Course Mapping for Designing Adaptive Learning in General Psychology

Jaesoon An & Enoch Park

UNC Charlotte Digital Learning Forum 2019 Feb. 8, 2019

### Who we are



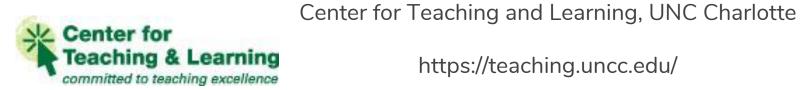


Jaesoon An

Senior Instructional Designer

Quality Matters / Online Learning Specialist

Enoch Park



https://teaching.uncc.edu/



## What is your role on campus, and what comes to your mind when you hear Adaptive Learning?

Faculty

- Staff
- Administrator
- Others

# **Diversity of Adaptive Learning Systems**

What is adaptive learning?

Adaptive learning, also known as adaptive teaching, is **an educational method which uses computer algorithms to orchestrate the interaction with the learner and deliver customized resources and learning activities to address the unique needs of each learner**. In professional learning contexts, individuals may "test out" of some training to ensure they engage with novel instruction. Computers adapt the presentation of educational material according to students' learning needs, as indicated by their responses to questions, tasks and experiences.

Wikipedia, 2/8/2019

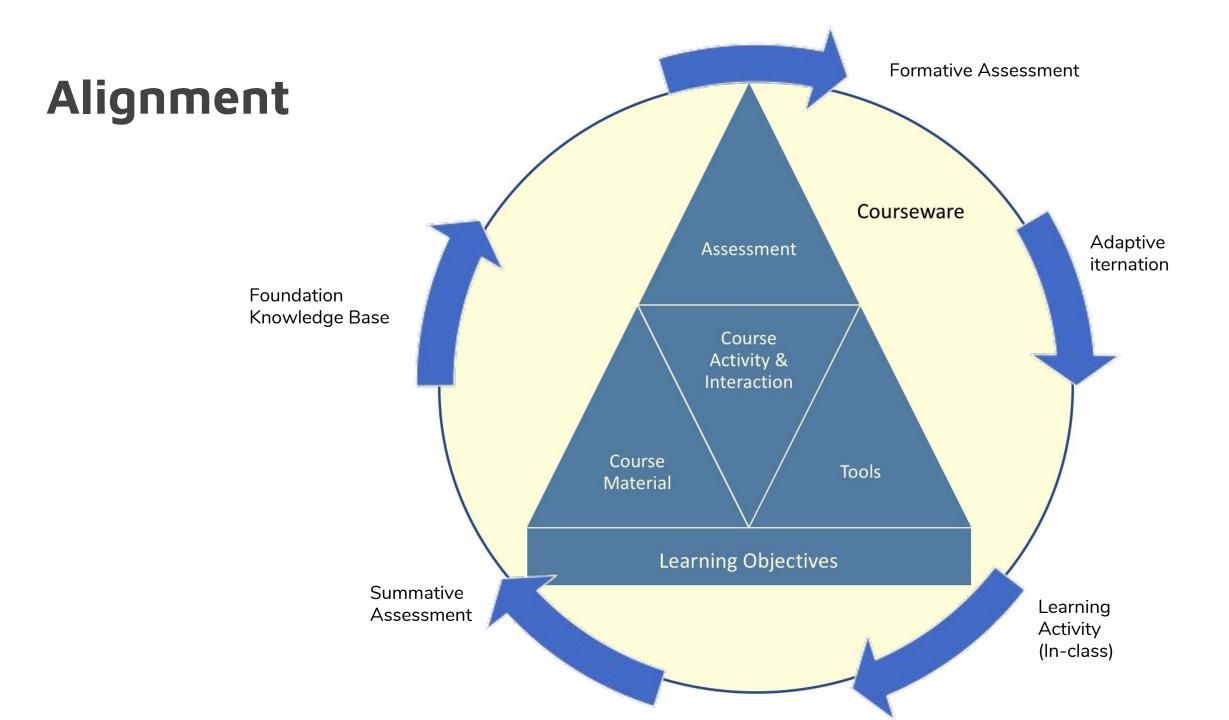
Wide range of adaptivity

- CogBooks
- Realizelt
- Macmillan LaunchPad

## Uniqueness of adaptive learning design

- Value: Personalized, mastery learning in large-enrollment courses
- System complexity
  - System as a "platform" Learning curve and system training
  - Data analytics Plan ahead the data use
- Team approach
  - Faculty team as a SME team, Vendor as a system expert, & Instructional designer for the support of...
- Design first Course mapping and alignment
- Start small, reflect, and continuous improvement Expectations

