

Cover Sheet: Request 11447

MCB 4XXX - Prokaryotic Diversity

Info

Process	Course New Ugrad/Pro
Status	Pending
Submitter	Christner, Brent Craig xner@ufl.edu
Created	2/3/2017 11:41:22 AM
Updated	8/31/2017 2:29:29 PM
Description of request	This is a new joint undergraduate/graduate course introducing students to the diversity of Bacteria and Archaea.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CALS - Microbiology and Cell Science 514910000	Triplett, Eric		4/6/2017
Deleted Christner_MicroDiv_Syllabus_v2.docx					2/3/2017
Added uccconsult_Christner_with emails.pdf					2/9/2017
College	Recycled	CALS - College of Agricultural and Life Sciences	Brendemuhl, Joel H	The CALS CC decided to recycle this item back to the department. Items that need to be addressed will be forthcoming in an email to the submitter.	4/23/2017
No document changes					
Department	Approved	CALS - Microbiology and Cell Science 514910000	Triplett, Eric		4/23/2017
No document changes					
College	Recycled	CALS - College of Agricultural and Life Sciences	Brendemuhl, Joel H	Department approved prior to corrections being made.	4/23/2017
No document changes					
Department	Approved	CALS - Microbiology and Cell Science 514910000	Triplett, Eric		4/24/2017
Deleted Christner_ProkDiv_Syllabus_v3.docx					4/24/2017
Added Christner_consult for name change.pdf					4/24/2017
College	Approved	CALS - College of Agricultural and Life Sciences	Brendemuhl, Joel H	Requested edits by the CALS CC (5/12/17) have been addressed.	8/31/2017
Added Christner_ProkDiv_Syllabus_v4.docx					6/19/2017
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			8/31/2017

Step	Status	Group	User	Comment	Updated
No document changes					
Statewide Course Numbering System					
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
College Notified					
No document changes					

Course|New for request 11447

Info

Request: MCB 4XXX - Prokaryotic Diversity

Description of request: This is a new joint undergraduate/graduate course introducing students to the diversity of Bacteria and Archaea.

Submitter: Brendemuhl, Joel H brendj@ufl.edu

Created: 8/31/2017 2:28:02 PM

Form version: 3

Responses

Recommended Prefix MCB

Course Level 4

Number XXX

Category of Instruction Advanced

Lab Code None

Course Title Prokaryotic Diversity

Transcript Title Prokaryotic Diversity

Degree Type Baccalaureate

Delivery Method(s) On-Campus

Online

Co-Listing Yes

Co-Listing Explanation Additional requirements for graduate credit: Graduate student exams will consist of more essay questions and be graded on different standards from those designed for undergraduate students. Graduate students are also required to submit a research paper of at least 5 pages in length. The paper should focus on a specific topic rather than a single research article. Submit your research paper topic through Canvas by 23 May 2017. The paper is due on 7 June 2017 and should be submitted through Canvas. To obtain a passing grade (i.e., C or higher), graduate students must accrue at least 73% of the possible points in the course.

Effective Term Earliest Available

Effective Year Earliest Available

Rotating Topic? No

Repeatable Credit? No

Amount of Credit 3

If variable, # min 3

If variable, # max 3

S/U Only? No

Contact Type Regularly Scheduled

Weekly Contact Hours 7.25

Course Description This course is an introduction to the diversity of Bacteria and Archaea. Discussions will provide a conceptual and historical framework for understanding their 1) origin and evolution; 2) morphological, metabolic, and molecular characteristics; 3) genetic and physiological diversity; 4) importance in human/animal/plant health; and 5) roles in elemental cycling.

Prerequisites MCB 3020(C) or MCB 3023 (C)

Co-requisites None

Rationale and Placement in Curriculum Currently there is not a course offered that covers the expanding body of knowledge on microbial diversity. Based on the role of microbes in the natural order of things, this topic is fundamental to numerous disciplines.

Course Objectives The specific objectives of this course are to expose students to the following topics:

- Origin, evolution, and genetic diversity of microbial life;

- Physiological diversity of metabolic and bioenergetic pathways;
- Microbial species and speciation;
- Phylogenetic and functional analysis of (meta)genomic data;
- Characterization of uncultivated microbial lineages (microbial "dark matter"); and
- Linkage between microbial diversity, function, and ecology;

Course Textbook(s) and/or Other Assigned Reading Readings will be assigned from Brock Biology of Microorganisms (BBOM; Madigan, M.T., J.M. Martinko, K.S. Bender, D.H. Buckley, and D.A. Stahl., Pearson). Any of the following BBOM editions are acceptable for this course: 15th, 14th or 13th.

