

University of Alaska Fairbanks
2011 Annual Unit Plan

The information collected in the Annual Unit Plan (AUP) is used in a variety of required reports, including but not limited to institutional accreditation reporting, Performance Based Budgeting (PBB), Alaska Budget System (ABS), Missions and Measures (M&M), and the Annual Operating and Management Reviews. Submission of the AUP is required in August of each year.

Please complete the following information using the format provided, and submit it electronically by August 27, 2010 to Deb Horner, University Planner (dghorner@alaska.edu) with a copy to Ian Olson, PAIR (inolson@alaska.edu) as well as to Susan Henrichs, Provost (fyprov@uaf.edu).

A. General Information

A1. Unit Name: School of Fisheries and Ocean Sciences

A2. Unit Mission Statement - The mission is a short (no more than one paragraph) statement that describes why the unit exists. Unit mission statements that have been formally approved by the UA Board of Regents should not be changed.

The School of Fisheries and Ocean Sciences is dedicated to the pursuit of excellence in education, research, and public service concerning marine and freshwater ecosystems, and to fostering the sustainable use of their resources for the benefit of Alaska, the nation, and the world

A3. Core Services - This section identifies the unit's major functions that support its mission. In the interests of brevity, links to websites with additional information on the unit may be included. This section should not exceed two brief paragraphs.

The School of Fisheries and Ocean Sciences (SFOS) was created by the University of Alaska Board of Regents in 1987 from existing entities housed at several campuses and placed under a single umbrella to be administered as a unit within the University of Alaska Fairbanks. The purpose was to strengthen and unify the programs in fisheries and ocean sciences. The School has since developed a strong history of regional and world-class research, excellent graduate education, and outstanding service to the State and the nation. The School of Fisheries and Ocean Sciences is one of the most diverse schools of the University of Alaska in

both geographic distribution and academic mission. The seven divisions, distributed throughout much of Alaska, possess an enormous subject range. In its cumulative form, the School achieves excellence through research, education, and public outreach.

B. Progress Report

B1. Major Accomplishments

List the significant unit accomplishments for AY09-10 in the areas indicated below. Please include the top three accomplishments in each area. Be brief; use web links to provide additional information if necessary.

- Teaching, research and public service:
 - A.** The continued enhancement of our Fisheries Academic program in both Undergraduate and Graduate areas: The Fisheries Undergraduate Academic Program is supported through matching funds with the Rasmuson Foundation. See :<http://www.sfos.uaf.edu/fisheries/>.
The Continued development of the Fisheries Graduate Program through large NSF funded initiatives in PhD (MESAS: Marine Ecosystem Sustainability in the Arctic and Subarctic) and MS degrees (Sustainable Ecosystem-Based Management of Living Marine Resources: SELMR)
See: <http://www.sfos.uaf.edu/selmr/> See: <http://www.sfos.uaf.edu/mesas/>
 - B.** The creation of the Ocean Acidification Research Center (OARC) to provide a focal point for collaborative research and support in the critical field of the impact of increasing carbon dioxide levels in the world oceans.
See: <http://www.sfos.uaf.edu/oarc/>
 - C.** The funding and support from a large number of statewide constituents, the UAF and UA system, the BOR and the Alaska legislature for the permanent support of six MAP faculty throughout the State. This was our largest total outreach effort of the year and was highlighted as a goal from our last AUP.
See: <http://seagrant.uaf.edu/news/10news/06-04-10map-funding-approved.php>

- Faculty, student and staff awards, competencies, regional/national/international recognition:
- - A. MAP seafood technology specialist Chuck Crapo received the 2009 Earl P. McFee award from Atlantic Fisheries Technology Conference for his dedication to seafood science and technology transfer to the public and industry and the International Association of Fish Inspectors Award for exceptional outreach and service to the industry. [presented in October 2009] See: <http://www.sfos.uaf.edu/news/story/?ni=287>
 - B. Terrance Quinn, professor of fisheries at SFOS in Juneau, won the Wally Noerenberg Award for Fishery Excellence, the highest award given by the American Fisheries Society's Alaska Chapter. See: <http://www.sfos.uaf.edu/news/story/?ni=290>
 - C. Institute of Marine Science faculty member Dr. Tom Weingartner, wins the UAF Usibelli Award for Research. See: <http://www.sfos.uaf.edu/news/story/?ni=315>

B2. End Results and Strategies

List end results, strategies, targets, etc, in the table below for the period July 1, 2009 to June 30, 2010, based on the 2010 AUP. Add rows as needed.

