Intended Audience:

Overview for Facilitators:
ECPC has developed an anchor presentation for each of the Initial Practice-Based Professional Preparation Standards for Early Interventionists/Early Childhood Special Educators (EI/ECSE). The components under each standard are presented separately. The materials are designed for an in-service professional development (PD) program but can be used in a pre-service teacher preparation course. This resource will increase professionals’ ability to address each of the EI/ECSE standard and components. Additional materials for each standard can be found on the ECPC Website: Curriculum Module | The Early Childhood Personnel Center (ecpcta.org)

Speaker Notes
The speaker notes provide a narrative and activities for each slide. You will see speaker notes for most of the slides within the slide deck. The notes provide additional details about the information on a particular slide, including the context for the information and key points. The notes are a guide, and speakers should feel free to modify these as needed. Please note the following:
- The narrative is a sample script for the presenter. Although you may read it verbatim, speaker notes are intended as a guide for the presenter, and you may modify them as needed.

Materials Required for face to face
1. Share the outline with timelines for the training (build in breaks)
2. Conduct an opening activity (introductions/ice breaker)
3. Computers or tablets with internet access for participants (if possible)
4. Handouts
5. Projector with audio capable for playing video with speakers
6. Presentation slides with speaker notes
7. Develop an evaluation tool for all attendees (e.g., continuous improvement activity)

Materials Required for virtual
1. Distribute the link to the online platform in advance
2. Share the outline with timelines for the training (build in breaks)
3. Conduct an opening activity (introductions/ice breaker)
4. Determine how participants will receive handouts and materials, on the cloud, using a storage platform (e.g., dropbox, google, etc.)
5. Platform to share presentation (e.g., zoom, teams, etc.) with polling questions prepared in advance and breakout room capability
6. Upload or send handouts in advance or through platform (insert through chat)
7. Download videos ahead of time to prepare for low bandwidth from slide deck
8. Share screen capability (be sure to enable sound for videos)
9. Develop an evaluation tool for all attendees (e.g., continuous improvement activity)

Objectives for Standard 1, Component 1.1:
After participating in this professional learning opportunity, participants will be able to:
• Describe key theorists and their theories on early development and learning that influence EI/ECSE
• Describe the influence of theories on early development and learning on assessment, curriculum, intervention, and instructional decisions
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<td>References and Resources</td>
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Facilitator: remind participants to take notes throughout the review of developmental theories as they will need this information for the planned activity at the end of the presentation.
Theory

- Defined as an orderly, integrated set of statements that describes, explains, and predicts behavior
- Influenced by cultural values and belief systems
- Continued existence depends on scientific verification:
  - Set of research procedures agreed by the scientific community
  - Endure or replicated over time

Example – practice of phrenology – where the shape of an individual’s head was thought to dictate all other characteristics.

Nature vs. Nurture
Child Development Theories

- Nature
  - All genes and hereditary factors influence who we are and are not likely to vary much across a lifetime
  - Physical traits, personality characteristics, intellectual or creative traits
  - Heredity is most important

Many more theories that have evolved and been supported by evidence over time believe that our development is shaped – to varying degrees – by environmental variables – for instance, early experiences, cultural influences, relational variables.

Nature vs. Nurture continued

- Nurture
  - Environmental variables impact who we are
  - How we are raised
  - Social relationships
  - Surrounding culture

Current EI/ECSE practice is firmly rooted in the evidence base that has unfolded over decades of research and revision of theories of child development that include elements of both nature and nurture, although each of these theories holds different positions about the degree of impact each holds for human development.