The following supplemental readings are also required:

1. Biller, S.J., et al. 2015. Prochlorococcus: the structure and function of collective diversity. *Nature Rev. Microbiol.*, 13:13-27.
2. Brown, C.T., et al. 2015. Unusual biology across a group comprising more than 15% of domain Bacteria. *Nature*, 523:208-211.
3. Carini, P., et al. 2013. Nutrient requirements for growth of the extreme oligotroph 'Candidatus Pelagibacter ubique' HTCC1062 on a defined medium. *ISME J.*, 7:592-602.
4. Fraser, F., et al. 2009. The bacterial species challenge: making sense of genetic and ecological diversity. *Science* 323:741-46.
5. Giovannoni, S.J., et al. 2005. Genome streamlining in a cosmopolitan oceanic bacterium. *Science*, 309:1242-1245.
6. Guy, L. and Ettema, T.J., 2011. The archaeal 'TACK' superphylum and the origin of eukaryotes. *Trends Microbiol.*, 19:580-587.
7. Huber, H., et al. 2002. A new phylum of archaea represented by a nanosized hyperthermophilic symbiont. *Nature*, 417:63-67.
8. Hug, L.A., et al. 2016. A new view of the tree of life. *Nature Microbiol.*, 1:16048.
9. Ward, D.M. 2006. A macrobiological perspective on microbial species. *Microbe*, 1:269-278.
10. Zaremba-Niedzwiedzka, K., et al. 2017. Asgard archaea illuminate the origin of eukaryotic cellular complexity. *Nature*, 541:353-358.

Weekly Schedule of Topics Week 1: Introduction and historical context, assessing microbial diversity, microbial evolution, and species/speciation.

Week 2: Bioenergetics, ecological diversity, overview of the Bacteria and Archaea, and the Proteobacteria.

Week 3: Proteobacteria (cont.), Phototrophs, Firmicutes, and Actinobacteria.

Week 4: Bacteroides, Spirochetes, Plantomycetes, Chlamydia, and Deinococci.

Week 5: Deep-branching bacteria and hyperthermophilic archaea.

Week 6: Methanogens, halophilic archaea, TACK superphylum, and the Asgard archaea.

Links and Policies No additional policies are applicable to this course.

Grading Scheme Overall grading percentages:

Exam I	25%	
Exam II	25%	
Final exam	25%	
Written assignment	20%	
Class and online participation		5%

Grading Policy

A	93-100%
A-	90-92%
B+	87-89%
B	83-86%
B-	80-82%

C+ 77-79%
C 73-76%
C- 70-72%
D+ 67-69%
D 63-66%
D- 60-62%
E Below 60%

Additional information on grades and grading policies:
<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

Instructor(s) Brent C. Christner

Prokaryotic Diversity

MCB 4934/6937, Summer A 2017

Instructor

Brent C. Christner, xner@ufl.edu Microbiology and Cell Science, MCB 1252, (352) 392-1179

Office hours: W 1100-1200

Preferred methods for communication with the instructor regarding the course is through email with the subject "MCB 49346937"

Delivery Method/Meeting time

Online

Credits and Prerequisites

Three. Undergraduates require MCB 3020 or MCB 3023 with minimum grades of C.

Course Description

This course is an introduction to the diversity of *Bacteria* and *Archaea*. Discussions will provide a conceptual and historical framework for understanding their 1) origin and evolution; 2) morphological, metabolic, and molecular characteristics; 3) genetic and physiological diversity; 4) importance in human/animal/plant health; and 5) roles in elemental cycling.

Course Objectives/Goals/Learning Outcomes

The specific objectives of this course are to expose students to the following topics:

- Origin, evolution, and genetic diversity of microbial life;
- Physiological diversity of metabolic and bioenergetic pathways;
- Microbial species and speciation;

- Phylogenetic and functional analysis of (meta)genomic data;
- Characterization of uncultivated microbial lineages (microbial “dark matter”); and
- Linkage between microbial diversity, function, and ecology;

Course Material and Assignments

Assignments: Instructions for and submission of assignments will be through Canvas (<http://elearning.ufl.edu/>)

Exams: There will be 2 exams and a cumulative final exam. Each exam will consist of multiple choice (60%), short answer (30%), and essay (10%) questions.

