

# Some principles of curriculum design - setting the scene



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## **Learning Objective**

CARDIFF UNIVERSITY PRIFYSGOL CAERDYD

To introduce, remind and/or raise awareness of some of the issues to consider when designing, developing or reviewing a curriculum.

**NOT** a quick guide to designing a curriculum

**NOR** 



http://l-userpic.livejournal.com/48701162/506904

## Context



 This outline session may be of particular use to those who are new to curriculum design, development and review.

 Many of the issues will also be of some relevance to developing or reviewing a unit, module or other component of a programme.

## Pharmacy curricula: teaching today for tomorrow's practice



- Is there a 'core' UG pharmacy curriculum?
- How do we allow for country-to-country differences in professional practice?
- What is the appropriate balance of science and practice?
- An integrated curriculum? Traditional format or PBL?
- How much experiential learning should be included?
- How should interprofessional learning be incorporated?
- Do distance learning courses equip students equally compared to on-campus courses?
- Should pre-registration/intern/resident training be incorporated in the undergraduate curriculum?
- Postgraduate curricula and advancing practice?

## **The Curriculum - 1**

Includes syllabus but is more, much more incl.

- learning, teaching & assessment methods
- their sequencing and timing
- what is expected of student; what student can expect
- what learner experiences to achieve outcomes

#### **Further**

- communicated
- evidence-based
- often contested
- must be responsive to change



## The Curriculum - 2

- Planned (on paper, by designers)
- Delivered (organised & taught)
- Experienced (by learners)

### Curriculum Drift

Many are guilty to greater or lesser extent



## For whom is the course designed?

- Level
- UG eg year 1
  - foundation
  - standard entry
  - graduate entry
- >1 of above
- Masters eg MSc
- PharmD
- Background of entrants incl.

qualifications/grades, knowledge/experience



https://www.qaa.ac.uk/england/credit/creditframework.asp

#### **Level 8** PhD / PharmD

make a significant and original contribution to a specialised field of inquiry, demonstrating a command of methodological issues and engaging in critical dialogue...

#### Level 7 MSc / MPharm

display mastery of a complex and specialised area of knowledge and skills, employing advanced skills to conduct research, or advanced technical or professional activity...

#### **Level 6** BSc / BPharm / Grad Diploma

critically review, consolidate and extend a systematic and coherent body of knowledge, utilising specialised skills across an area of study; critically evaluate concepts and evidence from a range of sources; transfer and apply diagnostic and creative skills and exercise significant judgement in a range of situations...

## Governance & Regulation



University
Regulator
Government

Modular, credit size, course length, entry requirements, study hours (in & out of class), level, progression rules, etc.

**Accreditation Criteria** 

Complexity with eg 2+2 programmes (2 HEIs and 2 accrediting bodies)

## Content The syllabus



Communication Skills

Communication Skills (8hrs)

Communication Skills lectures (8hrs)

## **Beyond Content**

- Funding (student numbers)
- Faculty & support staff
- Learning environment teaching & learning space, IT
- Timetable (white space)
- Assessment & Feedback
- Integration
- Placements (exposure to practice)
- IPL



## Is the 'course' constructively aligned?\*

a) Learning activities & assessment tasks are aligned with each other and with intended outcomes.

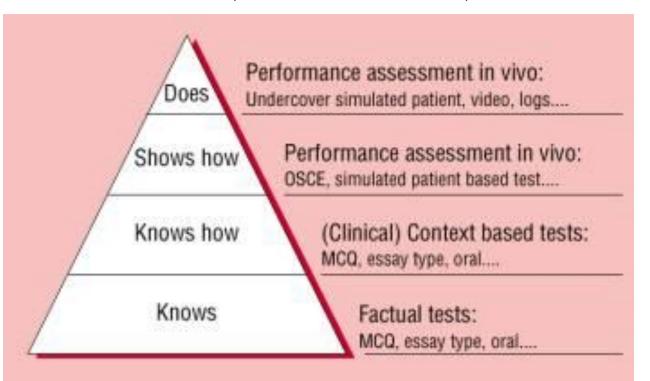
b) Many students 'construct' meaning from what they do to learn.



## Miller's Triangle

PRIFYSGOL CAERDYD

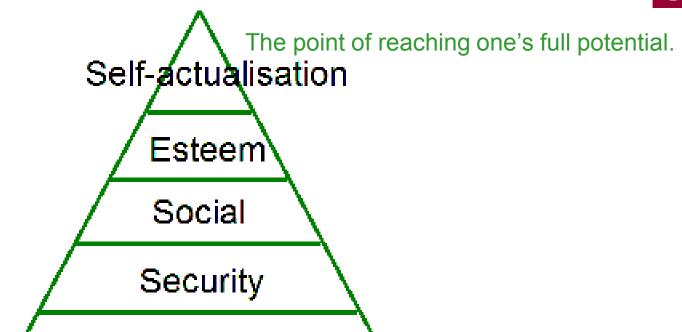
- Knowledge, understanding
- Skills, performance
- Attitudes, behaviours, values



Miller GE. The assessment of clinical skills/ competence/ performance. Acad Med 1990;65:563-7)



