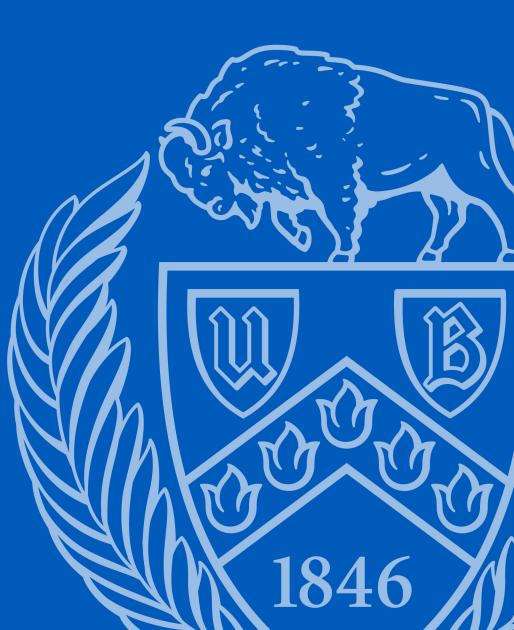


TEAM BASED LEARNING (TBL)



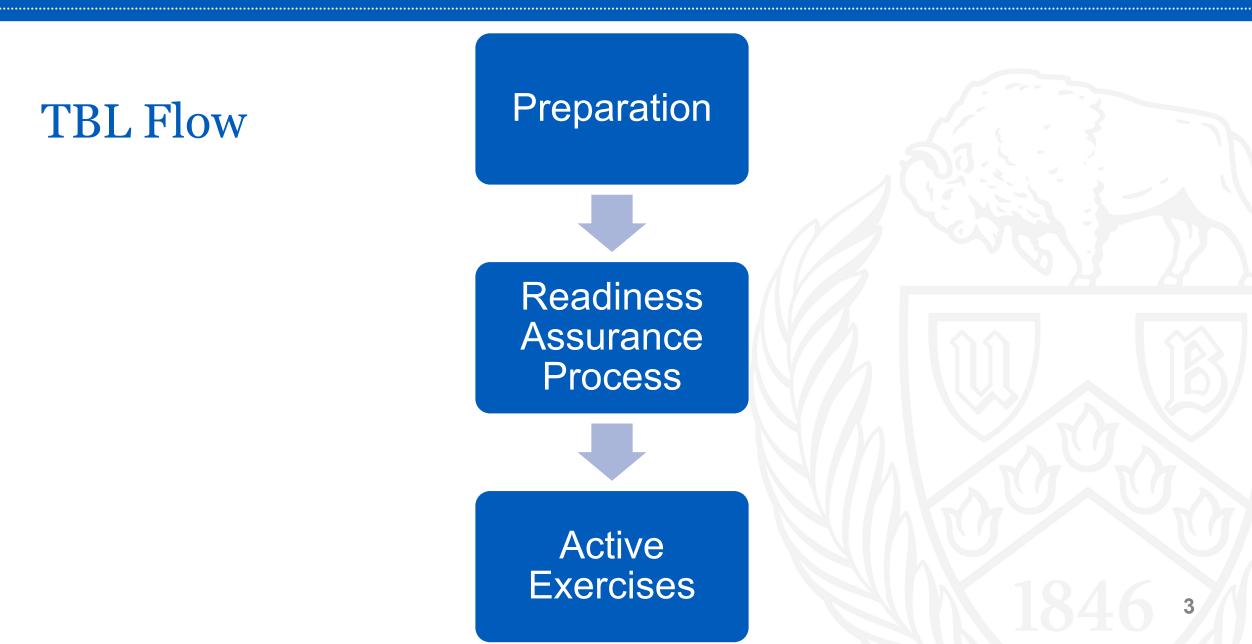


Definition of TBL

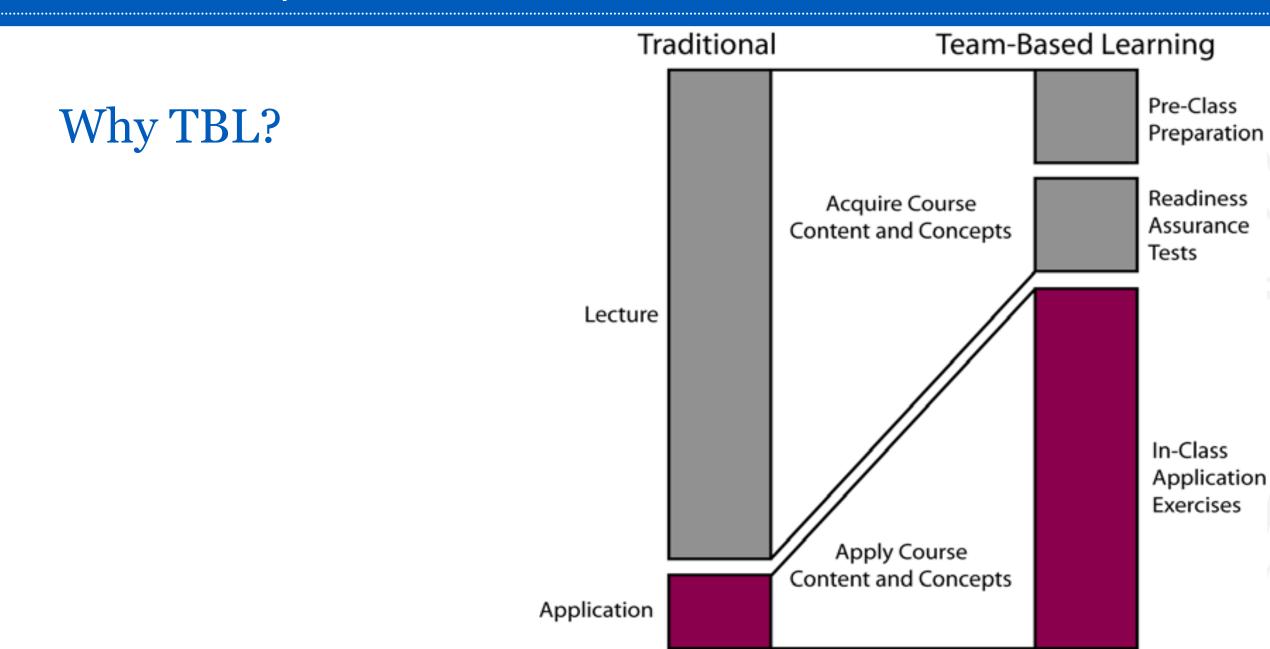
 A special form of collaborative learning using a specific sequence of individual work, group work and immediate feedback to create a motivational framework in which students increasingly hold each other accountable for coming to class prepared and contributing to discussion

