GEORGE MASON UNIVERSITY
COLLEGE OF EDUCATION AND HUMAN DEVELOPMENT
GRADUATE SCHOOL OF EDUCATION
EDUCATIONAL PSYCHOLOGY

EDEP 820 (001)
Teaching, Learning, and Cognition
3 credits, Fall 2018
Tuesday 4:30pm-7:10pm
East Building, Room 134

PROFESSOR
Name: Michelle M. Buehl, PhD
Office hours: Tuesdays 3:00pm-4:00pm; by appointment
Office location: West Room 2101
Office phone: (703) 993-9175
Email address: mbuehl@gmu.edu

COURSE DESCRIPTION
Focuses on foundational educational psychology theories including cognitive, social, and constructivist themes and their implications for improving instructional practices and learning at all developmental levels and content areas. Prerequisite(s): EDUC 800 and EDRS 810 or instructor permission.

LEARNER OUTCOMES
This course is designed to enable students to:
1. compare and contrast theories of learning and cognition
2. formulate practical bridges between research theories and classroom practice
3. integrate and synthesize research findings on teaching and learning
4. develop an awareness of belief systems that impede or enhance the teaching-learning process
5. display knowledge of the relationship between psychological inquiry and educational practices
6. develop an understanding of knowledge construction, learning pedagogy, and responsible professional practice in the contexts of education
7. develop and reinforce their critical thinking, oral, and writing skills
8. understand how students’ cognitive, social, and emotional development affects instruction

RELATIONSHIP TO PROGRAM GOALS AND PROFESSIONAL ORGANIZATION
Educational Psychology Program Standards:
Standard 1: Knowledge of Cognition, Motivation, and Development. Candidates will demonstrate an understanding of principles and theories of learning, cognition, motivation, and development as they apply to a wide variety of contemporary learning contexts.

Standard 2: Application of Cognition, Motivation, and Development Knowledge. Candidates will use their knowledge, skills, and dispositions to apply principles and theories of learning, cognition, motivation, and development to analyze and develop instruction in applied settings.

Standard 3: Knowledge of Educational Research and Assessment. Candidates will demonstrate an understanding of the basic concepts, principles, techniques, approaches, and ethical issues involved in educational research.

Standard 4: Analysis, Critique, and Evaluation of Educational Research. Candidates will use their knowledge of quantitative and qualitative research methodology to critically read and evaluate quantitative and qualitative research articles.

Standard 6: Communication and Dissemination of Educational Research. Candidates will demonstrated critical thinking, oral presentation, technological, and writing skills as they are used in the profession. These
American Psychological Association Learner Centered Principles:

Principle 1: The Nature of Learning Process
Principle 2: Goals of the Learning Process
Principle 3: Construction of Knowledge
Principle 4: Strategic Thinking
Principle 5: Thinking about Thinking
Principle 6: Context of Learning
Principle 7: Motivational and Emotional Influences on Learning
Principle 8: Intrinsic Motivation to Learn
Principle 9: Effects of Motivation on Effort
Principle 10: Social Influences on Learning
Principle 11: Learning and Diversity

For more information please see:

NATURE OF COURSE DELIVERY
This course will be taught using lectures, discussions, and small and large group activities. The course is technology-enhanced using Blackboard. Students are responsible for any information posted on the course site (https://mymason.gmu.edu/). For assistance with Blackboard students may email courses@gmu.edu, call (703) 993-3141, or go to Johnson Center Rm 311 (office hours: 8:30am-5pm).

REQUIRED TEXTS (available electronically through GMU library)


Additional journal articles and book chapters will be made available electronically through the library E-Reserves system.

STRONGLY RECOMMENDED TEXT

OPTIONAL TEXT
COURSE ORGANIZATION AND ASSIGNMENTS

This course is designed to promote an understanding of topics central to educational psychology. Each week students will construct an evolving concept map and engage in a discussion of chapters from the *APA Educational Psychology Handbook*. In addition to reading the material indicated in the course schedule, each student will be responsible for preparation related to one chapter, assigned by the professor. For the assigned chapter students are expected to post two thought questions for others to think about while reading the chapter. Additionally, each student is expected to complete a set of activities commensurate with his or her academic level and career goals.

**Required Course Activities (85%)**

**Class Participation (10%)**

Each student is expected to come to class on time and participate in class discussions and activities. Assigned readings are to be completed before class. Attendance, punctuality, preparation, and active contribution to small and large group activities are essential. These elements of behavior reflect the professional attitude implied in the course goals. In the event a student misses a class, the professor should be notified, preferably in advance, and the student is responsible for any assignments and materials passed out or discussed that day. The student is also responsible for posting a substantive reaction to the assigned readings on the relevant Blackboard discussion form (See rubric for participation in Appendix A).

Additionally, each student will be assigned one Handbook chapter. As part of class participation, for the assigned chapter students are expected to post two thought questions for others to think about while reading the chapter. Students are expected to email this information to the professor by Tuesday two weeks before the scheduled date for the topic/reading (and revise if necessary) and to post the information for all students to Blackboard by Tuesday at 4:30pm the week before the scheduled date for the topic/reading.

As a form of participation, students may also post substantive comments or questions to the Blackboard discussion boards. This is not a substitute for class participation. However, it does offer another means for students to interact with each other and the course content.

