



Presenter Disclosure Information

I have no financial relationships with any commercial interest related to the content of this activity to disclose.



Objectives

- Discuss the creation of an integrated systems block curriculum from the perspective a basic medical scientist.
- Describe the challenges for a basic scientist in designing integrated courses.
- · Identify resources that are helpful.
- Describe how subject matter can be chosen and prioritized.
- Provide specific strategies for educators to design or refine their own curriculum.



Scenario

As a Basic Science Course Director for discipline X, you have been asked to participate on a curriculum renewal workgroup. The charge to the workgroup is to review and revise the preclinical curriculum and design an integrated curriculum.

You are not sure what this entails.



Define: Integrated Curriculum

Integrative

- "...connecting skills and knowledge from multiple sources and experiences; applying theory to practice in various settings;"

Huber, M. T., Hutchings, P., & Gale, R. (2005). Integrative Learning for Liberal Education. peerReview, Summer/Fall.

Integrated curriculum

 refers to a non-compartmentalized approach to basic science learning

Smith SR Med Health R I. 2005 Aug;88(8):258-61

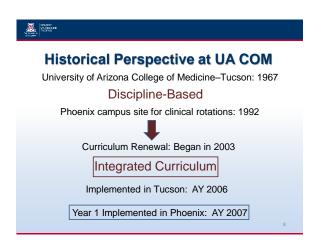


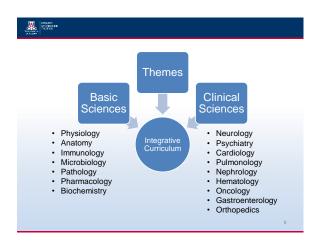
There is No One Way To Integrate

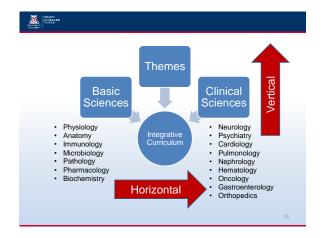
Each medical school needs to select methods appropriate for its own goals, structure, and constraints.

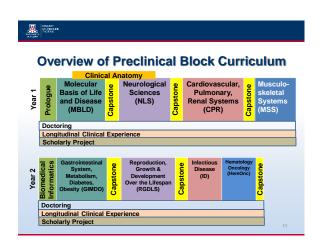
Interdisciplinary integration in medical education theory and method



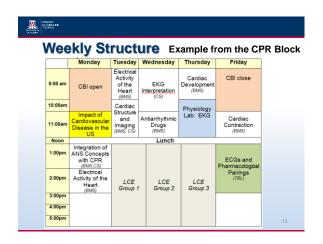


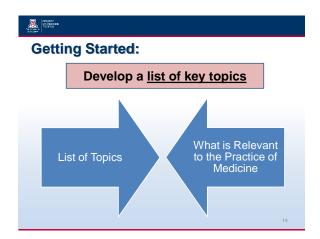














Seek A Clinical Co-Director!

- · Surround yourself with bright people!
- · Start building a team
 - Heads of other disciplines
- Librarian
 - Aware of the curriculum and notify you of pertinent information

. -



Resources

- · National Guidelines
 - 1. AAMC Medical School Objectives Project https://www.aamc.org/initiatives/msop/
 - 2. USMLE Step 1 content outline http://www.usmle.org/step-1/
 - Discipline-based societies (American Physiology Society)

16



Resources

Textbooks – Scrutinize and compare table of contents



• Utilize curriculum sharing with other schools

THE EXAMPLE OF CONTROL OF THE CONTRO

Get Clinician Input

- · Circulate your list to practicing clinicians
 - Seek out a resourceful person in the administration unit who can identify clinicians in the area
- · Continue to modify your list

18



At the Same Time, You Should be:

- · Writing objectives, goals and/or outcomes
- · Choosing textbook or other resources
- · Drafting a syllabus

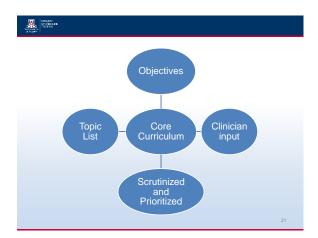
19



Choosing Subject Matter and Prioritizing

- Director is not necessarily expert at all content
 - Seek clinical input
 - Ask for recommendations
 - Audits of disciplines
- As you bring in good teachers, get their input on additional content
- · Doesn't all have to go in preclinical years

