

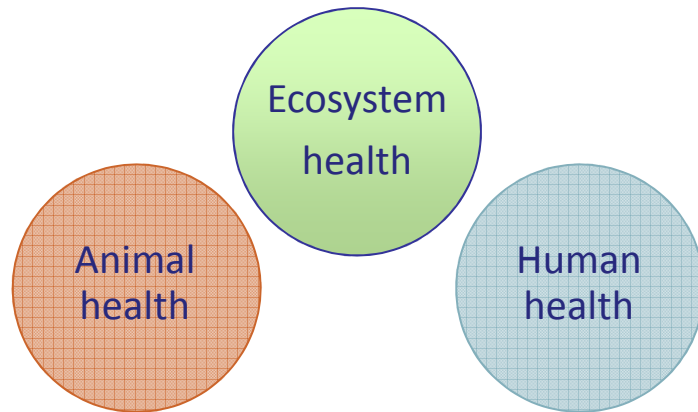
Using a competency-based enterprise architecture for teaching and learning to support One Health education in the classroom and the field

Susan Albright, [Siobhan Moran](#)



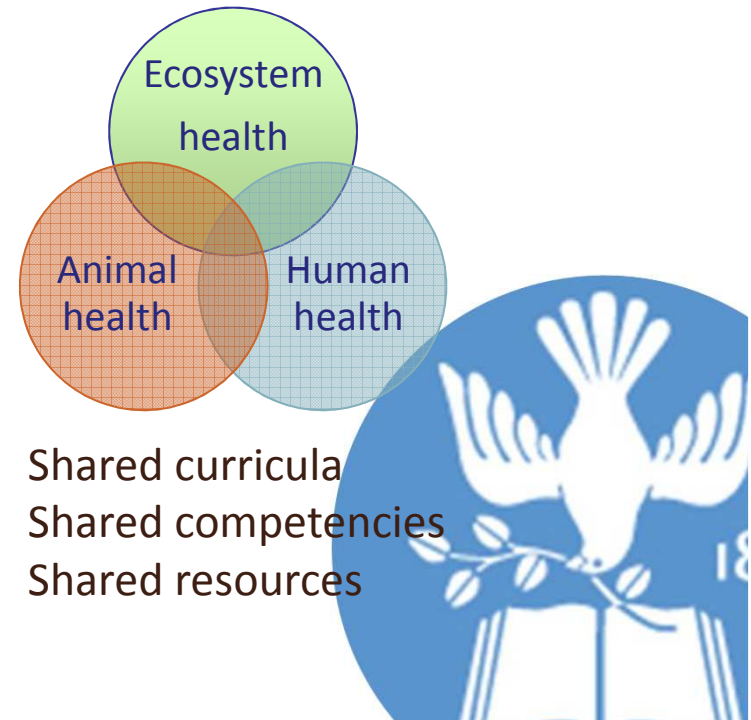
Health education

Now (disciplinary “silos”)

