

AEC 6543: Teaching and Learning Theory: Applications in
Agricultural Education
(3 Credits)
Fall 2020

Instructor:	Dr. Grady Roberts Professor 117C Bryant Hall P.O. Box 112060 Gainesville, FL 32611-2060 Phone: 352-273-2568 Email: groberts@ufl.edu
Office Hours:	By Appointment
Course Meetings:	F2F: Monday, Period 4 (10:40 – 11:30), CSE, Room E121 Online: Asynchronous via Canvas
Course Description:	Contemporary and foundational theory and research on teaching and learning.
Course Objectives:	Students enrolled in this course will: <ol style="list-style-type: none">1. Discuss appropriate teaching/learning theories.2. Apply teaching/learning theory to assess an educator.3. Critique research applications of teaching/learning theory.4. Create a teaching philosophy statement informed by teaching/learning theory.
Required Texts:	Schunk, D. (2020). <i>Learning theories: An educational perspective</i> (8th ed.). Boston, MA: Pearson.
Course Website:	This course will use the UF eLearning learning platform (Canvas)
COVID Safety Plan:	<ul style="list-style-type: none">• All students and instructors will follow UF guidelines for safety related to COVID-19, which includes facemasks and social distancing mandates.• All students and instructors will practice social distancing when entering and leaving the classroom. The assigned classroom has 2 doors.• The classroom and equipment will be cleaned by UF custodial staff following UF guidelines.• In the event the instructor is unable to meet the class face-to-face, class sessions will move to Zoom and supplemented with Canvas discussions. They will remain synchronous if the instructor is able. Otherwise, they will be asynchronous.• If a student is unable to join the class face-to-face, the instructor will also use Zoom concurrently to allow remote connection. If connecting synchronously is not possible, the session(s) will be recorded.• If UF eliminates all face-to-face instruction, the remaining class sessions will be moved to synchronous Zoom meetings and supplemented with Canvas discussions.

Required Readings

AEC 6543: Teaching and Learning Theory: Applications in Agricultural Education

- Ajzen, I. (2012). Theory of planned behavior. In P. A. M. Lange, A. W. Kruglanski & E. T. Higgins (Eds.), *Handbook of theories of social psychology* (pp. 438-459). London, UK: Sage.
- Allen, W. C. (2006). Overview and evolution of the ADDIE training system. *Advances in Developing Human Resources*, 8(4), 430-441. <https://doi.org/10.1177/1523422306292942>
- Camp, W. G. (2001). Formulating and evaluating theoretical frameworks for career and technical education research. *Journal of Vocational Education Research*, 26(1), 4-25.
- Dewey, J. (1938). *Experience and education*. New York, NY: Simon & Schuster.
- Knowles, M. S., Holton, III, E. F., & Swanson, R. A. (2015). *The adult learner: The definitive class in adult education and human resource development* (8th ed.). New York, NY: Routledge.
- Mezirow, J. (1978). Perspective transformation. *Adult Education*, 28(2), 100-110.
- Roberts, T. G. (2006). A philosophical examination of experiential learning theory for agricultural educators. *Journal of Agricultural Education*, 47(1), 17-29. <https://doi.org/10.5032/jae.2006.01017>
- Rockwell, K., & Bennett, C. (2004). *Targeting outcomes of programs: A hierarchy for targeting outcomes and evaluating their achievement*. Lincoln, NE: Department of Agricultural Leadership, Education and Communication.
- Stufflebeam, D. L. (2000). The CIPP model for evaluation. In D. L. Stufflebeam, C. F. Madam & T. Kellaghan (Eds.), *Evaluation models* (pp. 279-317). New York, NY: Kluwer Academic Publishers.
- Wiggins, G. & McTighe, J. (2001). *Understanding by design*. Upper Saddle River, NJ: Merrill Prentice Hall.