20





Scheduled Meetings

- · Theme directors meeting
- Block, Course, Theme Subcommittee meeting
- Curriculum Committee meeting final approval

22



Preparing for Class Sessions

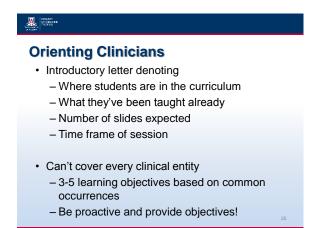
Teaching Format	Teaching Methods T	Use of echnology
Large Group	Interactive Lecture Team Learning	Audience Response System
Small Group	PBL Case-based	Videos
Independent Learning	Podcast Voice-over PPT Online module	Camtasia Embedded test Hyperlinks
Simulation	High-fidelity Low-fidelity Computer-based	SimMan Online Module



Orienting Clinicians to Teach in the First Two Years

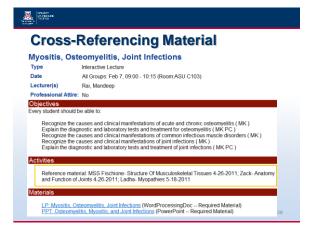
- Clinicians teach differently than basic scientists
 - Teach from a practice-based perspective
- Role model the competencies
- · Provide faculty development

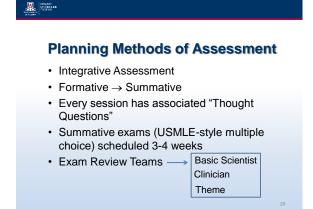
24















Curriculum Evaluation

- Curriculum work group formed to review performance:
 - Taking into account
 - · Exam statistics
 - · Student evaluations
 - · Block director self study
 - · Student focus group meeting
- Recommendations approved by curriculum committee for improvement the following year



Maintaining Relationships

- · Provide feedback
 - Not only from student evaluations, but on exam question editing and results



Challenges and Resolutions

- · Stubborn resistance
 - Be willing to change the paradigm
 - Be willing to compromise
- · Cover material in less time
 - Provide means for self-study
- · Scheduling
 - Flexibility vs firmness
 - · Need both



Challenges and Resolutions

- · Do you need the expert in the field?
 - Engage primary care physicians
- · Receiving materials late
 - Establish expectations and deadlines clearly and early
 - May have to send several reminders to get materials on time



Challenges and Resolutions

- · No shows
 - Develop a teaching contingency plan
- · Clinician turn-over
 - Keep a file of contacts
- · Too many cameos Work toward consistency
 - Encourage participation in more than 1 session
 - Continue to engage the good teachers

ONLESS: OF MARKET

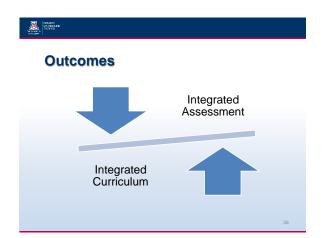
Challenges and Resolutions

- Sequencing
 - Many different ways; continue to refine
- · Choosing an appropriate reference textbook
 - Many are discipline based
- · Exam question writing
 - Training clinicians and other faculty to write USMLE style questions



Challenges and Resolutions

- · Uncomfortable faculty
 - Teaching outside their comfort zone
 - Build relationships
- · Communication between disciplines
 - Encourage discussion of topics in the context of health and disease
- · Tracking content
 - Build a curriculum management system





Summary

- · Allow plenty of time
- · Engage many people
- · Utilize all available resources
- Link objectives, content, teaching methods to optimize learning
- · Create integrative assessments
- · Continue to develop and refine
- · Always be open to new ideas

Perspective: Deconstructing Integration:
A Framework for the Rational Application of Integration as a Guiding Curricular Strategy
Blan Coldman, ERO, and W South Schoolh, MD, MPH
Avoid Med. 2018 729-734.
Provides an organizational framework for curricular integration from the program level to the course level to the session level.

The integration ladder: a tool for curriculum planning and evaluation

Ronald M Harden

Medical Education 2000;34:551–557

Provides a framework based on degree of integration presented over a continuum.