Submit original with signatures + 1 copy + electronic copy to Faculty Senate (Box 7500).

See <a href="http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/">http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/</a> for a complete description of the rules governing curriculum & course changes.

# TRIAL COURSE OR NEW COURSE PROPOSAL

SUBMITTED BY:									
Department	Fisheries Div	ision		Colleg	je/School	S	School of	Fish ar	nd Ocean Sciences
Prepared by	Brennan Smi	th		Phone				907-	486-1531
Email Contact	bmsmith10@	alaska.edu		Facult	y Contact			Brenn	an Smith
1. ACTION DE	SIRED (CHECK ON	Tria <b>E):</b>	l Course		X	New	Course		
2. COURSE ID	ENTIFICATION:	Dept	FIS	SH	Course #	F394	No. of (	Credits	3
	This course is designed for the BS Fisheries students pursuing a career in Fisheries, Fish management, and seafood. Due to the complexity of this material covered in this course, the course should be offered to students farther along in the degree programs. BIO 116X and CHEM 106X or the equivalent are required to take this course. For these reasons it would be unadvisable for students in their first or second year of undergraduate education to complete this course.						course, the 16X and it would be		
3. PROPOSED	COURSE TITLE:				Fish N	utrition			
4. To be CROS	S LISTED?  YES/NO	No	If yes	s, Dept:		Cour	se #		
	isting requires app	oval of both dep	partment	s and de	ans involved.	Add lines	at end of fo	orm for a	ndditional
5. To be STACE	KED? YES/NO	No	If yes	, Dept.		Co	ourse #		
	he two course le How will each l ap		ne						
Academic and Ad emphasize the dif whether the two vare undergraduate looking out for the	oplications are review vising Committee. If the control of the control of the control of the source	Creating two diff what are suppose ntly different (i.e ?; 3) are graduate tudents taking th	erent sylled to be is there student	abi—un two diffe undergi s being	dergraduate a erent courses raduate and g undertaxed?	and gradua . The comm graduate lev In this con	te versions- nittees will ovel content text, the co	—will help determine being off mmittees	p e: 1) fered); 2) s are
6. FREQUENCY	OF OFFERING:	Fall Odd	l-number	ed Year					
		Fall, Spring,	Summe	r (Every,	or Even-num or As Dema			umbered	Years) —
	YEAR OF FIRST			A	Y 2014-2015				

B. COURSE FORMAT:								ON THE STATE OF TH
NOTE: Course hours may not be of six weeks must be approved by the								
than six weeks must be approve				.ii. Furtheri	nore, any	, core c	ourse	compressed to le
COURSE FORMAT:	7	2	3	4		5	X	6 weeks to full
(check all that apply)								semester
OTHER FORMAT (specify)								
Mode of delivery (specify	Lecture							
lecture, field trips, labs, etc)								
9. CONTACT HOURS PER WE	EK:	3	LECTURE		AB			PRACTICUM
			hours/weeks	h	ours /w	eek		hours /week
Note: # of gradity and based and	contact hours	. 800 min	utes of lecture:	=1 credit.	2400 mir	utes of	lab in	a science course=
Note: # of credits are based on o			-4800 minutes	of practicu				
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11. COURSE CLAS					nsult with	CLA Cu	rriculum Co	ouncil to app	ly S or
H classificatio	п арргорпате	ly; otherwis	e leave field	as blank.					
	ali perili re		Committee Section	restagae 1075	er (Commo		Janes Barrell		
Will this co	urse be used	to fulfill a r	equirement				YES:	NO:	Х
for the bac	calaureate co	re? <b>If YES,</b>	attach forn	1.					00217-00010-001
	which core r		ts it could b	e used to	fulfill:				
O = Oral In	tensive, Format	16	W = Writin	g Intensive,	Format 7		X = Baco	calaureate Cor	e
11.A Is course con	ntent related	to northeri	n, arctic or	circumpol	ar studie	s? If ves	. a "snowt	lake" svmbo	ol will
be added in the pr				NEW BOOK STANDARDS					
	Y	ES			NO	X			
2. COURSE REPEA	ATABILITY:								
Is this course	repeatable for	r credit?		YES		NO	x		
Justification:	Indicate why	the course	can be ren	cated (for					
	course follow								
							E-colored branch	New York Control of the Control	
How many ti	mes may the	course be i	repeated fo	r credit?				TIN	/IES
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	earned for thi							CR	EDITS
If the course	can be repea	ted with va	riable credi	t, what is t	ne maxim	um num	ber of		
	that may be e				ic maxim			CRI	DITS
3. GRADING SYST	EM: Specify	only one	Note: Cha	naina tha	aradina	cuctom	far a saura	Y STEELS IN FINANCIAL	
constitutes a					graung	system	ioi a cours	e later on	
_		ASS/FAIL:							
ESTRICTIONS ON	ENROLLMEN	T (if any)							
4. PREREQUISITES	BIC	) 116X, CHI	EM 106X, or	permission	from inst	tructor			
	These will be	<i>required</i> be	fore the stu	ident is all	owed to	enroll in	the course.		
15. SPECIAL RESTI	RICTIONS CO	ONDITIONS	None						
19. STEEPE REST	uc/10/43, cc	NDITIONS							No. 10
16. PROPOSED CO	OURSE FEES	\$0						week but in the	
Has a	memo been	submitted t	through you	ir dean to	the Prove	et for fe	e approval		
		submitted (	in ough you	ur deari to	the Flove	031 101 16	Yes/No		