The major theories that we use today carry with them a long history of scientific inquiry, which have evolved over time to inform both the developmental manner in which humans grow and change as they move through the life span, and also describe the many variables that...
**Systems Theories**

- Ecological and Transactional Models
- Sameroff: Transactional Model
- Bronfenbrenner/Ecological Systems of Theory
- Neuroscience of Early Childhood

**Foundations of Behavioral Theory**

- Directly observable events are only appropriate targets of the study of child learning and behavior
- Measurable stimuli and behavioral responses
- Originated with Pavlovian experiments with dogs to demonstrate classical conditioning

**B.F. Skinner**

- Developed Operant Conditioning – reinforcers and punishers can be developed to individualize and modify response behaviors
- Led to broader use of behavior modification interventions, primarily tested in clinical settings on older children and adults with cognitive impairments

**Impact Behavior, the Central Thrust of Behavioral Theory as We Will See.**

Ecological and transactional models also describe how external influences – not just at the child and family level – work in systems over time and place to impact the trajectory of human development.

Each of these models holds vital information that relate to the work we do with children and families.

Over time, our work with young children has evolved to include the active ingredients of a number of major theories, which now serves as a primary or unified set of practices for the field of EI/ECSE (e.g., Odom & Wolery, 2003)

Let’s take some time to examine 3 types of theories that lie at the core of EI/ECSE practice:

**Let’s Begin with the Behavioral Perspective.**

Behavioral theory states that only directly observable events are appropriate targets of the study of child learning and behavior.

These events are simple: measurable stimuli and behavioral responses to stimuli.

Originated with Pavlovian experiments with classical conditioning.

- Dog studies
  - John Watson (1878-1958)
    - Baby Albert
    - Believed that behavior can be molded by carefully developed stimulus-response associations over time in a continuous process
  - B.F. Skinner (1904-1990)
    - Operant conditioning – reinforcers and punishers can be developed to individualize and modify response behaviors.
    - Skinner Box

**B.F. Skinner (1904-1990)**

Operant conditioning – reinforcers and punishers can be developed to individualize and modify response behaviors.

- Skinner Box
### Slide 12

**Applied Behavior Analysis (ABA): Key Concepts**
- Three-part contingency (antecedent-response-consequence)
- Systematic use of behavioral strategies - modeling, prompting, shaping, chaining, and differential reinforcement to support positive outcomes
- Fidelity use of functional behavior assessments and development of appropriate behavior intervention plans

### Slide 13

**ABA – Key Concepts**
- Data collection guides assessment, planning, intervention, and evaluation.
- Supports appropriate behavior by teaching new skills
- Modifies the environment to prevent challenging behavior
- Puts prevention strategies in place before new behaviors occur

### Slide 14

**Activity**
- After watching the video on the next slide, discuss the assessments and interventions used in EI/ECSE that are based in behavioral theory

### Slide 15

**Video: A Look at Behaviorism**
https://youtu.be/eLaa8cgIjKk
Behavioral and developmental research are rooted in fairly distinct perspectives, theories, and methodologies, with different implications for clinical practice.

Behavioral scientists over the decades have not integrated the rich body of information on typical child development when formulating behavioral interventions - focused on discrete skills rather than on developmentally appropriate learning targets (Schreibman, 2015).

As the ability to identify developmental problems early in life progressed, researchers and practitioners began to integrate developmental theories into their practice to ensure that teaching and interventions were relevant to the very young child, with the caregiving context. Rooted in multiple disciplines, including psychology, cognitive science, and neuroscience.

Let’s review 3 of these foundational theories:

### Slide 17

#### 3 Developmentally-Based Theories

- Piaget: Cognitive developmental theory
- Vygotsky: Sociocultural theory
- Attachment Theory

We will now take a look at 3 theories often used today in EI/ECSE practice that use a developmental lens:

### Slide 18

#### Jean Piaget: Cognitive-Behavioral Framework

- One of the most influential theorists of modern child developmental theory
- Did not believe that child learning required the use of reinforcers such as praise or rewards from adults
- Piaget was the first to closely study the way children engaged with and understood the physical world, and their reasoning about the social world. His contribution to the study of child development promoted the development of specific curriculums designed to promote...
Slide 19