## Maslow's Hierarchy of Needs - 1



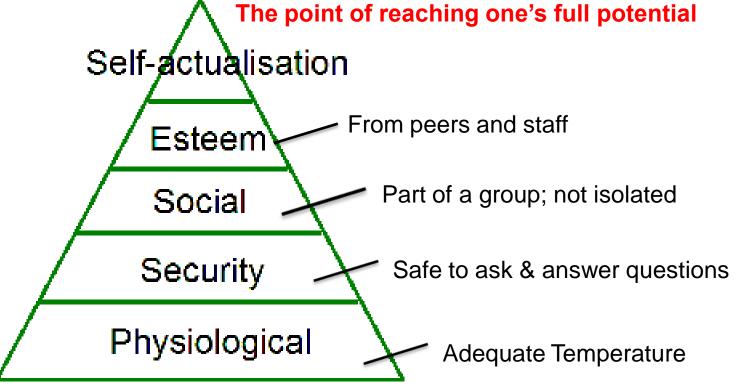
The concept is that until each preceding need has at least largely been met then the next need does not manifest itself.

www.teamtechnology.co.uk/tt/g-articl/maslow.gif http://www.arrod.co.uk/archive/concept\_maslow\_hierarchy.php

Physiological



## Maslow's Hierarchy of Needs - 2



The concept is that until each preceding need has at least largely been met then the next need does not manifest itself.

www.teamtechnology.co.uk/tt/g-articl/maslow.gif http://www.arrod.co.uk/archive/concept\_maslow\_hierarchy.php

## **Spiral Curriculum**

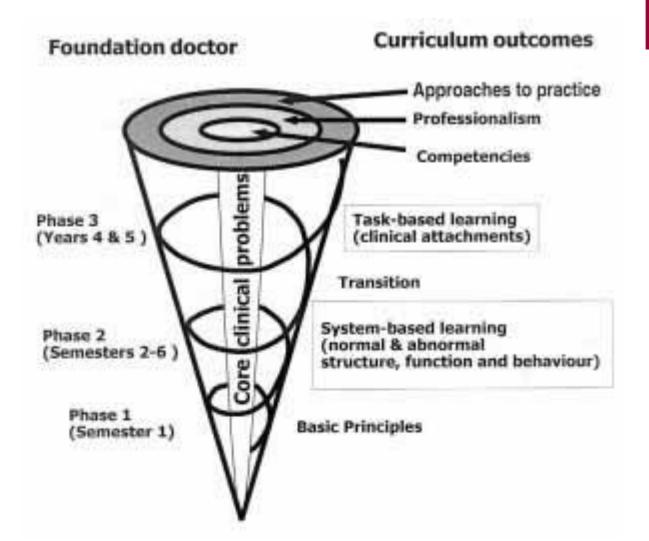


#### **Definition:**

A spiral curriculum is one in which students repeat the study of a subject at different levels, each time at a higher level of difficulty and/or in greater depth.\*

\* adapted from http://www.education.com

## Spiral Curriculum - medicine







http://www.dundee.ac.uk/museum/\_lib/img/medical/spiral.jpg

## **Strategic Planning**



**Political** 

**E**conomic

Social

**Technical** 

Legal

**Environmental** 

Strengths

Weaknesses

**O**pportunities

**T**hreats

Consultation

**Implementation** 

Steps post-project:

Monitor & Review

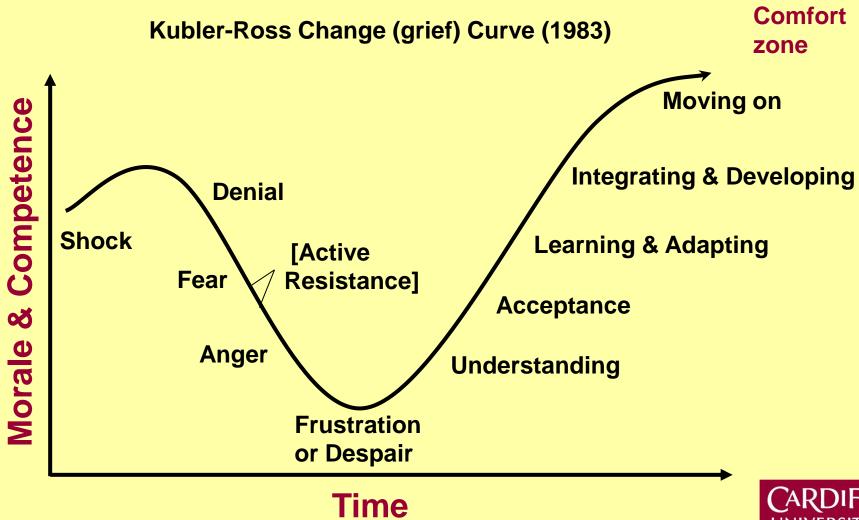
## **Stakeholders**

#### Identifying, engaging & feeding back

- faculty/staff
- current, past & future students
- trainers & employers of graduates
- pharmacy profession
- other professions
- patients/public
- university (? other schools, faculties)
- regulator
- professional bodies



## **Understanding Change**



CARDIFF UNIVERSITY PRIFYSGOL CAERDYD

## Evaluation ... by?

- CARDIFF UNIVERSITY PRIFYSGOL CAERDYD
- Outcomes appropriate & realistic
- Content appropriate
- Meaningful organisation & sequencing
- Alignment of Assessment with L&T
- Balance of methods (learning preferences)
- Assessed at appropriate level
- Time for learning
- Teaching staff approp. knowledge/skills
- Learning resources & environment approp.

### In summary, may wish to consider

- PRIFYSGOL CAERDY
- Communicate and actively engage with colleagues & other stakeholders (and feed back) throughout development
- Do <u>not</u> underestimate the time & effort required for large-scale change(s)
- Listen to alternative views
- if it ain't broke why fix it? <u>not</u> a reason NOT to embark
- Is the product deliverable? approve-able?
- Strong leadership from top and elsewhere



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