

R622: Learning Environments Design (Fall 2023; updated Sept. 7th)

IST Department, IU School of Education

(Section 10957: Online Version; 15 week)

Syllabus: http://curtbonk.com/R622_online_syllabus_Fall_2023.htm
Zoom (Optional Synchronous Sessions): <https://IU.zoom.us/j/8123222878>
Course and Article Links in [Dropbox](#) and [Canvas](#): <http://canvas.iu.edu/>
R622 in Canvas: <https://iu.instructure.com/courses/2167106>
Moderator Sign-up Form: See sign-up form: <http://www.trainingshare.com/r622b.php>

Instructor: Professor Curt Bonk, Indiana University, Email: cjbonk@indiana.edu
Bonk Homepage: <https://curtbonk.com/>
Padlet Link Fall 2023: <https://padlet.com/jamrscot/r622-who-are-you-sgqpxs39z462tdft>
Student Info in Padlet (Fall 2022): <https://padlet.com/sunseol/sx3ra0rn3tb9vvd5>
Instructional Assistant: Beau Scott jamrscot@iu.edu

Course Description

Per the Indiana University catalog, this course is about: “Principles and practice of environmental design. Study of interrelationships among environmental variables. Use of decision models in the design process. Design, construction, and testing of learning environments representing alternative profiles of variables.” That sounds complex. Ok, let’s simplify. This is a graduate-level research and development class focusing on the design, development, and implementation of learning environments in both formal and informal education and training settings. Students who enroll in R622 will explore the foundations of learning environments from both instructional and pedagogical perspectives, and have the opportunity to design their own learning environment for a content area, setting, and target audience of their choosing. In effect, you will have some freedom to choose what you want to do.

From a macro perspective, this course relates to trends in the field of instructional technology (my current discipline) and educational psychology (my former discipline) away from the endless debates related to different learning theories and instructional design models, toward a more eclectic understanding of the key instructional principles and practices that can garner exciting, effective, and engaging learning across all grade and age levels and sectors of education and training. In effect, this course should have relevance to any teacher or instructor, instructional designer, program manager, learning center director, training officer, educational evaluator, or anyone interested in enhancing learning and instruction anywhere on this planet. There is no secret sauce or magic formula to making this happen. However, I will provide my current understanding of what principles tend to lead to the most robust forms of learning. You will learn about my three formulas, models, or frameworks that I have found build success (i.e., R2D2, TEC-VARIETY, and Education 20/20).

This course is designed to be ground up and top down. You will learn about my models (as stated above) but you will each design your own vision, model, or framework of an effective learning environment. We will share such visions in the weekly optional synchronous sessions in Zoom as well as in the discussion forums.

Course Goals and Learning Objectives

There are many objectives for this course. And you will potentially wear many hats. I list just a few below.

1. **Historian:** Develop an understanding of the history and foundations of learning environments.
2. **Consultant:** Understand critical design considerations for the development of learning environments given a specific audience and setting.

3. **Analyzer:** Critique existing learning environments in both formal and informal settings from an instructional design perspective.
4. **Designer:** Design and develop a learning environment for a specific content area, setting, and target audience.
5. **Evaluator:** Survey the features of classroom, building, online course, school, or campus and provide input to strategic plans to create a more active and engaging learning environment.
6. **Leader:** Take ownership over your own learning as a self-directed learner and autonomous human being. Display for others your learning quests and learning decisions. And perhaps take charge of a group project or task or discussion thread.
7. **Learning Trend Spotter:** Identify and discuss trends and issues that affect the design of learning environments one or more educational sectors or grade levels. In addition, one should predict new trends and concerns on the near horizon.
8. **Networker:** Begin to grow your network of contacts in the field of learning environments design through readings, discussions, synchronous guest expert session, direct emails, and watching archived videos of such esteemed leaders.
9. **Researcher:** Read, reflect, and analyze research related to the design and develop learning environments for different purposes. Also, begin to pose appropriate research questions on learning environments and perhaps conduct initial research or pilot studies.
10. **Learning Technologist:** Learn about some of the emerging learning technologies and tools that can enhance the design of learning environments. And obtain such experience and competence in using one or more of these technologies.

15 Week Schedule (Note: Topics and Guests may change)		
Note: Students can read anything in any week or on any topic.		
Weekly Agenda and Guests in R622 Learning Environments Design		
Date and Week	Topic	Guest
Week 1 (August 21 at 7 pm EST)	Module #1: Learning Environments Foundations and History	Orientation: Curt Bonk and Beau Scott
Week 2 (August 28 at 7 pm EST)	Module #2: Learning Theory and Learning Environments	Sunny Zhang; CoFounder and CEO Sandip Borodloi, TrueLeap
Week 3 (Sept. 4 at 8 pm EST)	Module #3: Formal K-12 Learning Environments	Paul Kim, Stanford University (and SMILE project)
September 6 at 8 pm EST		Susan Bridges, University of Hong Kong
Week 4 (Sept 14 at Noon EST)	Module #4: Informal Learning Environments	Gihan Osman, Senior Advisor for Teaching and Learning Innovations, The British University in Egypt
Thursday Sept. 14 at 5:30 pm EST		Danielle McNamara, Arizona State, Director of SoLET Lab
Week 5 (Sept 18 at 7 pm EST)	Module #5: Authentic Learning Environments in Higher Ed	Chris Dede, Senior Research Fellow (and former Professor), Harvard University
(Task #3 & #4 due)		
Week 6 (Sept 25)	Module #6: Learning	No Guests

	Environments in the Workplace	
Week 7 (Oct 2 at 7 pm EST)	Module #7: Active Learning Spaces in HE (at IU)	Tracey Birdwell and her research assistants, IU UITs Mosaic active learning spaces
Week 8 (Oct. 9) Tuesday Oct 10 at 7 pm EST	Module #8: Wellbeing and Belongingness	Danah Henriksen, PhD, Associate Professor of Leadership & Innovation, Arizona State University, and Natalie Gruber, ASU
Week 9 (Oct 16 at noon EST; 6 pm in Denmark) October 16 at 7 pm EST	Module #9: Mindfulness, Open Thinking, and Radical Creativity	Klaudio Muca, R&D Architect, Denmark (research project called WISE: Work Innovation Space Education). (He will provide a wide overview of architecture's impact on learning, feelings, and behaviour.) https://indd.adobe.com/view/adf26e78-6f35-4a84-b2bb-fa8b8541b98f ; https://www.wise-journal.com/) Ron Owston, former Dean of York Univ and Contact North, AI Tools
Week 10 (Oct 23 at 12:30-1:30 pm EST)	Module #10: Technology-Enhanced Learning and Microlearning	Peter Shea (2022). Building bridges to advance the Community of Inquiry framework for online learning
Week 11 (Oct 30 at 7 pm EST)	Module #11: Psychology of Online Learning	Joi Moore, Professor, Univ. of Missouri, President Elect, AECT
Week 12 (Nov 6 at 12 noon EST) November 7 at 7 pm November 8 at 7 pm	Module #12: Designing Effective Online Learning Environments	Niels Floor, Learning Experience Design, The Netherlands. Christine Greenhow, Professor, Michigan State University, Foundations of online learning and social media Jered Borup, George Mason University, Online learner engagement
Week 13 (Nov 13 at 7 pm EST) (Task #5 & Task #6 due)	Module #13: Smart Learning Environments	Lydia Cao, Post-doctoral fellow, Harvard University
Week 14 (Nov 20 at 7 pm EST)	Module #14: AI, Robotics, and the Metaverse	Professor David Gibson, UNESCO Chair on Data Science in Higher Education Learning & Teaching (possible roles of AI)
Week 15 (Nov 27-Dec 5)	Module #15: Trends and Issues	No guests scheduled. Sharing and discussing final projects.