**Concept Maps (25%)**

Throughout the semester, students will construct an evolving concept map of the central concepts, constructs, and theorists from the readings. The map will provide a representation of each student’s developing understanding of educational psychology. Students will be provided with a list of terms that are required to be included in their maps for the first 9 class sessions. Terms will be posted on Blackboard at least one week before the assigned reading. Students may add additional terms as necessary. For subsequent sessions (class sessions 10-14), students are to add to their maps as they see appropriate based on their reading for class and their final paper topics. Students are encouraged to bring their concept maps to class. The concept maps will be evaluated at three points in the semester. At the final submission, students will also submit a brief reflection on their concept map and their current understanding of teaching, learning, and cognition in relation to their research interests.

**Article Critique (10%)**

Each student will prepare a critique of an empirical article assigned in the syllabus (indicated in the schedule with +). The critique should focus primarily on the identified peer-reviewed article but also address how it relates to the assigned chapter or other class content. Critiques are due on the day the reading is scheduled and should be posted to Blackboard by noon Tuesday. The last scheduled empirical article is October 30th. Article Critique guidelines and rubric are provided in Appendix B.

**Final Paper and Poster (25% Paper; 5% Paper Preparation; 10% Poster Presentation; 40% Total)**

Each student will write either a literature review or research proposal that focuses on an educational psychology topic.

Literature reviews should contain the following sections:

1. Introduction and overview of the topic
2. Discussion of the literature (with appropriate subheadings)
3. Limitations, conclusions, and implications
Research proposals should contain the following sections:
1. Problem Statement: What is the problem the study will look at and why it is important?
2. Research question(s)/hypotheses
3. Literature Review and Conceptual Framework: What theory underlies or shapes your research study? What is previous empirical work does your study build on?
4. Methodology: Participants, measures, procedures, design of the research study, data analysis plan
5. Discussion: Potential results, limitations, and future research

Final papers will be submitted as a final term paper, and will be presented in a poster session at the end of the semester. Final papers must adhere to the APA Publication Manual Guidelines and will be evaluated using the rubrics presented in Appendix C.

As a means to provide support for each student’s final paper, students are expected to turn in final paper components based on the following tentative timeline:

- Paper format and topic; preliminary focus or research questions: Sept 28th
- Brief summaries of 5 empirical articles to be included in final paper: Oct 16th
- Progress update: Initial outline including research questions, method, data analysis plan: Oct 30th
- Submit 5 pages of final paper: Nov 20th
- Poster contents: Dec 3rd (10am)
- Class poster session: Dec 4th
- Final paper: Dec 18th (10am)

**Student-Selected Course Activities (15%)**
Each student is to select additional activities commensurate with their academic level and career goals. Suggested student selected-activities that will develop their competencies are listed below. Alternative activities can be suggested and negotiated with the professor. For Research and Foundational Knowledge Competencies, students are strongly encouraged to collaborate with one other student in the class. In this event, both students should submit a brief reflection of the collaborative process as part of the assignment. Students should indicate their student-selected course activities to the instructor by October 9th.

**Research Competencies**
- Prepare a grant proposal*
- Prepare a first-authored submission to a national or international conference (e.g., APA, AERA)*
- Write a second article critique**

**Professional Competencies**
- Prepare your academic vita*
- Join a professional organization that you are not currently a member of (post selection on Blackboard with brief discussion of why the organization was selected and how it relates to your professional goals)
- Communicate with a distinguished researcher in your interest area that you do not already know (also not at GMU)**
- Watch a video from the APA Division 15 video archive (http://apadiv15.org/video-archive/) or listen to a podcast (https://apadiv15.org/podcast-series/); briefly present to the class on the relevance of the video/podcast to your research interests and professional development)**
- Read and present on a book related to academic writing or success in graduate school. **

**Foundational Knowledge Competencies** (see rubric in Appendix D)
- Read and present on an original work by a theorist you have not read before (e.g., James, Piaget)**
- Read and present on an unassigned chapter from the APA Educational Psychology Handbook (2012) or the Handbook of Educational Psychology (2015)**
- Read and present on a chapter from Educational Psychology: A Century of Contributions **

*Students should submit work early to allow for instructor feedback and revision.
**Students should communicate with the instructor about how to share selected competencies with the class.
### Course Activities

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<thead>
<tr>
<th></th>
<th>% of Final Grade</th>
<th>Student Selections</th>
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<tr>
<td><strong>REQUIRED (85%)</strong></td>
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<tr>
<td>Class Participation</td>
<td>10</td>
<td>10</td>
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<tr>
<td>Research Competencies</td>
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<tr>
<td>Final Paper: Literature Review or Proposal</td>
<td>25</td>
<td>25</td>
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<tr>
<td>Poster</td>
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<td>10</td>
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<tr>
<td>Paper Preparation</td>
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<td>5</td>
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<tr>
<td><strong>Foundation Knowledge Competencies</strong></td>
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<tr>
<td>Concept Map and Reflection</td>
<td>25</td>
<td>25</td>
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<tr>
<td>Article Critique for assigned empirical article</td>
<td>10</td>
<td>10</td>
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<tr>
<td><strong>STUDENT-SELECTED</strong>* (15%)</td>
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<tr>
<td>Indicate selection to instructor by October 9th</td>
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<tr>
<td><strong>Research Competencies</strong></td>
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<tr>
<td>Grant Proposal*</td>
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<td>Conference Proposal*</td>
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<tr>
<td>Second Article Critique**</td>
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<tr>
<td><strong>Professional Competencies</strong></td>
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<tr>
<td>Vita**</td>
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<td>Professional organization</td>
<td>5</td>
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<tr>
<td>Communicate with researcher **</td>
<td>5</td>
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<td>APA Division 15 video archive**</td>
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<tr>
<td>Book on academic writing/success in graduate school**</td>
<td>10</td>
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<tr>
<td><strong>Foundational Knowledge Competencies</strong></td>
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<td>Original work by a foundational theorist**</td>
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<tr>
<td>Additional Handbook chapter**</td>
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<tr>
<td>Historic Contributions Chapter**</td>
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</table>