Written assignment (for undergraduate students): All students must submit a critical analysis of a research paper focusing on some aspect of bacterial or archaeal biology. Papers are to be based on an original research article published in the last 5 years (i.e., published no earlier than 2012). The paper should be composed of 4 sections: (i) the objective(s) of the research; (ii) the methods used to address this; (iii) a summary of the authors' results and conclusions; and (iv) a critical analysis of the study's contribution to the body of knowledge. Length should be 3 full double-spaced pages (1 inch margins) using 12-pt Times New Roman font. Each student must choose a research article and submit a pdf version through Canvas by **23 May 2017**. I am available during my scheduled office hours if you need help selecting an article. The paper is due on **7 June 2017** should be submitted through Canvas.

Additional requirements for graduate credit: Graduate student exams will consist of more essay questions and be graded on different standards from those designed for undergraduate students. Graduate students are also required to submit a research paper of at least 5 pages in length. The paper should focus on a specific topic rather than a single research article. Submit your research paper topic through Canvas by **23 May 2017**. The paper is due on **7 June 2017** and should be submitted through Canvas. To obtain a passing grade (i.e., C or higher), graduate students must accrue at least 73% of the possible points in the course.

Participation: Students are expected to participate in all class/online discussions.

Scientific literature: Scientific research papers will be assigned and discussed in this course. These materials will be made available to students through the Canvas e-Learning site (<http://elearning.ufl.edu/>).

Required Textbooks

Readings will be assigned from *Brock Biology of Microorganisms* (BBOM; Madigan, M.T., J.M. Martinko, K.S. Bender, D.H. Buckley, and D.A. Stahl., Pearson). Any of the following BBOM editions are acceptable for this course: 15th, 14th or 13th.

There are also supplemental readings of scientific research papers, which will be available for download from Canvas. Refer to the course schedule for the dates when specific articles will be discussed in lecture.

Weekly Course Schedule

Tentative course calendar (Subject to change)

Class	Date	Activity	Readings from BBOM [†] 15 th /14 th /13 th eds.
1	8 May (M) Week 1	Introduction and historical context	1 / 1 / 1
		Historical context	1 / 1 / 1
2	9 May (T) Week 1	Early perspectives on microbial diversity	5, 13, & 19 / 5, 12, & 18 / 5, 16, & 22
3	10 May (W) Week 1	Molecular microbial diversity: The new paradigm	13 / 12 / 16
4	11 May (Th) Week 1	Microbial evolution	13 / 12 / 16

5	12 May (F) Week 1	Species and speciation	13 / 12 / 16 ⁹ Ward (2006) ⁴ Fraser et al. (2009)
6	15 May (M) Week 2	Bioenergetics: Unity in diversity	3 / 3 / 4
7	16 May (T) Week 2	Ecological diversity	20 / 19 / 23
8	17 May (W) Week 2	Overview of the <i>Bacteria</i> and <i>Archaea</i> I	16 & 17 / 14, 15, & 16 / 17, 18, & 19
	18 May (Th) Week 2	Overview of the <i>Bacteria</i> and <i>Archaea</i> II EXAM I	16 & 17 / 14, 15, & 16 / 17, 18, & 19
9	19 May (F) Week 2	Proteobacteria and chemolithoautotrophy	16 / 15 / 17
10	22 May (M) Week 3	Pelagibacter: a proteobacterium that dominates the biosphere	⁵ Giovannoni et al. (2005) ³ Carini et al. (2013)

11	23 May (T) Week 3	Even more about the Proteobacteria! WRITTEN ASSIGNMENT TOPIC DUE	15 &16 / 14 & 15 / 17
12	24 May (W) Week 3	Anoxygenic photosynthetic bacteria	14 &15 / 13 & 14 / 13 & 17
13	25 May (Th) Week 3	Oxygenic photosynthetic bacteria	14 &15 / 13 & 14 / 13 & 17
14	26 May (F) Week 3	Firmicutes & Actinobacteria	16 / 15 / 18
15	30 May (T) Week 4	Bacteroidetes	16 / 15 / 18
16	31 May (W) Week 4	Spirochetes	15 / 14 / 18
17	1 June (Th) Week 4	Planctomycetes & Chlamydia	16 / 15 / 18
18	2 June (F) Week 4	Deinococci EXAM II	16 / 15 / 18

