

# American College of Education Course Final Exam

**Official Course Number: DL5803**

**Official Course Title: Evaluation and Assessment of Instructional Design**

**Official Course Description:**

Assessment and evaluation of instructional activities will be explored within various experiences, including evaluation of course design as well as assessment of participant learning. Approaches to determining evaluation options for both levels are explored using evidence based assessment methods. Students will explore data gathering and analysis, as well as application of findings for continuous improvement of learning activities.

<b>Course Author</b>	Doug Trovinger
<b>Course Author Credential</b>	Ed.S.
<b>Course Guide's Name</b>	Doug Trovinger
<b>Course Guide's Credential</b>	Ed.S.

1. Which social paradigm is focused on seeking the most absolute truth and is tailored around cause and effect relationships?
  - a. Social constructivism
  - b. Positivism
  - c. Constructivism \*
  - d. Quantitative research
  - e. None of the above
2. When reviewing the presentations provided in the course, what is the item shown below that is NOT included in principles David Resnik gives with respect to ethical principles in educational research?
  - a. Openness to feedback, criticisms, & future research
  - b. Respect for intellectual property & publicizing responsibility
  - c. Honesty and integrity
  - d. Carefulness and confidentiality \*
  - e. All of the above are principles mentioned by the author provided.
3. How is educational research different from traditional research?
  - a. Educational research is focused on the various aspects of learning.
  - b. Traditional research commonly uses more methods that are geared towards nonphysical measurements.
  - c. Educational research focuses more on physical observations as they are key to determining how learners obtain information.

- d. A and C are correct \*
  - e. None of the above are correct
4. Provided with the choices below, which ones are applicable to an effective research study focusing on instructional design?
- a. Respect of individuals and persons that are part of the research study.
  - b. The direction of the moral compass should always be in the direction where the subjects are treated properly.
  - c. All of the items except this choice are applicable to the research subject in question \*
  - d. Foundational research should be conducted as it is a means to an end.
  - e. ADA (American with Disabilities Act) Compliance should always be a priority when creating instructional materials.
5. \_\_\_\_\_ is the method that uses a standardized process to gain knowledge in a specific subject or topic.
- a. Scientific method
  - b. Scientific process \*
  - c. Hypothesis
  - d. Experimental testing
  - e. None of the above
6. Which act that was provided in the course applies to the sensitivity of student's personal information and academic records?
- a. HIPPA
  - b. ADA
  - c. NCAA
  - d. FERPA \*
  - e. HHS
7. This concept is one which has an importance of whether or not a change in a research study makes a difference in the body of research. Which one below is it?
- a. Internal reliability
  - b. Internal validity \*
  - c. External reliability
  - d. External validity
  - e. None of the above
8. Which research method shown below applies a hypothesis logic that is an educated guess or prediction?
- a. Qualitative research
  - b. Quantitative research
  - c. Mixed methods research
  - d. Analytical research \*
  - e. None of the above
9. Given the options below, which options are good to use as arguments for using more than one method of research in an educational or instructional design study?
- a. One approach may not be sufficient to draw conclusions from.
  - b. The type of research question that is attempted to be answered
  - c. The type of data that is being examined and reviewed
  - d. Need to do physical observations in order to see patterns in behavior
  - e. All of the aforementioned are correct. \*

10. A single subject study research method focuses on a small sample population where they are reviewed at the same time to collect data from.
- True
  - False \*
  - Not enough information is provided in the course to provide a conclusion
11. Reviewing the items below, which of the items shown are items that Marshall and Rossman recommend to NOT have in a qualitative research paper?
- Introduction
  - Instrument sample / blank \*
  - Literature reviews
  - Research methods
  - None of the above
12. One of the main purposes of qualitative research is to have the ability to analyze, collect, and review physical observations in order to come up with proper conclusions about a population study.
- False
  - True \*
13. The application of \_\_\_\_\_ is one which can be used to visually determine what happens when a particular action is done and why it is done in one's familiar environment.
- Field observations \*
  - Sight analyses
  - Questionnaires
  - Secondary analyses
  - None of the above
14. Which type of bias focuses more on proving one that is right or wrong and not on the process that occurred to get to a specific result?
- Participant bias
  - Data bias
  - Confirmation bias
  - None of three (3) mentioned could be applied to the statement
  - All of the three (3) mentioned could be applied to the statement \*
15. When reviewing the four (4) types of research that were provided in the courses' literature, which ones apply to quantitative research?
- Correlational research
  - Descriptive research
  - Experimental research
  - Casual-comparative research
  - All of the items were mentioned in the course and literature \*
16. The application of perceived learning is one which uses senses to secure knowledge whereas cognitive learning uses critical thinking techniques to acquire knowledge.
- The statement is completely true. \*
  - The statement is partially true.
  - The statement is completely false.
  - The statement doesn't apply to any research studies.