***Additional suggestions and substitutions may be negotiated.

Each student’s final grade for this class will be based on the following:

- **A+** = 98 – 100%
- **A** = 93 – 97.99%
- **A-** = 90 – 92.99%
- **B+** = 88 – 89.99%
- **B** = 83 – 87.99%
- **B-** = 80 – 82.99%
- **C** = 70 – 79.99%
- **F** < 70%

**PROFESSIONAL DISPOSITIONS**

See [https://cehd.gmu.edu/students/polices-procedures/](https://cehd.gmu.edu/students/polices-procedures/)

**CORE VALUES COMMITMENT**

The College of Education and Human Development is committed to collaboration, ethical leadership, innovation, research-based practice, and social justice. Students are expected to adhere to these principles: [http://cehd.gmu.edu/values/](http://cehd.gmu.edu/values/).

**GMU POLICIES AND RESOURCES FOR STUDENTS**

**Policies**

- Students must adhere to the guidelines of the Mason Honor Code (see [https://catalog.gmu.edu/policies/honor-code-system/](https://catalog.gmu.edu/policies/honor-code-system/)).
  - Students must not give or receive unauthorized assistance.
  - Plagiarism is also a violation of the honor code. Please note that:
    - **Plagiarism encompasses the following:**
      1. Presenting as one's own the words, the work, or the opinions of someone else without proper acknowledgment.
2. Borrowing the sequence of ideas, the arrangement of material, or the pattern of thought of someone else without proper acknowledgment.”
(from Mason Honor Code online at http://mason.gmu.edu/~montecin/plagiarism.htm)

- Paraphrasing involves taking someone else’s ideas and putting them in your own words. When you paraphrase, you need to cite the source.
- When material is copied word for word from a source, it is a direct quotation. You must use quotation marks (or block indent the text) and cite the source.
- Electronic tools (e.g., SafeAssign) may be used to detect plagiarism if necessary.
- Plagiarism and other forms of academic misconduct are treated seriously and may result in disciplinary actions.

- Students must follow the university policy for Responsible Use of Computing (see http://universitypolicy.gmu.edu/policies/responsible-use-of-computing/).

- Students are responsible for the content of university communications sent to their Mason email account and are required to activate their account and check it regularly. All communication from the university, college, school, and program will be sent to students solely through their Mason email account.

- Students with disabilities who seek accommodations in a course must be registered with George Mason University Disability Services. Approved accommodations will begin at the time the written letter from Disability Services is received by the instructor (see https://ds.gmu.edu/).

- Students must silence all sound emitting devices during class unless otherwise authorized by the instructor.

Campus Resources
- Support for submission of assignments to Tk20 should be directed to tk20help@gmu.edu or https://cehd.gmu.edu/aero/tk20. Questions or concerns regarding use of Blackboard should be directed to http://coursesupport.gmu.edu/.

- For information on student support resources on campus, see https://ctfe.gmu.edu/teaching/student-support-resources-on-campus

For additional information on the College of Education and Human Development, please visit our website https://cehd.gmu.edu/students/.

ADDITIONAL CLASS POLICIES

Paper Format
All papers submitted should adhere to the following guidelines:
- 1 inch margins on all sides, double-spaced, 12-point Times New Roman font.
- Separate title page including the following: title, name, date, professor, course number.
- Formatted in APA style and proofread for spelling, grammar, and clarity errors.

Late Assignments
Assignments are due at the start of class on the assigned due date and are to be posted on Blackboard. Late assignments will be marked down by half a letter grade for each day the assignment is late.

Electronic Device Use in Class
During class time, please refrain from checking email or conducting activities on the computer, cell phone or other electronic device that are not directly related to the class session.

