



INSTRUCTIONAL DESIGN & TECHNOLOGY

IDT 200X INSTRUCTIONAL DESIGN MODELS

Weekly Activities and Readings

Feel free to download and use the following checklist to assist with completing all readings, discussions and course activities.

Module 1: Learning Evolution

- Readings & Multimedia:
 - Review Syllabus
 - Review Signature Assignment
 - Online course pedagogy and the constructivist learning model
<http://dx.doi.org/10.3998/jsais.11880084.0001.104>
 - Learning design: Reflections upon the current landscape
<https://journal.alt.ac.uk/index.php/rlt/article/view/1364>
 - Read at least 2 of the following
 - Learning Progressions: Road Maps for 21st-Century Students—and Teachers
https://ssir.org/articles/entry/learning_progressions_road_maps_for_21st_century_students_and_teachers
 - What a 21st-Century Education Looks Like
<http://www.teachhub.com/teaching-strategies-what-21st-century-educator-looks>
 - Instructional Design & Learning Theory
<http://www.csudh.edu/dearhabermas/lrnthry01bk.htm>
- Discussion
 - Discussion 1: Introduction and Personal Learning Philosophy

Module 2: ADDIE Design Model

- Readings & Multimedia:
 - ADDIE video overview
 - Designing for Engagement: Using the ADDIE Model to Integrate High-Impact Practices into an Online Information Literacy Course <http://files.eric.ed.gov/fulltext/EJ1125456.pdf>
 - The ADDIE Model
<https://opentextbc.ca/teachinginadigitalage/chapter/6-5-the-addie-model>
 - Creating a Training Program Using the ADDIE Model
http://connect.ala.org/files/45988/free_learning_handouts_pdf_99152.pdf
 - Instructional Design: ADDIE Model
<https://www.uwb.edu/learningtech/faculty-resources/instructional-design/addie>
- Activity
 - Discussion 2: Personal ADDIE Model Mindmap

Module 3: Dick and Carey Design Model

- Readings & Multimedia:
 - Dick and Carey Video overview
 - Dick and Carey Design Model
<https://id-models.wikispaces.com/Dick+and+Carey+Design+Model>
 - Review at least 2 of the following
 - The Usage of E-Learning Model to Optimize Learning System In Higher Education by Using Dick and Carey Design Approach
<http://e-journal.unair.ac.id/index.php/JISEBI/article/view/1457>
 - An Axiomatic Approach to Instructional System Design Based on Dick and Carey
https://books.google.com/books?hl=en&lr=&id=6njqDQAAQBAJ&oi=fnd&pg=PA33&dq=dick+and+carey&ots=TTXte-0SKw&sig=NRijy2Srir_iv3Wn_qJ_-Drlul#v=onepage&q&f=false
 - Dick and Carey's Model
http://www.personal.psu.edu/wxh139/Dick_Carey.htm
 - Learning Progressions: Road Maps for 21st-Century Students—and Teachers
https://ssir.org/articles/entry/learning_progressions_road_maps_for_21st_century_students_and_teachers
 - Instructional Design & Learning Theory
<http://www.csudh.edu/dearhabermas/lrnthry01bk.htm>
- Activity
 - Dick and Carey Podcast

Module 4: Understanding by Design

- Readings & Multimedia:
 - Understanding by Design, Moodle, and Blended Learning: A Secondary School Case Study
http://jolt.merlot.org/vol11no1/Florian_0315.pdf
 - Understanding by Design Framework
http://www.ascd.org/ASCD/pdf/siteASCD/publications/UbD_WhitePaper0312.pdf
 - *Review at least 2 of the following*
 - Understanding by Design in a Nutshell
<https://swcarpentry.github.io/instructor-training/files/papers/wiggins-mctighe-ubd-nutshell.pdf>
 - Overview of Understanding by Design and the Design Template
<http://www.grantwiggins.org/documents/UbDQuikvue1005.pdf>
 - Understanding By Design: Complete Collection
http://digitalcommons.trinity.edu/educ_understandings
 - Understanding By Design
<http://ecosensing.org/wp-content/uploads/2015/11/Understanding-by-Design-Expanded-2nd-Edition.pdf>
- Activity
 - Complete Understanding by Design template