Optional Readings

- Bandura, A. (1977). Self-efficacy: Toward a unifying theory of behavioral change. *Psychological Review*, 84(2), 191-215.
- Bandura, A. (1989). Human agency in social cognitive theory. *American Psychologist*, 44(9), 1175-1184.
- Bandura, A. (1991). Social cognitive theory of self-regulation. *Organizational Behavior and Human Decision Processes*, 50, 248-287.
- Brown, J. S., Collins, A., & Duguid, P. (1989). Situated learning and the culture of learning. *Educational Researcher*, 18(1), 32-42.
- Caine, G., & Caine, R. N. (2006). Meaningful learning and the executive functions of the brain. *New Directions for Adult and Continuing Education*, 2006(110), 53-61. <https://doi.org/10.1002/ace>

- Doolittle, P. E., & Camp, W. G. (1999). Constructivism: The career and technical education perspective. *Journal of Vocational and Technical Education*, 16(1).
- Facione, P. A. (1990). *Critical thinking: A statement of expert consensus for purposes of educational assessment and instruction*. Fullerton, CA: California State University, Fullerton. Retrieved from ERIC database. (ED315423)
- Flavell, J. H. (1979). Metacognition and cognitive monitoring: A new area of cognitive-development inquiry. *American Psychologist*, 34(10), 906-911.
- Kirton, M. (1976). Adaptors and innovators: A descriptive measure. *Journal of Applied Psychology*, 61(5), 622-629.
- Knowles, M. S. (1973). *The adult learner: A neglected species*. Houston, TX: Gulf Publishing Company.
- Lave, J., & Wenger, E. (1991). *Situated learning: Legitimate peripheral participation*. Cambridge, UK: Cambridge University Press.
- Mayer, R. E. (1996). Learners as information processors: Legacies and limitations of educational psychology's second metaphor. *Educational Psychologist*, 31(3/4), 151-161.
- Merriam, S. B. (2001). Andragogy and self-directed learning: Pillars of adult learning theory. *New Directions for Adult and Continuing Education*, 2001(89), 3-14. <https://doi.org/10.1002/ace.3>
- Merriam, S. B., Caffarella, R. S., & Baumgartner, L. M. (2007). *Learning in adulthood: A comprehensive guide*. San Francisco, CA: John Wiley & Sons.
- Paas, F., Renkl, A., & Sweller, J. (2003). Cognitive load theory and instructional design: Recent developments. *Educational Psychologist*, 38(1), 1-4. https://doi.org/10.1207/S15326985EP3801_1
- Tropical Agriculture Platform. (2016). *Common framework for capacity development for agricultural innovation systems*. Rome, Italy: Tropical Agriculture Platform.
- Vygotsky, L. S. (1978). *Mind and society*. Cambridge, MA: Harvard University Press.
- Weiner, B. (1972). Attribution theory, achievement motivation, and the educational process. *Review of Educational Research*, 42(2), 203-215.
- Wigfield, A., & Eccles, J. S. (1992). The development of achievement task values: A theoretical analysis. *Developmental Review*, 12(3), 265-310. [https://doi.org/10.1016/0273-2297\(92\)90011-P](https://doi.org/10.1016/0273-2297(92)90011-P)
- Young, R. A., & Collin, A. (2004). Introduction: Constructivism and social constructionism in the career field. *Journal of Vocational Behavior*, 64, 373-388. <https://doi.org/10.1016/j.jvb.2003.12.005>
- Zull, J. E. (2006). Key aspects of how the brain learns. *New Directions for Adult and Continuing Education*, 2006(110), 3-9. <https://doi.org/10.1002/ace.213>

Recommended Texts for Your Personal Library

- Bandura, A. (1977). *Social learning theory*. Upper Saddle River, NJ: Prentice Hall.
- Bruner, J. S. (1966). *Towards a theory of instruction*. Cambridge, MA: Harvard University Press.
- Dewey, J. (1910). *How we think*. Boston, MA: D. C. Heath & Co.
- Dewey, J. (1916). *Democracy and education*. New York, NY: The Free Press.
- Dewey, J. (1938). *Experience and education*. New York, NY: Simon & Schuster.
- Friere, P. (1970). *Pedagogy of the oppressed*. New York, NY: Continuum.
- Kolb, D. A. (2015). *Experiential learning: Experience as the source of learning and development* (2nd ed.). Upper Saddle River, NJ: Pearson.
- Knowles, M. S., Holton, III, E. F., & Swanson, R. A. (2015). *The adult learner: The definitive class in adult education and human resource development* (8th ed.). New York, NY: Routledge.
- Lave, J., & Wenger, E. (1991). *Situated learning: Legitimate peripheral participation*. Cambridge, UK: Cambridge University Press.
- Merriam, S. B., Caffarella, R. S., & Baumgartner, L. M. (2007). *Learning in adulthood: A comprehensive guide*. San Francisco, CA: John Wiley & Sons.
- Vygotsky, L. S. (1978). *Mind and society*. Cambridge, MA: Harvard University Press.

