Submit original with signatures + 1 copy + electronic copy to UAF Governance. See $\frac{http://www.uaf.edu/uafgov/faculty/cd}{governing\ curriculum\ \&\ course\ changes.}$

UBMITTED BY:				and the second second second second						
Department	GPMSL			Colle	College/School				SFOS	
Prepared by	Larissa Deh	n			Phone Faculty Contact		907-474-7724 Larissa Dehn			
Email Contact	dehn@sfos.u									
o de montresionalem montresionador	clneumann@	alaska.edu							and the state of the	
1. ACTION D	ESIRED (CHECK ONE	Tria	l Cour	se		New	Cour	se	x	
2. COURSE I	DENTIFICATIO	N: Dept	M	SL	Course #	317		No. c		3
division number of		This class is do and aimed at s but does not ro adaptations. T newly propose	tudents wi equire any he course	ith some i prior kno is compri	ntroductory owledge or ex sed of 3 hour	knowledge cposure to s of lecture	of biolo marine e per we	ogy and l mamma eek. This	biologic ls and t class is	cal systems, heir s part of the
3. PROPOSED	COURSE TITLE	7:		Introdu	ction to Ma	rine Mam	mal Bi	ology		
4. To be CR	OSS LISTED?	No] I	f yes, Dept:		Cou	rse #			
(Requires signatu	approval of bores.)	th department	s and d	leans in	volved.	Add line	es at	end of	form	for such
5. To be STA YES/NO	ACKED?	No		f yes, Dept.		Cou	rse ‡	#		
6. FREQUENCY	Y OF OFFERING	with the same of t		Summer	(Every,					or Odd-
7. SEMESTER approved)	& YEAR OF FI	RST OFFERIN	G (if	S	pring 2012	Per R	egis	trar:	Fal	1 2012.
compressed in	hours may not not fewer than thermore, any committee. MAT:	six weeks mu	st be an	pproved	by the c	ollege c six week	r sch	ool's t be a	curri pprov 6 we	culum
OTHER FORM (specify)	AT					-				and share a series of the series and series
Mode of de (specify le field trips etc)	ecture,	Lecture								
9. CONTACT	EK:	3 LECT	TURE	cs	LAB hours	/week			CTICUM	
of lab in a minutes of p	credits are bas science course practicum=1 cre s. See http://w redits.	e=1 credit. edit. 2400-8	t hours 1600 min	. 800 nutes i utes of	minutes o n non-sci internsh	f lectur ence lak ip=1 cre	ce=1 c =1 cr	edit. This	240 2400 must	0 minutes -4800 match wit
OTHER HOURS	(specify									

10. COMPLETE CATALOG less, if possible		TION incl	ludiı	ng dept., number, title a	and credits (50 words or
MSL 317 Introduction to diversity of cetaceans, pin reproduction, and behavi thermoregulation, and w	Marine N nnipeds, si or of mari ill explore	renians, and ine mammal some curren	others, thei	3 Credits. The course will introdur marine mammals. Topics will indir special adaptations, such as diviservation and management issues. 212, or instructor permission) (3-	clude evolution, ec ng, osmo- and . The course will b	cology,
				uate courses only. Use an ustification is needed,		
	se be us		lfil	S = Social Sciences L l a requirement YES		мо ж
O = Oral Inte	nich co			ats it could be used to f Writing Intensive, Format 7	Natural Sc	cience,
12. COURSE REPEATABI		e for cr	edit	? YES NO	×	
Justification: be repeated (for example, theme each time)	e cours	e why the				
How many times n	may the	course b	e re	epeated for credit?		TIMES
				variable credit, what is may be earned for this		CREDITS
RESTRICTIONS ON ENROL 14. PREREQUISITES These will be re RECOMMENDED	BIOL	116 or MSL		tudent is allowed to enr	coll in the co	ourse.
	student	is stro	ngly	encouraged to complete	prior to this	s course.
15. SPECIAL RESTRICT CONDITIONS	IONS,		Non	ne		
16. PROPOSED COURSE	FEES	None		1		
Has a memo been subm fee approval?	itted t		our o	dean to the Provost & VC	AS for Yes/No	
17. PREVIOUS HISTORY						
Has the course be previously?	en offe	ered as s	peci	al topics or trial cours Yes/N		
If yes, give seme course #, etc.:	ester, y	ear,				
18. ESTIMATED IMPACT WHAT IMPACT, IF A	ANY, WII	LL THIS H	AVE	ON BUDGET, FACILITIES/SI	PACE, FACULTY	, ETC.
				rse, will teach this class as par re required for this course.	t of her annual a	academic
474-6695) with reg services available resolution. If no	d the li ward to e for th	the adeq ne propos lain why	uacy ed c not.		ctions, equip e of contact	ment, and and
No Yes	х			ristie (BioSciences Libra She has received a copy		

