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Office Hours: 8:00- 9:00 Mon/Wed
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Course Syllabus

**CDEC 2307
 Math and Science for Early Childhood**

***** Note to Student *****

Student Success is our number one priority at Coastal Bend College and we realize that prompt, effective communication plays a significant role in achieving that goal. It is vitally important that you have the proper contact information for your instructor. This should include their phone number, email address, and if applicable, their office number, and office hours. If you ever have any problems contacting your instructor, or do not receive a prompt response to your inquiries, please contact the Director of Technical Programs, or the Dean of Workforce, as soon as possible. Their contact information is provided below:

<p><i>Julia Garcia, Dean of Workforce Training (830) 569-4222 X1202</i> jgarcia@coastalbend.edu</p>	<p><i>Noemi Aguilar, Assistant Dean of Workforce Programs (361) 354-2306</i> aguilar@coastalbend.edu</p>
	<p><i>Coordinator of Professional Services: Jarod Bleibdrey: (361) 354-2339</i> jbleibdrey@coastalbend.edu</p>

"For students in this course who may have a criminal background, please be advised that the background could keep you from being licensed by the State of Texas. If you have a question about your background and licensure, please speak with your faculty member or the Assistant Dean. You also have the right to request a criminal history evaluation letter from the applicable licensing agency."

We wish you all the best in your education and encourage you to contact us if you have any questions or concerns.

Keeping student success in sight, faculty in each of the courses will review with students, course information with specific reading schedules, assignments, and testing information during the first week of class. Additionally, the course information will be posted to Blackboard (THECB 60x30TX compliance).

CIP Code Description 19.0709 (Child Development)

1/4/2019



Course Description: An exploration of principles, methods, and materials for teaching children math and science concepts and process skills through discovery and play.

Semester Hours Credit: 3

Lecture/Lab Hours: The class meets for two (2) lecture hours per week and two (2) lab hours assigned by instructor.

Prerequisite: Intermediate Course

Textbook(s): **Math & Science for Young Children**, 7th ed., Charlesworth. Cengage. ISBN: 9780840030825

End of course outcomes: Upon successful completion of this course, the student will be able to:

1. Use critical thinking skills to align the sequence of cognitive development to the acquisition of math and science concepts;
2. Use communication skills to explain the scientific process and its application to early care and education environments;
3. Use critical thinking skills to develop strategies which promote critical thinking and problem-solving skills in children;
4. Use empirical and quantitative data to plan discovery experiences using observation and assessment; and
5. Use personal and social responsibility to evaluate developmentally appropriate materials, equipment, and environments to support the attainment of math and science concepts and skills.

Teaching Methods: Lecture, discussion, videos and group activities

Evaluation Methods: Will be based on the following criteria:

- Assignments 30%
- Tests & Finals 30%
- Lab 20%
- Teacher Evaluation 15%
- Attendance 5%

A 100-90 Points, B 89-80 Points, C 79-70 Points, D 69-60, F 59 & below

The course grade is comprised of both lecture and lab. Failure to do lab assignments, including excessive absence from lab, may result in the student being dropped from the course.

Student Contribution:

Each student is expected to spend 3 hours per week preparing for class. Attendance is crucial for the success in this course. Student will be dropped after three (3) consecutive absences. Student will be dropped after three (3) consecutive absences

1/4/2019

Student Learning Outcome: Using critical thinking skills, communication, teamwork; students will develop strategies which promote critical thinking and problem-solving skills in children.

Target: 90% accuracy

CDEC 2307 Math and Science for Young Children

Week	Readings	Assignments/Tests
Week 2	Ch.1 Development , Acquisition, Problem Solving, and Assessment	Demonstrate learning experiences
Week 3	Ch. 2 Basics of Science, Engineering, and Technology	Engineering design
Week 4	Ch. 3 Prekindegarten and Kindergarten Concepts and Skills	Working with standards
Week 5		TEST I
Week 6	Ch. 4 More Prekindergarten & Kindergarten Concepts and Skills: Early Geometry, Parts & Wholes, And Applications of Fundamental Concepts to Science and Engineering	Geometry ad Brain Connection/ Essay for 4 year old- how does this apply to this age group?
Week 7	Ch. 5Prek-K-K Ordering Measurement, and Data Collection and Analysis	Graph Demonstration project
Week 8	Ch. 6 Standards Stem and Steam	Prop box in Dramatic play with math concepts
Week 9		TEST II
Week 10	Ch. 7 Transitioning from Preschool to kindergarten to Primary	Visit to public schools
Week 11	Ch. 8 Whole number operations, patterns, and fractions	Pre assessments
Week 12	Ch. 9 Place Value, Geometry, Data Analysis and Measurement	Demonstrating Geometry engineering and Data Analysis
Week 13	Ch. 9 Place Value, Geometry, Data Analysis and Measurement	Continued...
Week 14	Ch. 10 Physical Science and the next generation	NGSS Performance Expectations
Week 15	Ch. 10 Physical Science and the next generation	Class presentation : How to develop critical thinking skills in young children ; developing strategies
Week 16		Final Exam

1/4/2019



Technical Support:

Email Support:	helpdesk@coastalbend.edu cabrigo@coastalbend.edu
Telephone Support:	866-722-2838 ext. 2508 (Toll Free) 361.354.2508 (Direct Line)
Live Chat:	Fall/Spring Hours: Monday-Thursday 8 a.m. to 8 p.m.; Friday 8 a.m. to 5 p.m. Summer Hours: Monday-Thursday 7 a.m. to 6 p.m.