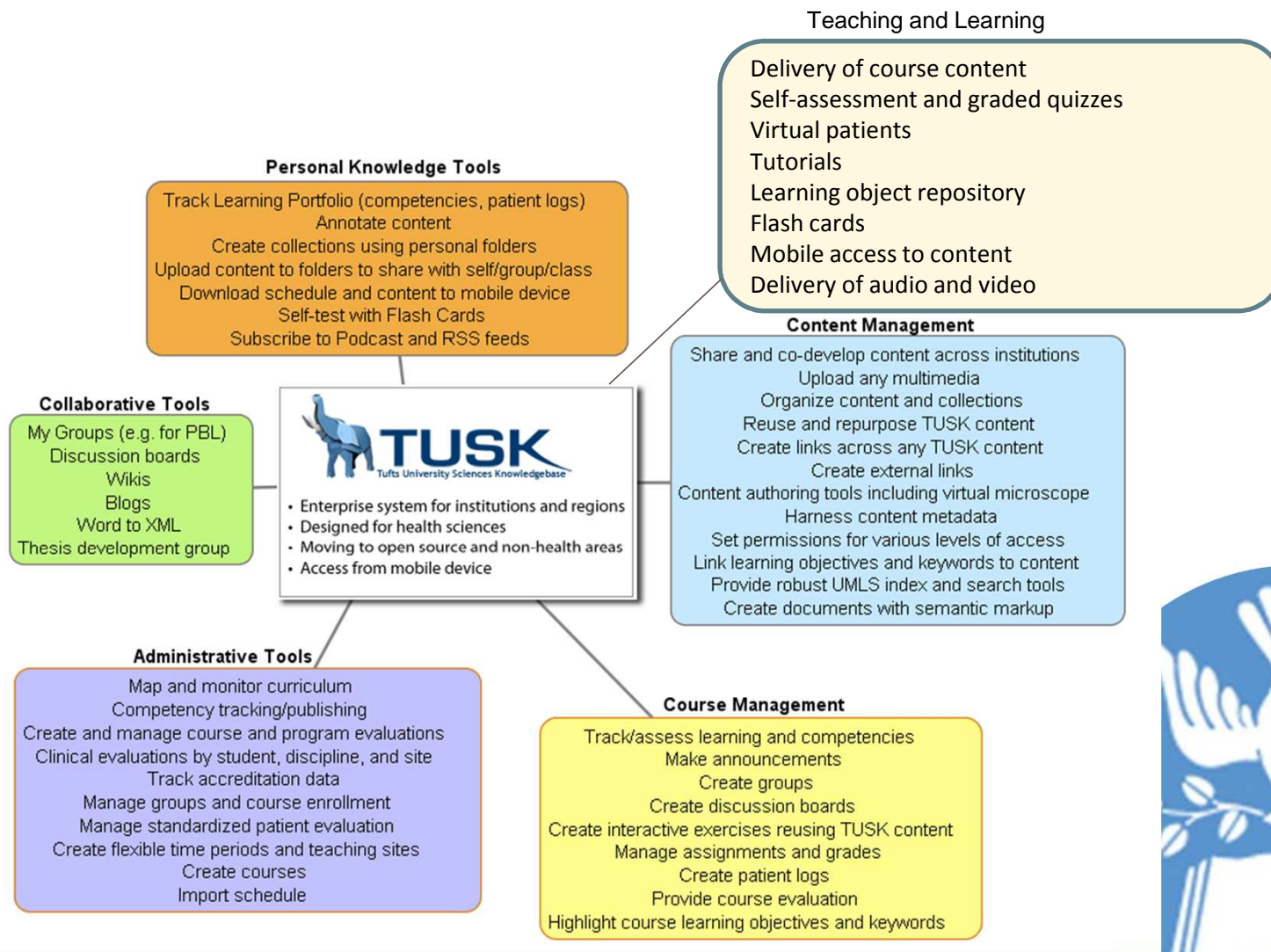


Separate curricula
Separate competencies
Separate resources

Future (“One Health”)



