## Development

research

designs $\quad$| longitudinal: one group of |
| :--- |
| people is followed and assessed |
| at different times as they age |
| cross-sectional: several different |
| age-groups are studied at one time |
| cross-sequential: combination |
| of longitudinal and cross-sectional |

## Issues in Studying Human Development <br> nature vs. <br> 

(scientific study of changes that occur in people as they age)

- nature refers to heredity and the influence of inherited characteristics on personality, growth, intellect, social skills, etc.; behavioral genetics is relatively new field that attempts to identify genetic basis of behavior
- nurture refers to influence of the environment on inherited traits including parenting styles, socioeconomic status, physical surroundings, etc.
- most developmental psychologists agree that the most likely explanation for most human development is based
on the interaction between nature and nurture



## Development



## Development



## Infancy and Childhood Development


psychosocial -_ involves development of personality, relationships, and a sense of being male or female; development process begins in infancy and continues into adulthood


Infancy and Childhood Development: Psychosocial Development

## Development



## Adolescence

(period of life from about age 13 to early 20s)


psychosocial development $\quad\left[\begin{array}{l}\text { adolescence is largely marked by the search for a consistent sense of self or personal identit. } \\ \text { Erikson: the psychosocial crisis that must be resolved is identity vs. role confusion } \\ \text { parent-teen conflict to be expected }\end{array}\right.$


## Adulthood

(period of life from early 20 s until old age and death; age of onset can vary by culture)

$\begin{aligned} & \text { psychosocial } \\ & \text { development }\end{aligned}-$ - Erikson's stages (see Table 8.4) development Erikson's stages (see Table 8.4)

## Adulthood: Aging

theories on aging
vary focus from biological changes to influence on external stressors

- cellular-clock theory
- wear-and-tear theory
- free-radical theory


## activity theory

positive psychological adjustment associated with continued activity and involvement
stages of death and dying
(based on work of Kübler-Ross)

## - denial

- anger
- bargaining
- depression
- acceptance


## Erikson's Psychosocial Stages of Development

| STAGE | DEVELOPMENTAL CRISIS | SUCCESSFUL DEALING WITH CRISIS | UNSUCCESSFUL DEALING WITH CRISIS |
| :---: | :---: | :---: | :---: |
| 1. Infant Birth to 1 year old | Trust Versus Mistrust <br> Babies learn to trust or mistrust others based on whether or not their needs-such as food and comfort-are met. | If babies' needs are met, they learn to trust people and expect life to be pleasant. | If babies' needs are not met, they learn not to trust. |
| 2. Toddler 1 to 3 years old | Autonomy Versus Shame and Doubt Toddlers realize that they can direct their own behavior. | If toddlers are successful in directing their own behavior, they learn to be independent. | If toddlers' attempts at being independent are blocked, they learn self-doubt and shame for being unsuccessful. |
| 3. Preschool Age 3 to 5 years old | Initiative Versus Guilt <br> Preschoolers are challenged to control their own behavior, such as controlling their exuberance when they are in a restaurant. | If preschoolers succeed in taking responsibility, they feel capable and develop initiative. | If preschoolers fail in taking responsibility, they feel irresponsible, anxious, and guilty. |
| 4. Elementary School Age 5 to 12 years old | Industry Versus Inferiority School-aged children are faced with learning new social and academic skills. Social comparison is a primary source of information. | When children succeed at learning new skills, they develop a sense of industry, a feeling of competence and self-esteem arising from their work and effort. | If children fail to develop new abilities, they feel incompetent, inadequate, and inferior. |
| 5. Adolescence 13 to early 20s | Identity Versus Role Confusion Adolescents are faced with deciding who or what they want to be in terms of occupation, beliefs, attitudes, and behavior patterns. | Adolescents who succeed in defining who they are and finding a role for themselves develop a strong sense of identity. | Adolescents who fail to define their identity become confused and withdraw or want to inconspicuously blend in with the crowd. |
| 6. Early Adulthood 20 s and 30 s | Intimacy Versus Isolation The task facing those in early adulthood is to be able to share who they are with another person in a close, committed relationship. | People who succeed in this task will have satisfying intimate relationships. | Adults who fail at this task will be isolated from other people and may suffer from loneliness. |
| 7. Middle Adulthood 40s and 50s | Generativity Versus Stagnation The challenge is to be creative, productive, and nurturant of the next generation. | Adults who succeed in this challenge will be creative, productive, and nurturant, thereby benefiting themselves, their family, community, country, and future generations. | Adults who fail will be passive, and self-centered, feel that they have done nothing for the next generation, and feel that the world is no better off for their being alive. |
| 8. Late Adulthood 60s and beyond | Ego Integrity Versus Despair The issue is whether a person will reach wisdom, spiritual tranquility, a sense of wholeness, and acceptance of his or her life. | Elderly people who succeed in addressing this issue will enjoy life and not fear death. | Elderly people who fail will feel that their life is empty and will fear death. |