Class Environment
Help to foster a positive learning environment by respecting the opinions and contributions of others. Also, cell phones should be turned off or put on silent mode so as to not affect the learning of those around you.
<table>
<thead>
<tr>
<th>CLASS #: DATE</th>
<th>TOPIC</th>
<th>READINGS &amp; ASSIGNMENTS</th>
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</thead>
<tbody>
<tr>
<td><strong>Class 2:</strong> Sept 4</td>
<td>Educational Psychology: Past, Present, and Future—Who are we and where are we going? Professional Competencies: Academic Curriculum Vitae and Professional Organizations</td>
<td>Alexander et al. (Vol 1, Ch 1) Berliner (2006) One of the following: ‡ Patrick et al. (2011) Anderman (2016) webinar (<a href="https://www.youtube.com/watch?v=qRA5OWx-qnE">https://www.youtube.com/watch?v=qRA5OWx-qnE</a>) Bring concept maps to class</td>
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<tr>
<td><strong>Class 3:</strong> Sept 11</td>
<td>Child, Adolescent, and Adult Development Current and Emerging Design and Data Analysis Research Competency: Reading Empirical Research</td>
<td>Read one of the following: TBD Graham (2015) One of the following: ‡ Kulikowich &amp; Sedransk (Vol 1, Ch 2) Penuel &amp; Frank (2015)</td>
</tr>
<tr>
<td><strong>Class 5:</strong> Sept 25</td>
<td>Cognition, Learning, and Knowledge Theories II: Information Processing</td>
<td>Mayer (Vol 1, Ch 4) McCrudden et al. (2014)+ Concept Map Submission #1 Submit paper format and topic (noon, Friday 9/28)</td>
</tr>
<tr>
<td><strong>Class 6:</strong> Oct 2</td>
<td>Cognition, Learning, and Knowledge Theories III: Constructivism and Sociocultural Approaches</td>
<td>O’Donnell (Vol 1, Ch 3) Göncü &amp; Gauvain (Vol 1, Ch 6) Hickey (2017) webinar (<a href="https://www.youtube.com/watch?v=gimSV7c-ETI&amp;feature=youtu.be">https://www.youtube.com/watch?v=gimSV7c-ETI&amp;feature=youtu.be</a>) TBD+</td>
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‡ Indicate chapters selected on the appropriate Blackboard Discussion board.
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Readings</th>
<th>Assignments</th>
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<tbody>
<tr>
<td>Oct 9</td>
<td><strong>NO CLASS-Columbus Day</strong> (Monday classes meet on Tuesday. Tuesday classes do not meet)</td>
<td>Identify student-selected course activities</td>
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<tr>
<td>Class 7:</td>
<td>Expertise and Intelligence</td>
<td>Nandagopal &amp; Ericsson (Vol 1, Ch 10)</td>
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<td>Oct 16</td>
<td>Student and Teacher Knowledge and Beliefs</td>
<td>Roberts &amp; Lipnevich (Vol 2, Ch 2)</td>
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<td>Dr. Buehl</td>
<td>Online Activity</td>
<td>Vosniadou &amp; Mason (Vol 2, Ch 9)</td>
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<td></td>
<td>Submit summaries of 5 empirical articles to be included in final paper with references in APA style</td>
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<td>Class 8:</td>
<td>Expertise and Intelligence</td>
<td>Alexander et al. (2004)+</td>
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<td>Oct 23</td>
<td>Student and Teacher Knowledge and Beliefs</td>
<td>Braten &amp; Ferguson (2015)+</td>
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<td>Muis et al. (2015)+</td>
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<td>Class 9:</td>
<td>Motivation and the Classroom Context</td>
<td>Read two of the following: ‡</td>
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<td>Oct 30</td>
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<td>Graham &amp; Weiner (Vol 1, Ch 13)</td>
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<td>Kaplan et al. (Vol 2, Ch 7)</td>
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<td>Hulleman &amp; Barron (2015)</td>
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<td>TBD+</td>
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<td>Final paper progress update and outline</td>
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<td>Class 10:</td>
<td>Instruction and Technology</td>
<td>Nolen et al. (2015)</td>
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<td>Nov 6</td>
<td>Professional Competency: Poster discussion</td>
<td>Read two of the following: ‡</td>
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<td>Moreno (Vol 3, Ch 18)</td>
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<td>Graesser et al. (Vol 3, Ch 19)</td>
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<td>Mishra et al. (2015)</td>
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<td></td>
<td>Concept Map Submission #2</td>
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<tr>
<td>Class 11:</td>
<td>Teaching and Learning in the Domains</td>
<td>Shulman &amp; Quinlan (1996)</td>
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<td>Nov 13</td>
<td>Professional Competency: Academic Writing/APA/Word tips</td>
<td>Read two of the following: ‡</td>
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<td>TBD</td>
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<td>Class 12:</td>
<td>Assessment and Accountability</td>
<td>Read two of the following: ‡</td>
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<td>Nov 20</td>
<td>Professional Competency: PhD Program Portfolio System</td>
<td>Hosp (Vol 3, Ch 5)</td>
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<td>Elliott et al. (Vol 3, Ch 6)</td>
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<td>Mandinach &amp; Lash (2015)</td>
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<td></td>
<td>Review PhD program portfolio guidelines</td>
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<td></td>
<td>Submit 5 written pages of final paper</td>
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‡Indicate chapters selected on the appropriate Blackboard Discussion board.
| Class 13: Nov 27 | Effective Teachers and Teaching Evidence-Based Practices Reflections on the Past, Present, and Future | Read one of the following: ‡  
Roehrig et al. (Vol 2, Ch 20)  
Cook et al. (Vol 1, Ch 17)  
Watch one of the following: ‡  
Roehrig (2018) webinar  
(Hits://www.youtube.com/watch?v=7Cux7ldXW&feature=youtu.be)  
Bridging Theory & Practice session APA 2016  
(Hits://www.youtube.com/watch?v=r3N4spP6D&feature=youtu.be) |
| --- | --- | --- |
| Class 14: Dec 4 | Conclusions and Poster Session | Poster Session  
Final Concept Map and Reflection Submission  
Poster materials due 12/3 9am |
| Exam Period (Dec. 12th –19th) | Final Paper due 12/18 by 9am |

‡Indicate chapters selected on the appropriate Blackboard Discussion board.
Appendix A

Attendance & Participation Rubric (10%)

Student participation is imperative to student learning and a successful class. The following rubric outlines how student participation scores will be determined in this course. All students are expected to demonstrate specific characteristics and actions throughout the semester. The quality and quantity of these actions will determine the points assigned for participation.

Students are expected to:

a. Be punctual, present (in mind and body), and well prepared for class.
b. Participate fully in class activities and assignments – take an active part in small and large group discussions (without dominating the conversations) and pay attention to class lectures.
c. Make insightful comments, which are informed by required readings and demonstrate reflection on those readings. Specifically, students should come to class with questions, comments, and thoughts on the current readings.
d. Treat class activities, group discussions, and class discussions as important components of the course, showing respect for fellow classmates and the course material.

