Cover Sheet: Request 10295

Analogous Thinking in the Arts and Sciences - BSC4XXX

Info

Process	Course New Ugrad/Pro
Status	Pending
Submitter	Davis,Ellen C christine.davis@ufl.edu
Created	6/26/2015 6:19:15 PM
Updated	10/1/2015 4:12:38 PM
Description	This is a proposal for a new 3 credit course in Biology.

Actions

Ston	Status	Group	User	Comment	Undated
Step		Group		Comment	Updated
Department	Approved	CLAS - Biology 011690003	Davis, Ellen C		6/26/2015
No document	changes				
College	Approved	CLAS - College of Liberal Arts and Sciences	Pharies, David A		10/1/2015
Replaced UCC	C1_Thinking	ArtScience_6_26	5.docx		9/20/2015
Replaced ThinkingArtScience_covlet_6_26.docx				9/20/2015	
Replaced San	npleTopicLis	st_ThinkingArtSci	ence_6_26.docx		10/1/2015
Added Thinkin	ngArtScienc	e_covlet_9_20.d	OCX		9/20/2015
Added UCC1_	ThinkingAr	tScience_9_20.de	ocx		9/20/2015
Added Sample	eTopicList_	ThinkingArtScien	ce_6_26.docx		10/1/2015
University	Pending	PV - University			10/1/2015
Curriculum		Curriculum			
Committee		Committee			
		(UCC)			
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					



UCC1: New Course Transmittal Form

Recommended SCNS Course Identification			
1. Prefix: BSC 2. Level: 4	3. Number: 4XXX 4. Lab Code: C		
5. Course Title: Analogous Thinkin	ng in the Arts and Sciences		
6. Transcript Title (21 character m	ax.): Thinking in Art & Sci		
7. Effective Term: Earliest	8. Effective Year: Earliest 9. Rotating Topic: No		
10. Amount of Credit: 3	11. If variable, # min. and # max. credits per semester.		
12. Repeatable Credit: No	13. If yes, # total repeatable credit allowed.		
14. S/U Only: No	15. Contact Type: Regularly Scheduled [base hr]		
16. Degree Type: Baccalaureate	17. If other, specify: Click here to enter text.		
18. Weekly Contact Hours: 6	19. Category of Instruction: Advanced		
20. Delivery Method(s): On-camp	ous 🛛 Off-campus 🗌 Online 🗌		
21. Course Description (50 words m	aximum)		
	to explore how to introduce concepts, processes, and knowledge from		
the sciences to create art, and those from the arts to create science. Includes a discussion-based seminar and studiolab where students will work collaboratively on science-art projects and presentations.			
22. Prerequisites			
BSC2010 & BSC2010L & BSC2011L			
22 Co requisites			
23. Co-requisites None.			
24 Pationals and Placement in Com-	indum		
24. Rationale and Placement in Curriculum This course represents a unique way for science and art students to collaborate in creative ways. Its focus			
on application of knowledge, research, and historical connections will benefit students in the art and			
science programs on campus. It will serve as an elective course and will be cross-listed with an art prefix.			
25. Course Objectives	1 11 .		
By the end of the course students will be able to: Discuss the complementary nature of art and science;			
Collaboratively create original writings and art that demonstrate the intersection of art and science;			
Present their work to artists and scientists.			

26. Course Textbook(s) and/or Other Assigned Reading

No textbook is required. Course readings will be supplied by the instructors.

27. Weekly Schedule of Topics

This seminar portion of this course will consist of a series of talks by visiting scholars that specialize in merging science and art, as well as readings and discussions on interdisciplinary topics in art and science. The studiolab portion of the course will consist of a series of activities, including workshops with visiting scholars, science and art collaborative projects, and presentations and critiques on these projects. Thus, the topic list for the course will vary according to the people who are contributing to the course. Attached to this form is a topic list from a previous offering of this course, which provides a sample of the kinds of topics that will be covered in the course.