Has the course been offered as special topics or trial course previously?	No	
Yes/No		
If yes, give semester, year, course #, etc:		6

#### 18. ESTIMATED IMPACT

WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.

This course will be part of Dr. Brennan Smith annual workload. This course will require access to a room with video conference equipment. Blackboard will also be used to distribute course deliverables.

#### 19. LIBRARY COLLECTIONS

Have you contacted the library collection development officer (kljensen@alaska.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and services available for the proposed course? If so, give date of contact and resolution. If not, explain why not.

No Yes X

Contact Date to Ms. Karen Jensen: July 26, 2013 by e-mail; Resolution Date: July 29, 2013 The library will have the resources needed for the course.

#### 20. IMPACTS ON PROGRAMS/DEPTS

What programs/departments will be affected by this proposed action? Include information on the Programs/Departments contacted (e.g., email, memo)

B.S. Degree in Fisheries, Fisheries Division, School of Fisheries and Ocean Sciences. Nutrition courses are offered in other programs. Instructors have been contacted and assured the lack of overlap and the need for the course. The proposed course may also attract Biology and wildlife students from College of Natural Science & Mathematics as well as students from the College of Natural Science & Mathematics. This could conflict with schedules of courses from other academic departments. Specifically, Dr. Perry Barboza, instructor of the BIOL 459 course was contacted to determine how this course would affect Dr. Barboza's Wildlife Nutrition Course (BIOL 459) in terms of offering times and content overlap. Dr. Barboza was very enthusiastic about the creation of the course and verbally stated a real need. An email from Perry is below:

#### Brennan:

Although there is some overlap between your proposed course and Wildlife Nutrition, the courses differ substantially in scope (3 credit lecture vs. 4 credit lab and lecture), level (300 vs 400), focus (individual animal vs. population), and audience (fisheries vs. general biology and wildlife management).

Good luck with the first offering. Best Regards, Perry

#### 21. POSITIVE AND NEGATIVE IMPACTS

Please specify **positive and negative** impacts on other courses, programs and departments resulting from the proposed action.

This course will positively impact the B.S. Fisheries Program. The proposed course is targeted at the biochemical and practical application of nutrition sciences in fisheries. Currently, there is no nutrition course targeted at fisheries students. This course would be beneficial to students by providing a needed curriculum in the understanding of how and why nutritional conditions (feed, environmental, and physiology) effect the overall wellbeing of fish, This course would also benefit the fisheries division by providing a 300 level course in the fall semester of odd number years. Currently, 300 level fisheries courses are lacking in the fall semester. Instructors from similar courses in other academic departments were contacted. Through conversations with theses instructors it was determined that the content of this

course is unique from other courses offered through the UAF. For this reason, there are no major negative impacts foreseen in the creation of this course to courses from other academic departments.

# JUSTIFICATION FOR ACTION REQUESTED

The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. Use as much space as needed to fully justify the proposed course.