Each of these criteria will be assessed on a 5-point scale.

5 = Student consistently demonstrated the criterion throughout the semester.
4 = Student frequently demonstrated the criterion throughout the semester.
3 = Student intermittently demonstrated the criterion throughout the semester.
2 = Student rarely demonstrated the criterion throughout the semester.
1 = Student did not demonstrate the criterion throughout the semester.

Your participation grade will be calculated as the sum of points for each criterion.

<table>
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<tr>
<th>Criterion</th>
<th>Score</th>
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<td>a)</td>
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<td>d)</td>
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<td>TOTAL</td>
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Appendix B

Article Critique Guidelines and Rubric (10%)

Each student is required to prepare one critique of an empirical peer-reviewed article related to their assigned handbook chapter. Critiques are due the day the handbook chapter is scheduled in the syllabus and should be posted on Blackboard.

CONTENT

**Empirical Article**

1. The problem
2. The methodology (e.g., participants, measures, procedures, research design)
3. The findings/results
4. The authors’ conclusion(s) (include implications or applications)
5. Your analysis and critique of the article (e.g., discuss the strengths and weaknesses of the methods, analyses, and conclusions)
6. Your perspective on the implications for research and or practice

FORMAT

The abstract should
- Include a cover page
- Be 3-6 pages (excluding cover and reference page), typed, double-spaced, and in APA format
- Include reference information on a separate sheet (APA format)
## ARTICLE ABSTRACT RUBRIC

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Outstanding (3)</th>
<th>Competent (2)</th>
<th>Minimal (1)</th>
<th>Unsatisfactory (0)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summary</strong></td>
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</tr>
<tr>
<td>Summarize important aspects of article</td>
<td>Provides a clear and complete summary of the article including all necessary components.</td>
<td>Summary of the article is mostly complete but lacks some components, clarity, or understanding.</td>
<td>Summary of the article is somewhat incomplete and/or unclear with multiple misunderstandings.</td>
<td>Summary of the article is absent.</td>
</tr>
<tr>
<td><strong>Analysis</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Analyze and critique specific aspects of article (e.g., theory, methods, analysis, discussion)</td>
<td>Gives a complete analysis of the article, relating specific examples to justify critique.</td>
<td>Analysis may be somewhat limited or includes few examples to justify critique.</td>
<td>Analysis is limited and/or lacks examples to justify critique.</td>
<td>Gives no analysis of study and lacks examples to justify critique.</td>
</tr>
<tr>
<td><strong>Implications</strong></td>
<td></td>
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</tr>
<tr>
<td>Discuss implications for the article for research or practice</td>
<td>Relates article to personal situation and or course content with clear implications for practice and research.</td>
<td>Implications for practice and research are somewhat general, lacking connection, or in need of elaboration.</td>
<td>Implications are general, lack specific connection to practice and/or research, and/or are inappropriate.</td>
<td>Draws no implications for practice or research.</td>
</tr>
<tr>
<td><strong>APA Style</strong></td>
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</tr>
<tr>
<td>Use APA style and formatting</td>
<td>Uses concise, coherent, well-organized writing with correct APA style.</td>
<td>Writes with some lack of clarity and/or inconsistent APA style with some errors.</td>
<td>Writes with a lack of clarity and coherence, many errors, or incorrect APA style.</td>
<td>Writes with little clarity or coherence, many errors, and/or no use of APA style.</td>
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</table>

TOTAL = _________

### Grade Allocation

<table>
<thead>
<tr>
<th></th>
<th>Plus</th>
<th>Standard</th>
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<tbody>
<tr>
<td>A</td>
<td>10</td>
<td>8-9</td>
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<td>B</td>
<td>7</td>
<td>5-6</td>
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<td>C</td>
<td>4</td>
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<tr>
<td>F</td>
<td>≤ 3</td>
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</tbody>
</table>
# Appendix C
## Final Paper Rubrics (25%)