28. Grading Scheme

Type of Assessment, Activity or Other Assignment	Percent of Grade
Leading and participating in discussions in seminar	25%
Completion of readings and attendance at guest presentations	25%
Participation in discussion and critiques in studiolab	7.5%
Collaborative project	25%
Project presentation	7.5%
Documentation/process/methodology in studiolab notebook	10%

29. Instructor(s)

Dr. Jamie Gillooly (Biology) and Bethany Taylor (Art).	

Itemized Instructions

- 1. **Prefix**. Enter the three letter code indicating placement of course within the discipline (e.g., POS, ATR, ENC). Note that for new course proposals, in rare cases SCNS will assign a different prefix.
- 2. **Level**. Select the one digit code preceding the course number that indicates the course level at which the course is taught (e.g., 1=freshman, 2=sophomore, etc.).
- 3. **Number**. Enter the three digit code indicating the specific content of the course based on the SCNS taxonomy and course equivalency profiles. For new course requests, this may be XXX until SCNS assigns an appropriate number.
- 4. **Lab Code**. Enter the lab code to indicate whether the course is lecture only (blank), lab only (L), or a combined lecture and lab (C).
- 5. **Course Title**. Enter the title of the course as it should appear in the Academic Catalog.
- 6. **Transcript Title**. Enter the title that will appear in the transcript and the schedule of courses. Note that the transcript must be limited to 21 characters (including spaces and punctuation). Titles longer than 21 characters will either be abbreviated as needed or cause the approval request to be recycled.
- 7. **Effective Term**. Select the requested term that the course will first be offered. Selecting "Earliest" will allow the course to be active in the earliest term after SCNS approval. If a specific term and year are selected, this should reflect the department's best projection. Courses cannot be implemented retroactively, and therefore the actual effective term cannot be prior to SCNS approval, which must be obtained prior to the first day of classes for the effective term. SCNS approval typically requires 2 to 6 weeks after approval of the course at UF.
- 8. **Effective Year.** Select the requested year that the course will first be offered. See preceding item for further information.
- 9. **Rotating Topic**. Select "Yes" if the course will have rotating (varying) topics in different terms. For rotating topics courses, the course title in the Schedule of Courses and the transcript can vary with the topic.
- 10. **Amount of Credit**. Select the number of credits awarded to the student upon successful completion, or select "Variable" if the course will be offered with variable credit and then indicate the minimum and maximum credits per section. Note that credit hours are regulated by Rule 6A-10.033, FAC.
- 11. If you selected "Variable" for the amount of credit, indicate the minimum and maximum number of total credits.
- 12. **Repeatable Credit**. Select "Yes" if the course may be repeated for credit. Some courses, such as independent study courses, will have rotating (variable) topics. Students may be allowed to repeat these courses provided the content is different.
- 13. If you checked "Yes" for repeatable credit, indicate the maximum number of total repeatable credits allowed per student.
- 14. **S/U Only.** Check this option if students should be graded as S-U in the course. Note that each course must be entered into the UF curriculum inventory as letter-graded or S-U. A course may not have both options.
- 15. **Contact Type**. Select the best option to describe course contact type. This selection determines whether base hours or headcount hours will be used to determine the total contact hours per credit hour. Note that the headcount hour options are for courses that involve contact between the student and the professor on an individual basis. The following options are available:
 - a. Regularly Scheduled [base hr]
 - b. Thesis/Dissertation Supervision [1.0 headcount hr]
 - c. Directed Individual Studies [0.5 headcount hr]
 - d. Supervision of Student Interns [0.8 headcount hr]
 - e. Supervision of Teaching/Research [0.5 headcount hr]
 - f. Supervision of Cooperative Education [0.8 headcount hr]

Contact the Office of Institutional Planning and Research (352-392-0456) with questions regarding contact type.

- 16. **Degree Type**. Select Baccalaureate, Graduate, Professional or Other.
- 17. If you selected "Other" for degree type, specify the type.
- 18. **Total Contact Hours**. Indicate the number of hours faculty will have contact with students each week on average throughout the duration of the course.