	for this o	class. It was det needed are avail ssistance with st	ermined that able through	
IMPACTS ON PROGRAMS/ What programs/depair Include information on	ctments will			
The MSL program will be students. In addition, cou graduate program as early department might spark sinterest to undergraduate mammal bycatch in US fis could also be of interest to base to include marine speas potential differences to	impacted by an ingree offerings at the exposure in the fundent interest for Fisheries and Natheries, marine ma BIOL and WLF secies diversity, ada	ncrease in the diversite undergraduate level ield of Marine Science an advanced degree ural Resource Managemmal feeding ecologystudents as it will increptations, and manage	y of course offer can increase stree and ongoing re program. Topic gement students, and human increase the breadtl	rings available to udent enrollment for the esearch in the es covered will also be of in particular marine teractions. The course h of their knowledge
POSITIVE AND NEGATIVE Please specify posit:		re impacts on oth	er courses, p	programs and
requirements in the propo Marine Science minor is s expected from this course. STIFICATION FOR ACT. The purpose of the dep scrutinize course char	ubmitted concurre ION REQUESTED partment and ca	ently to this course pr	oposal. No nega	ees is to
of UAF education is no this in your response.	ot lowered as a This section	result of the part of the part of the part of the part of the self of the part	roposed chang f-explanatory	ge. Please address
Understanding marine man change impacts, particularly in marine biology. In additional positions for these programments to this topic expansion marine mammals is needed	nmal diversity and y in Alaskan wate on, the State of Al rams, yet aside fro cists. Early exposu	l their special adapta ers, are essential for a laska has multiple ma om a graduate (600) lo re to biology and spe	tions as well as o well rounded un rine mammal pr evel marine man	ndergraduate education rograms and is seeking to nmal biology course no
PROVALS:				
1/ / / / /	160		Date	10 Dec 2010
Signature, Chair, Program/Department	of:	GP915L	Date	10 1/22 2010
1 1 Sil			Date	13 Dec 2010
Signature, Chair, Council for:	ollege/School	Curriculu SF	200	2010
andth &	1		Date	MILLE
Signature, Dean, Co. of:	llege/School	5738		7 7

the Provost.	programs must be approved in advance b
	O SUDMISSION TO THE COVEDNANCE OFFICE
L SIGNATURES MUST BE OBTAINED PRIOR T	O SUBMISSION TO THE GOVERNANCE OFFICE
Signature, Chair, UAF Faculty Senate	Date
Review Committee	Curredian
DITIONAL SIGNATURES: (As needed for cr	coss-listing and/or stacking)
DITIONAL SIGNATURES: (As needed for cr	coss-listing and/or stacking) Date
Signature, Chair,	
Signature, Chair,	Date
Signature, Chair, Program/Department of: Signature, Chair, College/School Curri	Date
Signature, Chair, Program/Department of: Signature, Chair, College/School Curri	Date
Signature, Chair, Program/Department of: Signature, Chair, College/School Curricular for: Signature, Chair, College/School Curricular for:	Date

ATTACH COMPLETE SYLLABUS (as part of this application).