Assignments, Grading Criteria, and Due Dates

Tasks/Assignments	Points	Due Dates
1. Weekly Discussion in Canvas (or synchronous meeting option)	60 points	Due each week
2. Discussion Moderator and Class Resource Contributor	40 points	Various times
3. Learning Environment Critique and Analysis	60 points	Sept 18 (with 2-day grace period)
4. Learning Environment Final Project Skeleton	40 points	Sept 18 (with 2-day grace period)
5. Learning Environment Final Project Design Prototype	60 points	November 13 (with 2-day grace period)
6. Course Super Summary	40 points	November 13 (with 2-day grace period)
7. Share and Discuss Final Projects and Ideas in Canvas	There may be bonus points.	November 27 to December 4

Note Collaborative Teams: Two tasks are due September 18 (Tasks #3 and #4) and two tasks are due November 13 (Task #5 and #6). Tasks #4 and #5 should be completed with 1 (or 2) partners. They build on each other. There are exceptions to working with a partner, but it requires approved justification. You can work individually or in teams on Task #3 and Task #6. Your choice.

Total Points = 300 (Grading will be according to a 90-80-70-60 scale; see below.)

Grades:

300 or more = A+
 280 = A
 270 = A-
 260 = B+
 250 = B
 240 = B-
 230 = C+
 220 = C
 210 = C-
 200 = D

Grading Guidelines:

All papers will be evaluated for such criteria as: (1) organization and clarity; (2) coherence and flow; (3) content appropriateness and relevancy; (4) apparent effort expended and completeness; (5) originality and creativity; and (6) attention to details (including the use of APA 6th or 7th edition where appropriate). I have never taught this course before; therefore, I do not have preexisting assessment measures to share at this time.

You got a case of the Mondays? Everything is due on Mondays. Most of the optional synchronous meetings are on Monday night at 7 pm Eastern. Please upload them to Canvas.

Lateness: I have a 48-hour lateness policy with no penalties for any assignment (i.e., a 2-day grace period). Anything submitted after that 48-hour cushion or window loses 1 point per day. So, if it says it is due Monday

at midnight, you actually have until Wednesday at midnight to turn it in.

Incompleteness, Copyright, Plagiarism, and Original Work: I expect personally created, unique work on all assignments. Please do not try to cheat the system or this course. Please acquaint yourself with the “[IU Code of Student Rights, Responsibilities, and Conduct](#)” for the concept of plagiarism. If you are unsure of the rules and regulations regarding plagiarism, you can take a [self-paced course](#) on Understanding Plagiarism from Dr. Ted Frick from the IST department. This website is devoted to teaching people about plagiarism and it has tutorials and tests ([info](#)). Any assignment containing plagiarized material will be awarded a grade of F. At the discretion of the instructor, any assignment turned in that is deemed incomplete, failing to address the task objectives, or seriously flawed in any way may be turned back to the student for revision or correction of the problem. No incompletes will be awarded unless there is an emergency or mutually agreed upon reason.

Textbooks and Resources

No particular book is required for this course. Book chapters, books, journal articles, and technical reports are available in [Dropbox](#).

Instructional Assistant: My instructional assistant, Beau Scott jamrscot@iu.edu, will answer any questions or concerns that you have. He will also help me coordinate class activities and plans.

Optional Weekly Synchronous Meetings. We will have chats with former IST students, researchers, learning environment engineers, learning architects, book and article authors, learning and education leaders, and others. I will often give short lectures at the start of these sessions (sometimes at the end). Note: these are optional to attend; however, they will be recorded. These sessions might also entail interactive group activities like debates, discussions, demonstrations, brainstorming, and question and answer sessions. I will use [Zoom](#) for **optional weekly meetings** on Monday nights perhaps at 6 pm (or 7 pm) for around an hour or two. See Canvas announcements for the Zoom link.

Synchronous sessions from the fall of 2022 are listed below.

R622 Learning Environments Design Guest and Instructor Video Recordings Curt Bonk, Instructor, Indiana University Fall of 2022

Fall Semester 2022 Playlist:

R622 Learning Environments Design Fall of 2022

<https://youtube.com/playlist?list=PLHcReRoW2lxMb-dVCbOaGYawbMSuSte5O>

Week 1: Monday August 22, 2022

Badrul Khan, DC, on Instructional Design (1:37:36): <https://youtu.be/YZHFPu0VV1w>

Week 2: Monday August 29, 2022

Peter Honebein, Reno, on Instructional Design (1:15:49): <https://youtu.be/iqUdTO7DT64>

Week 3: Monday September 5, 2022

Sunmi Seol, Stanford, Mobile Apps in K-12 (1:06:56): <https://youtu.be/Juz9joX8QHW>

Week 4: Monday September 12, 2022

Tina Closser, Crane STEM Makerspace, Green County, Indiana and IU Sch of Ed Makerspace: Justin Whiting & Chaoran Wang (1:20:03): <https://youtu.be/3p9bWvxaubc>

William Kanye on Makerspace and OER Research (53:36): <https://youtu.be/aheBGIArdeA>

Week 5: Monday September 19, 2022

Curt Bonk TEC-VARIETY (1:04): <https://youtu.be/te5JAia3RQw>

Tom Reeves Authentic Learning (1:12): <https://youtu.be/WjLBa687pQY>

Week 6: Monday September 26, 2022

Rovy Branon, Vice Provost, Continuum College, University of Washington, Topic: Alternative Credentials, Lifelong Learning, Inclusive Education, and Outreach and Extension (1:16:21): <https://youtu.be/Rk9ib-Sj2n0>

Shameem Farouk, Malaysia, Maybank, Executive Vice-President and Head of Digital Skills Development, Topic: Corporate Training, Reskilling and Upskilling, and Female Empowerment (1:15:28):

<https://youtu.be/xP8wXvJuNgY>

Extra Recording. August 31: *Empowering Malaysian Women in the Future of Work: Building an Inclusive Future Ready Organizational Culture & Workforce*. Webinar of the IU School of Education's Global and International Engagement Initiative, Indiana University, (Shameem Farouk moderated by Curt Bonk) (1:01:54):

https://youtu.be/z5QRT_XTeh0

Week 7 (Monday October 3):

IU Mosaic Active Learning Spaces with Merve Basdogan (and Meina Zhu & Curt Bonk) (1:10:40):

<https://youtu.be/Aibb8Z1bHN0>

Self-Directed Learning with Meina Zhu & Curt Bonk (40:39): <https://youtu.be/EopnxbHCtyo>

Week 8 (Monday October 10)