19	5 June (M) Week 5	The bacterial 'Candidate Phyla Radiation' (CPR)	² Brown et al. (2015) ⁸ Hug et al. (2016)
20	6 June (T) Week 5	Deep-branching bacteria I	16 / 15 / 18
	7 June (W) Week 5	Deep-branching bacteria II WRITTEN ASSIGNMENT DUE	X / 15 / 18
21	8 June (Th) Week 5	Hyperthermophilic archaea I	17 / 16 / 19
	9 June (F) Week 5	Hyperthermophilic archaea II	17 / 16 / 19 ⁷ Huber et al. (2002)
22	12 June (M) Week 6	Methanogens	17 / 16 / 19
23	13 June (T) Week 6	Halophilic archaea	17 / 16 / 19
24	14 June (W) Week 6	The archaeal 'TACK' superphylum	17 / 16 / 19 ⁶ Guy and Ettema (2011)

25	15 June (Th) Week 6	Lokiarchaeota and the Asgard archaea	¹⁰ Zaremba-Niedzwiedzka et al. (2017)
----	------------------------	--------------------------------------	--

	16 June (F) Week 6	Review FINAL EXAM	
--	-----------------------	-----------------------------	--

† Numbers indicate chapters in BBOM (15th ed. / 14th ed. / 13th ed., respectively). Note that some lectures have supplemental readings from journal articles, listed below.

Supplemental readings:

1. ~~Biller, S.J., et al. 2015. *Prochlorococcus*: the structure and function of collective diversity. *Nature Rev. Microbiol.*, 13:13-27.~~
2. Brown, C.T., et al. 2015. Unusual biology across a group comprising more than 15% of domain Bacteria. *Nature*, 523:208-211.
3. Carini, P., et al. 2013. Nutrient requirements for growth of the extreme oligotroph 'Candidatus Pelagibacter ubique' HTCC1062 on a defined medium. *ISME J.*, 7:592-602.
4. Fraser, F., et al. 2009. The bacterial species challenge: making sense of genetic and ecological diversity. *Science* 323:741-46.
5. Giovannoni, S.J., et al. 2005. Genome streamlining in a cosmopolitan oceanic bacterium. *Science*, 309:1242-1245.
6. Guy, L. and Ettema, T.J., 2011. The archaeal 'TACK' superphylum and the origin of eukaryotes. *Trends Microbiol.*, 19:580-587.
7. Huber, H., et al. 2002. A new phylum of archaea represented by a nanosized hyperthermophilic symbiont. *Nature*, 417:63-67.
8. Hug, L.A., et al. 2016. A new view of the tree of life. *Nature Microbiol.*, 1:16048.
9. Ward, D.M. 2006. A macrobiological perspective on microbial species. *Microbe*, 1:269-278.
10. Zaremba-Niedzwiedzka, K., et al. 2017. Asgard archaea illuminate the origin of eukaryotic cellular complexity. *Nature*, 541:353-358.

[Exam Administration - ProctorU]

There In order to maintain an appropriate standard of academic integrity, your identity will be authenticated and your course assessments will be proctored online by ProctorU. You will take your exam electronically through the course website in Canvas, but your exam will be proctored via web camera online by ProctorU.

First, you are required to register through the www.ProctorU.com website at the outset of the semester. Once you've set up your account with ProctorU you will be able to schedule your exam times for this course. The costs of using ProctorU for this course are covered by your university tuition and fees. Additional fees are not required in this process so as long as you schedule your exam times at least 72 hours ahead.

If you schedule your exam within 72 hours of the start time you may be subject to a late registration fee. Be advised this feature is completely optional and you will be charged an additional cost per exam for this feature. Remember, as long as you schedule your exams at least 72 hours out from your start time your ProctorU exam costs are covered with no additional costs to you. are no additional fees for this course.

Evaluation of Learning/Grades

Overall grading percentages:

Exam I 25%

Exam II 25%

Final exam 25%

Written assignment 20%

Class and online participation 5%

[Materials and Supplies Fees]

There are no additional fees for this course.

Grading Policy

A 93-100%

A- 90-92%

B+ 87-89%

B 83-86%

B-	80-82%
C+	77-79%
C	73-76%
C-	70-72%
D+	67-69%
D	63-66%
D-	60-62%
E	Below 60%

Additional information on grades and grading policies:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

Class Attendance and Make-Up Policy

Consequences and deadlines are consistent with university policies in the undergraduate catalog (<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>) and require appropriate documentation.

