OTHER HOURS (specify type)

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3-Trial

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

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

	TRI	AL COURS (A		NEW CO		PROPOS	AL				
UBMITTED BY											
Department	MSL			College	School					SFOS	
Prepared by	Eric Collins			Phone							
Email Contact	recollins@alaska.edu			Faculty	Faculty Contact			X6482 Eric Collins			
1. ACTION DI	ESIRED (CHECK ONE).	Tı	rial Cours	e	X	1	New Cour	rse			
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freshwater and marine fisheries.	Prerequisites: COMM F131X or COMM F141X; ENGL H F425; or permission of instructor. Cross-listed with 1	L F111X; ENGL F211X
providing a basic background in co- transcriptomics using example data quantitative graduate-level courses.		s, metagenomics, and idents for other lution (BIOL F260, O
a. COURSE CLASSIFICATIONS: Und	dergraduate courses only. Consult with CLA Curriculum C	Council to apply S or H
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If the course can be repeated with may be earned for this course?	variable credit, what is the maximum number of credit hou	cre that CREDITS
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PREREOUISITES Undergr	raduate course in genetics or evolution (e.g. BIOL F260, F481) or equivalent or by permission of the instructor	BIOL F433, BIOL F445,
These will be r	equired before the student is allowed to enroll in the course	
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A positive impact will be the offering of a new, exciting course for undergraduates available with the MSL Oceanography Minor. This course will focus on modern computational tools available to students in environmental fields including marine biology, biological oceanography, wildlife biology, and conservation biology. This course does not significantly overlap with existing course offerings.

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.

Recent advances in DNA sequencing technology have turned biology from a data-sparse into a data-rich field. Over the past decade, the cost to sequence DNA has dropped by over 1000-fold, making the ability to access these data an integral training requirement for the next generation of biologists. This course will focus on modern computational tools available to students in environmental fields including marine biology, biological oceanography, wildlife biology, and conservation biology.

APPROVALS: Add additional signature lines as needed. Date da konar Signature 334 hair, Program/Department of: August 24, 2015 <u>Andrés López</u> Date Signature Chair, College/School Curriculum Council for: SFOS (Ana Aguilar-Islas) August 24, 2015 Trent M Sutton Date Sissentsuze Dean, College/School of: sfos Offerings above the level of approved programs must be approved in advance by the Provost. Date Signature of Provost (if above level of approved programs) ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE Date Signature, Chair Faculty Senate Review Committee: ___Curriculum Review ___GAAC Core Review ___SADAC ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking) Date Signature, Chair, Program/Department of: Date Signature, Chair, College/School Curriculum Council for: Date Signature, Dean, College/School of:

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 e 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: ☐ Title, ☐ number, ☐ credits, ☐ prerequisites, ☐ location, ☐ 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, telephone, email address.
3. Course readings/materials:
☐ Course textbook title, ☐ author, ☐ edition/publisher.
☐ Supplementary readings (indicate whether ☐ required or ☐ 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 strongly 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 arification, games, journal writing, use of Blackboard, audio/video conferencing, etc.).
8. Course calendar:
A schedule of class topics and assignments must be included. <u>Be specific</u> 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 applicable to this course. (Not required in the syllabus, but is a convenient way to publicize this.) Link to PDF summary of gradin policy for "C":
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

Ecological and Evolutionary Genomics MSL F494 (1+3)

Prerequisites: Undergraduate course in genetics or evolution (BIOL F260, BIOL F433, BIOL F445, or BIOL F481) or equivalent or graduate standing or by permission of the

instructor. (1+3)

Meeting time: W 11:45—12:45 + lab (XXX)

Location: O'Neill 201

Instructor: Eric Collins **Office**: 234 Irving II

Hours: M 11:45—12:45 or by request

Phone: 474-6482

Email: recollins@alaska.edu

Textbook: None. Readings will be taken from the primary literature

Supplemental Reading:

"Practical Computing for Biologists" by Haddock and Dunn. ISBN:0878933913. 1st Ed. (recommended)

"Introduction to Ecological Genomics" by van Straalen and Roelofs. ISBN:0199594694. 2^{nd} Ed. (recommended)

Supplies: Internet-enabled portable computer is required. Some laptops are available from the GPMSL academic office, please contact the instructor for assistance.

Course Content: Recent advances in DNA sequencing technology have turned biology from a data-sparse into a data-rich field. Over the past decade, the cost to sequence DNA has dropped by over 1000-fold, making the ability to access these data an integral training requirement for the next generation of biologists. This course will focus on modern computational tools available to students in environmental fields including marine biology, biological oceanography, wildlife biology, and conservation biology.

Expected Proficiencies: Undergraduate-level understanding of genetics and evolution.

Catalog Description:

MSL F494 Ecological and Evolutionary Genomics

2 Credits Offered As Demand Warrants

Uses free, open-source bioinformatics software to teach concepts in the fields of ecology and evolution while providing a basic background in computing and programming. Covers methods in genomics, metagenomics, and transcriptomics using example datasets derived from the marine environment. Prepares students for other quantitative graduate-level courses. Prerequisites: Undergraduate course in genetics or evolution (BIOL F260, BIOL

F433, BIOL F445, or BIOL F481) or equivalent or graduate standing or by permission of the instructor. (1+3)

Course Goals: The goal of this course is to introduce modern computational tools in ecological and evolutionary genomics to students in environmental fields like marine biology, biological oceanography, fisheries, wildlife biology, and conservation biology.