- 19. **Category of Instruction**. Indicate whether the course is introductory, intermediate or advanced. Introductory courses are those that require no prerequisites and are general in nature. Intermediate courses require some prior preparation in a related area. Advanced courses require specific competencies or knowledge relevant to the topic prior to enrollment.
 - 1000 and 2000 level = Introductory undergraduate
 - 3000 level = Intermediate undergraduate
 - 4000 level = Advanced undergraduate
 - 5000 level = Introductory graduate
 - 6000 level = Intermediate graduate
 - 7000 level = Advanced graduate
 - 4000/5000 and 4000/6000 levels = Joint undergraduate/graduate (these must be approved by the UCC and the Graduate Council)
- 20. **Delivery Method(s)**. Indicate all platforms through which the course is *currently planned* to be delivered.
- 21. **Course Description**. Provide a brief narrative description of the course content. This description will be published in the Academic Catalog and is limited to 50 words or less. See course description guidelines.
- 22. **Prerequisites**. Indicate all requirements that must be satisfied prior to enrollment in the course. Prerequisites will be automatically checked for each student attempting to register for the course. The prerequisite will be published in the Academic Catalog and must be formulated so that it can be enforced in the registration system. Please note that upper division courses (i.e., intermediate or advanced level of instruction) must have proper prerequisites to target the appropriate audience for the course.
 - Completing Prerequisites on UCC forms:
 - Use "&" and "or" to conjoin multiple requirements; do not used commas, semicolons, etc.

 - Specifying a course prerequisite (without specifying a grade) assumes the required passing grade is D-. In order to specify a different grade, include the grade in parentheses immediately after the course number. For example, "MAC 2311(B)" indicates that students are required to obtain a grade of B in Calculus I. MAC2311 by itself would only require a grade of D-.
 - Specify all majors or minors included (if all majors in a college are acceptable the college code is sufficient).
 - o "Permission of department" is always an option so it should not be included in any prerequisite or co-requisite.
 - Example: A grade of C in HSC 3502, passing grades in HSC 3057 or HSC 4558, and major/minor in PHHP should be written as follows:

HSC 3502(C) & (HSC 3057 or HSC 4558) & (HP college or (HS or CMS or DSC or HP or RS minor))

- 23. **Co-requisites**. Indicate all requirements that must be taken concurrently with the course. Co-requisites are not checked by the registration system.
- 24. **Rationale and Placement in Curriculum**. Explain the reason for adding the course to the curriculum and how the course will fit into the curriculum.
- 25. **Course Objectives**. Describe the core knowledge and skills that student should derive from the course. The objectives should be both observable and measurable.
- 26. **Course Textbook(s) and/or Other Assigned Reading**. Enter the title, author(s) and publication date of textbooks and/or readings that will be assigned, or a representative list of readings.
- 27. **Weekly Schedule of Topics**. Provided a projected weekly schedule of topics. This should have sufficient detail to evaluate how the course would meet current curricular needs and the extent to which it overlaps with existing courses at UF.
- 28. **Grading Scheme**. List the types of assessments, assignments and other activities that will be used to determine the course grade, and the percentage contribution from each. This list should have sufficient detail to evaluate the course rigor and grade integrity.
- 29. **Instructor(s)**. Enter the name of the planned instructor or instructors, or "to be determined" if instructors are not yet identified.

<u>Sample topic list for BSC4XXX Analogous Thinking in the Arts and Sciences</u> Topics will vary in future offerings due to differing faculty contributions.