> Michael Sweet, PhD University of Texas-Austin





University at Buffalo School of Pharmacy and Pharmaceutical Sciences

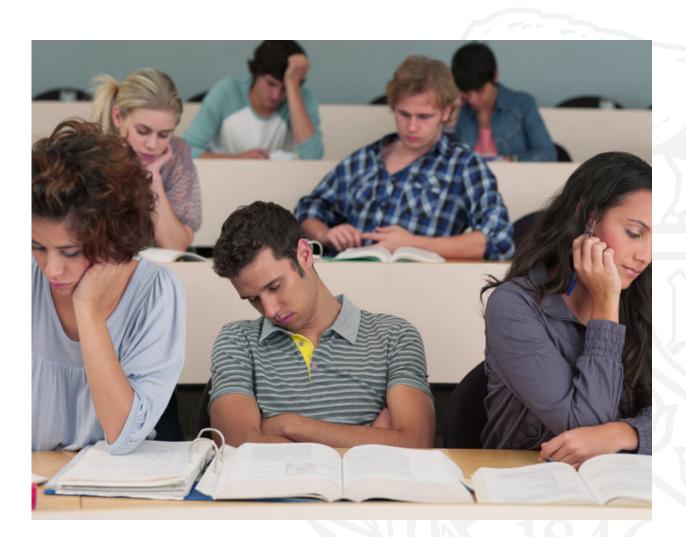




Why TBL?

• Because we want this...

• Not this...





Why TBL?

1998 study by Richard Hake

- 4458 students in 48 courses
- He found that students taught with TBL exhibited learning gains almost two standard deviations higher than those observed in the traditional courses (0.48 +/- 0.14 vs. 0.23 +/- 0.04).



