**302 شبك( معمل الشبكات المحلية ) شعبة 1382**

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| **عضو هيئة التدريس** |  | **المكتب** | **البريد الإلكتروني/ الموقع** |
| ميسون عبدالعزيز الدويس | **المحاضرة:**  يوم الثلاثاء 10-2  معمل 14 مبنى 26  **الساعات المكتبية:**  الثلاثاء:8-10  الخميس:11-1 | الدور الأول مبنى 26  جناح د مكتب 40 | البريد الإلكتروني: [malduwais1@KSU.EDU.SA](mailto:malduwais1@KSU.EDU.SA)  الموقع <http://fac.ksu.edu.sa/malduwais1> |

**Course Description**

## The aim of this course is to provide the student with the knowledge and practical experience of the Design, Configuration, and Maintenance of the LANs. The objective of this course for the students are:

## Use network hardware element: routers, switches, hubs and transmission media.

## Design the LAN using IP addressing and Subnets

## Design the LAN Variable Length Subnet Mask

## Configure Router, Switch and small LANs

## Configure LAN Using the VLAN Trunking Protocol (VTP)

## Managing VLAN using Spanning Tree Protocol (STP)

## Configure Inter-VLAN Routing

## Configure Wireless Network

## Configure the Standard and Extended Access Control List (ACL)

Applying network troubleshooting

**Grade Distribution**

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| Assignments | 10 |
| Lab | 10 |
| Mid1 | 20 |
| Mid 2 | 20 |
| Final Examination | 40 |

**Course Materials:**

* *Class notes*
* *LAN Switching and Wireless, CCNA Exploration Companion Guide; by Wayne Lewis; Hardcover: 528 pages; Publisher: Cisco Press; edition (May 8, 2008); ISBN-10: 1587132079, ISBN-13: 978-1587132070.*

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| Mid1 | Tuesday: 21 March – 22/6/1438 AH |
| Mid2 | Tuesday: 2 May – 6/8/1438 AH |