Week	Topic
1	Seminar : Introduction of faculty and teaching assistants, review of
_	course outline and visiting lecturers. Introduction of students.
	StudioLab : Guided discussion among students of potential
	research topics, and the intersections of science and art.
2	Seminar: Lecture by David Freedberg, Professor of Art History,
	Harn Museum of Art, Chandler Auditorium. Freedberg's lecture
	addresses a crisis in visual representation in 17th century Europe
	that was prompted by new discoveries made possible by the
	invention of the telescope and the microscope. Thursday January
	19, 6:00pm
	StudioLab : Drs. Stephen Macknik and Susana Martinez-Conde, Co-
	Directors of the Barrow Neurological Institute in Phoenix, AZ will
	conduct a workshop on illusions and "object d'arts" on Friday Jan
	20, 2012 8:30-11:30am
	Seminar : January 21, 3-5 pm: Lecture by Drs. Stephen Macknik and Susana Martinez-Conde, "Sleights of Mind: The Neuroscience
	of Magic" at McKnight Brain Institute, Deweese Auditorium, Room
	LG-101A
3	Seminar : Discussion of 2 readings and 2 visiting scholars. Led by
	Kayla Adams and Julie Allen.
	StudioLab : Lecture on parameters of collaborative projects. What
	is the science question and what is the art question? Guided
	discussion and formation of collaborative groups.
4	Seminar : Kate Nichols lecture "Misadventures in Art and Science"
	Thursday Feb. 2 nd at 6:30pm, FAB 105 (TBA?).
	StudioLab: Workshop on methodology and collaborative process
	under the guidance of Kate Nichols
5	Seminar : Chris Sloan lecture "21st Century Science Media
	Landscapes" in Genetics Auditorium Thursday February 9th at
	6:30pm.
	StudioLab : Science visualization exercise with Chris Sloan.
	Discussion of presentation strategies Cominger Discussion of student presentation strategies for
6	Seminar : Discussion of student project presentation strategies for
	an audience consisting of scientists, artists, and the general public. What have we seen so far in the lecture series that was effective
	and transferable to the student projects?
	StudioLab : Students work in small groups of 2, possibly 3, to work
	on projects, data collection, experimentation, and presentations.
7	Semina r: Eduardo Kac lecture at Harn Museum, "Telepresence and
,	Bio Art" Thursday Feb. 23, at 6:30pm. Followed by booksigning.
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	StudioLab : Workshop with Eduardo Kac. Mid-project
	presentations for discussion with Professor Kac.
8	Seminar : Discussion of Eduardo Kac lecture and workshop
	Studio/Lab : Class participates in installation of the exhibition
	Analogous Thinking in Art and Science in Focus Gallery.
9	Spring Break
10	Seminar : Discussion led by Dr. Julie Allen, Postdoctoral Fellow and
	Kayla Adams, Teaching Assistant. Lecture by Todd Palmer (TBA).
	Studio/Lab: Work on collaborative projects
11	Seminar: Dr. Todd Siler lecture "How Analogies Inspire Wonder,
	Awakening Our Curiosity, Creativity and Innovative Thinking:
	The Artscience of Metaphorming", Harn Museum, Chandler
	Auditorium, 6:30pm.
	StudioLab: Todd Siler will lead a workshop.
12	Seminar : Dr. David Goodsell lecture "Visual Methods from Atoms
	to Cells" at Genetics Auditorium, Rm 101, 1376 Mowry Road, UF
	6:30pm
	StudioLab: David Goodsell will lead a workshop
13	Seminar: TBA
	StudioLab: Work
14	Seminar: TBA
	StudioLab: Collaborative Project Presentations
15	Seminar: TBA
	StudioLab: Collaborative Project Presentations



College of Liberal Arts and Sciences

Department of Biology

220 Bartram Hall PO Box 118525 Gainesville, FL 32611-8525 352-392-1175 352-392-3704 Fax

June 26, 2015

Dear Curriculum Committee,

Attached please find a syllabus for a new 3-credit rotating topics course taught by Dr. Jamie Gillooly and Bethany Taylor in the Art Department.

This course has been offered once in the past under special topics Z004926, cross listed with ART4930, and enjoyed an enrollment of roughly 20 students – about half science majors and half art majors.

There has been increasing interest and activity on this topic on campus in recent years, but no class has yet been formally offered. Dr. Gillooly has received numerous requests from students to teach the course again.

The course will serve as a 3-credit elective and will represent a unique way for students and faculty of science and art to collaborate in creative ways. Its focus on research and historical connections between the disciplines, as well as cooperative application of knowledge, will be a boon to the undergraduate curriculum in science and art.

We do not expect conflicts with other programs. A letter of support has been requested from the School of Art. Please contact me if you have further questions.

Sincerely,

Christine Davis Lecturer and Undergraduate Coordinator christine.davis@ufl.edu