Student Learning Outcomes and CAP Lower Division Eight Courses Mapped onto the Instructional Guide for the California Preschool Curriculum Framework, Volume 1

Unit 6 – Mathematics

Unit 6
Getting Ready for the Unit and Connecting to Experience

Course: Introduction to Curriculum
Student Learning Outcomes:
• Investigate and apply developmentally appropriate principles and teaching strategies to positively influence all young children’s development and acquisition of knowledge and skills.
• Compare and contrast play-based curriculum that supports children’s cognitive, language, creative, physical and social/emotional development.

Objectives:
• Define and apply constructivist theory in curriculum planning for young children.
• Identify key ways in which the environment functions as an essential component of curriculum.
• Observe and document children at play and propose appropriate activities and possibilities for expanding children's learning in a variety of curriculum areas.

Course: Principle and Practices of Teaching Young Children
Student Learning Outcomes:
• Examine the value of play as a vehicle for developing skills, knowledge, dispositions, and strengthening relationships among young children.
• Analyze the relationship between observation, planning, implementation and assessment in developing effective teaching strategies and positive learning and development.

Course: Observation and Assessment
Student Learning Outcomes:
• Demonstrate systematic observation methods to provide data to assess the impact of the environment, interactions and curriculum on all domains of children’s learning and development.

Objectives:
• Use observation tools to identify quality in play-based environment, curriculum, and care routines (e.g., ECERS-R, ELLCO).
Course: Practicum: Field Experience

Student Learning Outcomes:
• Evaluate the effectiveness of an early childhood curriculum, classroom, teaching strategies and how teachers involve families in their children’s development and learning to improve teaching practices for all children.
• Critically assess one’s own teaching experiences to guide and inform practice.

Objectives:
• Demonstrate strategies to integrate content areas and opportunities for development in all domains across the curriculum.

Unit 6 – Key Topic 1
Organization and Rationale of the Mathematics Domain

Course: Introduction of Curriculum

Student Learning Outcomes:
• Evaluate the teachers’ role in providing best and promising practices in early childhood programs.

Objectives:
• Design and evaluate age-appropriate learning activities and materials for children ages 0-6 in curriculum content areas such as: the arts, math, science, social studies, language, and literacy.
• Use written curriculum plans to demonstrate familiarity with appropriate materials, equipment, and curriculum planning principles that support optimum learning and development in young children.
• Construct curriculum and environments that support the physical, cognitive, and social/emotional development, including socialization, self-regulation, self-help skills for all children.

Course: Principle and Practices of Teaching Young Children

Objectives:
• Describe adaptations (programmatic, curricular and environmental strategies) needed to support children with diverse abilities and characteristics.
• Identify and compare effective policies, practices, and environments in early childhood settings.

Course: Observation and Assessment

Student Learning Outcomes:
• Demonstrate systematic observation methods to provide data to assess the impact of the environment, interactions and curriculum on all domains of children’s learning and development.
Course: Observation and Assessment – Continued

Objectives:
• Illustrate the use of observation and assessment to implement curriculum and environmental changes in support of both group and individual needs.

Course: Practicum-Field Experience

Student Learning Outcomes:
• Integrate understandings of children’s development and needs to develop and maintain healthy, safe, respectful, supportive and challenging learning environments for all children.
• Evaluate the effectiveness of an early childhood curriculum, classroom, teaching strategies and how teachers involve families in their children’s development and learning to improve teaching practices for all children.

Objectives:
• Demonstrate strategies to integrate content areas and opportunities for development in all domains across the curriculum.

Unit 6 – Key Topic 2
Getting to Know Environment and Materials That Support the Domain

Course: Introduction of Curriculum

Student Learning Outcomes:
• Evaluate the teachers’ role in providing best and promising practices in early childhood programs.

Objectives:
• Design and evaluate age-appropriate learning activities and materials for children ages 0-6 in curriculum content areas such as: the arts, math, science, social studies, language, and literacy.
• Use written curriculum plans to demonstrate familiarity with appropriate materials, equipment, and curriculum planning principles that support optimum learning and development in young children.
• Construct curriculum and environments that support the physical, cognitive, and social/emotional development, including socialization, self-regulation, self-help skills for all children.