17. What is the purpose of a system usability scale (SUS) in an instructional design (ID) research project?
- It is a way that could determine how many people would be suited for a job at a factory or plant.
  - It is the main way to effectively review how well an instructional technologist does his or her job.
  - It is a way to challenge the academic industry to make learning better.
  - It is a method which can be applied to determining the effectiveness of an instructional design system. \*
  - None of the above.
18. When looking at the graphic on quantitative research outcomes and hypothesis, which ones are acceptable from the list below to hope for from a study?
- The hypothesis reviewed was proven true and you accept the hypothesis.
  - The hypothesis was proven false and reject said hypothesis.
  - The hypothesis was reviewed was rejected when in fact it was true.
  - B and C are correct \*
  - A and B are correct
19. Which type of error mentioned in the course is the result of a miss?
- Type II \*
  - Type I
  - Type II-A
  - Type II-B
20. One of the primary reasons to conduct quantitative research studies is to have the ability to study a larger population sample in an efficient and affordable manner.
- True \*
  - False
  - Not enough information is provided in the course to provide a conclusion
21. When looking at the course module on quantitative research methods, there were several that were provided that are effective use. From the ones shown below, please choose the one that doesn't belong.
- Surveys
  - Questionnaires
  - Interviews \*
  - Assessments and/or exams
  - None of the above
22. The use of self-assessment measures is a quantitative way to effectively measure a population without the interaction of researchers during the process.
- True \*
  - False
  - Not enough information is provided in the course to provide a conclusion
23. Which of the following below are ways to effectively record observations?
- Intervals – amount of time between occurrences
  - Frequencies – number of times something occurs in a period
  - Durations – accumulation of time
  - A, B, and C \*

- e. A, and C only
24. Independent variables are ones which are manipulated whereas dependent variables are ones which have no effective on the research study.
- The statement is completely true.
  - The statement is partially true. \*
  - The statement is completely false.
  - The statement doesn't apply to any research studies.
25. A mixed methods research study is one which combines elements of a quantitative research design and a qualitative research design.
- True \*
  - False
  - Not enough information is provided in the course to provide a conclusion
26. Which guideline of Sam Searle's to conducting research applies to a strategic data storage plan?
- Near or end of research project
  - Data processing & collection process \*
  - Pre-project research
  - Fulfillment of obligations
  - None of the above
27. Which of the following type of interviews are effective in an educational or instructional design research study?
- One-on-one
  - Group interview in a classroom and/or conference room
  - Interview set where one receives multiple interviews over a period of time
  - All of the choice are effective \*
  - None of the choices shown are effective
28. A closed-ended question is one which one can freely response with an answer to the other party
- True
  - False \*
  - Not enough information is provided in the course to provide a conclusion
29. Which of the graphical methods shown below is the best one to analyze a proportional analysis of a sample population for a specific observation done in a study?
- Histogram
  - Bar chart
  - Scatter plot
  - Pie chart \*
  - None of the above
30. Why is it important to limit the use of incentives in a research study?
- Behaviors could be negatively impacted when incentives are used too liberally or generously.
  - They may cause a miss or false alarm in a research study.
  - It may be the only way to get participants to give any effort in a research study.
  - B and C only \*
  - A and B only
31. Who could potentially be harmed from unethical research practices?

- a. Participants
  - b. Educational and/or professional organizations
  - c. Researchers conducting the study/studies
  - d. General Public
  - e. All could be at risk to be harmed from unethical research practices \*
32. \_\_\_\_\_ is/are one or more of the types of validity which has a moderate level of validity.
- a. Discriminant
  - b. Content
  - c. Construct
  - d. Predictive
  - e. B and D are acceptable \*
33. Duplicating research that has been done several times over is a common fault of ineffective literature reviews.
- a. True \*
  - b. False
  - c. Not enough information is provided in the course to provide a conclusion
34. Which time period of educational research and instructional design (ID) focused on online learning modules?
- a. Up to the early 1990's
  - b. 1990's to early 2000's
  - c. Early 2000's to 2010
  - d. 2010 to present \*
35. The globalization of learning has significantly changed the way we learn both in an academic environment and professional environment. Which realm would apply to the dimensional nature of instructional design and learning?
- a. Physical
  - b. Mental \*
  - c. Professional
  - d. Intellectual
  - e. None of the above
36. The goal of primary research uses a specific method that is commonly used in educational research? Which one below was provided in a lecture video?
- a. ADDIE \*
  - b. MOO
  - c. WYSIWYG
  - d. LCA
  - e. None of the above.