Note: The guidelines are online: http://www.uaf.edu/uafgov/faculty/cd/syllabus.html The department and campus wide curriculum committees will review the syllabus to ensure that each of the items listed below are included. If items are missing or unclear, the proposed course change will be denied.

a				
SYLLABUS	CHECKLIST	FOR ALL	UAF	COURSES

During the first week of class, instructors will distribute a course syllabus.

Although modifications may be made throughout the semester, this document wi contain the following information (as applicable to the discipline):
1. Course information:
\square Title, \square number, \square credits, \square prerequisites, \square location, \square meeting time (make sure that contact hours are in line with credits).
2. Instructor (and if applicable, Teaching Assistant) information: Name, Office location, Office hours, Office hours, Office email address.
3. Course readings/materials:
\square Course textbook title, \square author, \square edition/publisher.
\square Supplementary readings (indicate whether \square required or \square recommended) and
\square any supplies required.
4. Course description:
Content of the course and how it fits into the broader curriculum;
Expected proficiencies required to undertake the course, if applicable
☐ Inclusion of catalog description is strongly recommended, and
lacktriangle Description in syllabus must be consistent with catalog course description.
5. Course Goals (general), and (see #6)
6. Student Learning Outcomes (more specific)
7. Instructional methods:
Describe the teaching techniques (eg: lecture, case study, small group discussion, private instruction, studio instruction, values clarification, games, journal writing, use of Blackboard, audio/video conferencing, etc.)
8. Course calendar:
A schedule of class topics and assignments must be included. Be specif so that it is clear that the instructor has thought this through and will not be making it up on the fly (e.g. it is not adequate to say "lab". Instead, give each lab a title that describes its content). You may call the outline Tentative or Work in Progress to allow for modifications during the semester.
9. Course policies:
\square Specify course rules, including your policies on attendance, tardiness class participation, make-up exams, and plagiarism/academic integrity.
10. Evaluation:
\square Specify how students will be evaluated, \square what factors will be
included, their relative value, and
\square how they will be tabulated into grades (on a curve, absolute scores, etc.)
11. Support Services:
Describe the student support services such as tutoring (local and/or
regional) appropriate for the course.
12. Disabilities Services: The Office of Disability Services implements the Americans with Disabiliti

Act (ADA), and insures that UAF students have equal access to the campus and course materials.

 \square State that you will work with the Office of Disabilities Services (208 WHIT, 474-5655) to provide reasonable accommodation to students with disabilities."

MSL 317 Introduction to Marine Mammal Biology – 3 Credits

Instructor: Dr. Lara Dehn

School of Fisheries and Ocean Sciences

232 Irving II

907-474-7616

dehn@sfos.uaf.edu

Class meeting times: MWF, TBA

Location: TBA

Office hours: MWF, TBA

or by appointment

Prerequisites: BIOL 116 or MSL 212, or instructor permission

Course Description: The course will introduce students to the biology and diversity of cetaceans, pinnipeds, sirenians, and other marine mammals. Topics will include evolution, ecology, reproduction, and behavior of marine mammals, their special adaptations, such as diving, osmo- and thermoregulation, and will explore some current conservation and management issues. The course will be structured in a lecture format.

Course Goals: This course will provide a basic understanding of marine mammal biology, their diversity, and adaptations required in aquatic ecosystems.

Learning Objectives:

- 1. Become familiar with the evolution and diversity of marine mammals
- 2. Examine problems and challenges that are associated with aquatic life and discover their specific adaptations to address these problems
- 3. Explore techniques used to study these taxa
- 4. Learn about marine mammal management, conservation, and protection

Required Reading:

- Perrin, W.F., Wursig, B., Thewissen, J.G.M. 2008. Encyclopedia of Marine Mammals. Academic Press.
- Other readings as assigned (see course schedule)

No single textbook covers all aspects and provides a good overview of marine mammal biology. I will therefore draw on a variety of different sources and textbooks for information. The required reading "Encyclopedia of Marine Mammals" is not meant as a structured textbook, but is an excellent resource and reference guide to anything "marine mammal" in alphabetical layout. It is understood that you will use this book throughout the class as supplementary reading.

