Course Inventory Change Request

New Course Proposal

Date Submitted: 11/30/15 11:51 am

Viewing: IT 4100: Files Systems and Storage Technologies

Last edit: 12/18/15 11:03 am

Changes proposed by: d00038752

Course Prefix: IT  Course Number: 4100
Effective Semester: Fall 2016
Department: Computer Information Technology (CIT)
School: School of Science & Technology
Course Title: Files Systems and Storage Technologies
Short Course Title: Files Systems and Storage Tec
Credits: 3
Workload Factors: 3
Primary Grade Type: Standard Letter
Secondary Grade Type:

In Workflow
1. CIT Chair
2. SC Dean
3. University Curriculum Committee Chair
4. Banner

Approval Path
1. 11/30/15 1:46 pm Bart Stander (stander): Approved for CIT Chair
2. 12/02/15 1:49 pm Ruth Bruckert (bruckert): Approved for SC Dean

https://newcatalog.dixie.edu/courseleaf/approve/?role=admin
IT 4100: Files Systems and Storage Technologies

Instructor: No
Permission Required: No
Repeatable for Credit: No
Schedule Type: Lecture Hrs/Wk: 3
Catalog Prerequisites: Yes

Catalog Prerequisites:
IT 3100 (Grade C- or higher).

Grade Required on Prerequisite(s): C-
Corequisites? No
Course/Lab Fee? Yes

Fee Amount | Fee Deposit Index Code | Fee Justification
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25 | TEC303 | Maintain CIT infrastructure

Instruction Index Code: TEC201
GE Status Requested: No
Catalog Description: Classic, virtualized, and cloud storage will be covered. Topics such as RAID, NAS, SAN will be covered. Business continuity for backup and replication of storage. Local vs. Remote file systems. We will explore older and newer OS filesystems and compare them (such as fat32, ntfs, ext3, ext4, btrfs).
Course Rotation: Spring (every)

Justification for course/change: Local employers continue to express a need for this in our annual review advisory meetings.

Library Resources Adequate: Yes
Tech Resources Adequate: Yes

Comparable Courses: (use USHE course first)

<table>
<thead>
<tr>
<th>Institution</th>
<th>Prefix/Number</th>
<th>Credit(s)</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Utah Valley University</td>
<td>IT 3650</td>
<td>3</td>
<td>Information Storage and Management</td>
</tr>
</tbody>
</table>

Course Learning Outcomes:
- Evaluate key filesystems technologies (both local and remote) and implement these filesystems.
- Evaluate storage architectures and key data center elements in classic, virtualized, and cloud environments
- Explain physical and logical components of a storage infrastructure including storage subsystems, RAID, and intelligent storage systems
- Articulate business continuity solutions backup and replication, and archive for managing fixed content
- Mirror disk images, clone a hard drive, partition

Course Reviewer Comments