**Schemas: Frameworks for Understanding**

- "Building blocks" of knowledge
- Helps children organize and make gradually more complex meaning of the world
- Children gradually transition from simpler ways of understanding to more complicated ones, using a string of organizing experiences over time

- Piaget called the schema the basic building block of intelligent behavior – a way of organizing knowledge. Indeed, it is useful to think of schemas as “units” of knowledge, each relating to one aspect of the world, including objects, actions, and abstract concepts.
- For example, a child is pushing a doll around in a stroller, which is one simple schema. He then decides to feed her a plastic carrot while he is pushing her, which layers a second schema into his play. If he would then tell his mother, “we are going to go to walk to the park now” he is combining schemas to engage in early pretend play – a first step towards representational thought.

Slide 20

**Piaget: 3 Basic Concepts**

- **Schema**: a mental structure we use to organize our perceptions and memories
- **Assimilation**: use of existing schemas to build on our stores of knowledge and skills
- **Accommodation**: “building” or creating new schemas (involves deeper change)

Piaget believed that children develop a scheme for any given element of learning and use that schema to build new information to build new skills. In a cyclical manner, the child then accommodates to the new level of understanding and competence as he or she is again ready to learn something new and more complex.

- **Schema**: a mental structure we use to organize our perceptions and memories
- **Assimilation**: use of existing schemas to build on our stores of knowledge and skills
- **Accommodation**: “building” or creating new schemas (involves deeper change)

Slide 21

**Piaget: 4 Stages of Development**

<table>
<thead>
<tr>
<th>STAGE</th>
<th>STAGE OF DEVELOPMENT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensorimotor</td>
<td>0-2 years</td>
<td>Babies use sensations, habits, touch, smell, taste, hearing things change (hot and cold), finding hidden objects, building and dismantling</td>
</tr>
<tr>
<td>Preoperational</td>
<td>2-7 years</td>
<td>Begin to use symbols, language, pretending, story telling</td>
</tr>
<tr>
<td>Concrete Operational</td>
<td>7-11 years</td>
<td>Engage in reasoning behaviors more organized, interested in classifying objects into categories</td>
</tr>
<tr>
<td>Formal Operational</td>
<td>11+</td>
<td>Think in abstract terms, consider hypothetical cognitive processes</td>
</tr>
</tbody>
</table>

Although scientific work done since the time when these 4 stages was first developed suggests that children develop the ability to think abstractly and to understand the mind of another much earlier than Piaget thought, these stages are still useful for understanding the basic sequences of how cognition unfolds:
While Vygotsky agreed with Piaget that children were active learners and acquired knowledge through experiences, he believed that knowledge assembled through social interaction rather than acquired independently by the child in a biologically programmed set of stages. Through interactions with adults and older children, children acquire the capacities and skills they need to function in their unique environment, in the context of their own culture.

Vygotsky hypothesized that Adults, older siblings, cousins, and peers serve as “more knowledgeable others” as they involve young children in daily interactions and experiences – and provide a rich variety of expressions, gestures, sounds and language to communicate about how to survive and thrive in that particular culture.
For example, when a baby makes a sound, adults of most cultures often imitate the sound, smile at the baby, and then attribute meaning to the child’s sound with simple words like “Oh is that right? Are you telling me you’re hungry?” Adults and older children often provide simple words in the context of simple interactions with babies, and they quickly learn to associate words with experiences.

Vygotsky also believed that children develop in a staged sequence: first joining interactions in the context of face-to-face and joint attention interactions, and gradually acquiring the use of communicative symbols in the form of sounds, gestures, and language. When children acquire language, they are then able to engage in many more social dialogs with adults and peers as they begin to think about what the world in a more analytic way, make decisions, and solve problems.

The skills and competencies that children learn are based on the structure of their culture, which prioritize mastery of different tasks depending on the needs of the community.

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The skills and competencies that children learn are based on the structure of their culture, which prioritize mastery of different tasks depending on the needs of the community.
According to attachment theory, pioneered by Mary Ainsworth, Anna Freud, Melanie Klein, and other - babies are born hard-wired to seek proximity to their mothers, and immediately after birth use an array of behaviors (gazing, crying, rooting, grasping) to ensure that they are held, fed, and protected.