#### **Design First - Course Map and Alignment** STORAGE L.S. HANDREN 4191 AREA 2 1 15T 12T 12T 12T 1T 1T OF INTERNING CORR LOBBT 181 (170) (13) 106 14) E I furnight of the CORRIDOR (IA) OFFICE MEN LEARNING TUTTIT LIT 1917 176 18 10) 21-51 121012161 8 (10) 7 EXST. WOMEN WOMEN EXS U.S.K.3 1515 4 221-6" 513 (124A) 111/11/2 0 (5 N 9'-4" 5'-8 111-5" UR B1-11" VIDEO CONTROL 123 EXISTING 125 125 MECHNICAL CORRIDOR 175 1201 127 5 1 128 131-711 MEN 1281-10 õ 1 1A 26 https://pixabay.com/en/blueprint-ruler-architecture-964630/ F.D



# Our design experience: The course

### PSYC 1101 General Psychology

### Team of four faculty members

- QM Faculty Fellow lead the teaching team
- Review, analyze, and align course contents and instruction plan as SME
- Prepared detailed course map

#### **Instructional Designer**

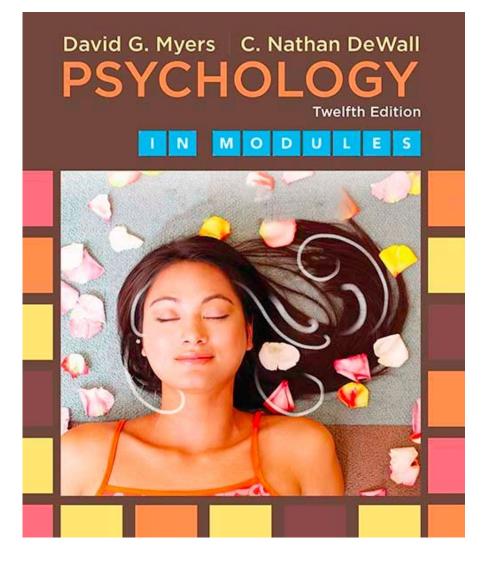
- ID consultation on course design
- LMS training / Courseware integration

### **Courseware Provider**

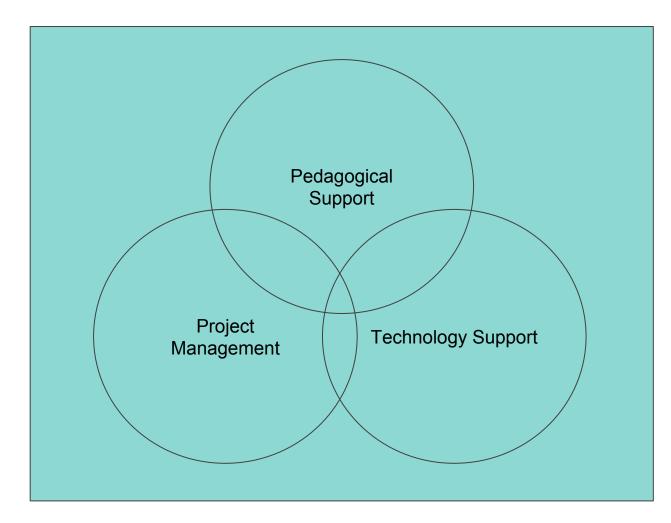
- Platform training
- Export analytics data

### **CTL Tech Team**

• Integration of multiple technologies



### **Instructional Design Support**



### Design support: Project Management

Support like a course development project

- Facilitate project meetings
  - Kickoff, Milestones, Completion, & Reflection
- Establish milestones and timeline
  - System training
  - Course design mapping
  - Canvas training & Canvas course development
- Facilitate team collaboration
  - Google folder Resources and meeting notes
  - Canvas development course
  - Email

 We discussed using Packback Curiosity scores as "extra credit challenge" for each unit exam (students who earn scores in top 20% of class during 3 chapters, get 2 points on following unit exam)

- Every week we highlight a top Packback student question during lecture
- We also want to make sure we cover at least one concept, mnemonic, acronym,

example, etc. in lecture that is not covered in the text. We should make this explicit so students understand why lecture is so key.

- The "Assess your Strengths" activity could be great to assign as it aligns with CO5
- Student Preface: Time management can we assign this? Also aligns with CO5

#### Meeting 1, 5/29/2018, 1-2pm - Kickoff

Resources by Jaesoon

Google Folder for the project: PSYC 1101 Adaptive Learning Course Design

- Course Design Map for Planning-PSYC1101-2018Summer
   Monting Notes PSYC1101-2018Summer
- Meeting Notes-PSYC1101-2018Summer

Request form for a Canvas development course: https://canvas.uncc.edu/course-requests

How to Write Learning Objectives:

https://docs.google.com/document/d/1EJYUVqSUwWS4BgqH8xbTMVUk93D-Kk9Gu0yu23LRP A4/edit?usp=sharing

Active Learning Resources: Active Learning Basics (Atkins Library Guide) http://guides.library.uncc.edu/activelearning