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## 8 development across the life span

### 8.1 8.2 8.3

## - nature vs. nurture debate

## - nature/genetics

- nurture/environment
- most developmental psychologists agree that the most likely explanation for most human development is based on the interaction between nature and nurture


## Issues in Studying Human Development <br> \section*{t}

(scientific study of changes that occur in people as they age)
basic building
blocks of
development

- genetics is the science of heredity
- DNA (deoxyribonucleic acid): contains genetic codes and chromosomes
- dominant and recessive genes
- genetic and chromosome problems

8.4
p. 307


## zygote and twinning

germinal period zygote continues dividing and moving toward the uterus; cell differentiation is the process that results in specialized cells for all of the various parts of the body
(2-week period following fertilization)

## Prenatal Development

embryonic period
( 2 weeks after conception to 8 weeks)

- once attached to the uterus, developing organism is called an embryo
- embryo is vulnerable to hazards such as diseases and substances ingested by the mother as it receives nourishment through the placenta


## - fetal period

(from about 8 weeks to birth)
$\quad \begin{aligned} & \text { developing organism now called a fetus; } \\ & \text { time of tremendous growth and development }\end{aligned}$

- muscles begin to contract during the 3rd month, mother can start to feel "flutters" by 4th month, kicks felt by 5th month
- full-term birth occurs around end of 38th week

8.7
involves development of personality, relationships, and
psychosocial development a sense of being male or female; process begins in infancy and continues into adulthood

Erikson's - $\quad$ suggests development theory occurs in a series of eight stages (see Table 8.4)

- at each stage an emotional crisis must be successfully met for normal development to occur
- infants demonstrate personality through their temperament (e.g., easy, difficult, slow to warm up), which can also affect, and is affected by, parenting and the environment
- attachment (emotional bond between infant and a primary caregiver) is very important; different attachment styles have been identified by Ainsworth and others (e.g., secure, avoidant, ambivalent, disorganized-disoriented) that appear to be similar, but not identical, across different cultures
gender-role
- most children begin to realize difference development
between sexes at about age 2
- knowing expectations for gender and development of gender identity takes much longer and is influenced by both biology and cultural expectations


## Infancy and Childhood Development: Psychosocial Development

## 8.8

physical development

- increase in height and changes in both primary and secondary sex characteristics
- occurs as the result of glandular and hormonal activities
- tends to occur about 2 years after beginning of growth spurt
- final maturation of the frontal lobes allows cognitive
cognitive development advances (e.g., abstract thought/Piaget's formal operations)
- despite advances, still have egocentric thought that emerges in a variety of ways


## Adolescence

(period of life from about age 13 to early 20s)

## - moral development

- adolescence is largely marked by the search
psychosocial _ for a consistent sense of self or personal identity
development - Erikson: the psychosocial crisis that must be resolved is identity vs. role confusion
- parent-teen conflict to be expected

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### 8.10

- theories on aging vary focus from biological changes to influence on external stressors


## Adulthood: Aging

- cellular-clock theory
- wear-and-tear theory
- free-radical theory


[^0]:    Source: Erikson, 1950.