Ben Kirshner, University of Colorado, Youth Participatory Action Research (YPAR) (1:12:07)

Kaltura Media Files at IU: https://iu.mediaspace.kaltura.com/media/t/1_5q1apo9v (Not in playlist)

Week 8 R622 Curt Bonk present on the R2D2 Model (1:08:31): <https://youtu.be/2FpvenMzYaI>

Week 9 (Monday October 17)

Curt Bonk, Framework #4 Thinking, Motivation, Collab Strategies: <https://youtu.be/X9qAojm20o>

Heejung An, William Paterson University, presents her research (1:13:12) Kaltura Media Files at IU:

https://iu.mediaspace.kaltura.com/media/t/1_dfbsncgf (Not in playlist)

Week 10 (Wed Oct 26) Note: Computer audio did not work properly at AECT for this session

Rick West and Jason McDonald Open Textbooks (32:28): <https://youtu.be/ZWMwNfY2fHc>

Week 11 (Monday October 31)

Tony Bates, Canada, Online Teaching and Learning (1:22:36): https://youtu.be/qiguN_HAPyA

Insung Jung, Japan and Korea, Open Thinking (53:28): <https://youtu.be/FtmkABhfkGY>

Week 12 (Monday November 7)

Stephanie Moore, Creating Learning Ecologies (1:37:52): <https://youtu.be/UZNgd7fYm84>

Curt Bonk Smarter Learning Environments (39:25): https://youtu.be/6r_F8w0cP08

Week 13 (Monday November 14)

Michael Spector, UNT on Smart Tech (and Som Naidu) (1:35:49): <https://youtu.be/VK9O8fc-x8w>

Sanjaya Mishra, Smart Tech and OER (1:10:30): <https://youtu.be/ggtKxn9BJCQ>

Week 14 (Monday November 28)

Ray Schroeder, Metaverse, AI, and the Future, Q&A (1:10:35): <https://youtu.be/6CLekdlKOaE>

R622 Course Tasks for Fall 2023

1. Weekly discussion in Canvas (60 points)

Those who attend 10 or more of the optional weekly synchronous sessions do not need to engage in the discussion forums (other than take the role of a moderator for one week). They will automatically receive 60 participation points.

We will have discussion of the articles in Canvas each week. In the discussion, students are encouraged to assume one of four roles: **moderator, supporter, challenger, and summarizer (but other roles are fine—optimist, pessimist, question asker, summarizer, comic, sage, slacker, devil’s advocate, futurist, protestor, etc.)**. The **moderator** gives a clear direction to the discussion and motivates students to participate in the discussion actively. The **supporter** responds positively to all posts and comments, suggests new ideas, or uses theory. The **challenger** is to respond to all posts and comments from a critical point of view, come up with a new idea, or use a theory. Finally, the **summarizer** summarizes one discussion thread or the entire discussion, wraps up the whole discussion week, and leads the students to conclude each week. The summarizer also brings in new sources so students can understand the entire discussion.

Grades for this activity will be assigned based on the level of participation. Scores from **54-60** for high participants, **46-53** for middle participants, **38-45** for low participants, and **below that** others. Participating in discussions includes contributing to Canvas online discussions, sharing resources, responding to peers, providing feedback on tasks and resource recommendations, and more. The level of participation primarily is measured by considering the number of uploaded posts and the qualitative factors listed below.

Participation Assessment Considerations:

- Diversity (some variety in ideas posted and some breadth to exploration),
- Perspective taking (values other perspectives, ideas, cultures, etc.),
- Creativity (original, unique, and novel ideas),
- Insightful (makes interesting, astute, and sagacious observations),
- Relevancy (topics selected are connected to course content),
- Learning Depth/Growth (shows some depth to thinking and elaboration of ideas),
- Brevity (communicate clearly and without verbosity), and
- Responsibility (perform the required tasks according to the assigned roles)

My instructional assistant Beau Scott (jamrscot@iu.edu) and I will monitor and support all group discussions every week. If you have any questions, difficulties, or concerns regarding this activity, please feel free to contact us.

2. Discussion Moderator and Class Resource Contributor (40 points)

All students will moderate one week of discussion (even those who attend the optional weekly synchronous session. See sign-up form: <http://www.trainingshare.com/r622b.php>. In discussion activities, students work in small groups. In addition to basic tasks, the mediator performs additional duties for effective discussion activities. The moderators of each group review the articles for the week, select, and read at least three pieces, and **upload short summaries** to their group discussions **by Monday morning of every week**. The moderators

also **post some questions** related to the topic to help kick off a group discussion. The moderators may nominate resources, not in the syllabus, such as reading additional articles, technical reports, books, videos, animations, or other resources to consider the next time the course is offered.

Moderators or co-moderators might:

1. State reactions, questions, and suggestions for the upcoming readings.
2. Push thinking through question asking.
3. Post author pictures, quotes, figures, tables, etc., from the articles for the coming week.
4. Recap or briefly summarize key parts of the assigned articles for the week.
5. Monitor the discussion. And spark it when it goes weak.
6. Offer feedback to peers on their posts.
7. Add resources and links to resources to the discussion.
8. Connect to experts in the field.
9. Connect or synthesize comments within the week.
10. Note alternative perspectives and points of view.
11. Point to counter points and inaccuracies in the postings of students during the week.
12. Be creative or offer creative insights when needed.
13. Point out the relationship of upcoming week topic or articles to past lectures or readings.
14. Reflect on the discussion from past weeks; repost prior quotes from others.
15. Discuss the position of a researcher or pioneer in the field (or perhaps even write to him/her);
16. Discuss a recent speech or colloquium you attended related to the week or a visit to a technology center or exhibit.
17. At the end of the week, you might react and reflect on the class discussion that transpired as well as the questions and concerns raised. You might also link to the next week's readings.

3. **Option A. Learning Environment Critique and Analysis (60 points—September 18).**

Conduct an analysis/critique of ONE learning environment of your choosing. This might be a Montessori school, new tech high school, military training setting, adventure camp, theme park, children's museum, university active learning space or innovative classroom, webinar series, online certificate program, summer institute in the mountains, learning program for retired people, online education or training program in YouTube, weekly or monthly educational podcast program, teacher training facility or professional development program, or whatever you find. You decide the environment and age level. The learning environment can be designed for a formal, informal, and/or online instructional setting. You might read about it, watch one or more videos of it, experience it via virtual or augmented reality, or directly observe and perhaps even engage in it. Use the "Learning Environment Analysis Template" available in Dropbox or create your own template (See below for items in the "Learning Environment Analysis Template" for the 3-page single spaced report not counting appendices). Feel free to utilize generative AI tools like ChatGPT or ChatPDF to generate starter text and up to three quotes in your paper as long as they are marked or you have reworded them a cited them properly.

