

AGRICULTURE, COMMUNITY AND NATURAL RESOURCES

ASSESSMENT OF STUDENT LEARNING OUTCOMES

MISSION STATEMENT

The mission of the Agriculture Community and Natural Resources Department of the American Samoa Community College is to provide educational services in general agriculture, agribusiness, family and consumer sciences, and natural resources management. ACNR currently offers Associate of Science Degree programs in these areas. Courses are designed to serve both full-time and part-time students including those who may wish to transfer to four year institutions. The department strives to provide a solid educational foundation that will enable students to succeed in their academic and career goals.

PROGRAM SLOs

Upon completion of a degree program, students will be able to:

- Describe different career opportunities in Agriculture Community and Natural Resources
- Explain the importance of Agriculture Community and Natural Resources to the Samoan culture and the environment of American Samoa
- Utilize tools and technology of their degree program
- Apply the scientific, social and economic principles related to their degree program
- Demonstrate college-level written and oral communication.

PROGRAM OVERVIEW

- **Four Associate of Science Degree Programs:**
 - General Agriculture
 - Natural Resources
 - Agribusiness
 - Family and Consumer Sciences

- **Department offers 15 Active Courses**
- **Other Department Courses 18**
- **Three (3) Full-Time Faculty Members**

PROGRAM OVERVIEW cont'd

- **Courses Assessed: 9 60%**
 - AGE 150
 - AGR 100 I
 - AGR 100 II
 - AGR 197
 - NRS 200
 - NRS 250
 - AGR 250, - ANS 150 A, - AGR 152
- **2009 Fall Courses to be assessed: 2 13%**
 - ANS 150 B, NRS 180,
 - ANS 150 A, AGR 100 II, AGR 152 (continue)

PROGRAM OVERVIEW cont'd

- 2009 Spring Courses to be assessed: 3 20%
 - NUT 150, FAM 250, FAM 260
- 2009 Summer Course to be assessed: 1 7%
 - AGR 297
- Scholarship Program:

(I)	2006 Summer Institute	21
	2007 Summer Institute	14
	2008 Summer Institute	25
	2009 Summer Institute	<u>13</u>
		73

PROGRAM OVERVIEW cont'd

– 2009 Spring 5

78

– (II) Off island 2008 5

83

- **Internship Programs:**

- 2009 One Student (University of Puerto Rico)

- One Student (University of Hawaii, Hilo)

- Two Students (UH Hilo)

- 2008 One Students (Colorado Bio-Lab)

PROGRAM OVERVIEW cont'd

- **Computer-Lab with 10 computers**
- **Enrollment by Degree Program**
 - General Agriculture - 57
 - Natural Resources - 16
 - Agribusiness - 9
 - Family & Consumer Science - 28

Scheduling History

COURSES	Spring '07	Summer '07	Fall '07	Spring '08	Summer '08	Fall '08	Spring '09	Summer '09	Fall '09
AGE 150	√			√			√		
AGR 100 I		√			√			√	
AGR 100 II	√		√	√		√	√		√
AGR 152			√			√			√
AGR 197	√			√			√		√
AGR 250	√			√			√		
AGR 297		√						canceled	
ANS 150 A			√			√			√
ANS 150 B			√			√			√
FAM 250	√			Canceled			Canceled		
FAM 260	√			Canceled			Canceled		
NRS 180			√			√			√
NRS 200	√			√			√		
NRS 250	√		√			√		√	
NUT 150	√	√		√			√		

Articulation

COURSES	COLLEGES/ UNIVERSITIES	VOCATIONAL/ TECHNICAL INSTITUTE	PROFESSIONAL DEVELOPMENT	OTHERS
AGE 150	√			
AGR 100 I	√			
AGR 100 II	√			
AGR 152	√			
AGR 197	√			
AGR 250	√	Curriculum currently under reviewed by Dr. Steiner, UHHilo, CAFNM		
AGR 297	√			
ANS 150 A	√		√	
ANS 150 B	√		√	
FAM 250	√			
FAM 260	√			
NRS 180	√			
NRS 200	√			
NRS 250	√			
NUT 150	√		√	

ACADEMIC FOCUS

COURSES	PROGRAM CORE	GENERAL EDUCATION	ELECTIVE	REMEDIAL
AGE 150	√			
AGR 100 I	√			
AGR 100 II	√			
AGR 152	√			
AGR 197	√			
AGR 250	√	√		
AGR 297	√			
ANS 150 A	√	√		
ANS 150 B	√	√		
FAM 250	√			
FAM 260	√			
NRS 180	√			
NRS 200	√			
NRS 250	√			
NUT 150	√			