Student Learning Outcomes:

Students will gain:

- 1. The ability to use a command-line environment to conduct routine tasks on the computer (e.g. the bash shell).
- 2. The skills to write simple scripts in at least one programming language (e.g. perl, python, matlab, or R).
- 3. Ability to find, download, install, and use software and datasets from public repositories (e.g. from github or BioLinux).
- 4. Basic skills applying genomic concepts and algorithms in ecology and evolution (e.g. annotation, blast, mcl, k-mers, maximum likelihood).
- 5. Ability to analyze a real environmental genomics dataset.

Instructional Methods: The course time will be split between lectures and computer labs where students will gain hands-on experience working with real datasets.

Tentative Course Calendar:

Date	Topic (lecture + lab)	Background reading material
Week 1	basic skills in computing and bioinformatics + CLI, bash shell, github	http://swcarpentry.github.io/shell-novice
Week 2	database searching + BioLinux and BLAST	http://environmentalomics.org/bio-linux/
Week 3	next generation sequencing + BaseSpace	https://basespace.illumina.com/home/index
Week 4	taxon assignment + kraken	http://www.genomebiology.com/2014/15/3/R46
Week 5	population structure + structure	http://www.ncbi.nlm.nih.gov/pubmed/10835412
Week 6	diversity + mothur	http://aem.asm.org/content/early/2013/06/17/AEM.01043-13
Week 7	metagenomics + MG-RAST	http://www.ncbi.nlm.nih.gov/pubmed/18803844
Week 8	ecogenomics + MetaCyc	http://nar.oxfordjournals.org/content/42/D1/D459.long
Week 9	molecular evolution + MrBayes, PhyML	http://www.ncbi.nlm.nih.gov/pubmed/11524383
Week 10	genomic architecture + Galaxy	http://www.genomebiology.com/2010/11/8/R86
Week 11	functional networks + KEGG	http://www.ncbi.nlm.nih.gov/pubmed/24214961
Week 12	whole genome comparisons + IMG/m	http://nar.oxfordjournals.org/content/40/D1/D115.full
Week 13	concatenated phylogenies + Phylosift	https://peerj.com/articles/243/
Week 14	annotation of genomes + RAST	http://www.biomedcentral.com/1471-2164/9/75

Evaluation: Students will be evaluated based on their level of enrollment, but each grade will be based on class and computer lab participation, a writing project, and a final presentation. Grading is absolute.

Class Participation (10%), including on-time attendance and engagement with classmates, will be expected of each student. For each late arrival or absence 1% will be subtracted from the final grade to a maximum of 10%.

Computer Lab Exercises (40%) will be completed by small teams of students who complete a short report on each computer lab. The reports will be tailored to each lab, but may include reproducible computer code, computer logs, plots of results, and brief explanations of each output. Each student will have one week to upload his or her report to a personal github account. Reports will be graded complete/incomplete based on the expectations provided in each lab. Incomplete reports will receive 0 points. Complete reports will be required for 8 of 14 labs (at least 4 of the first 7 and 4 of the second 7).

A **Research Project** (40%) will be required. The product will be a scientific manuscript (~4000 words) based upon an independent computational analysis using skills developed in class. The topic of the *Research Project* will be agreed upon with the instructor by week 4, and may use public datasets or the student's own dataset. Students may use computer lab time to work on their research projects.

The *Final Presentation* (10%) will be based on the *Research Project*; students are expected to explain their findings in a professional manner in a 15-minute conference-style presentation during Finals Week.

Course Policies: Students are expected to read the relevant material prior to the lectures and attend class in a timely manner. Active participation is expected. The use of cell phones or other electronic communications (e.g. email, twitter, facebook etc.) during class is considered inappropriate. Students should be familiar with the UAF Honor Code (you'll find it in the catalog). Cheating and plagiarism will not be tolerated. Any student found cheating during the exams or to have plagiarized or fabricated statements (including passages from web pages) will receive an automatic 'F' for the **class**.

The following non-curved grading system will be used for the entire course:

A+ >95%	
A >90 – 95%	Grades below C– will not count toward the major or
A->85-90%	minor degree requirements
B+ >80 - 85%	D 50 – 60%
B >75 - 80%	F <50
B->70 - 75%	
C+ >67 - 70%	
C >63 - 67%	
C->60-63%	

Support Services: At UAF, the Office of Disability Services (203 Whitaker Bldg; 474-5655; TTY 474-1827; fydso@uaf.edu) ensures that students with physical or learning disabilities have equal access to the campus and course materials. If you have specialized needs, please contact this office or the instructor to make arrangements. The UAF Writing Center (801 Gruening Bldg) is available for helping students in brainstorming and generating topics, organizing ideas, developing research strategies, the use of citations, and editing for clarity and correctness. Contact them at http://www.uaf.edu/english/writing-center.