#### Active Learning Ideas:

https://docs.google.com/document/d/1m3mle\_8iivpMzv2f25DwMDOS46WN2n5gm0c954Jhn6k edit2usp=sharing

#### Timeline:

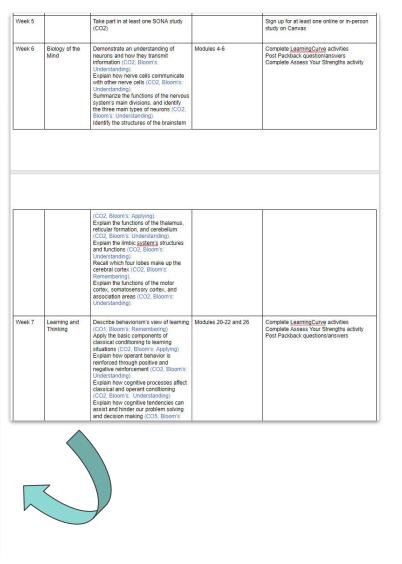
- 1. June 11, Noon Course Design Map
- 2. June 28, 1:00-2:30pm, Kennedy 221 Canvas workshop
- 3. August 1 Canvas course completed

## Design support: Pedagogical Support

### Support like a blended course design

- How to write learning objectives
- Active learning ideas
- How to do course mapping
- QM course design standards
- QM course template

+ Week 5 - MEMORY	● + :
Week 5 Overview-2	0 :
Memory Slides Week 5.pptx	0
Boll Everywhere 9.17 Sep 17, 2018   6 pts	0 :
Week 5 Activities	0 :
EearningCurve Module 24. Storing and Retrieving Memories Sep 16, 2018   10 pts	0 :
EarningCurve Module 23. Studying and Encoding Memories Sep 16, 2018   10 pts	0 1
EarningCurve Module 25. Forgetting, Memory Construction, and Improving Memory Sep 16. 2018   10 pts	0 :
E Sesses Your Strengths: How Might You Improve Your Memory? Oct 1. 2010   5 pts	•
Week 6 - CONSCIOUSNESS     Week 6 Overview	• + :
Week 6 Activities	0 1
EarningCurve Module 7. Basic Consciousness Concepts	0 :
LearningCurve Module 8. Sleep and Dreams 5-g-23.2018   10 pt	•
LearningCurve Module 9: Drugs and Consciousness 5up 23, 2018   10 pt	•
E 📴 Assess Your Strengths: Are You Sleep-Deprived? How Can You Improve Your Sleep?	0 :
Week 7 - BIOLOGY OF THE MIND	• + :
Biology of the Mind w poll.pptx	0 1
Week 7 Overview	0:
Week 7 Activities	0 :
LearningCurve Module 4. Neural and Hormonal Systems	0 :



## Design support: Technology Support

Support like a Courseware System Integration with LMS

- Feature overview by vendor
- Analytics feature overview by vendor
- Integration with Canvas by CTL and vendor
- Importing question banks by CTL
- Canvas training for course development by CTL

🔀 LaunchPad	System check failure, see details below.	Jassoon An 🗸	Help 🗸	
< MENU	Fall 2018 Course PSYC 1101 - O'Reilly - Section 001			Q
	▶ Part 8. Learning		Oct 14 - Jan 01 Pant Due	
Home	▼ Part 9. Memory		Sep 16 - Jan 01 Past Due	G
eBook Gradabook Gradabook Catendar	Part 9. Asymptotic           Part 9. Asymptotic	s sense of self that extends		U I D E S
57	Part 9 Introduction			
Resources	Module 23. Studying and Encoding Memories		Sep 18 - Jan 01 Paot Due	
<u>_</u>	Module 24. Storing and Retrieving Memories		Sep 16 - Jan 01 Past Due	
Instructor Console	Module 24 Practice Quiz		Jan 01 Paot Due	
Welcome Page	Module 24. Storing and Retrieving Memories			
	LearningCurve Module 24. Storing and Retrieving Memories (Approx 15 Mins If Reading Completed in Advance)	10 pta	Sep 15 Peat Due	
Preview as Student	Module 25. Forgetting, Memory Construction, and Improving Memory		Sep 18 - Jan 01 Pest Due	
	Minstructor Resources	(Hidden)		
			Dec 01 - Jan 01	

dule 24. Storing a	nd Retrieving M	emories	About LearningCurve Preview as a Stud	dent
Target Score Con	npletion		Topic Performance: All Students	
Target Score: 300 pts Edit Target	0	<ul> <li>Total Students (231)</li> <li>Started (231)</li> <li>Completed (228)</li> </ul>	Topics: 2 Edit Topics	
curcharger				
Activity Completio	on Roster		Topic Performance Details	асу
	on Roster	Q		
Activity Completion	On Roster Questions	Q Completion/Points	Accura  Storage	%
Activity Completio	Questions	Completion/Points	Accura     Storage     77     Retrieval	%