Tutoring Services: Coastal Bend College offers free tutoring services to all CBC students who need academic assistance. Services include One-on-One, Group, and Online tutoring to all current CBC students. The Tutoring Coordinator’s office is at CBC-Beeville in the Student Success Center (SSC), Room 140 which is in the R.W. Dirks building. The SSC’s hours of operation are Monday -Thursday from 8 am – 8 pm. Tutoring services are also available at all the CBC site locations and students can visit the site’s SSC. For questions regarding tutoring services, please contact the CBC Tutoring Coordinator at (361) 354-2838 ext. 2578 or visit us at our website at: <http://coastalbend.edu/tutoring/>.

Beeville	Alice	Kingsville	Pleasanton
3800 Charco Road Beeville, TX 78102 1-866-722-2838	704 Coyote Trail Alice, TX 78332 1-866-891-2981	1814 Brahma Blvd. Kingsville, TX 78363 1-866-262-1615	1411 Bensdale Pleasanton, TX 78064 1-866-361-4222

Grady C. Hogue Learning Resource Center (Library): Located on the Beeville campus, the operation hours are Monday - Thursday 8:00 a.m. - 6:00 p.m.; Friday 8:00 a.m.- 5:00 p.m.

(Summer semesters will observe the CBC campus operation hours.) For locations and hours of CBC library in Alice, Kingsville, and Pleasanton sites please visit the library web page links below.

- Grady C. Hogue Learning Resource Center (Library): <http://lrc.coastalbend.edu/about>
- Online Catalog : <http://lrc.coastalbend.edu/catalog>
- Library Website: <http://lrc.coastalbend.edu/about>
- Hours and Locations: <http://lrc.coastalbend.edu/hours>

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Pleasanton Public Library: <https://pleasanton.biblionix.com/>

115 N. Main St., Pleasanton, TX 78064

Monday – Friday 9:00 a.m. – 6:00 p.m.

Saturday 9:00 a.m. – 1:00 p.m.

Financial Aid: Resources are available for students for financial aid, work study, and veteran benefits. For additional information, visit our website at www.coastalbend.edu/finaid or contact us at 361-354-2238. Office hours: Monday-Thursday 7-6 and Friday 8-5 (*THECB 60x30TX compliance.*)

ADA Statement: No qualified individual with a disability shall, by reason of such disability, be excluded from participation in or be denied the benefits of the services, programs, or activities of the College District, or be subjected to discrimination by the College District. Nor shall the College District exclude or otherwise deny equal services, programs, or activities to an individual because of the known disability of an individual with whom the individual is known to have a relationship or association. 42 U.S.C. 12132; 28 CFR 35.130(g).

See at: [GA \(Legal\)](#)

Students with Disabilities: Please notify your instructor of any modification/adaptation you may require to accommodate a disability-related need. You will need to provide documentation to the Director of Student Services so the most appropriate accommodations can be determined. Specialized services are available through the Office of Disability Services (SSB 4.104, 471-6259). For more information contact (361) 354-2300.

Scholastic Dishonesty: Each student is charged with notice and knowledge of the contents and provisions of Coastal Bend College’s rules and regulations concerning student conduct. All students shall obey the law, show respect for properly constituted authority, and observe correct standards of conduct. Scholastic dishonesty shall constitute a violation of these rules and regulations and is punishable as prescribed by Coastal Bend College Policies [FLB \(Local\)](#) and [FM \(Local\)](#). Scholastic dishonesty shall include, but not be limited to, cheating on a test, plagiarism, and collusion.

Use of E-mail for Official Correspondence to students: All students should be familiar with the college’s official email student notification policy. Students are expected to check their CBC email on a frequent and regular basis to stay current with college-related communications, recognizing that certain communications may be time-critical. CBC email format: last name with last four digits of social security number @study.coastalbend.edu and password is your student ID (ex. cougar1234@study.coastalbend.edu).

Copyright Law and Intellectual Property Rights Policy: Copyright is the right of an author, artist, composer or other creator of a work of authorship to control the use of his or her work by others. Protection extends to 1/4/2019



literary works, musical works, dramatic works, pantomimes and choreographic works, pictorial and graphic works, sculpture, motion pictures and other audiovisual works, sound recordings and architectural works. Generally speaking, a copyrighted work may not be reproduced by others without the copyright owner's permission. The public display or performance of copyrighted works is similarly restricted. Generally, the unauthorized reproduction, performance or distribution of a copyrighted work is copyright infringement and may subject the infringer to civil and criminal penalties. The Fair Use Doctrine outlines exceptions to this Law and is outlined in Coastal Bend College Policy, [CT \(Legal\)](#).

Coastal Bend College, its faculty, students and employees must comply with Copyright Law. Detailed information on Copyright Law and Intellectual Property Rights is available in Coastal Bend College Policy [CT \(Legal\)](#) and [CT \(Local\)](#).

Questions regarding this information should be directed to the Director of Library Services at: library@coastalbend.edu or the Office of Marketing and Public Relations at: socialmedia@coastalbend.edu.

Intellectual Property: Student /Third Party Works: Rights to copyrightable or patentable works created by a student or a third party, that is, not a College District employee, shall reside with the author/ creator. Detailed information on Copyright Law and Intellectual Property Rights is available in Coastal Bend College Policy [CT \(Legal\)](#) and [CT \(Local\)](#).

Questions regarding this information should be directed to Library Services at: library@coastalbend.edu.

NOTE: The College website (www.coastalbend.edu) serves as the main source with the most current version of the Coastal Bend College Board Policies and the Coastal Bend College Catalog.