The objective of the B.S. degree in fisheries is to "prepare students for careers studying the biology and ecology of fishes, managing fish stocks, conducting research and more." Currently, the students in the B.S. Fisheries Program are not being offered a course on nutrition. Nutrition science is a critical discipline for understanding the cause effect relationships between fish health and fishery management and assessment. For example, environmental, genetics, reproductive cycles, feed, and various stresses affect the overall health and condition of fish as individuals and as fish populations by effecting how nutrients are metabolized. Other courses offered focus on environment, stock assessment, fish reproduction, or fisheries management. While this course does not cover this material in any kind of detail, it does focus on understanding the biochemical aspects of metabolism and how external factors (covered in other courses) influence metabolic pathways and fish health. Understanding these relationships, will better prepare students for careers studying the biology and ecology of fishes, managing fish stocks, conducting research and more.

By taking this course, the students will obtain a more complete knowledge of fisheries science.

APPROVALS: Add additional signature lin	ies as neeueu.		
Just Let		Date	09/03/13
Signature, Chair, Program/Department of:	Fisheris Div	Soin	`
Sutlet		Date	09/03/13
Signature, Chair, College/School Curriculu	m Council for Spas	Cumi	In Counte
MM		Date	f, 4,201)
			N. C.
Signature, Dean, College/School of:	SPE		, , , , , , , , , , , , , , , , , , ,
Signature, Dean, College/School of:  Offerings above the level of approved p	programs must be approv	ved in ad	vance by the Provost.
	programs must be approv	/ed in ad	vance by the Provost.

	Date	
Signature, Chair		
Faculty Senate Review Committee:Curriculum Rev	ewGAAC	
Cara Pariany SADA		
Core ReviewSADA		
DITIONAL SIGNATURES: (As needed for cross-listin	a and/or stacking)	
	g arra, or stacking,	
	Date	
Signature, Chair, Program/Department	all is	
	all is	
Signature, Chair, Program/Department	Date	
Signature, Chair, Program/Department of:	Date	
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Signature, Chair, Program/Department of:	Date	

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ATTACH COMPLETE SYLLABUS (as part of this application). This list is online at:

http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/uaf-syllabus-requirements/

The Faculty Senate 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 (or changes to it) may be denied.

# 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 will 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:
$\square$ Name, $\square$ office location, $\square$ office hours, $\square$ telephone, $\square$ email address.
3. Course readings/materials:
☐ Course textbook title, ☐ author, ☐ edition/publisher.
$\square$ Supplementary readings (indicate whether $\square$ required or $\square$ recommended) and
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 <i>strongly</i> recommended, and
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 specific 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:
☐ Specify course rules, including your policies on attendance, tardiness, class participation, make-up exams, and
plagiarism/academic integrity.
10. Evaluation:
□ Specify how students will be evaluated, □ what factors will be included, □ their relative value, and □ how they
will be tabulated into grades (on a curve, absolute scores, etc.)   Publicize UAF regulations with regard to the
grades of "C" and below as applicable to this course. (Not required in the syllabus, but is a convenient way to

publicize this.) Link to PDF summary of grading policy for "C":
$\underline{http://www.uaf.edu/files/uafgov/Info-to-Publicize-C\_Grading-Policy-UPDATED-May-2013.pdf}$
11. Support Services:
☐ Describe the student support services such as tutoring (local and/or regional) appropriate for the course.
12. Disabilities Services: Note that the phone# and location have been updated. http://www.uaf.edu/disability/
The Office of Disability Services implements the Americans with Disabilities Act (ADA), and ensures that UAF
students have equal access to the campus and course materials.
☐ State that you will work with the Office of Disabilities Services (208 WHITAKER BLDG, 474-5655)to
provide reasonable accommodation to students with disabilities.

5/21/2013

# FISH F394 Fish Nutrition Fall 2014

Monday - Friday: 9:30 - 11:30 a.m.

<u>Instructor</u> <u>Office Hours</u>

Dr. Brennan M. Smith, Assistant Professor Kodiak Seafood and Marine Science Center 118 Trident Way

Kodiak AK 99615 Tel: 907-486-1531

E-mail: bmsmith10@alaska.edu

Meeting Times 1:00 – 2:30 p.m., Tu - Th, 225 Kodiak Seafood and Marine

Science Center and by video conference

## **Course Reading Materials**

A majority of the course readings will be in the form of power point lectures. These lectures will be comprised of information taken from various optional reading sources. Optional text books/readings will be from:

Fundamentals of Biochemistry: Life at the Molecular Level, 4th Edition Donald Voet, Judith G. Voet, Charlotte W. Pratt John Wiley &Sons, Inc., 2013, ISBN: 978-0470-54784-7

National Research Council (NRC): Nutrient requirements of fish and shrimp. The National Academies Press, Washington, D.C., 2011, ISBN: 978-0-309-16338-5

### **Course Description**

Introduction of the concepts and principles of nutrition; biochemical pathways and processes for nutrient utilization; basics of nutrients and their digestion and metabolism; fundamentals of fish nutrition. Prerequisites: BIO 116X; CHEM 106X; or permission of instructor. 3 credits (3 + 0).

