**BSc/MSc AppSec Curriculum Discussion Notes**

Professional Body Input (ISC2/BCS/ACM/IEEEE/IISP/ISACA)

Canvas Wider Opinion

Economies of Scale

Need a Stepping Stones Approach

* Start with a module or unit of assessment. Ensure a basic Grounding
* Course Mixed (combined in BSc Computer Science et al)
* Multiple Specialist Programmes

Consider breaking down into classic OWASP descriptors

* Builder
* Breaker
* Defender

Need to consider

Whole SDLC (which one or multiple)

Threat Modelling (basic principles or in depth coverage)

Definitive Code Examples or Specifics

Consider as well as standard OWASP categories

Attack vs Defence

Red Team vs Blue Team (be careful of extremes – think Purple Teams)

Think about this as overlaps (good old fashioned Zen Diagrams)

Important – always need to map back to projects

Katy’s Comments

*Must embed understanding consequences of unsecure software at a fundamental level*

*Understand the why*

*Secure Coding Techniques but also embedded in however design methods are taught.*

Tiffany’s Comments

*Outcome X should link to Resource A*

*Outcome Y should link to Resource B*

*So link to academic supporter’s they should commit to support these learning objectives via use of these projects etc.*

Consider how vulnerabilities can cause changes to the whole SDLC (e.g Heartbleed)

Be prepared to accept trade-offs between performance, security and functionality (cost)

Threat Modelling maybe mid stream in a program

Testing at multiple points

Design something to fail, build and then test for a unique experience

Think ASVS

Think about the importance of CTF activities for students, consider ICTF engine

***KEY DIAGRAM – LEARNING OBJECTIVES***

Baseline LEARNING OBJECTIVES

OWASP PROJECTS

Defender SPECIALIST OBJECTIVES

Breakers SPECIALIST OBJECTIVES

Builders SPECIALIST OBJECTIVES

Defender SPECIALIST OBJECTIVES

Breakers SPECIALIST OBJECTIVES

Builders SPECIALIST OBJECTIVES

***Learning Objectives need to be prioritised/ranked***

***PROBLEM – NOT ENOUGH APPSEC IN EDUCATION CURRICULUM’S***

***Output***

***Summit Exit Survey***

Exit Survey:

What are the three top AppSec Skills or Knowledge you require from a newly appointed graduate for

1. Your own department

1

2

3

1. Departments you interface with

1

2

3