Exams: If a student misses a scheduled exam for any reason, there will be one opportunity to makeup the exam at the end of the course. The makeup exam will cover the same material but will be in essay format. There will be no early or late finals administered.

Written assignment: The penalty for late turn in of the research paper is deduction of *10 percentage points per day*.

Students Requiring Accommodations

Exams in this course take no more than 60 minutes. All students will be given double that amount of time, two hours, to complete each exam.

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Campus Resources

Resources are available on campus for students having personal problems or lacking

clear career and academic goals, which interfere with their academic performance. These resources include:

Health and Wellness

- U Matter, We Care: If you or a friend is in distress, please contact umatter@ufl.edu or 352 392-1575 so that a team member can reach out to the student.
- Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc/Default.aspx>, 392-1575;
- Sexual Assault Recovery Services (SARS) at the Student Health Care Center, 392-1161.
- For emergencies call: University Police Department, 392-1111 (or 9-1-1 for emergencies). <http://www.police.ufl.edu/>

Academic Resources

- E-learning technical support, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu. <https://lss.at.ufl.edu/help.shtml>.
- Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling. <http://www.crc.ufl.edu/>
- Library Support, <http://cms.uflib.ufl.edu/ask>. Various ways to receive assistance with respect to using the libraries or finding resources.
- Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. <http://teachingcenter.ufl.edu/>
- Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. <http://writing.ufl.edu/writing-studio/>

Course Evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

Class demeanor

Opinions held by other students should be respected in discussion, and conversations that do not contribute to the discussion should be held at minimum, if at all. Contact the instructor immediately if you experience any problem which prevents you from performing satisfactorily in this class.

Netiquette guide for online courses

It is important to recognize that the online classroom is in fact a classroom, and certain

behaviors are expected when you communicate with both your peers and your instructors. These guidelines for online behavior and interaction are known as netiquette.

<http://teach.ufl.edu/wp-content/uploads/2012/08/NetiquetteGuideforOnlineCourses.pdf>

University Honesty Policy

UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code (<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Additional comments regarding academic integrity:

Students are encouraged to discuss material with each other from the course, help each other understand concepts, study together, and even discuss assessment questions with each other once the quiz window is closed. However, the following is considered academic dishonesty, and I expect that no student will ever do any of the following:

- Have another person complete a quiz in this course
- Copy another student’s quiz in this course
- Collaborate with anyone during a quiz in this course
- Discuss the questions and answers of a quiz with other students while the quiz window is still open
- Manipulate and/or distribute any materials provided in this course for any purpose (including course lecture slides).
- Use any materials provided by a previous student in the course

A research paper *in your own words* is required for partial fulfilment of this course and all of the following are considered plagiarism (from <http://www.plagiarism.org>):

- Turning in someone else's work as your own.
- Copying words or ideas from someone else without giving credit.
- Failing to put a quotation in quotation marks.
- Giving incorrect information about the source of the information.
- Changing words but copying the sentence structure of a source.
- Copying so many words or phrases from a source that it makes up the majority of your work, whether you give credit or not.

Plagiarized work is easily detected and university regulations on academic misconduct will be strictly enforced.

Software Use

All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

Microsoft Office 365 Software is free for UF students

<http://www.it.ufl.edu/gatorcloud/free-office-365-downloads/>

Other free software is available at:

<http://www.software.ufl.edu/>

To check for availability of the media and technical requirements, contact the UF Computing Help Desk at (352)392-HELP(4357).

University of Florida Complaints Policy and Student Complaint Process

Most problems, questions and concerns about the course will be resolved by professionally communicating with the instructor.

The University of Florida believes strongly in the ability of students to express concerns regarding their experiences at the University. The University encourages its students who wish to file a written complaint to submit that complaint directly to the department that manages that policy.

If a problem really cannot be resolved by communicating with the instructor or the TAs you can contact

- Residential Course: https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf.
- Online Course: <http://www.distance.ufl.edu/student-complaint-process>.

University of Florida Complaints Policy and Student Complaint Process

The University of Florida and most instructors believe strongly in the ability of students to express concerns regarding their experiences at the University. Most problems, questions and concerns about courses can be resolved by professionally communicating with the instructor. Please try to meet your instructor in person, make an appointment to call, or try to set up a remote meeting through Skype or other media.

