Clackamas Community College

Online Course/Outline Submission System

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Section #1 General Course Information
Department: Education, Human Services & Criminal Justice
Submitter
First Name: Laurette
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Course Prefix and Number:ED - 114
Credits:3
Contact hours
Lecture (# of hours): 33
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 33
For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.
Course Title:Instructional Strategies in Math & Science
Course Description:
ourse bescription.
Introduces the development of math and science concepts and presents a systematic approach to math and science instruction for children from birth through age eight. Emphasis is on linking math and science instruction and assessment to content standards.
Type of Course:Lower Division Collegiate
Is this class challengeable?
Yes
Can this source be repeated for gradit in a degree?
Can this course be repeated for credit in a degree?

No

Is general education certification being sought at this time?
No
Does this course map to any general education outcome(s)?
Yes
Check which General Education requirement:
✓ Science & Computer Science ✓ Mathematics
Is this course part of an AAS or related certificate of completion?
Yes
Name of degree(s) and/or certificate(s): Early Childhood Education & Family Studies AAS; Paraeducator Certificate
Are there prerequisites to this course?
No
Are there corequisites to this course?
No
Are there any requirements or recommendations for students taken this course?
No
Are there similar courses existing in other programs or disciplines at CCC?
No
Will this class use library resources?
Yes
Have you talked with a librarian regarding that impact? Yes (A 'Yes' certifies you have talked with the librarian and have received approval.)*
Is there any other potential impact on another department?
No
Does this course belong on the Related Instruction list?
No

GRA	DIN	ΩМ	ETH	no.

A-F or Pass/No Pass

Audit:Yes

When do you plan to offer this course?

✓ Spring

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

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

- 1. identify developmentally appropriate strategies to support the scientific and mathematical explorations of young children
- 2. create emotional and physical environments that support the growth and development of naturalistic exploration in children,
- 3. explain how the Common Core State Standards and Oregon's Early Learning Foundations for mathematics and science relate to the teaching and learning of young children,
- 4. utilize a model for designing classroom experiences that develop children's inquiry and problem-solving skills,
- 5. describe ways to support children in learning how to document and preserve observations through measurement,
- 6. list a variety of forms of charts that children can use to organize data,
- 7. identify the mathematical skills children need to use data in problem-solving activities,
- 8. describe the characteristics and qualities of and format for designing concept explorations for classroom units integrating science and mathematics,
- 9. develop a variety of resources for locating national guidelines and related literature for preparing concept explorations.

AAOT/ASOT GENERAL EDUCATION OUTCOMES COURSE OUTLINE MAPPING CHART

Mark outcomes addressed by the course:

- Mark "C" if this course completely addresses the outcome. Students who successfully complete this course are likely to have attained this learning outcome.
- Mark "S" if this course substantially addresses the outcome. More than one course is required for the outcome
 to be completely addressed. Students who successfully complete all of the required courses are likely to have
 attained this learning outcome.
- Mark "P" if this course partially addresses the outcome. Students will have been exposed to the outcome as part of the class, but the class is not a primary means for attaining the outcome and assessment for general education purposes may not be necessary.

As a result of completing the AAOT/ASOT general education requirements, students will be able to:

WR: Writing Outcomes

- 1. Read actively, think critically, and write purposefully and capably for academic and, in some cases, professional audiences.
- 2. Locate, evaluate, and ethically utilize information to communicate effectively.
- 3. Demonstrate appropriate reasoning in response to complex issues.

SP: Speech/Oral Communication Outcomes

- 1. Engage in ethical communication processes that accomplish goals.
- 2. Respond to the needs of diverse audiences and contexts.
- 3. Build and manage relationships.

MA: Mathematics Outcomes:

- **P** 1. Use appropriate mathematics to solve problems.
- **P** 2. Recognize which mathematical concepts are applicable to a scenario, apply appropriate mathematics and technology in its analysis, and then accurately interpret, validate, and communicate the results.

AL: Arts and Letters Outcomes

- 1. Interpret and engage in the Arts & Letters, making use of the creative process to enrich the quality of life.
- 2. Critically analyze values and ethics within range of human experience and expression to engage more fully in local and global issues.

SS: Social Science Outcomes

- 1. Apply analytical skills to social phenomena in order to understand human behavior.
- 2. Apply knowledge and experience to foster personal growth and better appreciate the diverse social world in which we live.

SC: Science or Computer Science Outcomes

- **P** 1. Gather, comprehend, and communicate scientific and technical information in order to explore ideas, models, and solutions and generate further questions.
- **p** 2. Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically examine the influence of scientific and technical knowledge on human society and the environment.

3. Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

Outcomes Assessment Strategies:

✓ Projects

✓ Writing Assignments

✓ Presentations

Major Topic Outline:

- 1. Developmentally appropriate strategies to support the learning of young children.
- 2. Environments that promote children's growth and development.
- 3. The process of problem solving for children.
- Common Core State Standards and Oregon's Early Learning Foundations for mathematics and science.
- 5. Measurement of observations in mathematics and science.
- 6. Organizing data in science and mathematics.
- 7. Developing concept explorations.
- 8. Review of sample concept explorations related to space, biology, atmosphere, environment, and machines.

Does the content of this class relate to job skills in any of the following areas:

Increased energy efficiency
 Produce renewable energy
 Prevent environmental degradation
 Clean up natural environment
 Supports green services

Percent of course:0%

Section #2 Course Transferability

Concern over students taking many courses that do not have a high transfer value has led to increasing attention to the transferability of LDC courses. The state currently requires us to certify that at least one OUS school will accept a new LDC course in transfer. Faculty should communicate with colleagues at one or more OUS schools to ascertain how the course will transfer by answering these questions.

- 1. Is there an equivalent lower division course at the University?
- 2. Will a department accept the course for its major or minor requirements?
- 3. Will the course be accepted as part of the University's distribution requirements?

If a course transfers as an elective only, it may still be accepted or approved as an LDC course, depending on the nature of the course, though it will likely not be eligible for Gen Ed status.

Which OUS schools will the course transfer to? (Check all that apply)

✓ PSU (Portland State University)

Identify comparable course(s) at OUS school(s)