**TELE20483 Cloud Enabled Networks Class Plan Winter 2025.** Section Friday 1-4 PM at S144

**Estimated Calendar**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Week** | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** |
| **Day** | Jan 10 | Jan 17 | Jan 24 | Jan 31 | Feb 7 | Feb 14 | Feb 21 |
| **Event** |  | Q1 |  | Q2  L1 |  | T1 | L2 |

* Reading week February 24 – March 2

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Week** | **Week 8** | **Week 9** | **Week 10** | **Week 11** | **Week 12** | **Week 13** | **Week 14** |
| **Day** | March 7 | Feb 14 | March 21 | March 28 | April 4 | April 11 | April 18 |
| **Event** | Q3 | T2  L4 | Q4 |  | Q5 | L5 | T3 |

**Grade breakdown**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Item** | **Number** | **Each** | **Totals** | **Approximated weeks** |
| Labs | Four (4) | 12.5% | 50% | 4,7,9,12 |
| Quizzes | Five (5) | 2% | 10% | 2,4,7,11,13 |
| Tests | Three (3) | 13.33% | 40% | 5,9 and 14 |
| Total |  | | 100% |  |

**Course Platform**

* This course uses **AWS Academy** for all practical activities.
* You have received two invitations from AWS Academy to join these two courses (below):

**A screenshot of a computer

Description automatically generated**

* The **AWS Learner Lab** is a sandboxed environment to practice.
* The **AWS Cloud Architecting** is a guided learning course.
* This course uses AWS Academy **Cloud Developing** like this:

|  |  |  |
| --- | --- | --- |
| **Week** | **Quiz** | **AWS Academy Cloud Architecting** |
| 2 | Q1 | Module 3: Exploring AWS Identity and Access Management (IAM) 56 pts |
| 4 | Q2 | Module 4: Knowledge Check |
| 8 | Q3 | Module 5: Knowledge Check |
| 10 | Q4 | Module 7: Knowledge Check |
| 12 | Q5 | Module 8: Knowledge Check |

|  |  |  |
| --- | --- | --- |
| **Week** | **Lab** | **AWS Academy Cloud Architecting** |
| 4 | L1 | Module 4 Adding Store Layer S3:   * **L1** Challenge Lab- Creating a Static Website for the Café |
| 7 | L2 | Module 5: Adding a Compute Layer Using Amazon EC2.   * **L2a** Guided Lab: Introducing Amazon Elastic File System (Amazon EFS) * **L2b** Challenge Lab: Creating a Dynamic Website for the Café |
| 9 | L3 | Module 7: Creating a Network Environment   * **L3a** Lab Creating a Virtual Private Cloud (VPC) * **L3b** Creating a VPC Networking Environment for the Café |
| 13 | L4 | Module 10: Implementing Monitoring, Elasticity and High Availability.   * **L4a** Lab Creating a Highly Available Environment * **L4b** Lab Creating a Scalable and Highly Available Environment for the Cafe |

**Estimated Study order, main topics**

* Chapter 1 Introduction to cloud computing (week 1)
* Chapter 2 Cloud fundamental structures (week 1)
* Chapter 3 Cloud computing (week 2, 3)
* Chapter 4 Cloud Network Communications (week 4)
* Chapter 5 Cloud Access Control (week 5, 6)
* Chapter 6 Virtual Private Cloud (week 6, 8)
* Chapter 7 VPC Architecture (week 8)
* Chapter 8 Cloud Autoscaling Infrastructure (week 9,10)
* Chapter 9 Cloud Elastic Object Storage (week 10, 11)
* Chapter 10 Cloud Databases (week 11, 12)
* Chapter 11 Cloud Platform as a Service (week 13)
* Docker Containers. (time permitting, optional week 13) \* Time permitting.

**Textbook:**

**TELE 20483 Cloud Enabled Networks**

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**AWS Certified Solutions Architect**

Newest version is: **AWS Certified Solutions Architect. Sybex. 2020. Third edition.**

**ISBN 978-1-119-71308-1 Ben Piper and David Clinton.**