Date	Topics	Readings
Monday Aug 31	Course Overview What is a theory?	<i>Required:</i> Camp (2001) Schunk (2020), Ch 1 <i>Optional:</i> None
Sept 1 to 7	Setting the Stage <ul style="list-style-type: none"> • The Agricultural Education System • The Learning Ecosystem • Epistemologies No Discussion Meeting – Labor Day	<i>Required:</i> None <i>Optional:</i> TAP (2016), Chapters 2 & 3
Sept 8 to 14	Neuroscience of Learning Teaching Philosophy Statements	<i>Required:</i> Schunk (2020), Ch 2 Student Article(s) <i>Optional:</i> Caine & Caine (2006) Zull (2006)
Sept 15 to 21	Behaviorism	<i>Required:</i> Schunk (2020), Ch 3 Student Article(s)
Sept 22 to 28	Social-Cognitive Learning Theory **Teaching Philosophy Draft Due**	<i>Required:</i> Schunk (2020), Ch 4 Student Article(s) <i>Optional:</i> Vygotsky (1978), Chapter 4 Bandura (1977) Bandura (1989)
Sept 29 to Oct 5	Information Processing Theory **Indicate if you will do educator profile or theoretical framework**	<i>Required:</i> Schunk (2020), Ch 5-6 Student Article(s) <i>Optional:</i> Mayer (1996) Paas et al., (2003)
Oct 6 to 12	Cognitive Learning Processes <ul style="list-style-type: none"> • Critical Thinking • Problem Solving • Metacognition **Draft of Theory Matrix Due**	<i>Required:</i> Schunk (2020), Ch 7 Student Article(s) <i>Optional:</i> Facione (1990) Kirtton (1976) Flavell (1979)
Oct 13 to 19	Constructivism Roberts Out	<i>Required:</i> Schunk (2020), Ch 8 Student Article(s) <i>Optional:</i> Doolittle & Camp (1999) Young & Collins (2004)
Oct 20 to 26	Motivation Theories <ul style="list-style-type: none"> • Theory of Planned Behavior • Expectancy-Value Theory • Attribution Theory 	<i>Required:</i> Ajzen (2012) Schunk (2020), Ch 9 Student Article(s) <i>Optional:</i> Weiner (1972) Wigfield & Eccles (1992)
Oct 27 to Nov 2	Self-Regulated Learning	<i>Required:</i> Schunk (2020), Ch 10 Student Article(s) <i>Optional:</i> Bandura (1991)

Date	Topics	Readings
Nov 3 to 9	Experiential Learning Situating Learning	<i>Required:</i> Dewey (1938) Roberts (2006) Student Article(s) <i>Optional:</i> Brown et al. (1989) Lave & Wenger (1991)
Nov 10 to 16	Instructional Design Theories <ul style="list-style-type: none"> • ADDIE Model • Backwards Design Roberts Out	<i>Required:</i> Allen (2006) Wiggins & McTighe (2001) Student Article(s)
Nov 17 to 23	Adult Learning Theory Transformational Learning **Teaching Philosophy Final Due**	<i>Required:</i> Knowles et al. (2015), Ch 3 Mezirow (1978) Student Article(s) <i>Optional:</i> Knowles (1973), Chapter 3 Merriam (2001) Merriam et al. (2015), Chapter 4 Merriam et al. (2007), Chapter 5
Nov 24 to 30	Outcome-Focused Theories <ul style="list-style-type: none"> • TOP Model • CIPP Model **Educator Profile or Theoretical Framework Due**	<i>Required:</i> Rockwell & Bennett (2004) Stufflebeam (2000) Student Article(s)
Dec 1 to 7	Student Poster Presentations **Theory Matrix Due** Take Home Final Distributed	
Dec 15	**Take Home Final Due** by 5pm	

Course Assignments and Grading

	Due Date	Points Possible	Points Awarded
Teaching Philosophy Statement	Draft – 9/28 Final – 11/23	100	
Article Discussion	As assigned	50	
Educator Profile or Theoretical Framework	11/30	100	
Theory Matrix	Draft – 10/12 Final – 12/7	100	
Take Home Final	12/15	200	
Attendance/Participation	Weekly	50	
<p>Late Assignments and Make-Up Work: There will be no late assignments allowed that are unexcused. All assignments are due by the date listed in the syllabus and course outline. Following an excused absence, students may turn in late work without penalty within 3 business days of the absence. For non-university excused absences, late work will be accepted up to 1 week past the due date and will be penalized 10%/day.</p> <p>Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.</p> <p>Make-up work should be arranged prior to the expected absence. In case of emergencies, arrangements for completing make-up exams or assignments should be made upon return to class.</p>			