ENROLLMENT REQUIREMENT

COURSES	OPEN ENROLLMENT	SPECIAL ENTRANCE REQUIREMENTS/PRE-REQUISITES	REMEDIAL MATH/REMEDIAL ENGLISH
AGE 150			ENG 80
AGR 100 I	√		
AGR 100 II	√		
AGR 152			ENG 70
AGR 197		4 CREDIT BIOLOGY COURSE	
AGR 250		BIOLOGY 180	
AGR /MSC 297		AGR/MSC 197	
ANS 150 A			ENG 70
ANS 150 B		ANS 150 A	
FAM 250		ENG 150, MATH 155	
FAM 260		ENG 150, PSY 150	
NRS 180		BIO 180	
NRS 200		NRS 180, MSC 160	
NRS 250		MSC 160, BIO 180, ENG 151	
NUT 150			ENG 90

STUDENT TRACKING

DEGREE PROGRAM	COLLEGE/UNIVERSITY	VOCATIONAL/TRADES/ INSTITUTES	EMPLOYMENT	OTHERS
AS Degree in General Agriculture	1 MS UHM 1 BS UHH		26	
AS Degree in Natural Resources	1 BS OSU		7	
AS Degree in Agribusiness			1	
AS Degree in Family & Consumer Sciences			1	
OTHER BIOLOGY MAJORS	2 BS UHM			
	1 BS CHAMINADE			

1) Has the Agriculture, Community and Natural Resources defined the expected Student Learning Outcomes? Yes

- All fifteen (15) courses have Program SLOs aligned with Institutional SLOs and Course LOs
- All fifteen (15) courses have these components for the next catalog 2010 - 2012

2) Has the Agriculture, Community and Natural Resources defined Assessment of expected Student Learning Outcomes? **YES**

- All 15 Courses have methods in place to assess SLOs with reference to ***Communication, Life and Job Skills***

ASSESSMENT METHODS

Courses	Tests/Exams	Quizzes	Homework	Rubrics	Portfolio	Special Projects	Others (Specify)
AGE 150	X	X	X	X		X	Research Paper
AGR 100 I				X	X	X	Report
AGR 100 II				X	X	X	Report
AGR 152	X	X	X	X		X	Term paper
AGR 197	X	X		X	X	X	Report
AGR 250	X	X	X	X		X	Report
AGR 297	X			X	X	X	Report
ANS 150 A	X	X	X	X			Term Paper
ANS 150 B	X		X	X		X	Report
FAM 250	X	X	X				Research Paper
FAM 260	X	X	X				Research Paper
NRS 180	X	X	X	X		X	Report
NRS 200	X	X	X	X		X	Research Paper
NRS 250	X	X		X		X	Report
NUT 150	X	X	X	X		X	Term Paper

3) Has the **Agriculture, Community and Natural Resources** assessed Student Learning Outcomes for all Courses? **No**

- **Courses Assessed: 60%**
- **Courses to be Assessed this fall: 13%**
- **Courses to be Assessed in Spring 2010: 20%**
- **Courses to be Assessed in Summer 2010: 7%**

COURSE ALIGNMENT WITH STUDENT LEARNING OUTCOMES

Courses	COMMUNICATION SKILLS				JOB SKILLS			LIFE SKILLS			Technology
	Speaking	Writing	Reading	Listening	Transferable	Adaptive	Job Specific	Personal Responsibility	Respect & Diversity	Problem Solving	
AGE 150	✓	✓			–	–	–	–	–	–	–
AGR 100 I	✓	✓			✓	✓	✓	✓	✓	✓	✓
AGR 100 II	✓	✓			✓	✓	✓	✓	✓	✓	✓
AGR 152	✓	✓			+	+	+	+	+	+	+
AGR 197	–	–			✓	✓	✓	✓	✓	✓	✓
AGR 250	✓	–			–	–	–	–	–	–	–
AGR 297	X	X			X	X	X	X	X	X	X
ANS 150 A	✓	+			+	+	+	+	+	+	+
ANS 150 B	+	+			+	+	+	+	+	+	+
FAM 250	–	–			–	–	–	–	–	–	–
FAM 260	–	–			–	–	–	–	–	–	–
NRS 180	+	+			+	+	+	+	+	+	+
NRS 200	✓	–			✓	✓	✓	✓	✓	✓	✓
NRS 250	–	–			✓	✓	✓	✓	✓	✓	✓
NUT 150	–	–			–	–	–	–	–	–	–

Already assessed:

To be assessed Fall '09:

To be assessed Spring 2010:

To be assessed Summer 2010:

4) Has the **Agriculture, Community and Natural Resources** Analyzed the Results of Student Learning Outcome Assessment?