3. **Option B. Silver Lining for Learning (Pandemic Podcasting) Critique and Analysis (60 Points—September 18).**

You can evaluate the learning environment created in my weekly podcast show, Silver Learning for Learning (SLL). When the pandemic started in March 2020, my colleagues (i.e., Chris Dede at Harvard, Punya Mishra at ASU, and Yong Zhao at the University of Kansas and University of Melbourne) and I banded together to offer a

weekly webcast or podcast show on Saturdays called [Silver Lining for Learning](https://silverliningforlearning.org/) (SLL). SLL which opened on March 21, 2020, now has produced 163+ [Episodes](https://silverliningforlearning.org/). SLL is an ongoing conversation on the future of learning with education innovators and education leaders across the globe. Typically, SLL shows are forward looking with the purpose to bring together educational thought leaders, entrepreneurs, and innovators around the world and inspire new educational models and innovations. The guests on SLL have come from all over the world—from highly impoverished settings in Africa, Central America, and Asia, where resources for education can be extremely limited, to contexts that are significantly better off, such as well-resourced educational organizations in Australia, Japan, Italy, Korea, the USA, and the UK. Across the past two years, we find that despite the differences in educational resources, opportunities, accessibility, and overall wealth, innovators have a number of common characteristics such as passion, vision, persistence, purpose, and a deep commitment to making education better. Of course, each SLL show requires much work in contacting, coordinating, blogging, marketing, and hosting. <https://silverliningforlearning.org/>. You can use the “Learning Environment Analysis Template” available in Dropbox or create your own unique podcast environment template. In addition, somewhere in your paper, you should list the SLL videos in which you watched (i.e., a reference section). (See below for items for the 3 page single spaced report not counting appendices). Feel free to utilize generative AI tools like ChatGPT, ChatPDF, or some new AI tool that summarizes videos to generate starter text and up to three quotes in your paper as long as they are marked or you have reworded them a cited them properly.

4. **Option C: Voluntary Services or Materials Analysis (60 Points—September 18).** This option involves using the content of the course to help another person or an entire organization or entity out with the design or evaluation of their learning environment. (See below for items for the 3 page single spaced report not counting appendices).

You will look at and evaluate the following items:

I. Learning Environment Description:

(1) Type of Learning Environment; (2) Learning Environment Setting; (3) Learning Environment Target Audience(s); (4) Overview of Learning Environment Design; (5) Resources/Scaffolds Available to Learners; and (6) Norms and Expectations

II. Task/Activity Description:

(1) Goals/Objectives; (2) Target Audience; (3) Description of Instructional Strategy; and (4) Description of Assessment.

III. Learning Environment Critique

(1) Supports Collaboration; (2) Supports Authenticity; (3) Organized Appropriately; (4) Resources Aligned with Audience; (5) Provides Scaffolding; (6) Provides Multiple Perspectives/Representations; (6) Supports Reflection; and (7) Supports Learner in Defining Meaning;

IV. Task/Activity Critique

(1) Goals/Objectives Appropriate for Audience; (2) Appropriate Assessment (Aligned with Objectives); (3) Authenticity of Task; (4) Opportunities for Collaboration and Reflection; (5) Opportunities to Provide Diverse Perspectives; and (6) Provides Appropriate/Adequate Resources and Multiple Representations:

V. Design is Grounded in Theory and Concepts from Instructional Technology and Educational Psychology

4. **Learning Environment Final Project Skeleton (40 Points—September 18)**. Your final project will involve your visioning of what your ideal learning environment looks like here in the third decade of the 21st Century and then your plans for designing it. Early in the course, I want you to decide on your project and any team members as well as what the tentative key principles for that environment would be. You will list and describe at least eight principles and write a 2 page single spaced draft of a visioning or mission statement, purpose, and audience or stakeholders of that environment. You might also include sample tasks, assessment philosophy, resources, scaffolds, and other relevant items. Your principles might be summarized in a third page appendix.

5. Learning Environment Final Project design prototype (60 Points—November 13)

The focus of the final project will be approved by the instructor in early October as part of your Learning Environment Final Project Skeleton. See a set of reflection questions for this project below. Either individually or in teams of two or three, create a prototype/mockup of a learning environment for a particular audience and setting (formal, informal, nonformal, etc.), and design documents for an instructional task for that learning environment. Project artifacts (which may include a 4 page single spaced report and a summative 5 to 7 minute video presentations, demonstration, or documentary) will be uploaded to a Canvas. The project should consist of the following sections.

- i. Prototype of Learning Environment
 1. Description of learning environment, including setting of learning environment
 2. Prototype or mockup of learning environment design
- ii. Design Documents
 1. Instructional goal
 2. Target audience
 3. Learning objectives
 4. Content outline/instructional strategy
 5. Supports/scaffolds for students
 6. Assessment procedure

Analysis

1. How did you come up with your lesson topic?
2. How did you begin your analysis?
3. What specific analyses did you conduct?
4. How did you conduct each of your analyses (Needs, Target Audience, Job)? What did you do first, second, third....etc.? From where did you gather your information for each? How long did it take you to complete each? What information did you gather in your analyses that you actually used within design and development of the products?

5. Which analysis did you spend the most time on? Why? What impact do you think that had on the design of your lesson?
6. What information did the analyses give you that was most important?
7. Was analysis conducted in any other phase of ADDIE? What phase or phases and how?
8. When conducting your analysis what DID NOT work and how did you work around it?

Design

1. When did you begin designing your lesson?
2. How were your ideas generated?
3. How did the input of an “ID Consultant (me)” impact your designs?
4. What was the easiest part of the design phase?
5. What was the most difficult part of the design phase?
6. How did you decide what information to include/exclude from your lesson?
7. How did you decide the sequencing or structure of your lesson?
8. How did you decide which instructional method would be the most appropriate for your lesson?
9. How did you determine whether or not your design concepts would work best for your target audience?
10. How did you determine the type and number of activities that would be appropriate for your lesson?
11. What else occurred during your design phase that is notable?

Development

1. Describe the process of developing your learning objectives.
2. What did you struggle with the most while writing your learning objectives? How did you overcome the struggles?
3. Describe the process of developing your lesson plan.
4. Why do you think your motivator will be successful in capturing the attention of your target audience?
5. Describe the process of developing your activities.
6. How do your activities reinforce learning?
7. How do your activities prepare for the assessment?
8. How much time did it take to create your objectives? Lesson plans? Activities?
9. How satisfied are you with your lesson as designed and developed?
10. What process did you/could you take to ensure that your lesson is valid?
11. What else occurred during your development phase that is notable?

<i>Design Project Description</i>	
List of Collaborators (if any):	
Brief Description of Learning Environment: <i>Description of K-12, Higher Ed, Workplace, Informal, etc., setting. Description of proposed resources,</i>	

<i>scaffolds, etc. available in learning environment.</i>	
Brief Description of Task/Activity: <i>Description of task/activity, learners, assessment strategies, etc.</i>	

6. Course Super Summary (40 Points—November 13)

Near the end of the semester, you are to write a 1,500-2,000 word (not counting appendices and references) super summary of what was important in this course, at least in terms of the class discussions in Canvas and the optional synchronous sessions (2,500-3,000 word if with a partner or two). Here you must specifically refer to the comments of your peers from four different weeks in the semester. In your paper, you should point out what you learned from the course, how the design of learning environments can be used in your own job setting or educational practices, what concepts are important from this class, what would you do differently, and how you can now use course material when you leave this class? What is the single most important "big idea" from this class? What were the key concepts you grappled with this semester? How has your thinking evolved? Does this type of learning environment seem to be a good match for the kinds of learners you're interested in working with? How might the types of learning environments that you hope to design be used in your current job or in an educational setting, issue, or problem of importance to you (preferably your current or past job). What were the ideas, issues, concepts, facts, figures, diagrams, etc., that struck a chord with you? What did you learn during the semester? How did your thinking change in a particular week or over time? What inspired you? What did you find disappointing? Though not required, it would help if you included a recap table, chart, figure, or some type of summary of key themes, concepts, terms, etc., mentioned in the reflection paper.

