability programs	Set baseline database	+5%	+10%
Sustainability program enrollment diversity Female	Set baseline database	+3%	+5%
Sustainability program enrollment diversity Hispanic (& others TBD)	Set baseline database	+2%	+5%
Courses with international sustainability service and outreach components	Set baseline database	10%	15%
Courses with Energy savings Projects	Set baseline database	+5%	+10%
Estimated savings of those projects	Set baseline database	\$20,000	\$40,000
Courses with sustainability projects	Set baseline database	+10%	+15%
Faculty with sustainability related donations, grants and contracts	Set baseline database	+10%	+15%
Sustainability related jobs found by students	N/A (set baseline database	+5%	+10%

Table 2: 7 Vision 2020 Goals and SUSTAINABILITY MINOR outcomes & measures			
 Graduation - Teaching, Learning & Programs - Provide effective academic programs, stellar teaching and learning, and enhanced student engagement to advance highly capable graduates 	Increases in enrollment from 1426 out of 9551 graduating students, between 2009 and 2012; Increases from the current course offerings; Move from 43 to more of the 52 departments participating with course offerings.		
Diversity – Be a model of student, faculty and staff diversity at all levels	Diversity enrollment increases. NMSU has 45% Hispanic enrollment, which we intend to increase in this program. About 3% of enrollment on campus is Native American		
3. Internationalization - Effectively prepare students for a global society	International measure is increases in course projects that focus on international cases and service projects. Talloires Declaration item 9 is to broaden service and outreach of sustainability both nationally and internationally		
4. Research & Creative Activity Be the catalyst for promoting discovery, encouraging innovation, sparking economic advancement, and inspiring creative achievement	Measure is number of these energy saving projects, and secondly their estimate dollar savings to NMSU and its communities		
5. Economic Development Be a driving force for economic progress in New Mexico	We will assess number of projects in courses students are taking as part of Sustainability minor.		
6. Resource Stewardship Increase philanthropy and alternative revenue to support teaching, research and service	Alumni donations specifically for sustainability efforts to support teaching, research, and service. Currently 106/694 (15%) faculty are doing grants and research related to sustainability		
7. Community - Service, Extension & Outreach Be a model for community engagement at all levels through innovative and exceptional outreach activity	This is measured by students picking sustainability careers. Part of our project is to work with advising across the campus, so counselors have access to sustainability careers.		

FIGURE 1 - SPIRAL of Development of the NMSU Minor in Sustainability





- 1. Diagnosis by Steering Committee
- 2. Project Planning with Departments
- 3. Implementation of STARS
- 4. Evaluation of all activities



Green Leaf on Course Schedule



14 Feb complete meetings w/ most Ag College departments \$ 17 Feb NMSU Foundation Fund Acct for S-Minor



10 Feb LEAF on 50 courses in NMSU Schedule

D-P-I-E loop #1

Measures Databases are in place w/ OIA help

21 Feb

3 Feb complete meetings w/ Business College departments 28 Feb meetings completed TRACK 3 departments

By 24Jan meet & agreement w/
Anthropology on TRACK 1 STARS
Audit, Foundation 13Jan2014 fund # Get Agreem

13Jan2014
Get Agreements
w/ President's
Excellence Fund,
ADAC, & OIA

NMSU Gold Star Rating, SUSTAINABILITY Nov 30 2012



\$ 31 Mar NMSU
Foundation Fund Acct
for S-scholarships

1 April Teaching Academy Session: How to make your course Sustainability-Related

4 April Teaching
Academy Session: How
to make your course
Sustainability-Focused

24-28 Mar SPRING BREAK

D-P-I-E loop #2

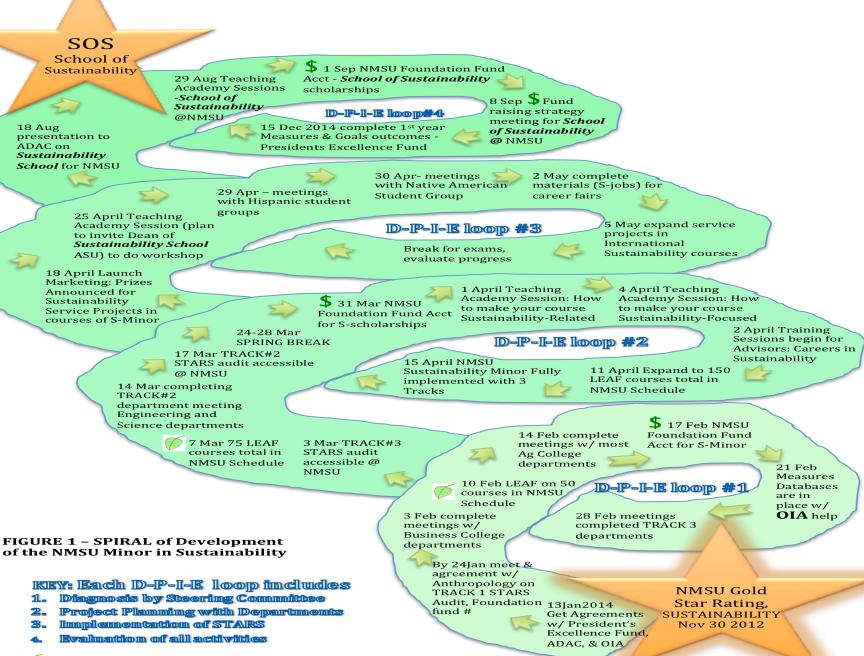
17 Mar TRACK#2 STARS audit accessible @ NMSU

15 April NMSU Sustainability Minor Fully implemented with 3 Tracks 2 April Training
Sessions begin for
Advisors: Careers in
Sustainability

14 Mar completing TRACK#2 department meeting Engineering and Science departments 11 April Expand to 150 LEAF courses total in NMSU Schedule

7 Mar 75 LEAF courses total in NMSU Schedule 3 Mar TRACK#3 STARS audit accessible @ NMSU





Green Leaf on Course Schedule

Thank you

Please provide any suggestions, innovations, or schedule meetings to discuss Sustainability Minor @ NMSU with coordinator, David Boje





