



Course Addition/Course Change Form

Form Legend Asterisks indicate PeopleSoft Required Fields

This form should be used to add a new course or update an existing course. This information will be used to update the course catalog.

Name of person completing form: Peter Taylor Date: 8/28/14 College File # (to be added after Dean's approval):					pproval):		
SECTION A – COURSE INFORMATION							
Please complete the following	owing:						
Course Addition	on	Distribution		*Course Credits	3		
Course Chang	e	Diversity / Int'l Mgmt		If changing, previous credits:			
Reactivate Course**		Seminar (FYS / IS)	_	UC Non-Credit			
		Quantitative Reasonin	g	Course?			
		UC Program:		UC CEUs/PDPs:	#CEUs #PDPs		
*Departn	nent Critical & Creative Thinking			*Variable Course Credit:	☐ Yes ⊠ No		
*Course Num	ber: 652	-	_	*Minimum Credits:			
lf chang previous num		*Term in which this w take effec	-pg	*Maximum Credits:			
*Short Course Title: (Max 30 characters)	Conceptual Change						
*Long Course Title: (Max 100 characters)	Conceptual Change and Learning						
If changing, previous title:	Children and Science						
This course explores the ways children and adults think about their natural and social world and how that affects their learning. It is particularly concerned with identifying and describing the organized conceptual frameworks children have prior to instruction (which typically are different from the scientists' or researchers' conceptualizations) and with understanding the general processes by which conceptual frameworks can be changed. One important question concerns the ways in which children are fundamentally different learners and thinkers from adults and the ways in which they are fundamentally similar.							
This course explores the ways children think about their natural and social world and how they affect their learning of science. It is particularly concerned with identifying and describing the organized conceptual frameworks children have prior to instruction (which typically are different from the scientists' conceptualizations) and with understanding the general processes by which conceptual frameworks can be changed. One important question concerns the ways in which children are fundamentally different learners and thinkers from adults and the ways in which they are fundamentally similar.							
Requisites (Please List All): If changes are being requested to co/prerequisites, please explain:							
	Course Number Course Number						
Pre D	Co		Pre Co				
☐ Pre ☐ Pre ☐	Co		Pre Co				
			30				



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Rationale for the Proposal:	The two minor changes in the description convey that the ideas about conceptual change covered in the course apply to research-based knowledge, not only natural science. The new title is a more accurate and informative descriptor of the emphasis of the course.
Other Information:	This proposal is submitted as a minor change in the course title and description.

^{** &}quot;Reactivate Course" is intended to be used for courses that <u>already exist but have been inactivated</u> because they were not scheduled for five years or more. Departments wishing to reactivate such existing courses should send this form (including any minor changes in course description or title) and an updated syllabus to the Dean of their College. If the course is changing substantially, it should be submitted as a Course Change instead, following the normal governance process.



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⊠ No

If yes, when?

☐ Yes

Has this course been offered as a Special Topics course?





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SECTION C – OTHER COURSE INFORMATION									
Course Components (Please Check all that Apply): Hours/Week?						Default Grading Basis (Please Check ONE ONLY):			
	Component	Primary?							
	Lecture	☐ Yes ☐ No		Graded?		Yes		No	Graded
	Laboratory	☐ Yes ☐ No		Graded?		Yes		No	Pass/Fail Only
	Discussion	⊠ Yes □ No		Graded?		Yes		No	Non Graded
	Indep Study	☐ Yes ☐ No		Graded?		Yes		No	Audit
	Field Studies	☐ Yes ☐ No		Graded?		Yes		No	Multi-Term ("Y")
	Grad Research	☐ Yes ☐ No		Graded?	\boxtimes	Yes		No	Sat/UnSat
	Clinical	☐ Yes ☐ No		Graded?		Yes		No	Competency
	Practicum	☐ Yes ☐ No	_	Graded?		Yes		No	Credit/No Credit
	Seminar	Yes No	_	Graded?		Yes		No	Student Option
	Special Topics	☐ Yes ☐ No	_	Graded?		Yes		No	Other
	Studio	☐ Yes ☐ No		Graded?		Yes		No	
Cour	Course Repeat Details								
Is Course Repeatable for Credit?			Yes	\boxtimes	No		Please Note: If a course		
Is a student allowed to enroll multiple times in a single term?			Yes		No		is repeatable for credit, it cannot have Distribution status.		
Total Units Allowed (If Course can be Repeated for Credit)									
	Total Completions Allowed (If Course can be Repeated for Credit)								-
For	For Registrar's Use Only Course ID: Course Entered By:								





