CURRICULUM FOR EDUCATIONAL TECHNOLOGY
CORE KNOWLEDGE AREA MODULE 2
PRINCIPLES OF HUMAN DEVELOPMENT

Introduction

Any individual’s growth and development is affected by a myriad of factors from prior to conception until late-life stages. As professionals who will likely have a significant impact on individuals, we must understand factors that influence humans’ biological, cognitive, psychological, social, and moral development. We must understand how individuals respond to the environmental, psychological, and social contexts in which they must live: some thriving while others languish or have a negative influence on themselves, and thus society. We need to understand the development of individuals as holistic beings who will take on various roles throughout the life cycle and our own role in working with them in order to be effective.

The human organism cannot and has not changed with the same rapidity as the accelerating pace of technology and information, for instance. Humans must adapt and hopefully thrive with the same biological, psychological, and cognitive resources as our ancestors while adapting to and using technology and other tools. Cognition has grown exponentially because of technology and the ability to do more and do it more quickly. We need to adapt and thrive given the resources we have in our time and with our abilities. In order to maximize the individual’s potential, we must understand the individual’s limits and resources, both available and potential, and how we might be instruments of positive change through understanding and encouraging the individual’s development, needs, and possible contributions.

Overall Objectives for This KAM

The purpose of this Knowledge Area Module (KAM) is to explore one or several interrelated aspects of human development: physical, psychological, cognitive, emotional, moral,
spiritual, and behavioral growth and change. Through such understanding should come appreciation for individual differences, leading to a positive influence in understanding ourselves and others and helping individuals reach their potential.

When you have completed this KAM, you will be able to:

1. Analyze and explain a chosen aspect or aspects of human development of particular professional relevance to you (e.g., cognitive, social, emotional, spiritual, moral, and biological). Your analysis should use concepts and information drawn from the existing body of theory.

2. Analyze, synthesize, and evaluate how recent scholarly research might influence your understanding of individual growth and development and how this understanding might affect your work within your area of professional interest.

3. Evaluate and/or propose a practical, real-world idea or plan for effecting positive change through the betterment of opportunities or services for developing individuals.

Plan to accomplish objective #1 in the Breadth component of the KAM, objective #2 in the Depth component, and objective #3 in the Application component.

Challenges and Opportunities in This KAM

Your first challenge in this KAM will be to identify an aspect or combination of aspects that shape human beings across the life span or at particular periods in their life history that are relevant to your professional work. Such factors include biological, environmental, sociocultural, cognitive, moral, spiritual, and psychological. You will want to either look at a particular developmental aspect across the life span or a cluster of interrelated development aspects of a particular age group. You should then examine theory and research toward identifying practical implications and applications.
Because all dissertation studies undertaken at Walden are intended to be significant in some way for social change, in this KAM you may begin to build a foundation for satisfying that eventual outcome through acquiring an understanding of individual growth and development and ways for enhancing such development and meeting developmental needs of individuals at particular points in their life history.

The next challenge is to identify theories that will help you understand more about the development stages or changes humans experience as they grow and develop through the life span. There are many factors that are involved in this development. The task in the Breadth section of this KAM is to demonstrate that you understand several theories of human development and have brought critical thinking to bear on them. Demonstrating understanding is more than simply reporting what the theorists say. You need to demonstrate your understanding by using higher levels of thinking such as comparing and contrasting, analyzing, synthesizing, or evaluating them. In the other sections of the KAM, you will be able to relate your knowledge of theories to questions you have about how humans develop and apply some aspects of what you have learned.

In the Depth component, you have the opportunity to focus your understanding on the examination of a particular aspect affecting the development of individuals. Build upon the knowledge of a particular theory or theories of human development you examined in the Breadth section and critically examine how they influence your professional context and are addressed in different ways by researchers in your field. You will write about these in a way that shows that you know and understand what current researchers have discovered and can apply them to what you want to learn. You will also write to demonstrate that you are able to identify how their research is, or is not, helpful, perceptive, and well grounded, and what gaps remain in our

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understanding of individual growth and development. Finally, you will address what still needs to be considered within your profession.

In the Application section, you have the opportunity to respond to human development issues you have already addressed. You may design a project of your own, assess a project you have already completed, or assess the strengths and weaknesses of someone else’s project in terms of what you have gathered from the study of the underlying theories and research examined in the Breadth and Depth sections of this KAM.

Breadth Component

SBSF 8210 Theories of Human Development (5 cr.)

Human growth and development can be examined in terms life stages or of particular phenomena that impact development such as poverty; genetics; psychosocial influences; ethnic, racial, or cultural diversity; gender; educational opportunities; and one’s potential to meet the demands of rapid change. These forces are interconnected, sometimes mutually dependent, and collectively influence the individual. You will need to identify a specific focus. Here are some suggestions for the kinds of issues you might want to pursue in the Breadth component of this KAM. They are intended to be suggestive only, but will give you an idea of the kinds of topics your paper might address.