If this does not help the University encourages the students who wish to file a written complaint to submit that complaint directly to the department that manages that course. If a problem really persists and cannot be resolved by communicating with the instructor and the department, contact... for

Residential Course: https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf.

Online Course: <http://www.distance.ufl.edu/student-complaint-process>

This said, professionalism is a two-way-street. Unprofessional behavior of students includes, among other things: lack of communication, blaming other people or external factors, lying, affecting others negatively in a group or in the class, not accepting criticism and not being proactive in solving problems or seeking help. Furthermore, faculty often have family and other obligations to tend to. Over the weekend, replies to your inquiries or questions maybe delayed.

If a student is lacking professionalism repeatedly, the instructor has the rights to file formal complaint against the student through the Dean of Student office.

External Consultation Results (departments with potential overlap or interest in proposed course, if any)

Department Soil and Water Science	Name and Title Andrew Ogram, Professor
Phone Number (352)294-3138	E-mail aogram@ufl.edu
Comments Dr. Ogram teaches SWS 4303/5305. Please see attached PDF of correspondence from Dr. Ogram.	

Department Microbiology and Cell Science	Name and Title Julie Maupin-Furlow, Professor
Phone Number 352-392-4095	E-mail jmaupin@ufl.edu
Comments Dr. Maupin-Furlow teaches 4XXX/6XXX (Archaea and Biotechnology). Please see attached PDF of correspondence from Dr. Maupin-Furlow.	

Department Microbiology and Cell Science	Name and Title Jamie Foster, Associate Professor
Phone Number 321-261-3772	E-mail jfoster@ufl.edu
Comments Dr. Foster, teaches MCB 4653. Please see attached PDF of correspondence from Dr. Foster.	

Christner, Brent Craig

From: Ogram, Andrew V
Sent: Thursday, February 02, 2017 5:23 PM
To: Christner, Brent Craig; Maupin, Julie A; Foster, Jamie S
Subject: Re: external consult for course

I think there would likely be some overlap between our courses, but not so much as to cause problems.

Good luck with it, and thanks for checking.

Andy

From: Christner, Brent Craig
Sent: Thursday, February 2, 2017 5:19 PM
To: Ogram, Andrew V; Maupin, Julie A; Foster, Jamie S
Subject: external consult for course

Greetings all.

I am proposing a 4000-level undergrad/6000-level grad course in Microbial Diversity (syllabus attached) for the MCS department. The course is designed to provide the state of knowledge on the diversity of microorganisms in the biosphere, with special emphasis on the domains Bacteria and Archaea.

Please could you review the syllabus to make sure there is not a conflict with your course (Ogram-SWS 4303/5305; Maupin-Furlow-new archeal biotech course; Foster-MCB 4653).

Being aware of your courses, I tried to structure the microbial diversity course to avoid redundancy, but please do let me know if you have concerns about overlap.

Thank you,
-Brent



Brent C. Christner
Associate Professor – Preeminent Scholar
University of Florida
Department of Microbiology and Cell Science
Biodiversity Institute
1355 Museum Drive
Gainesville, FL 32611
Mobile: 225-247-3150
Office: 352-392-1179
Twitter: @DrXner
<http://www.brent.xner.net/>

Christner, Brent Craig

From: Reddy, K. Ramesh
Sent: Sunday, February 05, 2017 9:17 AM
To: Christner, Brent Craig; Ogram, Andrew V
Subject: RE: external consult for course

Brent: I am fine with it. To avoid any overlap, it may help if you guest lecture couple of classes in Andy's course, and Andy guest lectures couple of classes in your course. This will give exposure to students about both courses and it could be mutually beneficial.

Ramesh

K. Ramesh Reddy | Graduate Research Professor and Chair |
Soil and Water Sciences Department | IFAS | University of Florida |

PO Box 110290 | 2181 McCarty Hall A.
Gainesville, FL 32611-0290 | USA
PH 352-294-3154 | FAX 352-392-3399
EMAIL: krr@ufl.edu | <http://soils.ifas.ufl.edu>



Additional Contacts: Ms. Deborah Butler at: dab@ufl.edu - Tel: 352-294-3150

The Soil and Water Sciences Newsletter "MYAKKA" is available at: <http://soils.ifas.ufl.edu/media/soilsifasufledu/sws-main-site/pdf/newsletters/summer-2016.pdf>

Please forward this message to your contacts. If you need a hard copy of the newsletter, please contact Mr. Michael Sisk at: mjsisk@ufl.edu

From: Christner, Brent Craig
Sent: Friday, February 03, 2017 9:39 AM
To: Reddy, K. Ramesh <krr@ufl.edu>
Subject: FW: external consult for course

Hi Ramesh.