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SECTION E – SUPPLEMENTARY	/ INFORMATION (DO NOT COPY WHEN SUBMITTING HARD COPY)					
Signatures Required (Please note: if more than one dep	partment or college is involved, be sure to get all relevant signatures)					
New or Amended UNDERGRADUATE course	Department Chair, Chair of Collegiate Committee, Chair of Collegiate Senate or governing body, College Dean, Provost					
New or Amended GRADUATE course	GPD, Department Chair, Chair of Collegiate Committee (if needed), PECC (if needed), College Dean, FC Grad Studies Committee Chair, Graduate Dean, FC Chair, Provost					
First-Year or Intermediate Seminar, Quantitative Reasoning	Department Chair, Chair of Collegiate Committee, Chair of Collegiate Senate, College Dean, FC Subcommittee Chair, FC GenEd Committee Chair, AVP for Undergraduate Studies, FC Chair, Provost					
Distribution Status	Department Chair, FC Subcommittee Chair, FC GenEd Committee Chair, AVP for Undergraduate Studies, FC Chair, Provost					
Diversity Status	Department Chair, Diversity Chair, AAC Chair, Chair of Collegiate Senate, College Dean, Provost					
Supplementary Information Required	11 115 1 11 11 11					
1 If this is a NEW course, please attach:	 A description of the reasons behind the proposal (how will the new course fit into the curriculum? What are the goals of the new course?) 					
	 An indication of how the course serves students (its relationship to graduate, preprofessional or vocational objectives, and how it relates to other existing courses). 					
	c. A detailed syllabus, including principal topics covered in the course, an evaluation statement indicating ways in which you will evaluate students' progress, and a brief bibliography. Please also include on the syllabus the following: a statement about accommodations for students with disabilities, and statement regarding academic dishonesty and misconduct. (Sample statements are available upon request from the CLA/CSM Academic Affairs Committee.)					
2 If this is an AMENDED course, please attach:	a. A description of the reasons behind the proposal.					
	 An indication of how the course serves students (its relationship to graduate, preprofessional or vocational objectives, and how it relates to other existing courses). 					
3 If this is an ONLINE course, please consider:1	Recommended additional elements in syllabi for online course proposals:					
	Instructor office hours: provide multiple options for students to contact instructor, e.g. face-to-face, telephone, e-mail, etc. Instructor bio recommended.					
	Course description and course policies: include role of technology in the course, how the course is delivered, and whether this has the same pedagogical effect.					
	Course objectives: include technology objectives if any.					
	Prerequisites and required hardware, software, connectivity: include technology skill prerequisites. Include software, plug-ins, hardware, connection and browser requirements.					
	Grading policies and academic dishonesty: indicate grading strategies that will preverstudent cheating. Communicate university policies for dealing with academic dishonesty.					
	Group participation policies: Include clear expectations for group work and mechanisms and resources for monitoring.					
	General syllabus and course calendar: include major topics, reading assignments, du					



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dates, and exams. Organize by week.

Attendance, participation, and absenteeism: include expectations for student participation. Define absenteeism and establish expectations for student compliance.

Exams: include procedures for exams in a controlled environment in accordance with university policies.

E-mail procedures: establish expectations for the manner in which students are to identify themselves in e-mail messages.

¹ Adapted from Moore, G.; Winograd, K.; Lange, D. (2003). You Can Teach Online: Building a Creative Learning Environment. New York: McGraw Hill Custom Publishing. Unit 2, Lesson 9.17.

Campus presence: indicate when students must attend classes, labs, exams, advising sessions, and other events on campus or at other locations.

The following apply to UNDERGRADUATE courses only:

- 4 If this course is being submitted as a First-Year or Intermediate SEMINAR, please attach:
- If the course is a FYS that will be counted towards the major/minor, please explain the rationale for granting major/minor credit.
- b. Will the department/program also offer a non-GenEd version of this course? If so, please indicate the title and course number. Be sure also to indicate clearly on course syllabi and other informational materials which course duplicates this seminar and may not be taken in addition to it.
- c. General seminar information: please include a paragraph near the beginning of the syllabus that tells students what the goals of the seminar are. Eligibility for entrance into an FYS or IS must be included in the syllabus. For First year Seminars, mention that there will be a mentor and an advisor attached to the course. Please emphasize that the FYS is 4 credits and incorporate the 4th hour into your class plans as a regular part of the course, not an add-on labeled the "fourth hour". See sample seminar boilerplates available from the chair of the Seminars Assessment Committee related to all of this information.
- d. Questionnaire or statement indicating how and where you plan to address the GenEd Capabilities and assess student progress. You may use the Questionnaire distributed by the Seminars Assessment Committee or write a narrative using the guidelines for capabilities provided below. Intermediate Seminars must address at least three capabilities—Careful Reading, Clear Writing, and Critical Thinking. First Year Seminars must address those three plus Information Technology, Oral Presentation, Teamwork, and Academic Self Assessment.
- Sample assignments, indicating which capabilities they are designed to address.
 Among sample assignments, the Seminars Assessment Committee especially needs to see any assignments related to 5-page WPE-type papers.
- f. In designing your course and preparing your proposal, you should refer to the following documents: "The General Education Capabilities Statements" (1997-98; Blue Document) and the "Guidelines for Level of Attention to Capabilities in First Year and Sophomore/Junior Seminars" (August 2002, Green Document). A description of the Mentor component is also available from the First Year Seminar Coordinator for those designing First Year Seminars.