Grading Scale				
A = 570 - 600	B+ = 522 - 539	C+ = 462 - 479	D+ = 402 - 419	E = 0 - 359
A- = 540 - 569	B = 498 - 521	C = 438 - 461	D = 378 - 401	
	B- = 480 - 497	C- = 420 - 437	D- = 360 - 377	
University of Florida Grading Policy: https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx				

Assignment Details			
Assignment	Description	Due Date	Points
Teaching Philosophy Statement	<p>You will create a personal teaching philosophy statement using the criteria provided in class. This will be written in laymen's terms (i.e. no educational lingo). In a separate document, you will use the "comments" function in Word connect specific pieces of your teaching philosophy to appropriate teaching/learning theories.</p> <p>A draft will be submitted for peer review. The draft does not need to have links to theories.</p> <p>Consult rubric in Canvas for more details.</p>	<p>Draft Due on 9/28</p> <p>Final Version Due on 11/23</p>	100
Article Discussion	<p>You will select a research-based article relevant to agricultural leadership, education, extension, or communications which uses one of the theories we will discuss in class. This will be done in advance of our discussion of each theory and become one of the assigned readings for all students that week. You will lead the discussion of the article in class. Be sure to discuss the application (formal, non-formal, informal, adult, youth, etc.), how the theory was used (grand, mid-level, substantive), and how the theory set up the study.</p>	Weekly as assigned	50
<p>Educator Profile OR Theoretical Framework</p> <p>Choose by 10/5</p>	<p>Choose from one of the following:</p> <p>Option 1: Educator Profile - You will create a profile of an educator of your choosing to assess the underlying teaching/learning theories that guide his/her practice. This will consist of:</p> <ul style="list-style-type: none"> • Interviewing the educator using questions developed by the class. • Observing the educator teach 2 sessions. • Creating a 5-8 page report detailing your findings. • Create and deliver a poster which provides a summary of your findings. <p>Option 2: Theoretical Framework – You will develop a complete theoretical framework (grand, middle, and substantive theories) for a research project you might undertake. This will consist of:</p> <ul style="list-style-type: none"> • Writing a 10-12 page report. • Create and deliver a poster which provides a summary of your framework. <p>Consult rubrics in Canvas for more details.</p>	11/30	100
Theory Matrix	<p>You will create a matrix of all theories discussed in class. You may use the template provided in Canvas, or create your own method of communicating the required information. The required information includes: theory name, key authors, fundamental concepts, research applications in AEC, and professional applications.</p> <p>An ungraded draft is due on 10/12.</p>	12/7	100
Take Home Final	<p>A comprehensive essay-type take home exam will be given to allow you to show your understandings of teaching/learning theory.</p>	12/15	200
Attendance/Participation	<p>This class will be discussion-based. You are expected to attend class each day, be prepared for discussion, and actively engage in in-class discussions.</p>	Weekly	50

Grades and Grade Points

For information on current UF policies for assigning grade points, see <https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>.

Attendance and Make-Up Work

Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at: <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>.

Online Course Evaluation Process

Student assessment of instruction is an important part of efforts to improve teaching and learning. At the end of the semester, students are expected to provide feedback on the quality of instruction in this course using a standard set of university and college criteria. Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at: <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at: <https://gatorevals.aa.ufl.edu/public-results/>.

Academic Honesty

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: *"We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity."* You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: *"On my honor, I have neither given nor received unauthorized aid in doing this assignment."* It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: <http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code>. S2

Software Use:

All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

Services for Students with Disabilities

The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

0001 Reid Hall, 352-392-8565, <https://disability.ufl.edu/>

Campus Helping Resources

Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- *University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575, www.counseling.ufl.edu* (Counseling Services Groups and Workshops Outreach and Consultation Self-Help Library Wellness Coaching)
- U Matter We Care, www.umatter.ufl.edu
- *Career Connections Center, First Floor JWRU, 392-1601, <https://career.ufl.edu/>. Student Complaints:*
 - Residential Course: <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>.
 - Online Course: <http://www.distance.ufl.edu/student-complaint-process>