### Literature Review Content

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Outstanding (4)</th>
<th>Competent (3)</th>
<th>Minimal (2)</th>
<th>Unsatisfactory (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Introduction/Overview</strong></td>
<td>Introduction fully addresses all 3 criteria. The basis for the review, the</td>
<td>Introduction that addressed all 3 criteria with</td>
<td>Significant weaknesses in all criteria, or 1 or</td>
<td>Identified criteria were not addressed. The</td>
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<td>search process, and organizational framework are appropriate and well articulated.</td>
<td>some weaknesses. The significance of review is</td>
<td>2 criteria were not addressed.</td>
<td>introduction/overview is unacceptable.</td>
</tr>
<tr>
<td><strong>Thoroughness of Review</strong></td>
<td>Review includes relevant works for the topic.</td>
<td>Review includes mostly relevant works with few</td>
<td>Several instances in which irrelevant works were</td>
<td>Relevant works and authors were not identified.</td>
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<td></td>
<td></td>
<td>instances in which critical works or authors were</td>
<td>included and instances in which critical</td>
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<tr>
<td></td>
<td></td>
<td>not included.</td>
<td>works or authors were not included.</td>
<td></td>
</tr>
<tr>
<td><strong>Identification and Discussion of Key Themes/Points</strong></td>
<td>Key themes/points are identified and supported through discussion of relevant</td>
<td>Key themes/points are identified and supported</td>
<td>Key themes are not clearly articulated; focus is</td>
<td>Key themes are not identified; cited works are</td>
</tr>
<tr>
<td></td>
<td>works.</td>
<td>through discussion of relevant works.</td>
<td>primarily on summarizing cited works.</td>
<td>not adequately discussed.</td>
</tr>
<tr>
<td><strong>Discussion of Identified Works and Relevant Concepts</strong></td>
<td>Cited works are discussed at an appropriate level of detail. Concepts/theories</td>
<td>Cited works are typically discussed at an</td>
<td>Multiple instances in which discussion of</td>
<td>Identified works were not discussed. Concepts/</td>
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<td></td>
<td>are clearly defined and discussed.</td>
<td>appropriate level of detail with a few instances</td>
<td>identified works lacked sufficient detail.</td>
<td>theories were not defined or discussed in</td>
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<td>in which more, or less, detail is needed.</td>
<td>Multiple concepts/theories are not defined or</td>
<td>sufficient detail.</td>
</tr>
<tr>
<td><strong>Limitations, Conclusions, and Implications</strong></td>
<td>Limitations of current literature, conclusions, and implications for future</td>
<td>Limitations, conclusion, and implications are</td>
<td>Significant weaknesses in the discussion of</td>
<td>Discussion of limitations, conclusions, and</td>
</tr>
<tr>
<td></td>
<td>research and practice are thoughtfully discussed.</td>
<td>discussed. Some critical limitations, conclusions,</td>
<td>limitations, conclusions, and implications. Few</td>
<td>implications was not provided.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>or implications were not addressed.</td>
<td>were identified and/or were inappropriate.</td>
<td></td>
</tr>
<tr>
<td>Criteria</td>
<td>Outstanding (4)</td>
<td>Competent (3)</td>
<td>Minimal (2)</td>
<td>Unsatisfactory (1)</td>
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<tr>
<td><strong>Introduction</strong></td>
<td>Introduction fully addresses all 4 criteria. The conceptual framework/theoretical basis for the study are aligned with the research problem. The research questions/hypotheses are well aligned with the research problem. The study addresses an important issue in the field.</td>
<td>Introduction addresses all 4 criteria. The conceptual framework/theoretical basis for the study are aligned with the research problem. The research questions/hypotheses are well aligned with the research problem.</td>
<td>Introduction does not address all 4 criteria. The conceptual framework/theoretical basis for the study are not adequately related to the research problem. The research questions/hypotheses are not well aligned with the research problem.</td>
<td>Introduction does not address the criteria. The conceptual framework/theoretical basis for the study are not provided. The research questions/hypotheses are not articulated.</td>
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<tr>
<td><strong>Methods</strong></td>
<td>Methods fully address the data sources, data collection procedures, and research design. Data sources and research design are appropriate and thoroughly described. Selection and justification of methods reflects contemporary educational research methodology. The research methods are well aligned and address the research problem and related questions.</td>
<td>Methods address the data sources, data collection procedures, and research design. There are methodological concerns with data sources, research design, or procedures OR methods are appropriate, yet not fully described. The research methods are aligned and address the research problem and related questions.</td>
<td>Methods do not address all criteria. Data sources, research design, and/or data collection are not fully appropriate.</td>
<td>Methods do not address the criteria. Data sources, research design, and data collection are not appropriate.</td>
</tr>
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<tr>
<td><strong>Data Analysis and Expected Results</strong></td>
<td>Planned data analysis is appropriate, complete, and accurately described. Expected results/findings are discussed.</td>
<td>Planned data analyses are appropriate but are not complete or accurately described. Expected results/findings are discussed.</td>
<td>Data analyses are not fully appropriate or are incomplete. Expected results/findings are not included.</td>
<td>Data analyses and expected results are not addressed.</td>
</tr>
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<tr>
<td><strong>Limitations and Educational Implications</strong></td>
<td>Limitations and validity issues are thoughtfully addressed. Implications and directions for future research stem from the findings are well justified and explained.</td>
<td>Limitations and validity issues are addressed. Implications and directions for future research are provided. Some critical limitations or implications were not addressed.</td>
<td>Significant weaknesses in the discussion of limitations and educational implications. Few were identified and/or were inappropriate.</td>
<td>Limitations and validity issues are not addressed. Implications and directions for future research are not provided.</td>
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<tr>
<td>Additional Elements</td>
<td>Outstanding (1)</td>
<td>Competent (.75)</td>
<td>Minimal (.5)</td>
<td>Unsatisfactory (.25)</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td><strong>Abstract</strong></td>
<td>Clearly and sequentially conveys the content of paper; 120 words or less</td>
<td>Gives a general overview of paper topic, but no sequential elaboration of contents</td>
<td>Does not provide a clear representation of paper contents</td>
<td>Not provided</td>
</tr>
<tr>
<td><strong>Writing Style and Technical Merit (spelling, grammar, typographical errors)</strong></td>
<td>Paper is coherent, concise and well structured with a clear purpose; error free</td>
<td>Paper is coherent, concise and well structured with a clear purpose and few technical errors.</td>
<td>Paper conveys the main points of the topic but additional polish is needed; Several errors or incoherent sentences</td>
<td>Paper is incoherent and/or overly wordy with little structure or purpose; difficult to appreciate the content; Numerous technical errors</td>
</tr>
<tr>
<td><strong>Citation of sources, APA style, and paper guidelines</strong></td>
<td>Appropriate citation of sources and use of APA style and paper guidelines</td>
<td>A few missing citations and or instances of incorrect formatting and style</td>
<td>Several missing citations and or several instances of incorrect formatting and style</td>
<td>Lack of citations or use of APA style</td>
</tr>
</tbody>
</table>


Appendix D
Foundational Knowledge Presentation and Discussion
(Possible Student-Selected Competency, 10%)

If students choose to read an original work, additional handbook chapter, or historic contributions chapter as one of their additional competencies, the content of the reading should be shared with the class. Students are expected to (1) read the selected work, (2) prepare an outline to distribute to the class, and (3) briefly share (i.e., approx 10 minutes) their thoughts on the chapter and its connection to the course. Students are strongly encouraged to collaborate on this assignment.