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- 5 If this course is being submitted for DISTRIBUTION status, please attach (each as a separate section):
- 1. Provide a rationale for inclusion in the proposed distribution area. How does the content of the course fit the definition and criteria of the proposed distribution area? (See the "Distribution Area Descriptions and Criteria for Course Content", the Tan Document.)
- Indicate whether students will have the opportunity to write a paper suitable for the Writing Proficiency Requirement Portfolio (an analytical paper of at least five pages dealing with two or more texts). If this is the case, please also include that information in your course description and syllabus.
- 3. Indicate which of the GenEd Capabilities will be covered in your course (at least two must be incorporated as an integral part of the course): Verbal Reasoning (Critical Thinking), Quantitative Reasoning, Critical Reading and Analysis, Effective Communication (Writing and/or Speaking), Use of Technology to Further Learning, Collaborative Work. Provide details on how the capabilities will be incorporated into the course.
- 4. Discuss the pedagogical methods, assignments, or class activities that will be used to ensure coverage of the area criteria and foster the attainment of the GenEd capabilities specified above. Also, please indicate how you will assess student progress and performance in meeting the goals of the course.
- 5. Syllabus: please include a paragraph near the beginning of the syllabus that tells students what the goals of the course are and which distribution area and capabilities the course covers. (We recommend including some form of the Area Definition as a "boilerplate" introduction to the distribution area.)
- 6. Provide a set of sample assignments, indicating which GenEd capabilities they are designed to address.
- 6 If this course is being submitted for QUANTITATIVE REASONING status, please attach:

List the mathematical topics that this course will cover (required topics include: descriptive statistics, linear models, exponential models or probability, and the use of technology as in graphing calculators or computers). If your course deviates from this list, please explain the reason(s) for the deviation(s) and how your coverage will help the student achieve the educational principles listed below.

Educational principles: Explain how this course imbeds the following basic principles of general education courses.

- · Engage in critical reading and analysis
- · Speak, listen, and write effectively.
- Reason logically and quantitatively.
- Use technology to further learning.
- · Work independently and collaboratively.

In particular, explain how this course will provide students with the opportunity to develop and demonstrate the capacity to:

- Recognize and pose real world problems involving the use and/or collection of
- Understand and critique quantitative arguments about real world problems.
- Formulate and communicate quantitative arguments and frameworks for decision-making.
- Use and make connections among the four standard modes of quantitative representations: oral/written, numerical, visual, and symbolic.
- · Generalize and apply QR strategies to topics outside the course.
- · Write quantitative arguments clearly and concisely.

On a separate sheet, explain how student capabilities will be assessed in this course.

Furnish a course bibliography.



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7 If this course is being submitted for DIVERSITY status, please attach:

Indicate which of the elements of diversity will be covered in your course (at least two must be incorporated as an integral part of the course): Race, Gender, Class, Culture, Sexual Orientation, Age, and Disability.

Provide a summary of how the course handles diversity as a central theme.

Are there any particular pedagogical strategies that you use that explain how you handle diversity in your course? If so, please discuss any relevant teaching techniques, lecturing strategies, writing assignments, group work, films, etc.

General Notes: Diversity courses may be offered in all areas and at all levels of the curriculum, and may use a variety of disciplinary and theoretical approaches. Courses can have either a US or more inclusive international focus (including courses that compare the US to other nations or world regions).

If a proposed course is multi-sectioned, the department must agree to designate all sections as diversity courses, or else to separate diversity sections into a new course. Any course must have already achieved full governance approval as a regular academic offering before it can be considered for designation as a diversity course.

END OF FORM





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SECTION D - SIGNATURES						
Department: CrCrTh Number: 652 Course Title: Conceptual Change and Learning						
Approval Signature GPD	pole, taylor		Printed Name Approval Date	Peter Taylor 8/28/14		
Approval Signature Department Chair	2	7	Printed Name) ennis Mur		
Approval Signature Collegiate Committee			Printed Name Approval Date			
Approval Signature Collegiate Committee			Printed Name Approval Date			
Approval Signature College Senate Chair			Printed Name Approval Date			
Approval Signature College Dean	11/3/14	8	Printed Name Approval Date	PHICIP DISALVE		
Approval Signature PECC (if relevant)			Printed Name Approval Date			
Approval Signature FC Subcommittee			Printed Name Approval Date			
Approval Signature FC Committee			Printed Name Approval Date			
Approval Signature AVP Undergrad. Studies			Printed Name Approval Date			
Approval Signature Graduate Dean			Printed Name Approval Date			
Approval Signature Chair, Faculty Council			Printed Name Approval Date			
Approval Signature Provost			Printed Name Approval Date			