Other Recommended Resources:

- Reynolds, J.E., Rommel, S.A 1999. Biology of Marine Mammals. Smithsonian Institution.
- Berta, A. Sumich, J.L, Kovacs, K.M. 2005. Marine Mammals: Evolutionary Biology. Academic Press.
- Boyd, I.L, Bowen, W.D., Iverson, S.J. 2010. Marine Mammal Ecology and Conservation: A Handbook of Techniques. Oxford University Press
- Stewart, B.S., Clapham, P.J., Powell, J.A., Reeves, R.R. 2002. National Audubon Society Guide to Marine Mammals of the World. Knopf.
- Dierauf, L.A., Gulland, F.M.D. 2001. CRC Handbook of Marine Mammal Medicine: Health, Disease, and Rehabilitation. CRC Press.

- ❖ Jefferson, T.A., Webber, M.A., Pitman. R. 2007. Marine Mammals of the World. Academic Press.
- Geraci, J.R. 2005. Marine Mammals Ashore: A Field Guide for Stranding. National Aquarium in Baltimore.
- Wynne, K. 1992. Guide to Marine Mammals of Alaska. Alaska Sea Grant.
- Bockstoce, J.R. 1995. Whales, Ice, and Men: The History of Whaling in the Western Arctic. University of Washington Press.
- Estes, J.A., DeMaster, D.P., Doak, D.F., and Williams, T.M. 2007. Whales, Whaling, and Ocean Ecosystems. University of California Press.
- Ragen, T.J., John E. Reynolds, J.R., Perrin, W.F., Reeves, R.R., Montgomery, S. 2005. Marine Mammal Research: Conservation beyond Crisis. Johns Hopkins University Press.
- Schmidt-Nielsen, K. 1997. Animal Physiology: Adaptation and Environment. Cambridge University Press.
- Hoelzel, A.R. 2002. Marine Mammal Biology: An Evolutionary Approach. Wiley-Blackwell.

Internet Links and Sources of Interest:

MarMam Listserv: https://lists.uvic.ca/mailman/listinfo/marmam

European Cetacean Society Listserv: http://www.europeancetaceansociety.eu/ecs-maillist.php

Society for Marine Mammalogy: http://marinemammalscience.org/

Juneau Humpback Whale Catalog: http://www.afsc.noaa.gov/ABL/Humpback/WhyPhoto.htm

Alaska Wildlife Notebook Series: http://www.adfg.state.ak.us/pubs/notebook/notehome.php

Marine Mammal ID Guide: ftp://ftp.fao.org/docrep/fao/009/t0725e/t0725e00.pdf

Sea Lion Gallery: http://shutterbug.ucsc.edu/sealion/albums.php

Marine Mammal Protection Act: http://www.nmfs.noaa.gov/pr/laws/mmpa/

Endangered Species Act: http://www.nmfs.noaa.gov/pr/pdfs/laws/esa.pdf

CITES Convention: http://www.cites.org/eng/disc/text.shtml

CITES Checklist: http://www.cites.org/eng/resources/pub/checklist08/Checklist.pdf

Chiswell Island Rookery, Life Video Stream: http://www.alaskasealife.org/New/research/chiswell.php

Alaska Marine Mammal Stranding Network:

http://www.fakr.noaa.gov/protectedresources/strandings.htm

IPhone App – AK StrandNet: http://itunes.apple.com/us/app/akstrandnet/id383326791?mt=8

Alaska Fisheries Science Center: http://www.afsc.noaa.gov/default.htm

Marine Mammal Stock Assessment by Species: http://www.nmfs.noaa.gov/pr/sars/species.htm

