



# CHIPOLA COLLEGE

## COURSE SYLLABUS

Chipola's website: [www.chipola.edu](http://www.chipola.edu)

**COURSE TITLE:**

Introduction to Teaching Mathematics & Science

**COURSE NUMBER:**

EDG 2316

**COURSE DESCRIPTION (with prerequisites):**

This course is a study of specific math and science content skills required for K-12 teachers by the FLDOE competencies and skills and national/state/district content standards. Content skills include confident and creative problem solving; constructing sound mathematical and scientific arguments; applying math and science to everyday life; integrating cutting-edge technologies; and speaking and writing about math and science. Students develop an understanding of the K-12 learning environment effective for mathematics and science teaching. It is required that students complete a series of test prep sessions for the General Knowledge certification exam. 3 semester hours credit.

**NAME(S) OF INSTRUCTORS:**

Stephanie Ward

**EFFECTIVE ACADEMIC YEAR:**

2023-2024

**REQUIRED TEXTBOOKS AND INSTRUCTIONAL MATERIALS:**

No textbook or course materials are required to purchase for this course.

ZTC

**GRADING POLICY:**

The standing of a student in each course is expressed by one of the following letters and corresponding grading system:

**A – 90 – 100**

**B – 80 – 89**

**C – 70 – 79**

**D – 60 – 69**

**F – 59 or less**

The Chipola Catalog provides policies and procedures regarding the grading system. A student's Grade Point Average is derived from the grading system/quality point scale.

**ATTENDANCE AND WITHDRAWAL POLICIES:**

Chipola College expects regular attendance of all students and for all instructors to record attendance daily. Students who are absent from classes for any reason other than official college activities must satisfy the instructor concerned that the absence was due to illness or other clearly unavoidable reasons. Otherwise, the student may suffer grade loss at the

discretion of the instructor. Chipola policy allows each instructor to specify in the Instructor First Day Handout whether or not an absence is excusable and what effect the absence or tardy may have on the grade.

A student is allowed to repeat a course a maximum of three (3) times. **On the third attempt a student (1) must bear the full cost of instruction (unless waived by Student Services), (2) cannot withdraw, and (3) must receive a grade.**

#### **MAKE-UP POLICY:**

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Chipola allows each instructor to specify in the Instructor First Day Handout the makeup policy.

#### **ACADEMIC HONOR CODE POLICY:**

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Students are expected to uphold the Academic Honor Code, which is based on the premise that each student has the responsibility to (1) uphold the highest standards of academic honesty in his/her own work; (2) refuse to tolerate academic dishonesty in the college community; and (3) foster a high sense of honor and social responsibility on the part of students. Further information regarding the Academic Honor Code may be found in the Chipola Catalog, Student Governance section.

#### **STUDENTS WITH DISABILITIES POLICY:**

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Chipola College is committed to making all programs and facilities accessible to anyone with a disability. Chipola's goal is for students to obtain maximum benefit from their educational experience and to effectively transition into the college environment. Students with disabilities are requested to voluntarily contact the Office of Students with Disabilities to complete the intake process and determine their eligibility for reasonable accommodations.

#### **NOTICE OF EQUAL ACCESS/EQUAL OPPORTUNITY AND NONDISCRIMINATION:**

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Chipola College does not discriminate against any persons, employees, students, applicants or others affiliated with the college in regards to race, color, religion, ethnicity, national origin, age, veteran's status, disability, gender, genetic information, marital status, pregnancy or any other protected class under applicable federal and state laws, in any college program, activity or employment.

Wendy Phippen, Associate Vice President of Human Resources, Equity Officer and Title IX Coordinator, 3094 Indian Circle, Marianna, FL 32446, Building A, Room 183C, 850-718-2269, [pippenw@chipola.edu](mailto:pippenw@chipola.edu).

#### **LIBRARY AND ON-LINE REFERENCE MATERIALS:**

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The library is a comprehensive learning resource center providing information in print, electronic, and multimedia format to support the educational objectives of the College. On-line catalogs, e-books, and electronic databases can be accessed through the Library Resources link within your course in Canvas or by using the *Search* icon on the Chipola Library website at [www.chipola.edu/library](http://www.chipola.edu/library). If you have questions about database usage, consult the "How to Use the Chipola Databases" on the Library website or call the Library at 850/718-2274 during regular hours. Library hours are posted each semester at the building entrance and on the Library website. See your Instructor First Day Handout for individual instructor recommendations and resources.

## **TECHNOLOGY RESOURCES:**

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The college's learning management system is **Canvas**. Classes become available on Canvas on the first day of the semester. It is the student's responsibility to log onto the Canvas system the first day of class to establish the first day of attendance and to check announcements. All official class communication must be through Canvas. For further information, contact your instructor or the Director of Learning Resources. The Canvas support hotline is available online in live chat and on the phone, toll-free, at 855-308-2812 for any issues utilizing Canvas. The **Technology Center**, located in the library, is equipped with computer workstations. Lab hours are posted each semester at the building entrance and on the Library website.