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### Slide 31

**Harlow's Experiments**

- Series of studies in the mid1900's
- Young primates sought connection and comfort over food sources
- Described the concept of early bonding in other animal species

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### Slide 29

**Activity**

- As a group, discuss how the concept of “proximal zone of development” can be used to inform IFSP/IEP planning

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### Slide 30

**Attachment Theory**
Mary Ainsworth, a pioneer in attachment theory, developed and validated specific patterns of attachment

**Secure**
- Distressed when mother leaves; “happy reunion” when she returns
- Caregiver perceived as reliable and loving; relationships tend to be mutual & caring

**Insecure: Avoidant**
- Little distress when mother leaves; little reaction upon her return, doesn’t seek proximity
- Caregiver perceived as unreliable, rejecting; relationships distant, preserving autonomy

**Insecure: Resistant/Ambivalent**
- Intense distress when mother leaves; mixed reaction upon her return
- Caregiver perceived as unreliable; relationships characterized by anxiety, approach-rejection

**Insecure: Disorganized/Disoriented**
- May seem oblivious to other’s presence/absence, accept researcher as substitute, and/or engage in stereotyped, even bizarre behaviors

Ainsworth’s attachment work has been largely validated over the decades, that have since then been demonstrated to be relatively consistent across generations of parents and children.

Ongoing data supports our understanding of how insecure attachment styles can influence the course of development over time including Developmental delays Mental health disorders.

Attachment theory shares a lot of overlap with Vygotskian theory and, as we will find out, with the Neuroscience of Early Childhood theoretical model, which we will explore next: https://youtu.be/WjOowWxOXCg
Arnold Sameroff proposed the Transactional Model in the 1970’s. He believed that both nature and nurture are constantly being changed by their interaction with one another – and development is affected by both inborn and environmental forces that constantly shape the other. These forces occur at the family level and include effects of parental wellbeing – or lack of wellbeing – access to safety and basic resources - and also across environmental systems which include political forces, resources, community influences, including supports and threats to health and wellbeing at a climate and global level.

Urie Bronfenbrenner (1917-2005) developed the Ecological Systems Theory. The Ecological systems theory shares many of the same ideas that Sameroff expressed. Both view the child as existing within an intricate system of variables, all of which could have an effect on their development.

Bronfenbrenner’s model uses a series of concentric circles to describe different systems that concurrently influence child development. This model has provided us with one of the most comprehensive models of child development, offering a broad view of the complex variables and contexts active in the dynamic processes of human development. Bronfenbrenner build his theory upon previous theories, acknowledging the central role of social interactions, the importance of emotionally connected caregiving relationships and the need for safety and stability within families to support emerging development.
Described a dynamic system involving both the child’s biological makeup and the collective forces of environment to shape development. He called this the bio ecological model.

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This model states that influences from a unified and related set of nested systems converge to shape the development of a child. What you see are concentric circles around a circle in the middle that represents the child.

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The first circle around the child is represents the microsystem. Within the microsystem experiences and relationships at the level of the family environment, including home, neighborhood play areas, and childcare settings. Interactions within all relationships are bidirectional.

Slide 40

The circle that surrounds the child and the microsystem represents the mesosystem. Contains connections between elements of the microsystems – home, neighborhood, childcare and recognizes the impact of each of these upon the other.

For example, if a parent at home is coping with depression, positive interactions with the childcare staff may be reduced. Staff may in turn feel that the parent is not interested in the child’s well-being at school. The child, responding to the reality of having a parent who is coping with depression at home, may display disruptive behaviors at school as way of gaining adult connection, which may lead staff to blame the parent for the behavior of the child and interact with the child in less positive ways.

Another example of influence at the level of mesosystem: if a child lives in a neighborhood where there are few resources for community activities, that child may have fewer
connections to enriching interactions with others, and reduced access to other forms of information (books, cultural knowledge).