Shared curricula
Shared competencies
Shared resources



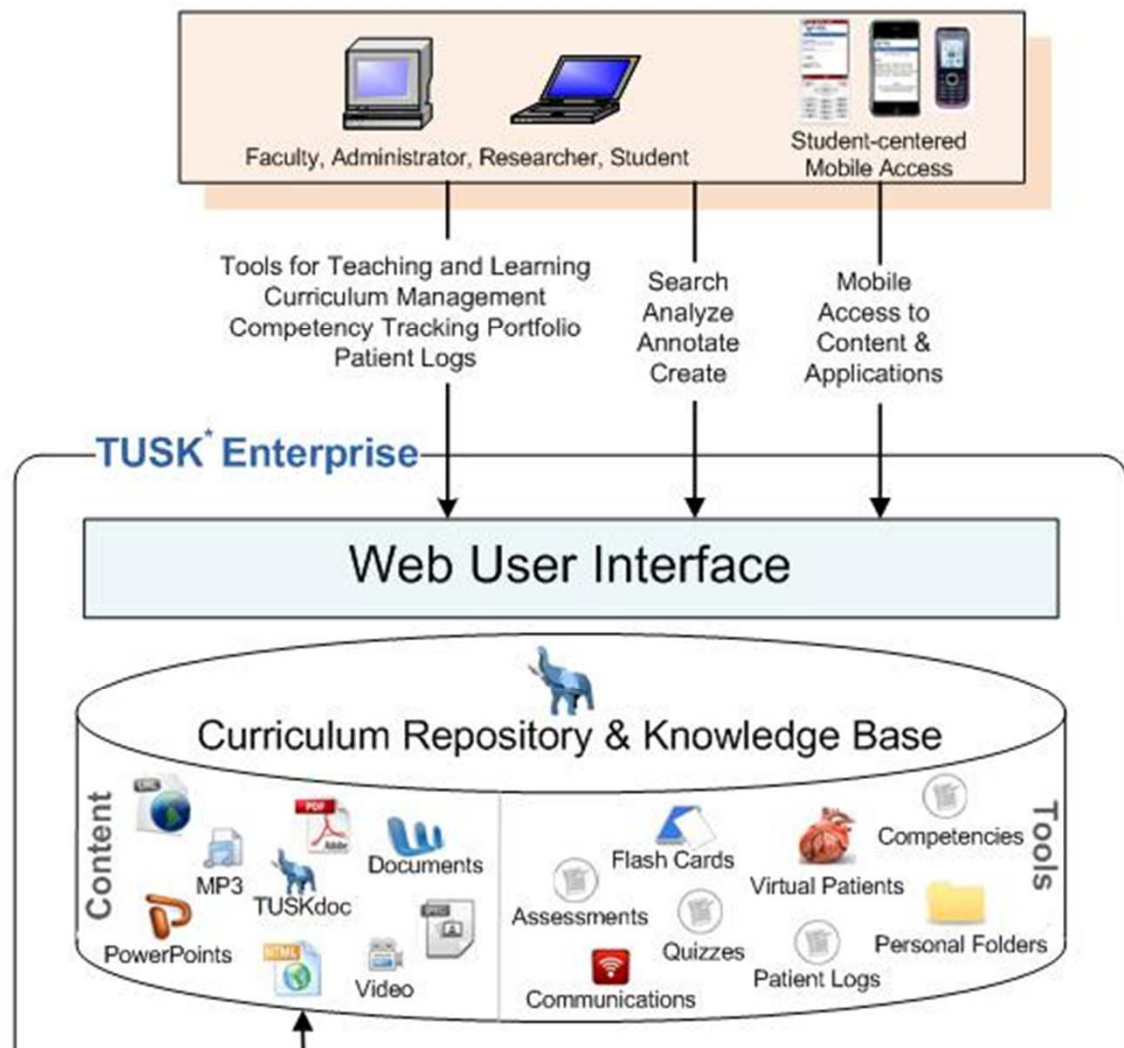
TUSK to support One Health education

- Tailored content management
- Search, reuse, re-purpose
- Discussion across schools/disciplines
- Tracking competencies



Tailored content management





Slide Collection



Individual Slide



Case Overview: The purpose of this case study is to gain a broad understanding of the biology, treatment, prevention and epidemiology associated with "fever in the field". Presenting with such a fever is often indicative of common infectious diseases that may occur in tropical locations.

Objectives: After completing this case, the student should be able to distinguish malaria from other infectious diseases that may present with similar symptoms.

The student should have a general idea of the epidemiology of malaria.

The students should have a basic knowledge of the parasitology and pathophysiology of malaria in order to gain an understanding of how the infectious disease is transmitted and subsequently how this infection affects the body.

Understanding treatment options and preventative interventions are important components of eradicating present and future occurrence of malaria. Students should be aware of such treatment plans and preventative measures.

Chief Complaint - (PREVIEW)

Submit

You are working in a health clinic in the town of Siuna, a city of Nicaragua. As a volunteer, you wanted to assist local residents and see what life is like in other countries. Although you've only been here for a few days, the hospitality and friendliness of the Nicaraguan people is overwhelming. Many different people have come into the clinic seeking assistance. There have been locals that come in with the common cold, as well as tourists who have the stomach flu.

Today, a young coffee farmer from Coperna comes into your clinic after feeling sick for the past 10 days. He introduces himself as Jose and tells you that he's been feeling tired, his muscles ache, his joints are sore, and he's had a fever for the past few days. Unable to continue working, he decided to come to the clinic to get better.