The outline should be well organized, easy to read, and contain the following information:

- Student’s name,
- Complete bibliographical information for the chapter in APA format,
- Summary of relevant ideas and information presented in the chapter.

With respect to formatting for the outline handout:

- A cover page is NOT necessary,
- Headings and subheadings are encouraged,
- Bullets may be used,
- Appropriate grammar and spelling should be used.

<table>
<thead>
<tr>
<th>Handout (8 pts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTENT</td>
</tr>
<tr>
<td>Summary</td>
</tr>
<tr>
<td>FORMAT</td>
</tr>
<tr>
<td>Organization</td>
</tr>
<tr>
<td>Technical (e.g., spelling) and APA errors</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Class Presentation/Discussion (2 pts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
</tr>
<tr>
<td>Presentation and Discussion</td>
</tr>
</tbody>
</table>
The Founding Period: 1890 to 1920
William James
Alfred Binet
John Dewey
E. L. Thorndike
Lewis M. Terman
Maria Montessori

The Rise to Prominence: 1920 to 1960
Lev Vygotsky
B. F. Skinner
Jean Piaget
Lee J. Cronbach
Robert Mills Gagne

Educational Psychology in the Modern Era: 1960 to Present
Benjamin S. Bloom
N. L. Gage
Jerome Bruner
Albert Bandura
Ann L. Brown

Other potential researchers not included in the text:
Paul Pintrich
Jere Brophy
Michael Pressley

Additional chapters from APA Educational Psychology Handbook (2012) not assigned in the syllabus

Volume 1: Theories, Constructs, and Critical Issues
Part II. Theory and Research on Critical Topics: What We Know and Why It Matters
Chapter 7. Metacognition in Education  Carey Dimmitt and Christine B. McCormick
Chapter 12. Working Memory, Learning, and Academic Achievement  H. Lee Swanson and Tracy Packiam Alloway
Chapter 14. Self-Regulation of Learning: Process Approaches to Personal Development  Barry J. Zimmerman and Andju Sara Labuhn
Chapter 15. Self-Concept: A Synergy of Theory, Method, and Application  Herbert W. Marsh, Man Xu, and Andrew J. Martin

Part III. Emerging Issues and Cutting-Edge Topics
Chapter 18. Genetics and Education: Toward a Genetically Sensitive Classroom  Claire M. A. Haworth and Robert Plomin
Chapter 19. How Neuroscience Contributes to Our Understanding of Learning and Development in Typically Developing and Special-Needs Students  James P. Byrnes
Chapter 20. Evolutionary Educational Psychology  David C. Geary

Volume 2: Individual Differences and Cultural and Contextual Factors
Part I. Individual Differences
Chapter 1. Academic Emotions  Reinhard Pekrun and Elizabeth J. Stephens
Chapter 3. Learning Styles and Approaches to Learning  Adrian Furnham
Chapter 4. Gifted and Talented Education: History, Issues, and Recommendations  Donna Y. Ford
Chapter 5. Personality  Moshe Zeidner and Gerald Matthews
Chapter 6. Gender, Motivation, and Educational Attainment  Judith L. Meece and Karyl J. S. Askew

Part II. Instructional Influences on Motivation, Engagement, Conceptual Change, and Moral Development
Chapter 10. Moral and Character Education  Marvin W. Berkowitz
Part III. Cultural and Neighborhood Effects
Chapter 11. Ethnic and Racial Identity in Childhood and Adolescence  Cynthia Hudley and Miles Irving
Chapter 12. Factors Affecting the Motivation and Achievement of Immigrant Students  Tim Urdan
Chapter 13. Explaining the Black–White Achievement Gap: An Intergenerational Stratification and Developmental Perspective  W. Jean Yeung
Chapter 14. Neighborhoods, Schools, and Achievement  Jondou J. Chen and Jeanne Brooks-Gunn

Part IV. Relationships
Chapter 15. Child and Adolescent Peer Relations in Educational Context  Philip C. Rodkin and Allison M. Ryan
Chapter 16. Understanding and Preventing Bullying and Sexual Harassment in School  Dorothy L. Espelage and Melissa K. Holt
Chapter 17. Parents’ Involvement in Children’s Learning  Eva M. Pomerantz, Elizabeth Moorman Kim, and Cecilia Sin-Sze Cheung

Part V. Teachers and Classroom Contexts
Chapter 21. Three Generations of Research on Class-Size Effects  Peter Blatchford

Volume 3: Application to Learning and Teaching
Part I. Application Across the Life Span (Some Chapters may not be available for Foundational Knowledge Competencies depending on what is added to the syllabus based on student interest)
Chapter 1. Early Childhood Education  Penny Hauser-Cram and Darcy B. Mitchell
Chapter 4. Learning and Assessment of Adult Reading Literacy  John P. Sabatini

Part II. Assessment and Decision Making in Education
Chapter 7. Testing Accommodations for Students With Disabilities  James M. Royer and Jennifer Randall