NOAA Ice Seal Page: http://www.fakr.noaa.gov/protectedresources/seals/ice.htm

Whale and Siren Evolution: http://www.neoucom.edu/DEPTS/ANAT/Thewissen/

Digital Library of Dolphin Development: http://www.neoucom.edu/DLDD/

Marine mammal necropsy: an introductory guide for stranding responders and field biologists:

https://darchive.mblwhoilibrary.org/handle/1912/1823

Assessment of Risk of Zoonotic Disease Transmission to Marine Mammal Workers:

http://swfsc.noaa.gov/uploadedFiles/Divisions/PRD/Programs/Photogrammetry/Marine Mammal Zoonoses Final Report-2.pdf

Satellite Tracking of Bowhead Whales:

http://www.wildlife.alaska.gov/index.cfm?adfg=marinemammals.bowhead

Ribbon Seal Status Review:

http://docs.lib.noaa.gov/noaa_documents/NMFS/AFSC/TM_AFSC/TM_NMFS_AFSC_191.pdf

Spotted Seal Status Review: http://www.afsc.noaa.gov/Publications/AFSC-TM/NOAA-TM-AFSC-200.pdf

Michigan Wildlife Disease Manual: http://michigan.gov/dnr/0,1607,7-153-10370 12150 12220-26161--,00.html

Marine Mammal Research Consortium: http://www.marinemammal.org/ International Whaling Commission: http://www.iwcoffice.org/index.htm

Course Policies

<u>Attendance</u>: Attendance is required and will be part of your grade! You can miss one class unexcused, but becoming familiar with the covered material during the missed period is your responsibility. I strongly encourage discussions and questions during class.

<u>Updates:</u> Make sure I have a current email address for you. Check your e-mail messages regularly. Class information and changes in the syllabus will be distributed through e-mail. Please note that the course schedule is "tentative".

<u>Exams</u>: The exams will be written, closed-book, short-answer, and some multiple choice questions. The final exam will include material presented throughout the semester, but will be weighted toward material covered after the second midterm. Make-up exams will not be given. Unless you have a serious emergency you will need to take the exams during the time scheduled. If you miss the exam unexcused you will receive zero points.

<u>Presentations:</u> You will be responsible for a 15-minute presentation on a marine mammal species of your choice. No species can be covered multiple times by different students, so first-come-first-serve will ensure that you can present on the species you pick. Species specifically covered in class (e.g., vaquitas) are not an option. The student presentations should introduce the species, i.e., appearance, distribution, abundance, feeding, mating, status, etc. Time slot availability for the presentations is also determined by first-come-first-serve.

<u>Cheating, Forgery, Plagiarism, Disruptive Behavior etc.</u>: I expect high ethical standards from each of you. The standards in this class adhere to the UAF Student Code of Conduct, see p. 83, 2008-2009 UAF Catalog

Violations of the UAF Student Code of Conduct will result in an immediate "F". Additionally, violations of the Code of Conduct may result in disciplinary action initiated by UAF.

<u>A note on plagiarism</u>: Definition: "A piece of writing that has been copied from someone else and is presented as being your own work." This means that information from books, scientific literature, internet, even images etc. need to be **properly cited!** However, there needs to be also some original thought in your work – you cannot take an entire presentation or even a whole slide, reference it as "XYZ" and be done with it. When in doubt, ask.

Grading:

	Possible points	% of total
Midterm Exam #1	100	25%
Midterm Exam #2	100	25%
Final Exam	100	30 %
Student Presentation (15 minutes)	100	10%
Attendance and Participation	100	10%
Total	500	100%

Semester grades will be assigned according to the following scale:

A = 90-100 %

B = 80-89 %

C = 70-79 %

D = 69-60 %

F = less than 60%

Support Services:

UAF libraries are a great resource. While on the UAF network, many journals recognize the university authorization to access scientific papers so you can download and print papers of interest to you, your studies, or this class. If a paper is not available, you can request them through Interlibrary Loan http://uaf.illiad.oclc.org/illiad/logon.html

Google Scholar http://scholar.google.com/schhp?hl=en&tab=ws is one of the greatest tools to search for scientific literature, images, and videos based on keywords. If you are on campus you can immediately link to pdf files of most papers.