Reflection Paper Grading Criteria (50 Points; 10 points each):

1. Relevancy to class: meaningful examples, relationships drawn, interlinkages, connecting weekly ideas.
2. Insightful, Interesting, Reflective, Emotional: honest, self-awareness, interesting observations
3. Learning Depth/Growth: takes thoughts along to new heights, exploration, breadth & depth, growth.
4. Completeness: thorough comments, detailed reflection, fulfills assignment, informative.
5. Connections: linking threads in the discussion, lectures, and readings.

Schedule of Weekly Course Readings and Videos

Weekly Instructional Task: Some weeks have many articles or videos listed. **You only need to read or watch 3 to 4 articles or videos each week. Your choice of which ones.** And you can substitute any book chapter, article, or video you find that you want to read at any time without penalty. You can read or watch them all if you want, but you do not have to. Alternatively, you can skim them all and then reflect or ponder under a shady tree or on your patio or deck in your backyard on why they are all in that particular week. These are all guidelines, not mandates.

Week 1 (August 21): Module #1: Learning Environments Foundations and History

1. Jan Herrington, Ron Oliver, and Thomas C. Reeves (2014). Authentic Learning Environments. In J. M. Spector et al. (Eds.), *Handbook of Research on Educational Communications and Technology*, DOI 10.1007/978-1-4614-3185-5_32
2. Michael J. Hannafin, Janette R. Hill, Susan M. Land, and Eunbae Lee. (2014). Student-Centered, Open Learning Environments: Research, Theory, and Practice. In J.M. Spector et al. (eds.), *Handbook of Research on Educational Communications and Technology*, DOI 10.1007/978-1-4614-3185-5_51.
3. John D. Bransford, Ann L. Brown, and Rodney R. Cocking (Eds.). (2000). *How people learn* (Vol. 11). Washington, DC: National Academy Press.
4. Herrington, J., & Oliver, R. (2000). An instructional design framework for authentic learning environments. *Educational Technology Research and Development*, 48(3), 23-48.
5. Honebein, P. C. (1996). Seven goals for the design of constructivist learning environments. *Constructivist learning environments: Case studies in instructional design*, 11-24.
6. Land, S. M., Hannafin, M. J., & Oliver, K. (2012). Student-centered learning environments: Foundations, assumptions and design. In *Theoretical foundations of learning environments*, 3-25. Routledge.
7. Silver Lining for Learning: Episode 08 (2020, May 8): Rethinking Education with Great Questions, <https://silverliningforlearning.org/episode-08-rethinking-education-with-great-questions/>; Video (1 hour, 4 minutes): <https://youtu.be/beHIZ620HzY>; <https://www.youtube.com/watch?v=beHIZ620HzY&feature=youtu.be>

Week 2 (August 28): Module #2: Learning Theory and Learning Environments

1. Belland, B. R. (2014). Scaffolding: Definition, current debates, and future directions. In *Handbook of research on educational communications and technology* (pp. 505-518). Springer, New York, NY.
2. Brown, J. S., Collins, A., & Duguid, P. (1989). Situated cognition and the culture of learning. *Educational Researcher*, 18(1), 32-42.
3. Lowyck, J. (2014). Bridging learning theories and technology-enhanced environments: A critical appraisal of its history. In *Handbook of research on educational communications and technology* (pp. 3-20). Springer, New York, NY.
4. Silver Lining for Learning (2021, May 1). Episode #56: Welcome to the Wonderful World of Openness (with David Wiley). Available: <https://silverliningforlearning.org/episode-56-welcome-to-the-wonderful-world-of-openness/>; Video (103:09): Silver Lining for Learning, Episode 56: Welcome to the wonderful world of Openness: <https://www.youtube.com/watch?v=H6x9N-vBXp4>

Week 3 (Sept. 4): Module #3: Formal K-12 Learning Environments

1. Watterston, J., & Zhao, Y. (2023). Rethinking the time spent at school: Could flexibility improve engagement and performance for students and teachers?. *Prospects*. <https://doi.org/10.1007/s11125-023-09638-9>
2. Tom Brush et al. (2016). Design and Implementation of a Technology-Supported Socioscientific Inquiry Unit in High School Biology, *International Journal of Designs for Learning*, 7(2), 1-10.

3. Scott Wallace (2017). What will keep the fish alive? Exploring Intersections of designing, making, and inquiry among middle school learners. *International Journal of Designs for Learning*, 8(1), 11-21.
4. John W. Saye & Thomas Brush (2007) Using Technology-Enhanced Learning Environments to Support Problem-based Historical Inquiry in Secondary School Classrooms, *Theory & Research in Social Education*, 35:2, 196-230, DOI: [10.1080/00933104.2007.10473333](https://doi.org/10.1080/00933104.2007.10473333)
5. Fominykh, M., Kakoulli-Constantinou E., Nicolaou A., Perifanou M., Parmaxi A., Soule M.V, Shikhova E., Talmo T.M., and Zhukova D.: Language Teacher Trainer Guide on Digital Competences: Practical instructions and advice on how to organize digital competence training for language teachers (2022). DC4LT Consortium. <https://www.dc4lt.eu/>
6. Kennedy, K., & Archambault, L. (2012). Design and Development of Field Experiences in K-12 Online Learning Environments. *Designing with Sound to Enhance Learning: Four Recommendations from the Film Industry*, 35.
7. Marino, M. T., & Basham, J. D. (2013). Understanding STEM education and supporting students through universal design for learning. *Teaching Exceptional Children*, 45(4), 8-15.
8. Oana Marocico of the BBC (May 27, 2022). The 22-year-old 3D-printing schools, May 27, 2022, (Video 3:35): <https://www.bbc.co.uk/news/technology-61588608>
9. Belinda Luscombe (2022, August 22/29). TIME Magazine. Available: <https://time.com/6205084/phonics-science-of-reading-teachers/>
10. Silver Lining for Learning: Episode 15: Student Voices: Beijing, Hawaii, and Sydney. Available: <https://silverliningforlearning.org/episode-15-student-voice/>; Video (1:02:45): <https://www.youtube.com/watch?v=ZjsqGoG3TW4&feature=youtu.be>
11. Silver Lining for Learning. Episode 20 (2020, August 1). Transforming Education in Australia and Beyond, With Greg Whitby, Sydney, Australia - Executive Director - Catholic Education Diocese of Parramatta, Available: <https://silverliningforlearning.org/episode-20-transforming-education-in-australia-and-beyond/>; Video (1:00:58): <https://youtu.be/FY9h5GnhMBU>
12. Silver Lining for Learning. Episode 96 (March 25, 2022). Transforming Schools to Personalize Education, Available: <https://silverliningforlearning.org/episode-96-transforming-schools-to-personalize-education/>; Video (101:18): <https://www.youtube.com/watch?v=Sqb8ljO59Bk>
13. Silver Lining for Learning. Episode 161 (August 5, 2023). Human Restoration Project: Reimagining Education with Future Forward Thinking. Available: Blog post: <https://silverliningforlearning.org/human-restoration-project-reimagining-education-with-future-forward-thinking/> or at: Video (101:31): <https://www.youtube.com/watch?v=fRVI5ZT1le4>