Part III. Teaching Core Skills and Content (Some Chapters may not be available for Foundational Knowledge Competencies depending on what is added to the syllabus based on student interest)
Chapter 8. Current and Historical Perspectives on Reading Research and Instruction  Michael L. Kamil
Chapter 9. Writing  Gert Rijlaarsdam, Huub Van den Bergh, Michel Couzijn, Tanja Janssen, Martine Braaksma, Marion Tillema, Elke Van Steendam, and Mariet Raeds
Chapter 10. Critical Transitions: Arithmetic to Algebra  Martha Carr
Chapter 11. Thinking and Reasoning in Science: Promoting Epistemic Conceptual Change  Gale M. Sinatra and Clark A. Chinn
Chapter 12. Learning Social Studies: An Evidence-Based Approach  David Hicks, Stephanie van Hover, Peter E. Doolittle, and Phillip VanFossen

Part IV. Instructional Methods
Chapter 13. The Power of Setting: The Role of Field Experience in Learning to Teach  Pam Grossman, Matthew Ronfeldt, and Julia J. Cohen
Chapter 14. Designing Instruction for the Contemporary Learning Landscape  Fred Paas, Jeroen J. G. van Merriënboer, and Tamara A. J. M. van Gog
Chapter 15. Classroom Applications of Cooperative Learning  Robert E. Slavin
Chapter 16. Strategies Instruction  Charles A. MacArthur
Chapter 17. Problem-Based Learning  Sofie M. M. Loyens, Paul A. Kirschner, and Fred Paas
Chapter 20. Homework  Harris Cooper, Saiying Steenbergen-Hu, and Amy L. Dent

Part V. Teaching Special Populations
Chapter 21. The Education of English Language Learners  Fred Genesee and Kathryn Lindholm-Leary
Chapter 22. Methods for Preventing Early Academic Difficulties  Adriana G. Bus, Paul P. M. Leseman, and Susan B. Neuman
Additional chapters from *Handbook of Educational Psychology, 3rd Edition* (2015) not assigned in the syllabus

**Part I. Psychological Inquiry in Education**
Chapter 1. Philosophical Perspectives on Mind, Nature, and Educational Psychology  
Eric Bredo
Chapter 4. The Prospects and Limitations of Latent Variable Models in Educational Psychology  
Benjamin Nagengast and Ulrich Trautwein

**Part II. Functional Processes for Learning**
Chapter 5. Learning as Coordination: Cognitive Psychology and Education  
Daniel L. Schwartz and Robert Goldstone
Chapter 6. Emotions and Emotion Regulation in Academic Settings  
Monique Boekaerts and Reinhard Pekrun
Chapter 7. Motivation  
Lisa Linnenbrink-Garcia and Erika A. Patall
Chapter 8. Volition  
Gabriele Oettingen, Jana Schrage, and Peter M. Gollwitzer

**Part III. Learner Readiness and Development**
Chapter 9. Human Cognitive Abilities: Their Organization, Development, and Use  
Patrick C. Kyllonen
Chapter 10. Cognition and Cognitive Disabilities  
H. Lee Swanson
Chapter 11. Personal Capability Beliefs  
Ellen L. Usher
Chapter 13. Beyond the Shadow: The Role of Personality and Temperament in Learning  
Arthur E. Poropat
Na'ilah Suad Nasir, Stephanie J. Rowley, and William Perez
Chapter 15. Language Development  
Alison L. Bailey, Anna Osipova, and Kimberly Reynolds Kelly
Chapter 16. Character Education, Moral Education, and Moral-Character Education  
Cary J. Roseth

**Part IV. Building Knowledge and Subject Matter Expertise**
Chapter 17. Literacy for Schooling: Two-Tiered Scaffolding for Learning and Teaching  
Ian A. G. Wilkinson and Janet S. Gaffney
Chapter 18. Warm Change about Hot Topics: The Role of Motivation and Emotion in Attitude and Conceptual Change about Controversial Science Topics  
Gale M. Sinatra and Viviane Seyranian
Chapter 19. Toward an Educational Psychology of Mathematics Education  
Jon R. Star and Bethany Rittle-Johnson
Chapter 20. Functional Scientific Literacy: Seeing the Science within the Words and Across the Web  
Iris Tabak
Chapter 21. Studying Historical Understanding  
Chauncey Monte-Sano and Abby Reisman
Chapter 22. Civic Education  
Mario Carretero, Helen Haste, and Angela Bermudez

**Part V. The Learning and Task Environment**
Chapter 23. Sociocultural Perspectives on Literacy and Learning  
David O’Brien and Theresa Rogers
Chapter 24. Learning Environments In and Out of School  
Brigid Barron and Philip Bell
Chapter 25. Networked Learning  
Gary Natriello
Chapter 26. Collaborative Learning  
Cindy E. Hmelo-Silver and Clark A. Chinn
Chapter 27. Black and Hispanic Students: Cultural Differences within the Context of Education  
Donna Y. Ford
Chapter 28. Dialogic Instruction: A New Frontier  
Sherice N. Clarke, Lauren B. Resnick, and Carolyn Penstein Rosé
Chapter 30. Being a Teacher: Efficacy, Emotions, and Interpersonal Relationships in the Classroom  
Lynley H. Anderman and Robert M. Klassen

Students are *encouraged* to identify and suggest other sources and assignments for Research and Foundational Knowledge Competencies. For Research and Foundational Knowledge Competencies, students are also *strongly encouraged* to collaborate with *one* other student in the class. In this event, both students should submit a brief reflection of the collaborative process as part of the assignment.