What would you write down on Jose's chart as his chief complaint?

Map of Nicaragua

Image Zoom



Search, reuse, re-purpose



Tufts | OneHealth
UNIVERSITY

SEARCH RESULTS




Keyword [Refine Search](#)
[New Search](#)
[View Past Searches](#)

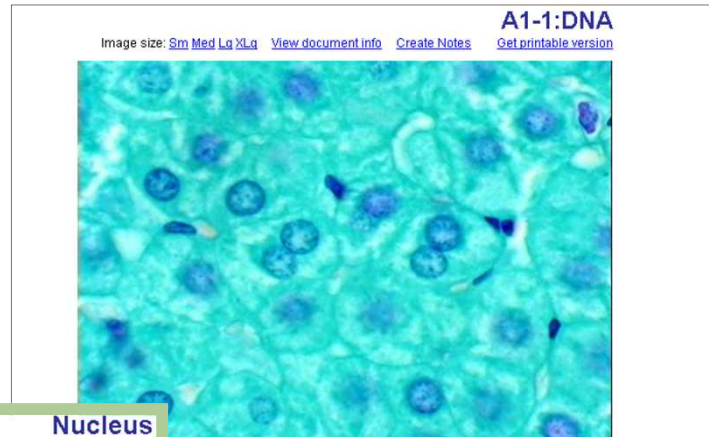
Include matching UMLS concepts

► Keyword = [emerging infectious disease]

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Displaying 1 - 10 of 856 results

Type	Document	Authors	Course	Linked Meetings	School
	Emerging & Re-Emerging Threats Infectious Disease ID: 954639 Created: 2010-02-10 Modified: 2010-02-10 Parent content: Global Health - Lecture Slides		HCOM504 (Bradshaw) Intro to Medicine		PHPD
	Emerging & Re-Emerging Threats Infectious Disease ID: 814971 Created: 2009-04-21 Modified: 2009-04-21 Parent content: Session 13-Global Health - Lecture Slides		HCOM504 (Bradshaw) Intro to Medicine		PHPD
	EMERGING INFECTIOUS DISEASE TAKE HOME POINTS ID: 1098102 Created: 2010-11-21 Modified: 2010-11-21 Parent content: 2010-2011 M13 Syllabus		Medical Microbiology/Infectious Disease		Medical
	EMERGING INFECTIOUS DISEASE TAKE HOME POINTS ID: 1098103 Created: 2010-11-21 Modified: 2010-11-21 Parent content: EMERGING INFECTIOUS DISEASE TAKE HOME POINTS		Medical Microbiology/Infectious Disease	Emerging Infections	Medical
	Emerging Infectious Disease Surveillance & Control ID: 995867 Created: 2010-04-15 Modified: 2010-04-15 Parent content: Disease Surveillance - Lecture Slides		Public Health		Veterinary



Nucleus

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tion & Fast Green

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Linked Documents

Type	Document
	Nucleus, Organ...
	A1-1:Nuclei, Liver, Feulgen Rxn
	A1-5:Nuclei, Liver, Feulgen Rxn
	A3-1:Nuclei, Liver, Tol. Blue

Feulgen Rxn

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Linked Documents

Type	Document
	A1-1:DNA

Authors

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Cytology A

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Thomas F. Linsenmayer, Ph.D.

Linked Documents

Type	Document
	A1-1:DNA
	A1-1:Liver, Feulgen & Toluidine Blue
	Light Micrograph of Liver
	Higher Magnification of Liver Cells

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EXPORT COURSE

Determine Course Span (Optional)

Start Date: 

End Date: 

1. Select course to export

IMPORT COURSE

Course Content Package:

3. Import to new system

SELECT EXPORTED CONTENT

Select Course Content

2. Select content to export

<input checked="" type="checkbox"/>	Content Title	Action
<input checked="" type="checkbox"/>	 Ophthalmology Syllabus	preview
<input checked="" type="checkbox"/>	 Veterinary Ophthalmic Images [Set 1 - Disc 1]	preview
<input type="checkbox"/>	Lecture Slides	
<input type="checkbox"/>	 Macropalpebral fissure	preview
<input type="checkbox"/>	 Entropion. lower-lateral eyelid	preview
<input checked="" type="checkbox"/>	 Hotz-Celsus entropion surgical repair	preview
<input type="checkbox"/>	 Neonatal entropion—Shar pei puppy	preview
<input type="checkbox"/>	 Tacking sutures—temporary entropion repair	preview