I contacted Andy about possible redundancy between his SWS 4303/5305 course and the Microbial Diversity course I'm proposing (syllabus attached).

Andy gave it his "blessing", so please let me know if you have any concerns.

Thank you,
-Brent



Brent C. Christner
Associate Professor – Preeminent Scholar
University of Florida

Christner,Brent Craig

From: Jamie Foster <jfoster@ufl.edu>
Sent: Thursday, February 02, 2017 6:05 PM
To: Christner,Brent Craig
Subject: Re: external consult for course

Hi Brent

I do think there is some overlap with my MCB 4653 as I cover elements associated with 4) importance in human/animal/plant health; and 5) fundamental roles in global energy flow and nutrient cycling.

However, I think that your specific lecture schedule seems different enough.

Good luck
Jamie

On Feb 2, 2017, at 5:19 PM, Christner,Brent Craig <xner@ufl.edu> wrote:

Greetings all.

I am proposing a 4000-level undergrad/6000-level grad course in Microbial Diversity (syllabus attached) for the MCS department. The course is designed to provide the state of knowledge on the diversity of microorganisms in the biosphere, with special emphasis on the domains Bacteria and Archaea.

Please could you review the syllabus to make sure there is not a conflict with your course (Ogram-SWS 4303/5305; Maupin-Furlow-new archeal biotech course; Foster-MCB 4653).

Being aware of your courses, I tried to structure the microbial diversity course to avoid redundancy, but please do let me know if you have concerns about overlap.

Thank you,
-Brent

 <image001.png>

Brent C. Christner
Associate Professor – Preeminent Scholar
University of Florida
Department of Microbiology and Cell Science
Biodiversity Institute
1355 Museum Drive
Gainesville, FL 32611
Mobile: 225-247-3150
Office: 352-392-1179
Twitter: @DrXner
<http://www.brent.xner.net/>

<Christner_MicroDiv_Syllabus_v2.docx>

Christner, Brent Craig

From: Maupin, Julie A
Sent: Wednesday, February 08, 2017 10:35 AM
To: Christner, Brent Craig
Subject: Re: external consult for course

Dear Brent,

The course I teach at the undergraduate and graduate levels (4000/6000) "Archaea and Biotechnology" would have only limited overlap. The first portion of the course covers the evolution and diversity of species, but is focused on recent findings regarding the phylogeny of Archaea and their relationship to Bacteria and Eukarya. The remainder of the course is devoted to cell structure and function, metabolism, ecology, biogeochemistry and biotechnology of archaea.

With best regards,
Julie

Julie A. Maupin-Furlow, Ph.D. Professor University of Florida Department of Microbiology and Cell Science PO Box 110700 Bldg 981, Museum Rd. Gainesville, FL 32611-0700 Tel: (352) 392-4095
Fax: (352) 392-5922 email: jmaupin@ufl.edu



From: Christner, Brent Craig
Sent: Wednesday, February 8, 2017 9:47 AM
To: Maupin, Julie A
Subject: RE: external consult for course

Hi Julie. Sorry to pester you, but when you have a chance, could you please respond to this email w/ any concerns about overlap between this course and yours on archaeal biotechnology.

Thanks,
-Brent

From: Christner, Brent Craig
Sent: Thursday, February 02, 2017 5:20 PM
To: Ogram, Andrew V <aogram@ufl.edu>; Maupin, Julie A <jmaupin@ufl.edu>; Foster, Jamie S <jfoster@ufl.edu>
Subject: external consult for course

Greetings all.

I am proposing a 4000-level undergrad/6000-level grad course in Microbial Diversity (syllabus attached) for the MCS department. The course is designed to provide the state of knowledge on the diversity of microorganisms in the biosphere, with special emphasis on the domains Bacteria and Archaea.