**Slide 41**

**The Exosystem**
- Social settings outside of the child’s family structures but impact experiences
- Formal support systems: religious, health care access, work-related benefits
- Informal support systems: friends and extended family

The next circle around these first 3 systems represents the exosystem Social settings that exist outside of the child’s family structures but nevertheless impact his experiences. Formal support systems like religious institutions, health care access, work-related benefits. Informal support systems like friends and extended family who provide emotional support, connection, and assistance when needed.

Families who are isolated from these systems have fewer opportunities to empower themselves for self-protection and self-advocacy.

More likely to be exposed to adversity and powerlessness.

**Slide 42**

**The Macrosystem**
- Larger constellation of culture, world views, laws, customs and collective resources
- How leaders and systems prioritize the needs of children determine the experiences of children within the family

The next circle around each of the other circles represents the Macrosystem Consists of the larger constellation of culture, world views, laws, customs, and collective resources. How leaders and systems prioritize the needs of children in any given culture determine the experiences of children within the family. For example, some countries provide ample support and resources for childcare and parental leave for all, while others, including the US, do not routinely protect the needs of the child in the context of family. Another example: children and families of immigrant families often do not have access to services that are typically provided at the national level.

**Slide 43**

**The Chronosystem**
Environmental influences that shape the experience of an individual across the life span

Finally, the widest circle around each of the inner circles represents the Chronosystem Environmental influences that shape the experience of an individual across the life span.
Emerged over the past several decades, the science of early brain development has gained momentum in current practice and policy. Grounded in both sociocultural interactive theory and ecological systems theory, the neuroscience of early childhood model is situated in many concepts you will recognize from previous child development theories – including attachment, social learning, and behavioral theories. What makes it unique is that the theoretical basis for development lies in the process of developing brain architecture.

Through a lush proliferation of synaptic development in the first years – over 1 million new connections every second during this time – during a period of “neural exuberance”.

Early experiences support or constrain brain architecture
• Early and consistent serve and return interactions optimize development for children of all abilities

https://developingchild.harvard.edu/resources/serve-return-interaction-shapes-brain-circuitry/

https://www.youtube.com/watch?v=m_5u8QSh6A
### Slide 48

**Key Concepts: Toxic Stress**

- Early and continuing adversity and/or trauma can derail developing brain architecture

Facilitator can show the group this short video and discuss implications for children’s development.

[https://developingchild.harvard.edu/science/key-concepts/](https://developingchild.harvard.edu/science/key-concepts/)

### Slide 49

**Video: Toxic Stress Derails Healthy Development**

[https://www.youtube.com/watch?v=rVwFkcOZHJw](https://www.youtube.com/watch?v=rVwFkcOZHJw)

[https://developingchild.harvard.edu/science/key-concepts/](https://developingchild.harvard.edu/science/key-concepts/)

### Slide 50

**Key Concepts: Resilience**

- Why do some children do well in the face of adversity, and others do not?
- What determines how resilient a child is when faced with difficult circumstances?

Resilience is a complicated capacity – informed by the unique biological capacities of the child in tandem with the protective (or harmful) impact of that child’s environment and primary relationships. Over the past decade or so, science has demonstrated that predictable and responsive relationships are a powerful buffer against the negative effects of trauma.

Facilitator asks the group the questions on the slide. Click on the link: [https://youtu.be/cq07YoMsccU](https://youtu.be/cq07YoMsccU) and then support discussion about how the theoretical underpinnings of resilience can be found within the work of Sameroff, Bronfenbrenner and more recently, the Neuroscience of Early Childhood Development.

Note that behavioral theory is not at odds with the concepts of neuroscience and systems theory – behaviorists consider how extended experiences with reinforcing (positive and safe interactions with caregiving adults) and punishment contingencies set up ongoing antecedent conditions for behavior that may or
may not serve the child well across settings. EI/ECSE providers must always be interested in the meaning of behavior as communication and can support safety and developing resilience at home and at school within the context of best practices with young children.

