BILKENT UNIVERSITY
Department of Computer Technology and Information Systems
2009-2010 Summer
Course Syllabus

<table>
<thead>
<tr>
<th>Course Code</th>
<th>CTIS 262</th>
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<tbody>
<tr>
<td>Course Name</td>
<td><strong>Computer Networks II</strong></td>
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<tr>
<td>Course Credit</td>
<td>4 (5 hrs. lecture in the lab)</td>
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</tbody>
</table>
| Instructors | Cüneyt Sevgi  
Office: C215, Tel: x5069  
Office Hours:  
e-mail: csevgi@bilkent.edu.tr |
| Assessments | Online Assessments ....................... 5%  
Homework................................. 10%  
Midterm .................................. 27.5%  
Packet Tracer Exam .................. 20%  
Final Exam ............................. 37.5% |

**Attendance Policy:**
Attendance is highly recommended for two reasons:
1. The material is very difficult to be read and understood by self-study.
2. It is not possible to recover the lab sessions that will be carried out with real equipment.

**Makeup Policy:**
Makeup may ONLY be given for the midterm and final exams to the students with a Bilkent University Health Center approved medical report.

**Changes:**
The Information contained in this course Syllabus is subject to change. Students will be informed about any changes either in the class and/or by e-mail and/or publishing at the course website which has the following address: [http://www.bilkent.edu.tr/~csevgi](http://www.bilkent.edu.tr/~csevgi). It is each student’s responsibility to REGULARLY CHECK this website and their Bilkent e-mail accounts to learn of course changes.

**Grading Scale:**
The following grading scale will be used in this course. Passing grades range from A to D; F is a fail.
- <50 F
- 50-54 D
- 54-58 D+
- 58-62 C-
- 62-66 C
- 66-70 C+
- 70-74 B-
- 74-78 B
- 78-82 B+
- 82-86 A-
- >86 A
# TENTATIVE COURSE OUTLINE

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
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<tbody>
<tr>
<td><strong>1</strong></td>
<td>7 June – 11 June</td>
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| **Course Preview.**  
**Ch.1 – Introduction to Routing and Packet Forwarding:** Inside the router. CLI configuration and addressing. Building a routing table. Path determination and switching functions. Router configuration labs. |
| **2** | 14 June – 18 June |
| **Ch.2 – Static Routing:** Introduction to static routing. Routers and networks. Exploring directly connected networks. Static routes with next hop addresses. Static routes and exit interfaces. Default static routes. Managing and troubleshooting static routes. Static routes configuration labs.  
**Ch.3 – Introduction to Dynamic Routing:** Introduction to dynamic routing and its advantages. Classification of dynamic routing protocols. Metrics and routing protocols. Administrative distances. Routing protocols and subnetting activities. |
| **3** | 21 June – 25 June |
**Ch.5 – RIP V.1:** Introduction to RIPv1. Basic RIPv1 configuration. Verification and troubleshooting. Automatic summarization. Default route and RIPv1. RIPv1 configuration labs. |
| **4** | 28 June – 2 July |
| **Ch.6 – VLSM and CIDR:** Classful and classless addressing. VLSM. CIDR. VLSM and route summarization activity.  
**Ch.7 – RIP V.2:** Limitations of RIPv1. Configuring RIPv2. VLSM and CIDR. RIPv2 configuration labs. |
| **5** | 5 July – 9 July |
| **Ch.8 – The Routing Table: A Closer Look:** The structure of routing table. Routing table lookup process. Routing behavior. Routing table labs.  
**Ch.9 – EIGRP:** Introduction to EIGRP. Basic EIGRP configuration. EIGRP metric calculation. DUAL. (**MIDTERM EXAM:** 5th July 2010) |
| **6** | 12 July – 16 July |
| **Ch.9 – EIGRP:** More EIGRP configurations. EIGRP configurations labs.  
**Ch.10 - Link-State Routing Protocols:** Introduction to link-state routing. Implementation of link-state routing protocols. |
| **7** | 19 July – 23 July |
| **Ch.11 – OSPF:** Introduction to OSPF. Basic OSPF configuration. The OSPF metric. OSPF and multi-access networks. More OSPF configuration. OSPF configuration labs. |
| **8** | 26 July – 30 July |
| **PACKET TRACER EXAM and FINAL EXAM** |