Creating an International Joint Certificate in IT Administration

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Creating an International Joint Certificate in IT Administration

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Overview

• Collaboration between
  – University of Nebraska at Omaha (USA)
  – University of Agder (Norway)

• IT Administration Certificate
  – Completely on-line
  – approximately 15 credit hours

• Target population: undergraduate students
Motivation

- Build on successful existing partnership
- Fill resource gaps via synergy
- Pedagogical and technological innovation
- Provide international experience to students
- Demand for IT Administration certificate
  - Bureau of Labor Statistics: 30% growth 2008-2018
  - Student survey: 80% interested
Planning Process

• The “Gang of Four”
  – Bi-weekly & monthly on-line meetings
  – Skype for audio
  – Google docs for co-editing, document storage
  – Planning & Coordination

• The “Large Group”
  – Monthly meeting
  – Adobe Connect
  – Wikispaces for document storage, etc.
  – Connecting, discussing, coordinating
Class Implementation

- CMS
- Wiki
- Google docs co-edit
- Skype
- E-mail
- Oracle server in Omaha
- CMS for submission
- Adobe Connect
- Voting/Polling/Quiz
- Ui/A Exam office
- UNO Proctored exam
- Exams
- Class discussion
- Student-teacher interaction
- Assignments
- Synchronous class
- Adobe Connect
- Asynchronous lectures
- Camtasia
- Captivate
- Student groups
- Blackboard
- Fronter (Norwegian)
- Adobe Connect
- Q&A
- Adobe Connect
- Student assistance
- local lab assistants

Class implementation
Advanced DB systems / DBA
On-line Virtual Lab - Systems Administration Course

- Multiple virtual machines per student
- Virtual private network for remote access
- TightVNC used for remote control of virtual machines
- Instructor can log in and observe student screens
Amazon Cloud - Distributed Technology Course

• Purpose
  – Experience with cloud computing
  – Use of multiple pre-configured machines to experience distributed computing practices

• Amazon Web Services
• Preconfigured LAMP system for each student
• $100 credit per student per semester from Amazon.com

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
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| Student Credit Hour (SCH) vs. European Credit Transfer System (ECTS) | 1) Mapping of all courses into SCH/ECTS  
2) Flexible totals (14-16 SCH / 28-32 ECTS) |
| Registration of non-local students                                  | 1) Use processes for foreign exchange students  
2) Use local independent study courses |
| Teacher workloads                                                    | 1) Easy for single-instructor courses  
2) Complicated for team – taught |
| Different grading practices                                          | 1) Grading done according to local practice  
2) Grade conversions according to conventions |
| Time differences                                                     | 1) Only issue with synchronous elements  
2) 9am/4pm  
3) Hand-offs? |
Future Challenges

• Which pedagogical model is most appropriate for each class?
• What forms of collaboration are most effective?
• Creating more of a unified look-and-feel for the certificate
• Creating the official certificates in the institutional catalogs