



SACRAMENTO
STATE

Course Change Proposal Form A



Academic Group (College): EDUCATION	Academic Organization (Department): CHILD DEVELOPMENT	Date: 9.18.08
Type of Course Proposal: New ___ Change <u>X</u> Deletion ___	Department Chair: Ana Garcia Nevarez	Submitted by: Karen Horobin
Does this course fulfill a requirement for single-subject or multiple subject credential students? Yes ___ No <u>X</u>	For Catalog Copy: Yes <u>X</u> No ___ CCE (Extension): Yes ___ No ___	Semester Effective: Spring 2009 <u>X</u>

This course replaces experimental course Subject Area (prefix) and Catalog Nbr (course number):	CHDV 196B
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Change from:

Subject Area (prefix) & Catalog Nbr (course no.): CHDV 196B	Title: Development and Education of Young Children as Mathematical and Scientific Thinkers	Units:
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Change to:

Subject Area (prefix) & Catalog Nbr (course no.): CHDV 134	Title: Development of Young Children as Mathematical and Scientific Thinkers	Units: 3
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JUSTIFICATION:

This course is designed for students entering the field of early development and education. The course provides an introduction to theory, research and practice related to the development of mathematical and scientific reasoning in young children. Understanding of how children develop math and science concepts has increased dramatically in recent years and it is an important topic for educators in the field of early childhood development to learn about. The current Child Development offerings do not include a course specifically addressing this area of development and there is no equivalent course offered by any other department. Existing CSUS courses on mathematical and scientific reasoning are concerned primarily with children in elementary and secondary school settings.

NEW COURSE DESCRIPTION: (Not to exceed 80 words, and language should conform to catalog copy. See <http://www.csus.edu/acaf/univmanual/crspsl.htm> - Guidelines for Catalog Course Description)

Theory, research and practice in development of the child's thinking about mathematical and scientific concepts. Topics will include: (a) early emergence of conceptual reasoning connected with mathematics and science, (b) symbolic development and language of mathematics and science, (c) developmental sequences in mathematical and scientific thinking, (d) California Preschool Learning Foundations; (e) age-appropriate and culturally-relevant experiences to promote mathematic and scientific reasoning. Activities include lecture, discussions, presentations, cooperative learning assignments, and integration of course content with early childhood classroom practice.

Note:

Prerequisite:
Enforced at Registration: Yes X No ___ CHDV 30/CHDV 35 or equivalent;

Corequisite:
Enforced at Registration: Yes ___ No ___

CAN (California Articulation Number):

Graded: Letter X Credit/No Credit ___ **Instructor Approval Required? Yes ___ No X**

Course Classification (e.g., lecture, lab, seminar, discussion):
C4 Lecture-Discussion **Title for CM**
Young Child Math and Science

Cross Listed?
Yes ___ No X **If yes, do they meet together and fulfill the same requirement, and what is the other course.**

How Many Times Can This Course be Taken for Credit? 1

Can the course be taken for Credit more than once during the same term? Yes ___ No X

FOR NEW COURSE PROPOSALS OR SUBSTANTIVE CHANGES ONLY:

Description of the Expected Learning Outcomes: Describe outcomes using the following format: "Students will be able to: 1), 2), etc." See the example at <http://www.csus.edu/acaf/example.htm>

Upon successful completion of this course, students will be able to:

1. Describe developmental theory and research related to emergence of conceptual reasoning in young children.
2. Explain developmental foundation of mathematical and scientific reasoning
3. Analyze fundamental concepts, attitudes and skills underpinning mathematical and scientific reasoning
4. Apply California Preschool Learning Foundations in Mathematics
5. Evaluate math and science activities for age-appropriateness and cultural-relevance
6. Create and implement activities to facilitate development of mathematical and scientific engagement in young children

**Attach a list of the required/recommended course readings and activities [Note: it is understood that these are updated and modified as needed by the instructor(s).] This attachment should be forwarded only to your Dean's office, not Academic Affairs.

Assessment Strategies: A description of the assessment strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers) which will be used by the instructor to determine the extent to which students have achieved the learning outcomes noted above:

1. Content Quizzes
2. Activity Plans and Reflections
3. Oral Presentations
4. Research Project

For whom is this course being developed?

Majors in the Dept Majors of other Depts Minors in the Dept General Education Other

Is this course required in a degree program (major, minor, graduate degree, certificate)? Yes No

If yes, identify program(s): **BA Completion in Early Development, Care and Education**

Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer facilities, faculty, etc.)? Yes No

If yes, attach a description of resources needed and verify that resources are available.

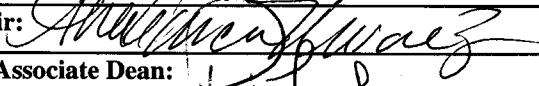
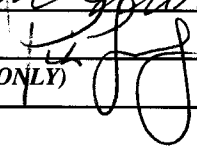
Indicate which department or programs will be affected by the proposed course (if any). NONE

The Department Chair's signature below indicates that affected programs have been sent a copy of this proposal form.

N/A

Approvals: If proposed change, new course or deletion is approved, sign and date below. If not approved, forward without signing to the next reviewing authority, and attach an explanatory memorandum to the original copy.

Signatures:

	Date
Department Chair: 	11/21/08
College Dean or Associate Dean: 	11/25/08
CPSP (for school personnel courses ONLY)	
Associate Vice President and Dean for Academic Programs	

Distribution: Academic Affairs (original), Department Chair and College Dean. Dean's office to send original after approval to Academic Affairs, at mail zip 6016. An electronic copy must also be sent.