Building on a knowledge of developmental theories:

1. What implications might theories of moral development have for ethical decision-making at various stages of life?

2. How might an awareness of stages of human development throughout the life cycle affect an organization's ability to elicit the best from its employees?
3. How have biological factors influenced development? How do recent discoveries of the neurosciences, human biology, genetics, nutrition, health and wellness, and epidemiology influence our understanding of individual growth and individual differences?

4. What are the cultural influences that affect a person’s development? How does a person's socioeconomic status, race, nationality, ethnicity, sex, sexual orientation, or disability affect development?

5. How do major schools of thought, such as psychodynamic, behavioral, social development, or humanistic theories, inform our thinking as professionals?

6. How have normal and exceptional development been treated in literature or in history?

7. How do “age-related life stage” developmental theories differ from “critical moment” theories, and what are some of the strengths and weaknesses of both in explaining and shaping our understanding of individual growth and development?

8. How do age-related events such as puberty, parenthood, retirement, caregiver status, widowhood, and menopause affect a person's development?

9. What are the demands and implications of rapid societal change on an individual’s mental, physical, social, or vocational adjustment and growth?

10. What do we know and, more importantly, what are the major gaps in our theoretical understanding and knowledge of the relationships between environmental, biological, and psychological influences on individual growth and development?

11. What are the interrelationships between physical, psychosocial, and cognitive development at a particular stage of life?
12. What guiding principles derived from developmental theory can educators, healthcare workers, managers, public policy makers, or other professionals adopt in their professional role to contribute to individuals thriving?

13. What developmental issues should inform the professional working with individuals at a particular stage in those individuals’ growth and maturity?

Your demonstration of theoretical competency in this KAM should be informed and directed by theoretical literature on human growth and development chosen by you because of its relevance to the issue on which you will focus.

_Demonstration of Competence_

Using the knowledge resources covered, write a scholarly paper that demonstrates an understanding of the theories of human growth and development in general or as they relate to a particular phenomenon or group of phenomena. The emphasis of the paper is not on summarizing the content of various theories but on a critical assessment of them including comparisons, contrasts, evaluations, and a synthesis of different theories, assumptions, concepts, ideas, and elements encountered during the theoretical literature search and review. The expected length of the paper for the Breadth component is approximately 30 double-spaced pages, plus references. The paper is considered equivalent to 5-quarter credit hours of graduate work.

_Learning Resources_

A bibliography of possible references for this KAM can be found at the Walden Library site accessed through the faculty or student personal start page/campuscruiser. Once in the Walden Library site, click on Get KAM Research Help and look for the appropriate program or KAM. The Resources links will take you to general references that will provide an overview of the field or key thinkers. The Bibliography link will take you to a list of possible writings. The

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books and authors listed here are meant only to provide examples of the kind of literature you should be accessing. You can compile your own bibliographic references using this list as a starting point. If you have difficulty compiling a bibliography or choosing relevant readings, consult with your faculty mentor or KAM assessor and the Walden librarians.

Depth Component

EDUC 8225 Current Research in Human Development and Educational Technology (5 cr.)

The purpose of the Depth component is to help you understand, analyze, and explain individual development as it affects and is affected by educational technology as indicated in recent research. Your task in this component is to select a particular influence that has current salience, is of interest to you, and that intersects in intriguing and important ways with your professional work and educational technology. In the Depth section you might consider the impact of the issues you examined in the Breadth section on some aspects of your profession. You will critique 15 current research studies on your topic.

Depending on the focus of the Breadth component, topics that you might consider in the Depth component could include:

1. The relationship between moral development and emotional intelligence as they relate to online ethical behavior.
2. Educational technology curriculum and online projects and their impact on cognitive development.
3. Internet bullying and its impact on psychosocial development.
4. The No Child Left Behind Act and its implications on cognitive or psychosocial development, including ways educational technology can help improve achievement.

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5. Multiple intelligence theory and its implications for developmentally appropriate practice—what research says about the use of technology to support multiple intelligences in learning

6. Developmental implications of the “brain-friendly” classroom—does technology facilitate cognitive growth?

7. Impact of home schooling on cognitive/social development. How does technology help students connect with others and what is the impact on development?

8. Implications of developmental theory for the adult learner using technology.

9. Developmentally appropriate training for elderly, at-risk, or marginalized populations to gain access to technology for communication purposes.

10. Implications of moral and/or cognitive development theory for dealing with electronic bullying. What can be done to reduce cyberbullying?

11. Early technological intervention and tools to assist with the development of children with special needs.

12. Impact of distance/online learning for the educational development of the individual and the effects on the continuing development of the profession.

13. The use of online and distance education to facilitate learning for populations affected by natural disasters such as tsunamis, hurricanes, or earthquakes.

14. Human resources policies regarding the use of technology that meet the needs of employees at various stages of the life cycle.

15. Developmentally appropriate approaches to literacy or second language learning at various ages. How can electronic sources improve learning?