## **FREE TUTORING RESOURCES:**

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The Academic Center for Excellence (ACE) Lab, located in Building L, offers free tutoring from 8 a.m. to 5 p.m. and is equipped with computer workstations. ACE Lab hours are posted each semester at the room entrance and on the website. Additionally, live online tutoring conferences and individual tutoring sessions are available for a variety of courses through ACE @ Home. For a conference schedule or to schedule an individual appointment, visit "ACE Tutoring" in the left navigation from any course in Canvas.

## **ELECTRONIC DEVICE USAGE STATEMENT:**

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Classrooms should be free of all unnecessary distractions from the task of learning. Therefore, as a general rule, students should silence and avoid use of all electronic devices (laptops, phones, tablets, etc.) not being used for coursework. Consult first-day handouts for any specific policies related to the use of electronic devices in the classroom, as they may vary depending upon the nature of the course or the guidelines of the instructor. Faculty reserve the right to regulate the use of electronic devices and their accessories in class.

## **DISCIPLINE SPECIFIC COMPETENCIES / LEARNING OUTCOMES:**

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E – 1 Knowledge and application of basic integrated math and science concepts to apply to real world scenarios.

E – 2 Aptitude and skills required for the Florida Teaching Competencies for math and science.

E – 3 Exploration of pedagogy for the teaching of math and science. |

**Linking Course-level Student Learning Outcomes with Discipline-Specific Competencies, Assessment Methods, and Artifacts**

<b>COURSE-LEVEL STUDENT LEARNING OUTCOMES FOR EDG 2316</b>	<b>DISCIPLINE-SPECIFIC GENERAL EDUCATION COMPETENCIES</b>	<b>ASSESSMENT METHODS FOR COURSE LEVEL STUDENT LEARNING OUTCOMES (see Notes below)</b>
<ul style="list-style-type: none"> <li>Demonstrate knowledge of number sense, concepts, and operations; geometry and measurement; algebraic thinking and the coordinate plane; and knowledge of probability, statistics, and data interpretation.</li> <li>Demonstrate knowledge of the nature of science, physical science, earth and space science, and life science.</li> <li>Exhibit math and science skills evident throughout the national, state, and district content standards.</li> <li>Demonstrate the aptitude and skills necessary to pass the math and science sections of the General Knowledge exam.</li> <li>Demonstrate an understanding of some pedagogical practices for teaching math and science.</li> </ul>	<p>E-1 Knowledge and application of basic integrated math and science concepts to apply to real world scenarios.</p> <p>E-2 Aptitude and skills required for the Florida Teaching Competencies for math and science.</p> <p>E-3 Exploration of pedagogy for the teaching of math and science</p>	<p>T, Pre/Post, OT, UT, Q, F</p> <p>T, Pre/Post, OT, UT, Q, F</p> <p>T, Pre/Post, OT, UT, Q, F</p>

**Notes: Assessment Codes**

<b>BO</b> - Behavioral Observation	<b>EX</b> - Dept Exam	<b>Port</b> - Portfolio	<b>SD</b> - Skills Demonstration
<b>Cap Proj</b> - Capstone Course	<b>Exp</b> - Experiments	<b>Prac</b> - Practicum	<b>SE</b> - Natl or State Standardized
<b>CF</b> - Cumulative Final	<b>F</b> - Final Exam	<b>Pre/ Post</b> - Pre-/Post-Tests	<b>Sk</b> - Ck Skills Check-Off
<b>Clin</b> - Clinicals	<b>H</b> - Homework	<b>Proj</b> - Projects	<b>SP</b> - Skills Performance
<b>CP</b> - Case Plan	<b>Intern</b> - Internship	<b>PS</b> - Problem Solving	<b>T</b> - Tests
<b>CS</b> - Case Study	<b>J</b> - Jury	<b>Q</b> - Quizzes	<b>UT</b> - Unit Tests
<b>DB</b> - Discussion Board	<b>JP</b> - Judged Perf/Exh	<b>R</b> - Recital	<b>W</b> - Writing Assignments
<b>DE</b> - Documented Essays	<b>Obs</b> - Teacher Observ	<b>RP</b> - Research Papers	
<b>E</b> - Essays	<b>OT</b> - Objective Tests	<b>RPT</b> - Report/Presentation	

**MEANS OF ACCOMPLISHING STUDENT LEARNING OUTCOMES:**

Lecture is the primary method of instruction covering topics primarily from the textbook. The presentation is enhanced by overhead slides, class demonstrations, and board illustrations. Students are responsible for any material contained within the assigned chapters of the textbook, as well as any material covered during lecture. Students should read the text, use the lecture outline PowerPoint's for in-class notes, and review the online review quizzes in order to prepare for the chapter tests. The students' understanding of the material and familiarity with the terminology will be assessed using a multiple-choice format exam. Assignments completed in and outside of class count toward the semester grade, including a solar system survey project completed outside of class. The department's Meade LX200GPS telescope is used to illustrate modern

GPS computer-guided observational techniques while providing the students an opportunity to view some common astronomical objects |

**ASSIGNMENT AND/OR COURSE OUTLINE**

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See your Instructor First Day Handout for individual instructor assignment schedule. |