

**Three Rivers Community College
ECE K109 Science and Math for Children
Course Syllabus**

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Monday, Tuesday and Wednesdays or by appointment

Course Description:

Prerequisite: ENG* K101 eligibility and ECE K101 or permission of the Program Coordinator based on ECE work experience. ECE K182 is recommended.

In this course, students will acquire an understanding of the materials and methods of working with young children. The focus will be on math and science and their integration into the early childhood curriculum. Emphasis will be placed on understanding these areas from a child development perspective. Active participation working with children will be required.

Required Texts:

Charlesworth, Rosalind Karen Lind. Math and Science for Young Children (5th Ed.). Thompson Delmar Learning. 2007. ISBN

Additional readings will be assigned throughout the semester.

Course Objectives:

To provide students with an opportunity to apply theories of child development to learning experiences with young children.

To offer child-orientated experiences in order to stimulate children's curiosity.

To support the young child's natural desire to explore and learn.

To discover how to make simple low-cost materials in order to teach science and math concepts.

To discover strategies that aid in the development of problem-solving skills of young children.

To utilize observation as a tool for planning curricular experiences.

Upon successful completion of this course the student will:

Plan lessons for children based on numerous theorists that include Piaget, Vygotsky, Gardner, and Kamii.

Apply developmentally appropriate practices in math and science lessons.

Develop a portfolio that includes math / science activities, parent / teacher resources, recipes, songs / poems / finger plays, and a bibliography of children's books.

Learn integrative approaches to curriculum by designing a web which includes sample lesson plans written in a specific format.

Policies:

Class attendance is required. The greatest amount of learning occurs during class time which is not covered by required assignments. Two late arrivals or early departures will count as one missed class. For each class missed ten points will be deducted, upon the fourth absence you may be dismissed from the class. Attendance is taken at the beginning of class. Lateness is disruptive, discourteous and usually unwarranted. Please be on time.

The student is responsible for all materials covered in class as well as the assignments. If a student misses a class, it is the student's responsibility to get the notes from another student. Do not contact the Instructor and **ask for a review of the class**. Learn to rely on your syllabus and / or another student. You may want to share your contact information with other students to help facilitate this process.

Active participation in class discussions and activities is required. Students are expected to complete assigned readings prior to class and come to class prepared to discuss them. Throughout the course there will be other written assignments to help guide your studies which will be handed in and counted as part of your participation grade. *Yes - grades are important. They allow you to advance to other classes, graduate, and eventually get a great job. However, the value of learning itself is so important. Acquiring knowledge, especially about a subject you are passionate about, is very empowering. Learning for the sake of learning increases your confidence and in fact makes you want to learn more. Thus it's important to participate, get involved in class discussions and ask questions.*

Spelling and grammar will be included as part of the grade for all written work. Thus, proper spelling and careful proofreading are important.

Extra credit projects will not be accepted. Students are urged to devote their time and energy to fulfilling stated class requirements. With prior permission, there may be an opportunity to redo and resubmit an assignment, this will be decided on a one-on-one basis.

Make-ups for scheduled tests is not allowed, unless arrangements are made with the instructor in advance. Make-ups must be done in a timely manner.

It is assumed that all assignments will be completed and turned in on time. Fifteen points will be deducted from a late assignment. Assignments will not be accepted beyond a one-week extension. Late assignments cannot be rewritten or resubmitted.

Lap top computers and tape recorders may be used during class time, with prior permission and for the purpose of note taking only. Calculators and computers are prohibited during exams. Cell phones, pagers, ipods, and other similar devices must be turned off during class. Texting or using your cell phones during class is not acceptable.

As part of the course, students may be required to spend additional time observing and/or working with children in actual or simulated child development settings.

Students with disabilities who may need academic accommodations should discuss options with the instructor as early as possible. You will need to provide written documentation of your disability to the Student Services Counselors (Disabled Student Counselor). Appropriate accommodations will be provided to students who have completed this procedure.

If you have problems with the course or material, please see me or call to arrange for an appointment. Students who are not able to complete the course need to speak to me immediately as we will try to work together to have you complete the class successfully.

This syllabus is subject to change. Any changes will be announced in class. *Please refer to the Institutional Policies available in the Office of the Dean of Student Development and Services as well as on line, which include regulations regarding student conduct and the disciplinary code.*

Points given for requirements are as follows:

Lesson Plan Presentation	100 points
Portfolio Assignment	100 points
First Test (Chapters 1 - 16)	50 points
Second Test (Chapters 17 - 32)	75 points
Third Test (Chapters 33 - 41)	75 points
Attendance	50 points
Participation (<i>article reviews included</i>)	50 points
Total:	500 points

Final Grade:

To determine your final grade take the total number of points and divide by five.

		A	96 - 100	A-	90 - 95
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
F	under 59				