Week 4 (Sept 11): Module #4: Informal Learning Environments

1. Seth A. Martinez and Justin Whiting. (2021). Designing Informal Learning Environments, In Jason K. McDonald, & West, Richard E. *Design for Learning: Principles, Processes, and Praxis* (1st ed.). EdTech Books. Available: <https://edtechbooks.org/id>
https://edtechbooks.org/id/designing_informal

2. Panel Discussion on Open Publishing moderated by Meina Zhu (2022, September 19). With Panelists: Royce Kimmons, Rick West, Jill Stephaniak, and Torrey Trust, Research and Theory Division of AECT. Vimeo: 1:23:00, Available: <https://vimeo.com/showcase/3316648/video/751242568>
3. Christine Greenhow & Cathy Lewin (2016). Social media and education: Reconceptualizing the boundaries of formal and informal learning, *Learning, Media and Technology*, 41:1, 6-30, DOI: 10.1080/17439884.2015.1064954
4. McKay, C. S., & Glazewski, K. D. (2016). Designing maker-based instruction. In *Instructional-Design Theories and Models, Volume IV* (pp. 145-172). Routledge.
5. Marsick, V. J., & Watkins, K. E. (2001). Informal and incidental learning. *New Directions for Adult and Continuing Education*, 2001(89), 25-34.
6. Daniela Sellmann & Franz X. Bogner (2013) Climate change education: quantitatively assessing the impact of a botanical garden as an informal learning environment, *Environmental Education Research*, 19:4, 415-429, DOI: [10.1080/13504622.2012.700696](https://doi.org/10.1080/13504622.2012.700696)
7. Jeremy Stoddard, Alan Marcus, Kurt Squire, & John Martin (2015). Learning Local Immigration History In and Out of the Museum. *Museum & Society*, 13(2). Article 10. <https://scholarworks.wm.edu/articles/10>
8. Lori Wade (2021). How Social Media is Reshaping Today's Education System. Georgetown University.
9. Prasert Ruannakarn1 & Archanwit Choomponpongsak (2019, October-November). Development in Enhancing Social Skills Program of Non-Formal Education Youth. *Journal of Education Mahasarakham University* 13(4). Retrieved from http://edu.msu.ac.th/journal/home/journal_file/645.pdf
10. Xiujuan Tan, Peishan Chen, & Haiqin Yu, (2022). Potential Conditions for Linking Teachers' Online Informal Learning with Innovative Teaching, *Thinking Skills and Creativity*, 45. doi: <https://doi.org/10.1016/j.tsc.2022.101022>; Available: <https://www.sciencedirect.com/science/article/abs/pii/S1871187122000256>
11. Silver Lining for Learning. Episode #39 (2020, December 12). A Lucky Break or a Break in the Ice: One Person's Journey to Save the Last Ocean; Guest: Cassandra Brooks. Available: <https://silverliningforlearning.org/a-lucky-break-or-a-break-in-the-ice-one-persons-journey-to-save-the-last-ocean/>; Video (1:00:45): Silver Lining for Learning Episode #39: <https://www.youtube.com/watch?v=8c02hYCVkSU>
12. Silver Lining for Learning. Episode 33 (October 31, 2020). Nepali High School Students in MOOCs: Scalable Results Lending to an Optimistic Future, October 24, 2020, Baman Kumar Ghimire and Bishwa Gautam and six Nepali students; <https://silverliningforlearning.org/nepali-high-school-students-in-moocs-scalable-results-lending-to-an-optimistic-future/>; Video (59:05): <https://youtu.be/4k6pMe4XnP8>
13. Silver Lining for Learning. Episode #42. Outreach of the Penguins: Spending Time with Educator Jean Pennycook; Available: <https://silverliningforlearning.org/episode-42-outreach-of-the-penguins-spending-time-with-science-educator-jean-pennycook/>, Video (1:02:51): <https://www.youtube.com/watch?v=FDgiK2wGBx4>

Week 5 (Sept 18): Module #5: Authentic Learning Environments in Higher Education

1. Tony Herrington, & Jan Herrington, J. (2005). *Authentic learning environments in higher education*. IGI Global. (Note: This is a free book. Select the chapters that you want to read.)
2. Christiane Reilly and Thomas Reeves (2022, May 12). Refining active learning design principles through design-based research. *Active Learning in Higher Education*, <https://doi.org/10.1177/14697874221096140>; Available: <https://journals.sagepub.com/doi/full/10.1177/14697874221096140>
3. Jeffrey Selingo, Cole Clarke, David Noone, & Amy Wittmayer (2021). The Hybrid Campus: Three Major Shifts in the Post-COVID campus. Deloitte Insights
4. Silver Lining for Learning Episode #49 (2021, March 6). HyFlex Course design: Conditions, Controversy & Craftsmanship. Available: <https://silverliningforlearning.org/episode-49-the-pillars-of-hyflex-course-design-conditions-controversy-and-craftsmanship/>; Video (1:01:15): Silver Lining for Learning Episode #49: <https://youtu.be/hwy1ym6nz4A>
5. James Nottingham's Learning Challenge (Learning Pit) animation (11:30) (2015, November 23): <https://www.youtube.com/watch?v=3IMUAOhuO78>

Week 6 (Sept 25): Module #6: Learning Environments in the Workplace

1. John Garrick (1998). Informal learning in corporate workplaces. *Human Resource Development Quarterly*, 9(2), 129-144.
2. John Garrick (1998). Informal learning in corporate workplaces. Unmasking human resources development. Chapter 3: Work as a learning environment: Unmasking the language of HRD. NY: Routledge.
3. Zitter, I., & A. Hove (2012). Hybrid Learning Environments: Merging Learning and Work Processes to Facilitate Knowledge Integration and Transitions. OECD Education Working Papers, No. 81, OECD Publishing. <http://dx.doi.org/10.1787/5k97785xwdfv-en>
4. Pieter De Vries and Heide Lukosch (2009). Supporting informal learning at the workplace. *International Journal of Advanced Corporate Learning (iJAC)*, 2(3), 39-44.
5. Wang, M., Vogel, D., & Ran, W. (2011). Creating a performance-oriented e-learning environment: A design science approach. *Information & Management*, 48(7), 260-269.
6. Ed Catmull (2008, September). How Pixar fosters collective creativity. *Harvard Business Review*. <https://hbr.org/2008/09/how-pixar-fosters-collective-creativity>
7. Gary P. Pisano (2019, January-February). The hard truth about innovative cultures. *Harvard Business Review*. Available: <https://hbr.org/2019/01/the-hard-truth-about-innovative-cultures>
8. Silver Lining for Learning (2021, October 9). Episode #78 | Designing the Next Education Workforce. Available: <https://silverliningforlearning.org/episode-78-designing-the-next-education-workforce/>; Video (101:01): Episode #78 Silver Lining for Learning, Episode 78: Designing the Next Education Workforce: <https://www.youtube.com/watch?v=cYQha0db08o>
9. Silver Lining for Learning Episode #44 (2021, January 30). Reflections on the 60 Year Curriculum, Creative Credentialing, and the Continuum College in a Post COVID-19 World: Tapping the Brain of Rovy Branon; Available: <https://silverliningforlearning.org/reflections-of-the-60-year-curriculum-creative->