Yes

- The Analysis has shown average summaries of 9 courses already assessed
- The analysis has also revealed specific elements of each course already assessed for future improvements

COURSE ASSESSMENT

RUBRIC: Individual Presentation

SLO Domain: Communication Skills

CRITERIA	AGE ₁₅₀ SPR '08 (score 4.0) MEAN	AGE ₁₅₀ SPR '09 (score 4.0) MEAN	NRS ₂₀₀ SPR '09 (Score 4.0) MEAN	AGR ₁₉₇ SPR '09 (Score 4.0) MEAN	AGR ₂₅₀ SPR '09 (Score 4.0) MEAN	AGR ₁₅₂ FALL '08 (score 3.0) MEAN	ANS _{150 A} FALL '08 (score 8.0) MEAN
Organiza- tion	3.5 = 88%	4.0 = 100%	3.2 = 80%	3.0 = 75%	3.5 = 88%	2.2 = 73%	5.6 = 70%
Subject Knowledge	3.5 = 88%	3.5 = 88%	3.2 = 80%	4.0 = 100%	3.5 = 85%	2.2 = 73%	5.7 = 71%
Graphics	3.5 = 88%	4.0 = 100%	2.8 = 70%	4.0 = 100%	3.2 = 80%	2.1 = 70%	5.6 = 70%
Mechanics	3.5 = 88%	4.0 = 100%	2.0 = 50%	3.0 = 75%	3.0 = 75%	1.8 = 60%	5.4 = 68%
Eye Contact	3.5 = 88%	3.4 = 85%	3.2 = 80%	4.0 = 100%	3.5 = 88%	2.3 = 77%	6.5 = 81%
Elocution	3.5 = 88%	3.6 = 90%	2.8 = 70%	3.5 = 88%	3.7 = 93%	1.9 = 63%	6.0 = 75%

COURSE ASSESSMENT
RUBRIC: Project
SLO Domain: Job Skills

CRITERIA	AGR 100 II Spring '09 (T Elisara) (Tot Score: 4.0) MEAN	AGR 100 I Summer '09 (T Elisara) (Tot Score 3.0) MEAN	AGR 100 I Summer '09 (I Fa'asavalu) (Tot Score 3.0) MEAN	NRS 200 SPRING '09 (T Elisara) (Tot Score: 3.0) MEAN	NRS 250 SUMMER '09 (T Elisara) (Tot Score: 3.0) MEAN
Helping	2.5 = 63%	2.6 = 87%	2.7 = 90%	2.3 = 77%	2.0 = 67%
Communicating	2.0 = 50%	2.2 = 73%	2.4 = 80%	2.0 = 67%	2.0 = 67%
Stay on Task	2.4 = 60%	2.4 = 80%	2.3 = 77%	2.5 = 83%	2.0 = 67%
Participating	2.2 = 55%	2.5 = 83%	2.7 = 90%	2.0 = 67%	2.0 = 67%
Following Directions	1.9 = 48%	2.6 = 87%	2.9 = 97%	2.5 = 83%	3.0 = 100%
Following Safety Procedures	2.5 = 63%	2.8 = 93%	2.6 = 87%	2.5 = 83%	3.0 = 100%
Dependability	1.9 = 48%	2.3 = 77%	2.9 = 97%	2.0 = 67%	2.0 = 67%
Quality of Work	1.7 = 43%	2.0 = 67%			3.0 = 100%
Understand Process Project Product	1.9 = 48%	2.7 = 90%	3.0 = 100%	2.3 = 77%	3.0 = 100%
Appropriate Use of Tool	2.4 = 60%	2.8 = 93%	2.6 = 87%	2.5 = 83%	3.0 = 100%

COURSE ASSESSMENT

RUBRIC: Research Paper

SLO Domain: Communication Skills

Mr. Aufa'l R Areta CRITERIA	AGE 150 SPRING '09 MEAN (4.0)	LEVEL OF STUDENT PERFORMANCE SCORES = STUDENTS %
Statement of the Thesis	4.0 = 100%	4.0 = 100%
Content	3.4 = 85%	4.0 = 40% 3.5 = 10% 3.0 = 40% 2.5 = 10%
Organization	3.4 = 85%	4.0 = 40% 3.5 = 10% 3.0 = 50%
Language & Structure	3.0 = 75%	3.5 = 50% 3.0 = 10% 2.5 = 40%
Resources	3.0 = 75%	4.0 = 20% 3.5 = 40% 3.0 = 30% 2.5 = 10%