4 key principles

- Large teams are required
 - Diverse
 - Permanent
- Student accountability
 - Pre-class preparation
 - Contribution to team success
- Students make complex decisions
 - Must require application of key concepts
 - Reported in simple form
- Frequent and timely feedback



7 core TBL components

- 1. Team Formation
- 2. Readiness Assurance Process (RAP)
 - 1. Individual Readiness Assurance Test (IRAT)
 - 2. Group (Team) Readiness Assurance Test (GRAT)
- 3. Immediate Feedback
- 4. Sequencing of in-class problem solving
- 5. 4 "S" structure
- 6. Incentive structure
- 7. Peer evaluation



Principle 1: structuring teams

- Random groups of 5-7 students
- Groups will be utilized between multiple courses
 - Pharmacotherapeutics (PT)
 - Patient Assessment
 - Pharm Care
 - Pathophysiology
- New groups made annually





Core components: Team formation



Principle 2: student accountability

- Pre-reading(s) will be assigned
 - Journal articles
 - Book chapters
 - News articles
- Individual Readiness Assurance Tests (IRAT)
- Contributions to team success on Group Readiness Assurance Tests (GRAT)
- Contributions to team Application Exercises (AEs)
 - Mostly cases
- Peer assessments from team members





Principle 3: complex decisions

• Activities progress through bloom's level



4 "S" structure:

Significant problem Same problem Significant answer Simultaneous reporting

Core Components: Sequencing | 4 "S" structure 11



Principle 4: frequent and timely feedback

- Readiness Assurance Process (IRAT/GRAT)
- Application Exercises
 - Discussion of the cases
- Peer Evaluation





mechanics

Name Subject SCRATCH OFF COVERING TO				
Α	В	С	D	Score
1.				
2.				
3.				
4.		2019132		

IF-AT Forms



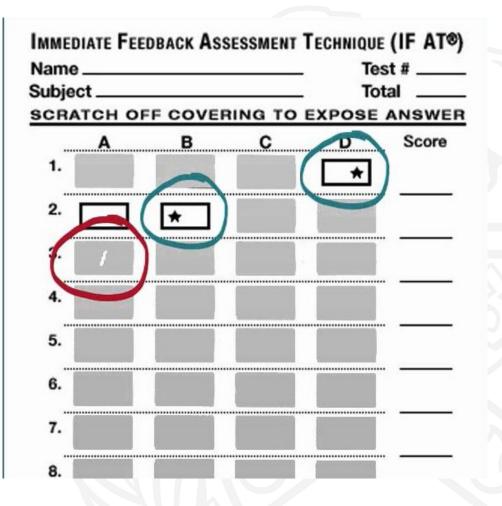


Scoring the "IF-AT" form

- Correct on first try?
- Correct on second try?
- Correct on third try?
- Correct on fourth try?

1 Point 1/2 Point 1/4 Point 0 Points

https://www.youtube.com/watch?v=z70_H-DBBq0





Attendance Policy for IRAT/GRAT classes

- If an individual has an <u>unexcused absence</u> from a class period where IRAT/GRATs are given, they will receive a <u>zero grade</u> for that IRAT and GRAT scores.
- If the <u>absence is excused</u>, they will receive the grade from their team's GRAT as their IRAT grade and receive the teams GRAT score.
- There will be no make-up offerings for IRAT/GRAT work.



Team Discord

- You are expected to use inter-personal skills to work together with your team members
- Much like how you will interact with other health care professionals on teams in hospitals or outpatient clinics when you are on IPPE's, APPE's and as PharmDs
- If your team is dysfunctional → confront the problem first, then speak with the Course Coordinator



Peer Assessment

- Peer assessment helps you prepare to assess peer pharmacists, technicians or others who you will manage.
- Giving your fellow classmates a perfect score when their contribution does not merit it does not help that person change behavior and harms the team.
- Some courses use **forced scoring**
 - You cannot give all students in team a perfect 10 at least one student must be scored below 10 and one student above 10



You might feel like...

- "You'll be teaching yourself"
 - To some extent you are...for that topic! We don't teach using TBL during every class everyday
 - However...active learning is the best way to remember information long-term (not just for the exam)
 - We CANNOT teach you everything, we equip you with the tools to be a good critical thinker
- "It's so much extra work outside of the classroom"
 - For every 1 hour in the classroom (1 credit course), you should be spending 2-3 hours outside the classroom on preparation and studying
 - 18 credit hours = 36 54 hours outside of class preparing/studying
 - Faculty are conscience of this and try not to overburden you