[credentialing-and-the-continuum-college-in-a-post-covid-19-world-tapping-the-brain-of-rovy-branon/](#); Video (1:01:08): Silver Lining for Learning Episode #44: <https://youtu.be/Cn67RyCiUn8>

Week 7 (Oct 2): Module #7: Active Learning Spaces in Higher Ed (all IU) (Task #3 & #4 due)

1. Morrone, A. S. (Ed.). (2019). Introduction to special issue on physical spaces. *Journal of Teaching and Learning with Technology* (JoTTLT), 8(1). Retrieved from <https://scholarworks.iu.edu/journals/index.php/jotlt/issue/view/1899/Journal%20of%20Teaching%20and%20Learning%20with%20Technology%20%282019%29>
2. Basdogan, M. & Morrone, A. S. (2021). Coffeehouse as classroom: Examining a flexible and active learning space from the Pedagogy-Space-Technology-User perspective. *Journal of Learning Spaces*, 10 (2). <http://libjournal.uncg.edu/jls/article/view/2119>
3. Zhu, M. & Basdogan, M. (2021). Examining social learning in an active learning classroom through the Pedagogy-Space-Technology framework. *Journal of Learning Spaces*. <http://libjournal.uncg.edu/jls/article/viewFile/2025/1523>
4. Morrone, A. S., & Roman, T. (2019). Creating a research-based ALC master plan. *EDUCAUSE Review (Data Bytes)*. Retrieved from <https://er.educause.edu/blogs/2019/5/creating-a-research-based-alc-master-plan>
5. Morrone, A. S., Flaming, A., Birdwell, T., Russell, J., Roman, T., & Jesse, M. (2017). Creating active learning classrooms is not enough: Lessons from two case studies. *EDUCAUSE Review*. Retrieved from <https://er.educause.edu/articles/2017/12/creating-active-learning-classrooms-is-not-enough-lessons-from-two-case-studies>
6. Basdogan, M. (2021, March 30). Idea Garden: An immersive informal learning space for STEM education. *EDUCAUSE Review*. <https://er.educause.edu/articles/2021/3/idea-garden-an-immersive-informal-learning-space-for-stem-education#fnr5>
7. Basdogan, M. (2021, January 27). Indiana University's collaborative theatre: Perspectives on innovation in classroom design. *EDUCAUSE Review*. <https://er.educause.edu/blogs/2021/1/indiana-universitys-collaborative-theatre-perspectives-on-innovation-in-classroom-design>
8. Basdogan, M. (2021, July 01). Biophilic classroom design: A synthesis of the literature. *Mosaic Initiative*. <https://blogs.iu.edu/mosaiciu/2021/06/>
9. Basdogan, M. (2021, January 01). Collaboration Café research: How faculty teach in an active learning classroom. *Mosaic Initiative*. <https://blogs.iu.edu/mosaiciu/2021/01/01/collaboration-cafe-research-project-faculty-use-of-classroom-space/>
10. Lee, D., Arthur, I. T., & Morrone, A. S. (2015). Using video surveillance footage to support validity of self-reported classroom data. *International Journal of Research & Method in Education*, 40(2), 154-180. <https://doi.org/10.1080/1743727X.2015.1075496>
11. Lee, D., Morrone, A. S., & Siering, G. (2017). From swimming pool to collaborative learning studio: Pedagogy, space, and technology in a large active learning classroom. *Educational Technology Research and Development*, 66, 95-127. DOI: [10.1007/s11423-017-9550-1](https://doi.org/10.1007/s11423-017-9550-1)

12. Silver Lining for Learning (2022, September 17). Episode #121. "*Active Learning...Space: The Final Frontier*" (Mosaic Project, Indiana University with Dean Stacy Morrone, Tracey Birdwell, and Mark Russell. Blog post and video: <https://silverliningforlearning.org/episode-121-active-learning-space-the-final-frontier/>

Video in YouTube (102:13): <https://www.youtube.com/watch?v=8Xm1-AypXrY>

The Mosaic Initiative supports active and collaborative learning through instructional support, research, collaborations, and classroom design. <https://mosaic.iu.edu/>, <https://citl.indiana.edu/teaching-resources/teaching-strategies/active-learning-classrooms/index.html>; <https://learningspaces.iu.edu/design/mosaic-initiative.htm>

Week 8 (October 9): Module #8: Wellbeing and Belongingness

1. Swan, K., Chen, C.C., & Bockmier-Sommers, D.K. (2020). Relationships between Carl Rogers' person-centered education and the community of inquiry framework: A preliminary exploration. *Online Learning*, 24(3), 4-18. <https://doi.org/10.24059/olj.v24i3.2279>
2. Heejung An, Gerardine Mongillo, Woonhee Sung, & David Fuentes (2022). Factors Affecting Online Learning During the COVID-19 Pandemic: The Lived Experiences of Parents, Teachers, and Administrators in U.S. High-Needs K-12 Schools, *Journal of Online Learning Research*, 8(2), 203-234
3. Aslan, S., Li, Q., Bonk, C. J., & Nachman, L. (2022). An overnight educational transformation: How did the pandemic turn early childhood education upside down? *Online Learning*, 26(2), 52-77. DOI: <http://dx.doi.org/10.24059/olj.v26i2.2748>
4. Joyce Hwee Ling Koh and Ted Frick (2010). Implementing Autonomy Support: Insights from a Montessori Classroom. *Macrothink Institute*. DOI: <https://doi.org/10.5296/ije.v2i2.511>; Available: <https://www.macrothink.org/journal/index.php/ije/article/view/511>
5. Jessica Winter (2022, March 3). The Miseducation of Maria Montessori. *The New Yorker*. Available: <https://www.newyorker.com/books/under-review/the-miseducation-of-maria-montessori>
6. Sara P. Suchman (2022). National Center for Montessori in Public Sector. Letter to the New Yorker. <https://www.public-montessori.org/letter-to-the-editor/>
7. Cristina De Stefano (book translated by Gregory Conti) (2022). *The Child Is the Teacher: A Life of Maria Montessori*. <https://otherpress.com/product/the-child-is-the-teacher-9781635420845/>; <https://www.amazon.com/Child-Teacher-Life-Maria-Montessori/dp/1635420849>
8. Silver Lining for Learning (2022, August 20). Episode 118 | Early Childhood at Scale: Sesame Street as a Model; Available: <https://silverliningforlearning.org/episode-118-early-childhood-learning-at-scale-sesame-street-as-a-model/>
9. Silver Lining for Learning Episode #10 (2020, May 18): Crisis, drift, and new paradigms for public education, Dr. Shawn Loescher, Ed.D.; <https://silverliningforlearning.org/episode-10-crisis-drift-and-new-paradigms-for-public-education/>; <https://www.youtube.com/watch?v=MAfeQLtnY68>
10. Silver Lining for Learning (2023, August 19). Episode 163 | Contemporary Education and Changing Culture in Ukraine. Available: <https://silverliningforlearning.org/episode-163-contemporary-education-and-changing-culture-in-ukraine/>