Christner,Brent Craig

From: Triplett,Eric
Sent: Wednesday, February 08, 2017 11:32 AM
To: Christner,Brent Craig
Subject: Re: Micro Diversity external consult

Brent,
I can't see the attachments, but I have seen the syllabuses in the past.
I agree that there is no conflict between your new course and our current ones.
Eric

On Feb 8, 2017, at 11:17 AM, Christner,Brent Craig <xner@ufl.edu> wrote:

Hi Eric.

I contacted Jamie and Julie about possible redundancy between their environ micro and archaeal biotech courses, respectively, with my microbial diversity course.

They don't have concerns (see attached) and the external consult guidelines request approval from the chair, so could you please reply to this email w/ your "blessing".

Thank you,
-Brent
<Mail Attachment.eml><Mail Attachment.eml>

Christner,Brent Craig

From: Ogram,Andrew V
Sent: Monday, April 24, 2017 12:02 PM
To: Christner,Brent Craig
Cc: Maupin,Julie A; Foster,Jamie S
Subject: Re: name change on course

Brent, the title change is fine with me. Sounds like a great course.

Andy

Sent from my iPhone

> On Apr 24, 2017, at 11:58 AM, Christner,Brent Craig <xner@ufl.edu> wrote:

>

> Greetings all.

>

> The CALS CC has reviewed the request and is not happy with the proposed title of the course: Microbial Diversity (they believe it is too broad).

>

> I have changed the course title to "Prokaryotic Diversity". For reasons not obvious to me, they have requested an updated consult, so please respond to this email to let me know that you are OK with the title change.

>

> Thank you,

> -Brent

>

>

> <uccconsult_Christner_with emails.pdf>

Christner, Brent Craig

From: Maupin, Julie A
Sent: Monday, April 24, 2017 12:21 PM
To: Christner, Brent Craig; Ogram, Andrew V; Foster, Jamie S
Subject: Re: name change on course

Dear Brent, Prokaryotic Diversity sounds like a great course. I am not aware of any other course on campus with this type of emphasis. Best regards, Julie

Julie A. Maupin-Furlow, Ph.D. Professor University of Florida Department of Microbiology and Cell Science PO Box 110700 Bldg 981, Museum Rd. Gainesville, FL 32611-0700 Tel: (352) 392-4095
Fax: (352) 392-5922 email: jmaupin@ufl.edu



From: Christner, Brent Craig
Sent: Monday, April 24, 2017 11:58 AM
To: Ogram, Andrew V; Maupin, Julie A; Foster, Jamie S
Subject: name change on course

Greetings all.

The CALS CC has reviewed the request and is not happy with the proposed title of the course: Microbial Diversity (they believe it is too broad).

I have changed the course title to "Prokaryotic Diversity". For reasons not obvious to me, they have requested an updated consult, so please respond to this email to let me know that you are OK with the title change.

Thank you,
-Brent

Christner,Brent Craig

From: Jamie Foster <jfoster@ufl.edu>
Sent: Monday, April 24, 2017 3:25 PM
To: Maupin,Julie A
Cc: Christner,Brent Craig; Ogram,Andrew V
Subject: Re: name change on course

Hi Brent

I am fine with the change. good luck
Jamie

On Apr 24, 2017, at 9:21 AM, Maupin,Julie A <jmaupin@ufl.edu> wrote:

Dear Brent, Prokaryotic Diversity sounds like a great course. I am not aware of any other course on campus with this type of emphasis. Best regards, Julie

Julie A. Maupin-Furlow, Ph.D. Professor University of Florida Department of Microbiology and Cell Science PO Box 110700 Bldg 981, Museum Rd. Gainesville, FL 32611-0700 Tel: (352) 392-4095 Fax: (352) 392-5922 email: jmaupin@ufl.edu



From: Christner,Brent Craig
Sent: Monday, April 24, 2017 11:58 AM
To: Ogram,Andrew V; Maupin,Julie A; Foster,Jamie S
Subject: name change on course

Greetings all.

The CALS CC has reviewed the request and is not happy with the proposed title of the course: Microbial Diversity (they believe it is too broad).

I have changed the course title to "Prokaryotic Diversity". For reasons not obvious to me, they have requested an updated consult, so please respond to this email to let me know that you are OK with the title change.

Thank you,
-Brent

Jamie Foster, Ph.D.
Associate Professor
Department of Microbiology and Cell Science
University of Florida

Space Life Sciences Lab
505 Odyssey Way - Exploration Park
Tel: 321-525-1047
<http://jamiefosterscience.com>