End Result:	Strategies to Achieve End Result	Target(s):	Measure(s):	Status:	Budget Impact
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<p>Academic Enhancement (program growth, recruitment, graduation rate, contact hours).</p>	<p>A. Hire new faculty</p> <p>B. Enhance and strengthen undergraduate Fisheries program</p> <p>1. UG Fisheries Academic Program Review</p> <p>2. Creation of new Fishery UG classes, UG minor, internships and mentoring program. Enhance UG and graduate recruitment process</p> <p>3. Design and construct UG Fisheries laboratories</p>	<p>Target = 14 hires</p> <p>1. Review produced</p> <p>2. Degrees approved and enrollment increase</p> <p>3. Occupy</p>	<p>Success in searches</p> <p>1. Ongoing</p> <p>2. Degree approval; Enrollment Increase</p> <p>3. Occupy</p>	<p>Completed</p> <p>Completed</p> <p>2. Degrees now active FISH UG enrollment increased.</p> <p>Completed and effective</p> <p>3. Completed. Occupied July 2010 See: http://www.sfos.uaf.edu/news/story/?ni=328</p>	<p>Significant.</p> <p>1. Rasmuson Grant and increase is SFOS base FI by \$1 million for Rasmuson match</p> <p>2. As in #1 above</p> <p>3. Significant to UAF Central capital.</p>
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Research Growth (grants and contracts, impact, increase faculty and postdoctoral fellows)	Hire new faculty with research programs.	Target = 14 hires Increase success in grant amount	Success in searches Follow % proposal success	Completed. FY08 = 37% FY10 to date: 55% (\$79m proposed; \$43m awarded)	Significant Impact to ICR
Professional Products (programmed service, publications and outreach)	Hire new faculty	Target: Increase Professional Products by 3%/yr	Publication counts	See detailed results	Significant

B3. Analysis of Performance Metrics and Supporting Data

Unit data will be provided by the UAF Office of Planning, Analysis and Institutional Research (PAIR). Respective data reports will be available at <http://www.uaf.edu/pair/performance-data/> for your use by July 30, 2010. Units may also include additional unit-specific performance data at the end of the section. Please use the same format in reporting unit-specific performance data. Please write a brief data analysis that incorporates the following aspects, where applicable:

Data Review

- Evaluate the differences in final numbers as compared to your unit targets. Did your unit meet its stated goal? Why or why not?
- Discuss data trends, both positive and negative.
- Indicate whether or not the targets should be adjusted for future years in light of trends.

Strategies

- Reflect upon key unit strategies initiated over the last year – which ones worked and which ones returned results that did not meet your expectations. Please explain. Take careful note of this critical piece as it plays an important role in the university's overall PBB evaluation.
- If there is a formal plan (e.g., Enrollment Management Plan) that is strongly related to a particular performance criteria, discuss any evidence that the plan is or is not achieving its objectives, and if not, any changes implemented or planned.

Resources and Reallocation

- Were there any resources allocated or reallocated to support achievement of your unit's targets and strategies? If so, please explain.
- Are any areas of achievement suffering from a resource (re)allocation that additionally impacts other metrics?
- Of all your strategies, which is your most critical for unit success and is it in need of additional resources in order to make it successful?

Fairbanks Academic Unit-Level Historical Performance and Targets

Line No.	Performance Metrics and Supporting Data Reporting Period: FY10 (July 1, 2009 to June 30, 2010)	Historical Performance					FY11 Target		FY12 Target
		FY06	FY07	FY08	FY09	FY10	Current	New	
1	Student Credit Hours Generated (ex. 500-level)	3,051	2,624	2,579	2,465	2,632	2,700		2,800
2	Grant-Funded Research Expenditures	16,829	16,324	13,824	14,068	16,487	17,500		17,750
3	High Demand Job Academic Awards	14	13	19	9	17	20		20
4	Undergraduate Student Retention	100%	80%	75%	80%	80%	80		80
5	Undergraduate Enrollment	29	27	28	35	59	75		100
6	UA Scholar Enrollment	4	3	2	2	3	4		4
7	Graduate Enrollment	155	139	131	130	138	145		150
8	Unit Enrollment Management Plan	√	√	√	√	√	√		√
9	Student Learning Outcomes Assessment	86	100	100	100	100	100		100

Comments

1. The fall off in SCH from FY06-FY09 was most likely due to loss of faculty within SFOS to teach classes. Our predicted SCH for FY10 was 2711 and our final was 2632. We predict that SCH will stabilize and begin to grow as the new faculty begin to teach more classes.
2. With new faculty now on board, this value has begun to recover from lower values in the last few years. Funding for the research vessel Sikuliaq will change these numbers significantly in the out years.
3. Our metric is Fisheries graduates. Our target in 2010 was 15 and our final was 17. We believe this value has stabilized and we expect graduate numbers to increase as the new undergraduate degrees in Fisheries and the statewide Fisheries program/recruitment efforts produce more students

and graduates. Our five year goal is now 20 graduates per year.