Module 5: Rapid eLearning Design

- Readings & Multimedia:
 - Rapid eLearning Advantages video
 - Rapid eLearning Disadvantages video
 - Interactive materials development using the rapid e-learning method
<http://oasis.col.org/handle/11599/2616>
 - *Review at least 2 of the following*
 - How Rapid eLearning Development Provides Additional Value to an eLearning Project
<https://elearningindustry.com/how-rapid-elearning-development-provides-additional-value-to-an-elearning-project>
 - Rapid E-Learning and Desktop Virtualization In Education
http://www.academia.edu/9724436/Rapid_E-Learning_And_Desktop_Virtualization_In_Education
 - Becoming a Rapid E-Learning Pro
edu.net.vn/media/p/435025/download.aspx
- Activity
 - Rapid Resolution document

Module 6: Instructional Systems Development

- Readings & Multimedia:
 - ISD podcast
 - Instructional Design in Higher Education
http://intentionalfutures.com/reports/instructional_design/files/Instructional%20Design%20in%20Higher%20Education%20Report.pdf
 - *Review at least 2 of the following*
 - What is ISD?
http://www.hpsi.bz/HPSI_ISD_article.html
 - ISD -- A Systems Approach to Training
<https://www.lions.odu.edu/~dnethert/Courses/oted400/isd.pdf>
 - Designing Instructional Systems
<https://isd-resource-space.wikispaces.com/file/view/Designing+Instructional+Systems.pdf>
- Activity
 - Career Industry Inventory Survey

Module 7: Learning Objectives

- Readings & Multimedia:
 - Blooms Taxonomy video
 - Understanding Learning Objectives video
 - *Review at least 2 of the following*
 - Writing Learning Objectives
http://tlc.zmml.uni-bremen.de/resource_files/resources/191/Writing_Learning_Objectives.pdf
 - Bloom's Taxonomy
<http://iacbe.org/pdf/blooms-taxonomy.pdf>
 - Guidelines for Writing Learning Objectives
http://www.aafp.org/dam/AAFP/documents/cme/faculty_development/LearningObjectivesGuidelines.pdf
 - Setting Meaningful and Measurable Learning Objectives: The importance of goals
<https://www.efrontlearning.com/blog/2017/05/how-set-measurable-learning-objectives-goals.html>
- Activity
 - Write appropriate goals and learning objectives

Module 8: Adaptive Learning

- Readings & Multimedia:
 - How can artificial intelligence be applied to learning? video
 - What is adaptive learning? video
 - Adaptive learning scales one-to-one mastery learning video
 - Learning science drives MHE adaptive video
 - Mastery meets personalization and scale video
 - What are the learning science theories embedded in the algorithms? video
 - Watch: “What is the Theory of Deliberate Practice?” Part A video
 - Watch: “What is the Theory of Deliberate Practice?” Part B video
 - What is the Ebbinghaus Forgetting Curve? Video
 - How does adaptive learning benefit different stakeholders across the education lifecycle? Video
 - What are the benefits of adaptive for corporate learning? video
 - Applying the Science of Learning to Adaptive Technology video
 - Read “What is Adaptive Learning Anyway?”
 - Read: Learning to Adapt 2.0: The Evolution of Adaptive Learning in Higher Education (Tyton)
 - Read: “Predictive Analytics Primer” (HBR)
 - Read: “Promise and Peril of Predictive Analytics in Higher Education”
 - Read: Adaptive Learning Technology Insights (McGraw-Hill Education)Read: Adaptive Learning: The Best Approaches We’ve Seen So Far
 - Read: What is the Difference Between Artificial Intelligence and Machine Learning
 - Read: Adaptive Learning Software is Replacing Textbooks and Upending Education
- Discussion
 - Power of Adaptive Learning
- Supplemental Readings (*not required*)
 - 7 Things You Should Know About Adaptive Learning
<https://library.educause.edu/resources/2017/1/7-things-you-should-know-about-adaptive-learning>
 - White Paper: Adaptive Learning Systems
<https://pdfs.semanticscholar.org/4e57/2108fa1591d21d980a6efe78673edc48c652.pdf>
 - The Future of Learning: Personalized, Adaptive, and Competency-Based
<http://www.gettingsmart.com/wp-content/uploads/2011/08/D1-white-paper-the-future-of-learning-personalized-adaptive-and-competency-based.pdf>
 - Elements of an Adaptive Learning System
http://apasseducation.com/wp-content/uploads/2017/06/Elements_of_an_Adaptive_Learning_System-1.pdf