Week 9 (October 16): Module #9: Mindfulness, Open Thinking, and Radical Creativity

1. Insung Jung & Jihyun Lee (2022). Open thinking as a learning outcome of open education: Scale development and validation. *Distance Education*, 43(1), 119-138, DOI: [10.1080/01587919.2021.2020620](https://doi.org/10.1080/01587919.2021.2020620)
2. Gruber, N., Henriksen, D., & Mishra, P. (in press). Creativity, Mindfulness and High-Quality States of Attention at Work with Dr. Erik Dane. *TechTrends*, <https://rdcu.be/cROU3>
3. Henriksen, D., Richardson, C., Gruber, N., & Mishra, P. (in press). The uncertainty of creativity: opening possibilities and reducing restrictions through mindfulness. In G. Jaeger & R. Beghetto (Eds.). *Uncertainty: A catalyst for creativity, learning and development*. Springer.
4. Richardson, C., Henriksen, D., Mehta, R., & Mishra, P. (2022). Seeing things in the here and now: Exploring mindfulness and creativity with Viviana Capurso. *TechTrends*, 1-7.
5. Henriksen, D., Heywood, W., & Gruber, N. (2022). [Meditate to create: Mindfulness and creativity in an arts and design learning context](#). *Creativity Studies*, 15(1), 147-168.
6. Creely, E., Henriksen, D., Crawford, R., & Henderson, M. (2021). Exploring creative risk-taking and productive failure in classroom practice. A case study of the perceived self-efficacy and agency of teachers at one school. *Thinking Skills and Creativity*, 42, 100951.
7. Henriksen, D., Richardson, C., & Shack, K. (2020). [Mindfulness and creativity: Implications for thinking and learning](#). *Thinking Skills and Creativity*, 37, 1-10.
8. Henriksen, D., & Gruber, N. (2022). Mindful and creative: Building educational systems for individual and community wellbeing. *TechTrends*, 65(3), 246-252.
9. Henriksen, D., & Shack, K. (2020). [Creativity-focused mindfulness for student well-being](#). *Kappa Delta Pi Record*, 56(4), 170-175.
10. Henriksen, D., Creely, E., Henderson, M., & Mishra, P. (2021). [Creativity and technology in teaching and learning: A literature review of the uneasy space of implementation](#). *Educational Technology Research & Development*. 10.1007/s11423-020-09912-z
11. Episode 137 | Mental Health, Mindfulness, and the Movement Toward Social-Emotional Learning. Available: <https://silverliningforlearning.org/episode-137-mental-health-mindfulness-and-the-movement-toward-social-emotional-learning/> or at Video: 1:02:20: <https://www.youtube.com/watch?v=GjVq0Q2LMYM>

See also: Danah Henriksen, PhD, Associate Professor of Leadership & Innovation, Arizona State University, Mary Lou Fulton Teachers College, <http://www.danah-henriksen.com>, Danah.Henriksen@asu.edu

12. What is radical creativity? <http://radicalcreativity.weebly.com/what-is-radical-creativity.html>
13. Community and Space: <http://radicalcreativity.weebly.com/community.html>
14. Autonomy and Risk: <http://radicalcreativity.weebly.com/autonomy.html>
15. Riikka Mäkiköskela and Tuomas Auvinen (July 22, 2022). Radical creativity is one of the three cross-cutting approaches in our living strategy. Available: <https://www.aalto.fi/en/our-strategy/radical-creativity>

16. Silver Lining for Learning Episode 64 (2021, June 26). Self-directed learning with Peter Gray and Bria Bloom, Available: <https://silverliningforlearning.org/episode-64-self-directed-learning-with-peter-gray-and-bria-bloom/>; Video (104:40): Silver Lining for Learning, Episode 64: Self-directed learning, Play & unschooling <https://www.youtube.com/watch?v=R9ju9QA11EA>
17. Silver Lining for Learning. Episode 63. (2021, June 10). Let children play with Pasi Sahlberg & Alex Harper. Available: <https://silverliningforlearning.org/episode-63-let-children-play-with-pasi-sahlberg-alex-harper/>; Video (102:08): <https://www.youtube.com/watch?v=UrcwTIDmM3Q>

Week 10 (October 23): Module #10: Technology Enhanced Learning and Microlearning

1. Technology Integration Matrix (TIM): <https://fcit.usf.edu/matrix/> and TIM: Goal-Directed Learning: https://fcit.usf.edu/matrix/wp-content/uploads/2019/05/2019_Goal-Directed_Descriptors-US.pdf
2. Lisa J. Anderson and Cindy Bertram, October 20, 2022, Lessons from Teaching and Learning at Stanford During the COVID-19 Pandemic, a report from Stanford Digital Education, examines Stanford’s experiences
Stanford Pandemic Ed Review, 2020-21;
https://issuu.com/stanforddigitaleducation/docs/stanford_pandemic_ed_review_2020-21
 - a. Jeffrey Young, Stanford Report Says Emergency Remote Instruction Led to ‘Shift’ in University’s Identity, EdSurge
<https://www.edsurge.com/news/2022-10-20-stanford-report-argues-emergency-remote-instruction-led-to-shift-in-university-s-identity>
3. Diana Henderson, Daniel Jackson, David Kaiser, S. P. Kothari, & Sanjay Sharma (2022, September 27). Ideas for Designing: An Affordable New Educational Institution, MIT. Available: https://www.projectnei.com/files/ugd/d859ad_d6ca8f62511b48b0a21ec6eba8e5db84.pdf
 - a. Jeffrey Young (2022, September 23). MIT Professors Propose a New Kind of University for Post-COVID Era, EdSurge. Available: <https://www.edsurge.com/news/2022-09-28-mit-professors-propose-a-new-kind-of-university-for-post-covid-era>
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15. Silver Lining for Learning Episode 82 (2021, November 6). Life and Learning in the Metaverse; Available: <https://silverliningforlearning.org/episode-82-life-and-learning-in-the-metaverse/>; Video (1:00:22) Episode 82 | Life and Learning in the Metaverse: <https://www.youtube.com/watch?v=wbSJH1dhnX4>

Week 15 (November 27-December 4): Module #15: Trends and Issues (Optional Task #7 Final Project Sharing)

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7. Stephen Downes, September 21, 2022, ([Video](#) (1:03:35); [Slides](#): "The Future of Learning Technology: 10 Key Tools and Methods." Hosted by Contact North Webinars on Teaching Online. Available: <https://teachonline.ca/webinars>; https://teachonline.ca/sites/default/files/webinar-series/slides/2022_09_21_-_the_future_of_learning_technology.pdf