## **Instructional Methods**

Course material will be presented in 90 min lectures as power point presentations and supplemental handouts (journal articles, diagrams, etc...). Course material will be put online prior to each lecture. It is the student's responsibility to bring his or her materials to class.

## **Course Goals and Learning Outcomes**

- 1. Develop a working knowledge of the basic principles of nutrition.
- 2. Gain an understanding of nutrient digestion, metabolic pathways, and nutrient utilization.
- 3. Apply knowledge of nutrition, digestion, metabolism, and nutrient utilization in practical/real-world scenarios.
- 4. To sharpen critical thinking, written and oral communication, and professional skills relative to nutrition and science issues.

## Statement for Academic Accommodations for Students with Disabilities

Any student with a disability who needs a classroom accommodation, access to technology or other academic assistance in this course should contact the instructor immediately as well as the Office of Disabilities Services (208 WHITAKER BLDG, 474-5655). The instructor will work with the Office of Disabilities Services to provide reasonable accommodation to students with disabilities.

#### **Classroom Conduct**

All student activities in this course are governed by the Student Code of Conduct as outlined in the UAF catalog.

All assignments submitted are to be entirely your own work, unless you receive specific instructions to the contrary. All aspects of your course work are covered by the Honor system. Any suspected violations (e.g. cheating, plagiarism) will be promptly reported and appropriate action(s) will be taken. Additionally, you will receive a zero for that assignment or exam; two such violations and you will automatically fail this course. Honesty in your academic work will develop into professional integrity. Students who engage in behavior that disrupts the learning environment may be asked to leave the class.

### **Homework Assignments**

A total of three homework assignments will be given. These assignments will vary, but at least one assignment will contain two parts: A two page review of a peer reviewed journal article assigned by the instructor. The written portion of this exercise will be worth 25 points. The second portion of this exercise is a brief oral presentation that will be presented in class and will be worth 25 points. Other homework assignments will equal 25 points each. Assignment due dates will be assigned during the "Homework assigned/presentation guidelines" lecture.

## Quizzes

A total of ten quizzes will be randomly given over the course of the semester. Each quiz is worth a total of 10 points. Advanced notice of quizzes will be given in most instances.

#### **Exams**

Three lecture exams (100 points each) and the final exam (150 points) will be administered during the semester. Lecture exams are tentatively scheduled for Oct 07 and Oct 23, and Nov 13. You will be allowed 90 minutes to complete these exams. The final exam will be given during the two-hour time period designated by the university.

## Grading

Grades will be assigned using a plus-minus system based on the following scale:

A > 93 A- 90-92.9 B+ 87-89.9 B 83-86.9 B- 80-82.9 C+ 77-79.9 C 70-76.9 C- 65-69.9

If the class average falls below 75%, this scale will be adjusted accordingly. All assignments are due at the beginning of the indicated class period. Late assignments will be docked 10% of the total exercise point value for each day late and missed exams or class discussion periods will be assigned a zero score. Grades reduction due to late assignments or academic dishonesty will **NOT** be factored into adjustment of the grading scale. If you cannot take an exam, turn in an assignment, or attend a class discussion period for a legitimate reason, it is your responsibility to contact the instructor prior to the date in question in order not to receive a penalty. With the exception of emergencies, exam make-up or late assignment requests will only be honored if a legitimate reason is provided to the instructor in writing at least one week prior to that date. Point and percentage values for each evaluation component are as follows:

Grading	points
Quizzes	100
Homework and Presentation	100
Regular Exams (three)	300
Final Exams	150
Total Points	650