**Slide 51**

**Video**

*InBrief: What is Resilience?*

https://youtu.be/cqO7YoMscCU

**Slide 52**

**Group Activity I: Antonia and her family**


**Slide 53**

**Framing Individual Theories**

- Using your assigned theoretical perspective, what would be the focus of your concerns for Antonia and her family?
- What would your team want to explore about this case if you were all practitioners grounded in this theory?

Facilitators will divide groups up between the behavioral, developmental, and transactional/ecological perspectives. Use the discussion guide below to support the groups when they reconvene.

**Behavioral Lens**

*Primary focus: Observable behaviors across settings – identifying specific goals for motor and communication skills. Interested in observing Antonia’s behaviors across routines - and planning for learning environments and instructional strategies that support social interaction, cognitive skills, and mobility. Observing and taking data for how Antonia’s family is supporting and reinforcing Antonia’s communication attempts both physically (positioning, adaptive supports) and socially (responding immediately and contingently to sounds, expressions, eye gaze). Finding out from the family what they need to increase*
**Family capacity to provide effective instructional and therapeutic support for Antonia across routines and settings.**

**Developmental Lens**

**Piaget**

Primary focus: How is Antonia exploring her world through play? Is Antonia using her hands and mouth to explore toys that are placed in her hands? Is she currently reaching and grabbing toys to look at explore visually and with her hands? Is she using schemas like banging toys together, shaking them? Others? What sounds or gestures is she making as communication about her wants and needs? How is she playing in the presence of others – does she enjoy it when others join her in what she is attending to? Does she engage in cause-and effect actions like dropping toys while she is in her highchair? Does she imitate the expressions, sounds, or actions of others?

**Attachment/Neuroscience of Early Childhood**

Primary focus: Antonia’s primary relationships and what impacts them across generations, and the influence of early adversity. What were her early experiences when the family was experiencing ongoing housing difficulties, and when her father was living with active substance use? Was her mother, who had no other family support during that time, also preoccupied with the needs of keeping her family safe? Was she herself dealing with mental health challenges like depression? How might that have impacted the needs of a baby who may have learned that when she is quiet in her crib, her mother is calmer? How might the combination of minimal interactions and her developmental challenges combine to constrain her development? How might her need for safe, predictable and positive interactions have gone unmet during the time when there was a lot of change going on across 12 moves? What has changed since the family found more secure housing? Why is Antonia so often in her crib, and what will help this family engage her more often in positive interactions?

**Vygotsky**

Primary focus: Antonia’s interactions with family, and how her family teaches her about
the world. How does this child interact with others, especially her family? Who talks to her, and who brings her out of her crib to engage and interact with others so that she can learn from her family? How does she interact with people outside the family, and how often? How will the Team engage this family to serve more fully as the more knowledgeable others? How will the team use the concept of Proximal Zone of Development to identify appropriate goals for Antonia?

**Systems theory: Bronfenbrenner and Sameroff Lens**

Primary focus: How is Antonia’s development influenced by reciprocal actions across all systems from family to the broader society? How does reality of the lack of stable housing and the father’s substance use impact Antonia’s well-being, including the need for a diagnosis and subsequent support for her developmental concerns? How might the fact that family housing is unstable in turn impact how the family is able to engage in services for Antonia? How would the team want to work to make sure housing, physical and mental health care, and appropriate therapeutic services are accessible so that in turn, the family is empowered to help Antonia be fully included in family interactions – and be supported to practice new targeted skills as she grows?

---

**References and Resources**

Slide 55

References and Resources

- Early Childhood Personnel Center (ECPC): Cross-Disciplinary Competencies

Slide 56

References and Resources

- https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6411562/pdf/40617_2018_Article_236.pdf

- https://ecpcta.org/
- https://ecpcta.org/cross-disciplinary-competencies/