Course: Principle and Practices

Objectives:
• Describe adaptations (programmatic, curricular and environmental strategies) needed to support children with diverse abilities and characteristics.
• Identify and compare effective policies, practices, and environments in early childhood settings.
Course: Observation and Assessment

Student Learning Outcomes:
• Demonstrate systematic observation methods to provide data to assess the impact of the environment, interactions and curriculum on all domains of children’s learning and development.

Objectives:
• Illustrate the use of observation and assessment to implement curriculum and environmental changes in support of both group and individual needs.

Course: Practicum-Field Experience

Student Learning Outcomes:
• Integrate understandings of children’s development and needs to develop and maintain healthy, safe, respectful, supportive and challenging learning environments for all children.
• Evaluate the effectiveness of an early childhood curriculum, classroom, teaching strategies and how teachers involve families in their children’s development and learning to improve teaching practices for all children.

Objectives:
• Demonstrate strategies to integrate content areas and opportunities for development in all domains across the curriculum.

Unit 6 – Key Topic 3
Getting to Know Interactions and Strategies That Support the Domain

Course: Introduction of Curriculum

Student Learning Outcomes:
• Evaluate the teachers’ role in providing best and promising practices in early childhood programs.

Objectives:
• Design and evaluate age-appropriate learning activities and materials for children ages 0-6 in curriculum content areas such as: the arts, math, science, social studies, language, and literacy.
• Use written curriculum plans to demonstrate familiarity with appropriate materials, equipment, and curriculum planning principles that support optimum learning and development in young children.
• Construct curriculum and environments that support the physical, cognitive, and social/emotional development, including socialization, self-regulation, self-help skills for all children.
Course: Principle and Practices of Teaching Young Children

Objectives:
• Describe adaptations (programmatic, curricular and environmental strategies) needed to support children with diverse abilities and characteristics.
• Identify and compare effective policies, practices, and environments in early childhood settings.

Course: Observation and Assessment

Student Learning Outcomes:
• Demonstrate systematic observation methods to provide data to assess the impact of the environment, interactions and curriculum on all domains of children’s learning and development.

Objectives:
• Illustrate the use of observation and assessment to implement curriculum and environmental changes in support of both group and individual needs.

Course: Practicum-Field Experience

Student Learning Outcomes:
• Integrate understandings of children’s development and needs to develop and maintain healthy, safe, respectful, supportive and challenging learning environments for all children.
• Evaluate the effectiveness of an early childhood curriculum, classroom, teaching strategies and how teachers involve families in their children’s development and learning to improve teaching practices for all children.

Objectives:
• Demonstrate strategies to integrate content areas and opportunities for development in all domains across the curriculum.

Unit 6 – Key Topic 4
Universal Design, Individualizing, and Family Partnerships

Course: Child Family and Community

Student Learning Outcomes:
• Critique strategies that support and empower families through respectful, reciprocal relationships to involve all families in their children’s development and learning.

Course: Introduction of Curriculum

Student Learning Outcomes:
• Design and implement curriculum based on observation and assessment to support play and learning using developmental, inclusive and anti-bias principles in collaboration with families to support all children.
Course: Introduction of Curriculum – Continued

Objectives:
• Identify and explain how materials, activities, and interactions support and respect cultural, linguistic, ethnic, economic, ability and gender diversity including the acquisition of English as a second language.
• Demonstrate how curriculum and environment can be adapted for children’s unique and individual needs.
• Identify various ways of engaging with children’s families in curriculum planning and documenting of children’s involvement and learning.

Content and Topics:
• Explore developmentally, linguistically, and culturally appropriate and responsive activities that support development of the whole child.

Course: Principle and Practices of Teaching Young Children

Objectives:
• Describe adaptations (programmatic, curricular and environmental strategies) needed to support children with diverse abilities and characteristics.
• Develop strategies to maintain communication and access with English language learning families and children.

Course: Observation and Assessment

Student Learning Outcomes:
• Assess the value of partnerships with families and other professionals in utilizing interpretations of observational data to inform teaching responses and strategies.

Objectives:
• Articulate the value of involving families and other professionals in the observation and assessment process for all children.

Course: Practicum-Field Experience

Student Learning Outcomes:
• Evaluate the effectiveness of an early childhood curriculum, classroom, teaching strategies and how teachers involve families in their children’s development and learning to improve teaching practices for all children.

Objectives:
• Critically assess personal experiences to inform and guide future teaching and collaborative practices.