UAF Student Support Services http://www.uaf.edu/sssp/ offers general support ranging from note taking to career planning.

Check out the Writing Center http://library.uaf.edu/blogs/welcome/category/writing-center/ for additional computer availability or help with resources.

Disabilities Services

If you have a disability and require any aids, services, or accommodations under the Americans with Disabilities Act, please contact me after class, see me in my office, or call me during the first few weeks of the semester so we can talk about your particular situation.

UAF has a Disability Services office that operates in conjunction with Tanana Valley Campus. Disability Services, a part of UAF's Center for Health and Counseling, provides academic accommodations to enrolled students who are identified as being eligible for these services.

If you believe you are eligible, please visit http://www.uaf.edu/chc/disability.html. You can also contact Disability Services on the Fairbanks Campus at (907) 474-5655, fydeso@uaf.edu

Tentative Course Schedule

Week	Date	Lecture Topic	Readings				
1	1/21	Course Introduction; What are marine mammals? Why go back to the Water?	Syllabus				
	1/24	Systematics and Evolution – Pinnipeds	Chapter 3: Marine Mammals: Evolutionary Biology. Berta, Sumich, Kovacs				
2	1/26	Pinniped Diversity	Encyclopedia of Marine Mammals				
	1/28	Systematics and Evolution - Cetaceans	Chapter 4. Marine Mammals: Evolutionary Biology. Berta, Sumich, Kovacs				
	1/31	Cetacean Diversity	Encyclopedia of Marine Mammals				
3	2/2	Systematics and Evolution – Sirenians, Ursids, Mustelids	Chapter 5. Marine Mammals: Evolutionary Biology. Berta, Sumich, Kovacs				
	2/4	Skull and Skeleton	Chapter 2. Biology of marine mammals. Reynolds and Rommel				
	2/4 Deadline to drop class						
	2/7	Locomotion – Levers, Musculature, Movement	Chapter 2. Biology of marine mammals. Reynolds and Rommel				
4	2/9	Locomotion – Buoyancy	Chapter 2. Biology of marine mammals. Reynolds and Rommel				
	2/11	Locomotion – Hydrodynamics	Chapter 2. Biology of marine mammals. Reynolds and Rommel				
	2/14	Migration and Habitat Use	Chapter 7. Marine mammal Biology. Hoelzel				
5	2/16	Physics of Heat Transfer	Chapter 7. Animal Physiology. Schmidt-Nielsen				
	2/18	Thermoregulation	Chapter 7. Animal Physiology. Schmidt-Nielsen				
	2/21	Midterm #1					
6	2/23	Hypoxia – Life without Oxygen	Chapter 3. Biology of marine mammals. Reynolds and Rommel				
	2/25	Pressure	Chapter 3. Biology of marine mammals. Reynolds and Rommel				
7	2/28	Diving	Chapter 3. Biology of marine mammals. Reynolds and Rommel				

T	3-2	Faradia a Chaptagian	Chapter 12. Marine Mammals: Evolutionary Biology. Berta, Sumich, Kovacs
			Chapter 9. Marine Mammal Ecology and
	3-4	Diet and Energy Balance	Conservation: A Handbook of Techniques. Boyd, Bowen, Iverson
	3-7	Osmoregulation	Ortiz. 2001. Osmoregulation in Marine Mammals. Journal of Experimental Biology 204, 1831-1844.
8	3-9	Reproduction	Chapter 6. Biology of marine mammals. Reynolds and Rommel
	3-11	Reproductive Strategies and Mating Systems	Chapter 6. Biology of marine mammals. Reynolds and Rommel
	3-14	Spring Break - No Class	
9	3-16	Spring Break – No Class	
	3-18	Spring Break – No Class	
	3-21	Sensory Systems	Chapter 4. Biology of marine mammals. Reynolds and Rommel
10	3-23	Sound Reception	Chapter 11. Marine Mammals: Evolutionary Biology. Berta, Sumich, Kovacs
	3-25	Behavior and Communication	Chapter 12. Marine mammal Biology. Hoelzel
	3/25 De	adline to withdraw	
	3-28	Midterm #2	
11	3-30	Population Structure – Aging	Chapter 5. Marine Mammal Ecology and Conservation: A Handbook of Techniques. Boyd, Bowen, Iverson
	4-1	Population Dynamics and Population Estimates	Chapter 3. Marine Mammal Ecology and Conservation: A Handbook of Techniques. Boyd, Bowen, Iverson
	4-4	Ocean Animal Emergency	Movie. NOVA, 2009
12	4-6	Strandings and Stranding Networks	Chapter 4. CRC Handbook of Marine Mammal Medicine. Dierauf, Gulland
	4-8	Disease	Chapter 2. CRC Handbook of Marine Mammal Medicine. Dierauf, Gulland