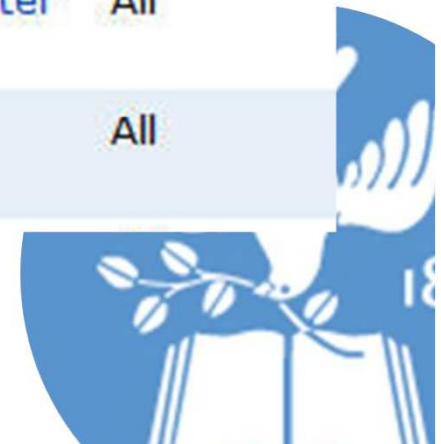
MANAGE DISCUSSIONS

Time Period: Fall 2007 (2007-2008)

Change Time Period: ▼

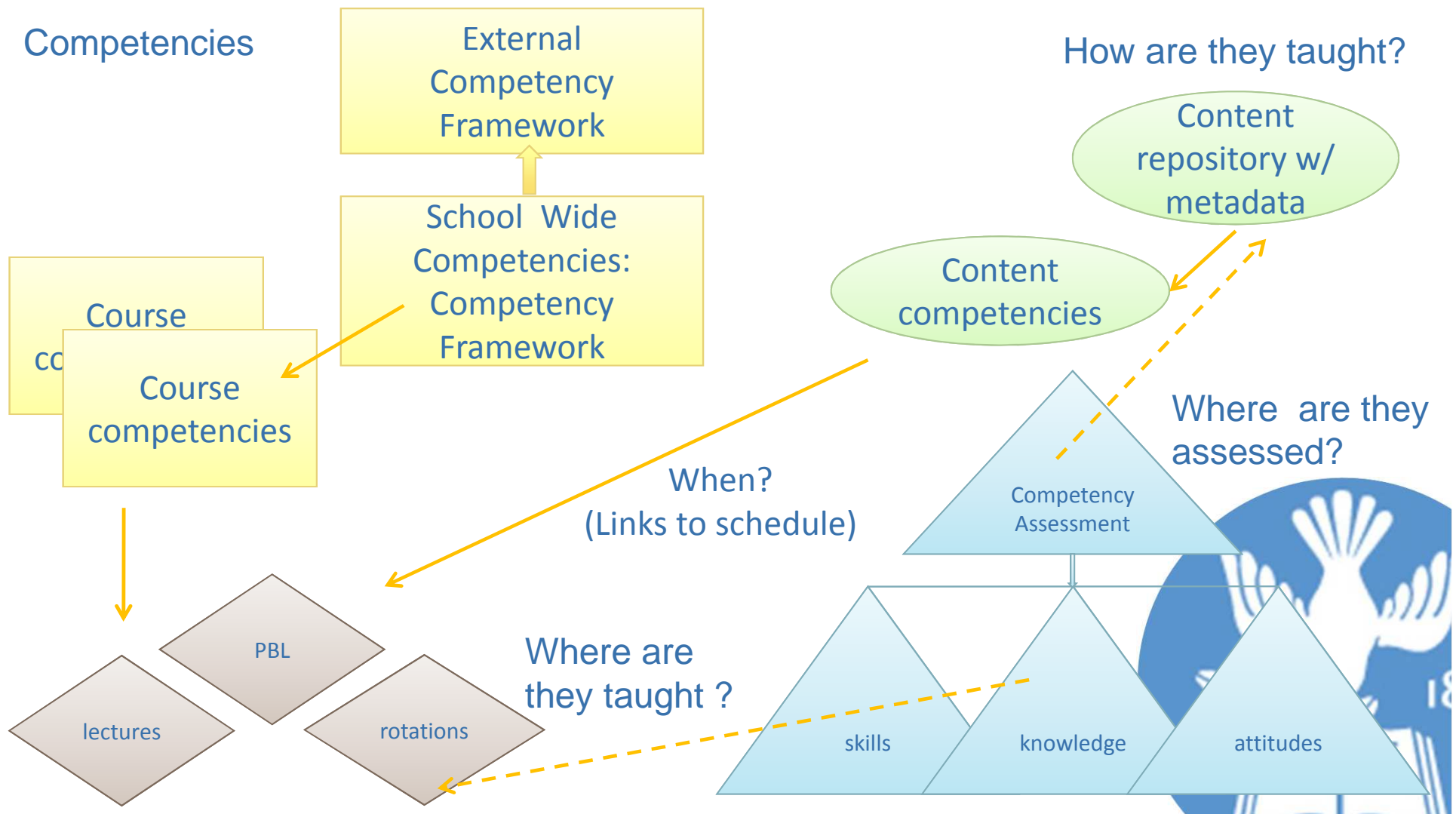
New Discussion

Sort	Discussion Boards	Available To
1 ▼	MPH241 Biology of Water and Health - Makerere-Tufts Water Discussion #1	All
2 ▼	MPH241 Biology of Water and Health - Point of Use Water Treatment - Makerere Tufts #2	All



Tracking competencies



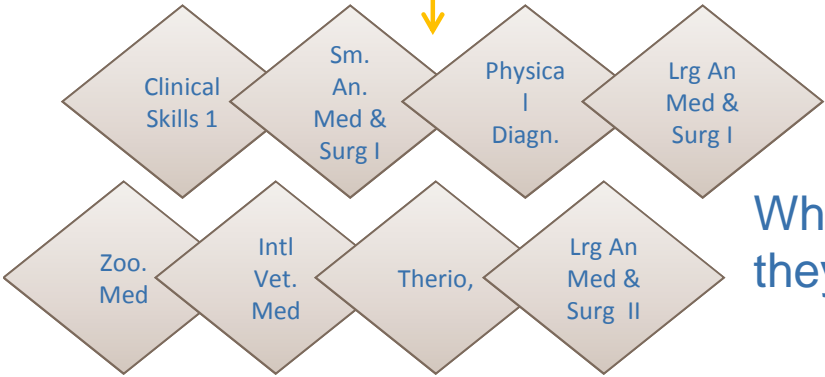


Competencies

AVMA Competencies supported: #'s 1,2,3,5,6

1.0 Diagnosis, Medical Management and Treatment

1.1 Be able to record a history and conduct a physical examination to establish the nature and history of the chief complaint



Where are they taught ?

Content about competency

BREEDING SOUNDNESS EXAM

- Mare
 - Physical Exam and Management
 - Unfertilised or ob...
 - becoming pregnant, c...
 - Physical problems that...
 - usually cause cycling...
 - seldom become pregn...
 - Endocrine diseases lik...
 - and predispose mares

Gastric dilatation-volvulus History and Clinical Signs

- The severity of illness at the time of presentation can vary widely and depends in part on how long the condition has been present
 - some dogs are ambulatory, bright and alert
 - others are recumbent and moribund
- Physical examination findings
 - rapid, labored breathing
 - weak, rapid pulses
 - cardiac arrhythmias with or without murmurs
 - pale mucous membranes with prolonged capillary refill time

HISTORY TAKING

SIGNALMENT
PRESENTING COMPLAINT OR CURRENT COMPLAINT (PC OR CC)
HISTORY OF COMPLAINT

Diagnosis
Physical Examination: CNS

Primary or secondary

- Primary: intracranial
 - Neoplasias, congenital diseases, inflammatory or infectious diseases
- Secondary: extracranial
 - Encephalopathies: hyperammonemia, hypertension
 - Hypoglycemia
 - Hyperosmolality: hyperglycemia, hypernatremia
 - Hyperviscosity: polycythemia, hyperproteinemias

Where are they assessed?

Oncology rotation
Large Animal Medicine rotation
Principles of clinical medicine
Emergency & Critical Care
Small Animal Surgery rotation

Acknowledgements

- National Library of Medicine
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- Anonymous Foundation
- USAID | RESPOND



Thank you

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