# **LECTURE OUTLINE**

<b>Topic</b>	<b>Date</b>	Readings
Introduction to nutrients	Sep 04	Course notes
Introduction to nutrients (cont)	Sep 09	Course notes
Comparative digestive physiology	Sep 11	Course notes
		NRC Chap. 3
Comparative digestive physiology (cont)	Sep 16	Course notes
		NRC Chap. 3
Components of Feed		
Protein.	Sep 18	Course notes
		Voet Chap. 4, 5
		NRC Chap. 5

LipidSep 23	Course notes
	Voet Chap. 9
	NRC Chap. 6
CarbohydrateSep 25	Course notes
	Voet Chap. 8
	NRC Chap. 7
Ash (Min. & Vit.) Sep 30	Course notes
Exam reviewOct 02	
Exam Oct 07	
Homework assigned/presentation guidelinesOct 09	
Components of Feed (cont)	
Analysis of Oct 14	Course notes
	NRC Chap. 2
Metabolism	NRC Chap. 4
ProteinOct 16	Course notes
	Voet Chap. 21
	NRC Chap. 5
Cholesterol and Lipid/ exam review Oct 21	Course notes
0.00.000 and 2.p.m c.m. 101.011	Voet Chap. 20
	NRC Chap. 6
Exam Oct 23	Tite chap. o
Energy (ATP)Oct 28	Course notes
	Voet Chap. 14
	NRC Chap. 4
Energy (ATP pathways)	Course notes
Zhorgy (XXXX paux najo)	Voet Chap.16, 17
	18
	NRC Chap. 4
Energy (ATP pathways cont.)	Course notes
	Voet Chap.16, 17
	18
	NRC Chap. 4
Energy (ATP turnover)	Course notes
	Voet Chap.16, 17
	18
	NRC Chap. 4
Exam review	
Exam Nov 13	
Nutrition and exercise/stress	Course notes
	NRC Chap. 4
Reproduction and nutrition	Course notes

	NRC Chap. 4
Fish digestion	Course notes
	NRC Chap. 3
Thanks GivingNov 27	
Fish Diets	Course notes
	NRC Chap. 2, 4
Student presentations	
Presentations/Final Review	

		a.

# **Curriculum Committee SFOS**

Members: Trent S

Trent Sutton (Chair)

Brenda Konar Ana Aguilar-Islas Andres Lopez

21 August 2013

**New Course** 

**Course Number:** FISH 330 **Course Title:** Animal Nutrition

**Instructor:** Smith

First Time of Offering: Yes

### **General Recommendations:**

The Committee recommends changing this course from a New Course to a Trial Course in order to evaluate the enrollment demand for this course as an elective in Fisheries degree programs. For both the form and syllabus, there were a number of typographical errors that need to be resolved for the final submission.

### **Faculty Senate Form:**

# Clarify and Address the following:

- Please change the course from a New Course to a Trial Course option.
- The course title in Section 3 does not match the course title in Section 10. Please resolve.
- Frequency of Offering Fisheries electives are offered on an every other year basis; as a result, the Committee recommends a similar course offering frequency as having too low of enrollment by offering the course annually would lead to the course not being offered at all.
- For contact hours per week, please remove "2 hours for finals". It is not necessary to list that as it is mandatory.
- For Catalog Description, it is unclear what you are referring to by "contrasted with humans and agricultural species". Contrasting fish with people and cows/sheep/swine? If so, why?
- For Estimated Impact, remove "and will be used to meet the requirements of Fisheries unit criteria".
- For Library Collections, it is great that you contacted the library. However, you must also state the outcome of that contact do they have the library resources available that are needed for your course?
- Impacts There is a course BIOL 459 Wildlife Nutrition that could be similar to your course. You will need to contact the instructor to make sure that there is not overlap with your course and that course. Will this course be applicable for students in other degree programs? If so, which ones?

- Positive and Negative Impacts If other programs could be impacted (e.g., Biology – BIOL 459), need to state what those impacts would be to those programs. Also, several typographical errors in this section.
- Justification disciple should be discipline.

### Syllabus:

- Be sure to follow the syllabus checklist and address all required syllabus components per the last page of the Faculty Senate form.
- For quizzes, remove sentence three and add the word "randomly" to sentence one between "be" and "given".
- Just so that you are aware, if you have students at distant locations, they keep the exams. It is hard to enforce that policy when you have to send exams electronically.
- What are the course readings (what do the course notes contain?)? It would be hard to justify a 300-level course without any readings outside of course notes.