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Demonstration of Competence

1. Compile an annotated bibliography that includes 15 recent peer-reviewed or refereed research journal articles or chapters from edited books (published within the past 5 years) related to the particular focus of human development that you identified for this assignment, including literature that places this issue within the historical development or contemporary context of educational technology. For each source included on your list, prepare a critical analysis. This annotated bibliography must be arranged in alphabetical order. Each annotation should be about 1 to 1½ pages long.

2. Write a 25-30 page double-spaced typed scholarly paper describing, analyzing, and explaining the selected developmental issue in light of recent research and relating it to educational technology. In this paper, be sure to include evidence of higher order thinking (comparison and contrast, analysis, evaluation).

The total Depth component assignment is equivalent to 5-quarter credit hours of graduate work.

Learning Resources

Because the Depth section is individualized, it is difficult to be specific about reading recommendations. Both edited books and journal articles may be used, although current research is more likely to be found in journal articles. You are encouraged to review a wide range of sources for this assignment but focus particularly on recent dissertations and journal articles for your research. You will annotate your 15 journal articles. Additional resources you include do not need to be annotated.

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Application Component

EDUC 8235 Professional Practice and Human Development and Educational Technology (4 cr.)

In the Application component of the KAM, your focus should turn to your own professional context. Here you may examine and critique a particular role of educational technology in engaging in or responding to the specific phenomenon you have been examining throughout this KAM or propose and justify a response to that phenomenon.

In order for the Application component to be the most productive learning experience possible, it is useful to draw on learning from the Breadth and Depth components of the KAM. You are encouraged to review the resources presented in previous components of this KAM as well as the annotated bibliography compiled as part of the Depth component. In addition to these, you are urged to reflect on your own professional practice and firsthand experiences with developmental issues affecting individuals.

Remember to secure Institutional Review Board approval before engaging in any research or project involving human subjects.

Some suggestions of Application projects you might consider:

1. Prepare a report that reflects your understanding of how your school has engaged in providing technological services to individuals. In so doing, you could engage in a number of personal interviews with key leaders as a means of developing a complete understanding of the selected topic. Documents such as case histories, interviews, and IEPs are other useful resources that could be used.

2. Develop a program to assist pre-retirement adults to engage in activities using technology after retirement to help them remain connected.
3. Develop a Webliography or web page for adult caregivers in your community with ideas to engage the people they work with to engage in online and other social activities.

4. Design a technologically based program and describe its impact on helping individuals negotiate developmental issues at a particular point in their maturing process, for example, HIV/AIDS prevention, saying “no” to drugs, choosing a career, or transitioning from home to school, school to college, school to work, or work to retirement.

5. Conduct a project on cyberbullying for teachers and students at a local school. Provide a rationale, plan for implementation, and evaluation plan.

6. Describe and assess the impact of a program on lowering drop-out rates by engaging learners using technology more effectively in schools. Provide a rationale, plan for implementation, and evaluation plan.

7. Study the efficacy of full inclusion and mainstreaming of students with special needs and the ways assistive technology can be used for this purpose.

8. Examine the impact of a multi-age classroom and the benefits of technology as a tool of collaborative learning.

9. Develop a project of your own that addresses a specific aspect of individual development through the use of technology. Consider including the following: (a) a needs assessment that explains the developmental issue you are addressing and why this is important to your stakeholders; (b) a description of details such as the program, its goals, delivery, and implementation strategies; (c) a description of how you will evaluate the degree of success in implementing the program, including the evaluation goals, data collection methods, and data analysis procedures; or (d) if the project is implemented, a summary of major results of the evaluation, including conclusions, implications, and recommendations.

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10. A major work you have previously completed (e.g., a master’s thesis, curriculum design, or professional project) may demonstrate your ability to apply the theories, concepts, methods, and research findings that are the focus of this KAM. Such a demonstration of your competence may be submitted along with an essay that explains how the project illustrated a particular facet of human development and its theoretical explanations and your mastery of this domain. In addition, provide a brief rationale for the project and comment on how the situation might have changed since the project was first undertaken and what you might do differently if you were to plan and implement something like this again.

11. Design a hypothetical training program for teachers, students, or professionals in your workplace to address one of the major issues listed above. Include the proposal, the budget, and the selected population for training. It could be written as a grant or business proposal. Include a detailed description of your use of technology in the design and delivery of your training program.

12. Critique the technology standards of professional organizations in your field. Compare their approach to the standards and then develop a table delineating what you consider to be the most important technological abilities for citizens in the 21st century.

Demonstration of Competence

This component of the KAM gives you the opportunity to put the theories and research pertaining to human growth and development into practice. Think in terms of developing some kind of project that addresses developmental issues in your setting that educational technology can help improve. Your final demonstration should include both the project and up to 10 pages of reflective commentary on it, showing how the project was informed by the theories and research examined earlier in the KAM.
The Application is considered equivalent to 4-quarter credit hours of graduate work in a traditional program.

Learning Resources

The resources you will use in this component will be very specific to your particular project. If a theory or research paper is the foundation of the project, be sure to reference it.