COURSE ASSESSMENT

RUBRIC: *Term Paper*

SLO Domain: *Communication Skills*

T Elisara CRITERIA	NRS 200 SPRING '09 MEAN SCORES (4.0)	LEVEL OF STUDENT PERFORMANCE SCORES = STUDENT %		
Mechanical (Sentence Level)	2.6 = 65%	4.0 = 17%	3.0 = 67%	0.0 = 16%
Clarity (Paragraph Level)	3.1 = 77%	4.0 = 67%	3.0 = 17%	0.0 = 16%
Organization (Whole Paper)	3.0 = 75%	4.0 = 50%	3.0 = 33%	0.0 = 17%
Research & Citations	3.0 = 75%	4.0 = 50%	3.0 = 33%	0.0 = 17%
Followed Assignment Directions	3.0 = 75%	4.0 = 50%	3.0 = 33%	0.0 = 17%
Key Social & Ethical Issues	4.0 = 100%	4.0 = 83%	-	0.0 = 17%
Analysis & Critical Thinking	2.8 = 70%	4.0 = 33%	3.0 = 50%	0.0 = 17%

COURSE ASSESSMENT
RUBRIC: Project
SLO Domain: Life Skills

CRITERIA SCORE: 4	AGR 100 II		NRS 200		AGR 100 I (sec 1)		AGR 100 I (sec 2)		NRS 250	
	SP '09	MEAN	SP '09	MEAN	SUM '09	MEAN	SUM '09	MEAN	SUM '09	MEAN
Group Work Ethics	2.8	= 70%	3.3	= 83%	3.7	= 93%	3.7	= 93%	3.0	= 75%
Contribution to Project	2.5	= 63%	2.8	= 70%	2.5	= 63%	3.9	= 98%	2.4	= 60%
Participation	2.4	= 60%	2.5	= 63%	3.0	= 75%	3.9	= 98%	3.0	= 75%
Cooperation	2.5	= 63%	2.5	= 63%	3.5	= 88%	3.9	= 98%	3.6	= 90%
Attendance	2.4	= 60%	2.3	= 58%	3.2	= 80%	3.5	= 88%	3.0	= 75%
Safety on the Job	2.4	= 60%	3.3	= 83%	3.8	= 95%	3.7	= 93%	4.0	= 100%
Showing Respect	2.8	= 70%	3.3	= 83%	3.7	= 93%	4.0	= 100%	4.0	= 100%
Time Management	2.1	= 53%	1.8	= 45%	2.8	= 70%	3.6	= 90%	3.0	= 75%
Attitude	2.8	= 70%	3.2	= 80%	3.8	= 95%	3.9	= 98%	4.0	= 100%

5) Has the **Agriculture, Community and Natural Resources Department** planned & implemented changes to pedagogy, facilities etc., to improve learning for all courses. **Yes**

- Review of current curriculum: prerequisites, Course descriptions, Alignment of Program & Institution SLOs with LOs)
- Review of all Course Syllabi
- Plan to complete assessing all Course SLOs by Spring and Summer 2010.

5) Continue

- Hiring of two full-time faculty members
- Plan to implement a tutoring program based on the areas identified by SLO assessment data & other supporting documents
- Reorganized teaching schedules and times to accommodate all classes in limited classrooms
- Increased computers in CNR Lab from 6 to 10 to accommodate student technology needs

5) Continue

- CNR Scholarship Programs to assist students in completing their degree programs
- Already integrated our instructional component in the plan of the next CNR Wellness and Fitness Facility to increase classrooms
- Utilization of existing professionals at ASCC and American Samoa Government with special skills to help enhance learning

RECOMMENDATIONS

- Focus on **counseling** of students on such areas as attendance, attitudes, etc
- Implement **Tutoring** Program based on the areas identified by assessment data
- Revisit **Rubric Evaluation Forms** for **Communication, Life & Job Skills** in order to be consistent with the rest of the departments.
- Continue **Faculty Professional Development** on Student Learning Outcomes
- Continue **Curriculum Mapping** for easy tracking and to indentify areas to improve

RECOMMENDATIONS (Cont'd)

- Emphasis on Student Retention strategies
- Continue to articulate courses with other off-island colleges
- Expand Computer-Lab with 10 more computers to meet increased enrollments
- Focus on Off-island Transfer to four year college
- Focus on Job Market Survey

SOIFUA MA IA MANUIA