4. We have created a Recruitment and Retention program in UG Fisheries and predict this to stabilize at about 75-80%.

5 Our target for FY10 was 50 and we reached 59. We are targeting UG Fish enrollment of 100 students by FY2012

6. Should stabilize at 3-4 when UG Fish program is fully running

7. The MS program should grow more than the PhD due to the emphasis of MS degrees in the enhanced Fisheries program. PhD students should stabilize as the new faculty take on more students.

8. We have a school-wide enrollment management plan and a more specific fisheries undergraduate recruiting plan.

9. Functional for all SFOS academic programs

Community Campus Academic Unit-Level Historical Performance and Targets

Not applicable to SFOS

Line No. ▼	Performance Metrics and Supporting Data	Historical Performance					FY11 Target		FY12 Target
		FY06	FY07	FY08	FY09	FY10	Current	New	
	Reporting Period: FY10 (July 1, 2009 to June 30, 2010)								
1	Student Credit Hours Generated (ex. 500-level)								
2	High Demand Job Academic Awards								
3	Undergraduate Student Persistence								
4	Undergraduate Enrollment								
5	UA Scholar Enrollment								
6	Unit Enrollment Management Plan								
7	Student Learning Outcomes Assessment								
8	Non-credit Instructional Productivity Units (NCU) Delivered								

Research Unit-Level Historical Performance and Targets

Not applicable to SFOS

Line No. ▼	<i>Performance Metrics and Supporting Data</i>	<i>Historical Performance</i>					<i>FY11 Target</i>		<i>FY12 Target</i>
		FY06	FY07	FY08	FY09	FY10	Current	New	
	Reporting Period: FY10 (July 1, 2009 to June 30, 2010)								
1	Grant-Funded Research Expenditures								
2	Indirect-Cost Recovery								
3	Non-General Fund (NGF) Revenue								
4	Ratio of NGF Revenue to GF Revenue								
5	TA/RA Positions								

B4. Publications in refereed journals/periodicals

Please use EndNote to report publications for CY2008. The download is available at: <http://www.alaska.edu/keys/#Windows%20installers>, or <http://www.alaska.edu/keys/#Macintosh%20Installers>. Include the information as an attachment when you submit the AUP.

See attached ENDOTE, *.rtf and *.txt files for SFOS. Three different formats, identical data.

B5. Occurrences of applied research benefiting Alaska

School, College or Institute	Project Title	Project Status (complete, active, awarded, proposed)	Description of contribution to the state of Alaska	Indicate if project is collaborative w/ AK Native or rural groups and/or involves traditional knowledge*
SFOS	Tsunami modeling	Active	Provides modeling basis for tsunami warning system	
SFOS	Salmon genetics	Active	SE Alaska salmon runs, stock status and populations	
SFOS	Alaska king crab hatchery	Active	Hatchery culture and future rehabilitation of collapsed stocks	
SFOS	Steller sea lion health	Active	Endangered species health / fishery interactions	
SFOS	Ocean Acidification	Active	New Ocean Acidification Research Center and grants/contracts	
SFOS	Coastal Currents	Active	Ice flow and water currents off North Slope oil fields	
SFOS	Fish products	Active	Quality of Alaska fish products for human consumption	

*This information is being collected as an *Indicator* for UAF's NWCCU accreditation reporting.

B6. Comparative scores of students who take professional exams

Not applicable to SFOS

List examination scores:

School, College or Institute	Examination Type	Test Date	# of UAF Students Tested	UAF Pass Rate	National Pass Rate
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SFOS Specific Metrics

	2006	2007	2008	2009	2010	2011 predicted
Number of Research Proposals Submitted Fiscal Year	198	205	204	225	207	225
PhD/MS/BS/BA graduates	26	30	29	20	29	35
IMS Publications calendar year	45	78	56	70	70	75
Total SFOS Publications calendar year	89	128	132	140	140	145
Indirect cost recovery (1000s) Fiscal Year	1,865	1,723	1,700	1,699	2,059	2,185

College-specific unit metrics assumptions

1. Number of research proposals submitted

The number of research proposals has been over 200/yr since 2007. This value is dependent on the number of faculty who conduct research. Over a dozen new faculty have been hired at SFOS and these new faculty should increase the number of proposals submitted. Therefore, we predict that FY 2011 will be above our 2010 submissions.

2. Number of graduates

Our total SFOS graduates have been stable as we have spent our effort to reverse the loss of faculty and enhance the UG Fisheries program. We expect the number of graduates to increase across all categories in the coming next few years.

3. IMS publications

This value fell off in 2006 due to the continued loss of IMS faculty and recovered with an all time high in 2007 and then decreased in 2008. With new IMS faculty, the number of publications is now continuing to increase.

4. Total SFOS publications

Similar to IMS publications, this value fell off in 2006 due to loss of faculty. However, we recovered in 2007 and the number of publications now appears to be increasing, most likely as a result of hiring new faculty who conduct research.