			Chapter 5. Marine Mammal Research:
	4-11	Contaminants	Conservation beyond Crisis. Ragen, Reynolds,
10			Perrin et al.
13	4-13	Regulation and Law Enforcement	Marine Mammal Protection Act, Endangered Species Act, CITES Convention
	4-15	History of Whaling	Chapter 4 & 5. Whales, Ice, and Men. Bockstoce
			Chapter 8. Whales, whaling, and ocean
	4-18	Whaling Today	ecosystems. Estes, DeMaster, Doak, Williams, Brownell.
			Chapter 2. Marine Mammal Research:
14	4-20	Fisheries Interactions	Conservation beyond Crisis. Ragen, Reynolds, Perrin et al.
		lu ii c	D'agrosa, Lennert-Cody, Vidal. 2000. Vaquita Bycatch in Mexico's Artisanal Gillnet Fisheries:
	4-22	Vaquita Conservation – Case Study	Driving a Small Population to Extinction. Conservation Biology 14: 1110-1119.
	4-25	Ecotourism	Chapter 12. Marine Mammals: Fisheries, Tourism and Management. Gales, Hindell,
			Kirkwood
15			Moore, Huntington. 2008. Arctic marine
10	4-27	Marine Mammals and Climate Change	mammals and climate change: Impacts and resilience. Ecological Applications 18: S157-
			S165.
	4-29	Spring Fest – No Class	
	5-2	Student presentations	
16	5-4	Student presentations	
	5-6	Student presentations / Review	
	1		

Curriculum Committee SFOS

Members:

Trent Sutton (Chair)

Katrin Iken Jeremy Mathis Andre Lopez

08 December 2010

New Course

Course Number: MSL317

Course Title: Introduction to Marine Mammal Biology

Instructor: Dehn

First Time of Offering: Yes

General Recommendations:

On the last page of the course proposal form is a checklist of components to be included in the syllabus. Be sure to go through this checklist to make sure all components are addressed. Failure to do so could result in the delay of getting this course proposal through the UAF Curriculum Review Committee.

Faculty Senate Form:

Clarify and Address the following:

- For course identification section, need to state that the proposed Marine Science minor has been submitted concurrently.
- The catalog description (section 10) must appear as it will in the actual catalog; you must include the course number, title, credits, prerequisites, and course format (e.g., 3+0); you only had the course description. Your course description must match the syllabus.
- Not a natural science course so do not check that box.
- For prerequisites, just BIOL 116 and MSL 212 (BIOL 115 and MSL 211 are implied as is prereqs for BIOL 116 and MSL 212, respectively).
- The UAF Curriculum Review Committee is recommending that recommended courses should not be listed.
- State "None" for special restrictions.
- For section 20, line 2, how will this course increase student enrollment? Through recruitment of students into the program? Please clarify. Like 3, FISH should be replaced with undergraduate Fisheries. Might want to also include NRM in this section as this course would be attractive to them as well.
- Section 21. Marine Science Minor, not Marine Biology. Also need to state that the paperwork for the minor has been submitted concurrently.

Syllabus:

• Change prerequisites as stated for the form.

• The form	e course description m (UAF requirement	n on the syllabus nnt).	nust match the cours	se description on	uie