5. Indirect Cost Recovery.

ICR was stable between 2007-2009 and we believe we have seen a turn-around in FY10 with increased ICR as the new faculty have been successful in obtaining grants and contracts.

C. End Results and Strategies – FY 2011

C1. End Results Table

Complete the table below for the period July 1, 2010 to June 30, 2011. Add rows as needed. For each end result, identify the applicable core theme(s) listed below.

- A. Educate: Undergraduate and Graduate students
- B. Discover: Through Research, Scholarship, and Creative Activity, including an Emphasis on the North and its Peoples
- C. Prepare: Alaska's Career, Technical, and Professional Workforce
- D. Connect: Alaska Native, Rural, and Urban Communities through Contemporary and Traditional Knowledge
- E. Engage: Alaskans via Lifelong Learning, Outreach, and Community and Economic Development

End Result:	Theme	Strategies to Achieve End Result	Target(s):	Measure(s):	Status:	Budget Impact
Increase UG enrollment	A	Recruitment and retention team	100 UG enrolled	enrollment	Currently @ 70	Increase in tuition returns
Increase grants and publications	B	Hire new faculty, support research time, update research space	> \$2m ICR >\$16m expenditures	Track grant funds	Currently on hiring freeze	Increase SFOS operations
UG Fisheries Experiential learning	C	Place FISH students in internships	25% of enrolled FISH UG students	Track placement	Target met	Covered by Rasmuson
Increase MAP programs	D,E	MAP classes and community involvement. New hires	Permanent MAP hires and new location in Kodiak	Track classes and outreach	Positions being searched	State, PBB and SFOS funding for new faculty
Lab space modifications	A,B	Two laboratories scheduled for renovation	Completed within year	Occupied	Design and initial	Significant

D. Long Range End Results and Strategies – FY 2012 and Beyond

D1. Long Range End Results Table

Complete the table below. For End Results with an anticipated start date of 2012, the results should be in line with budget requests for FY2012. Add rows as needed. For each end result, identify the applicable core theme(s) listed below.

- A. Educate: Undergraduate and Graduate students
- B. Discover: Through Research, Scholarship, and Creative Activity, including an Emphasis on the North and its Peoples
- C. Prepare: Alaska's Career, Technical, and Professional Workforce
- D. Connect: Alaska Native, Rural, and Urban Communities through Contemporary and Traditional Knowledge
- E. Engage: Alaskans via Lifelong Learning, Outreach, and Community and Economic Development

End Result:	Theme	Strategies to Achieve End Result	Target(s):	Measure(s):	Budget Impact	Anticipated start date
Ocean acidification Research Center funding	B	Request OARC funding request in SW budget	\$100,000	Success	Significant	FY2012
Complete Rasmuson Project	A,B,C	Final years of Rasmuson match support for FISH students	Complete \$10m project	Completed, FISH program stable	Significant	Ongoing
Receive Sikuliaq	B	Sikuliaq on budget and on time	Delivery, 1/22/2013	Delivery	Significant	Ongoing
Lab space modifications	A,B	Funding allocation for costs	Completed 2011	Occupy	Moderate	Fall 2010
Increase Arctic presence	B,D,E.	Develop arctic SFOS programs beyond research, including MAP and community involvement	SFOS staff in Arctic	Programs on site	Unknown	Begin planning

D2. Top three challenges for FY2012

Identify the top three challenges confronting the unit for the period July 1, 2011 to June 30, 2012. These challenges must be directly related to the unit's FY2012 budget request.

Challenge 1: Finalize and move to Phase II of Rasmuson FISHERIES project.

Challenge 2: Find funding to support Ocean Acidification Research Center

Challenge 3: Find funding for laboratory renovations.

D3. Use of unanticipated funds

Specify what the unit would do with additional funds, should they be made available later in FY2012. Activities must support the FY2012 budget request.

1. OARC support
2. Laboratory modifications

E. Additional Information

E1. Unit Unmet Needs

Identify unmet unit needs that could be supported through private, non-governmental funding, such as donors, foundations, etc.

1. Support for launch ceremonies, christening and initial delivery of Sikuliaq. \$50k one time
2. Scholarships for undergraduate and graduate scholarships. \$50k/yr
3. Continued support of National Ocean Sciences Bowl contest and program. \$25k/yr
4. Support for Kasitsna Bay research laboratory near Homer. \$100k/yr

E2. Major Capital Investment Priorities and Space Needs

In order to better connect academic and research priorities with capital investment planning, identify the unit's highest priority facility needs, if any, for consideration in the six-year capital plan. Units should also describe any other significant facility or space management issues in this section. Be sure to show the linkages between facilities needs and unit End Results.

1. Shore side improvements for Seward Marine Center in support of Sikuliaq operations. \$2.5m
2. Support for Kasitsna Bay research laboratory near Homer. \$100k/yr