Computer Science

CS 438 Communication Networks  credit: 3 OR 4 hours.
Layered architectures and the OSI Reference Model; design issues and protocols in the transport, network, and data link layers;
architectures and control algorithms of local-area, point-to-point, and satellite networks; standards in networks access protocols; models
of network interconnection; overview of networking and communication software. Same as ECE 438. 3 undergraduate hours. 3 or 4
graduate hours. Prerequisite: CS 241 or ECE 391; one of ECE 313, MATH 461, MATH 463.

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<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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<tr>
<td>51445</td>
<td>Online</td>
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<td>ARRANGED -</td>
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<td>Kravets, R</td>
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Credit Hours: 4 hours
Restricted to MS: Civil Engr - Online - UIUC, MCS:Computer Sci Online -UIUC, MS:Industrial Engr Online-UIUC, MS:Mechanical
Engineering -UIUC, MS:Env Engr CivilEngr ONL-UIUC, MS: Aerospace Engr-Online-UIUC, NDEG:Grad Nondegree-CE-UIUC,
NDEG:Undergrad Nondeg-CE-UIUC, or MENG:Mech Engineering Onl-UIUC.
Restricted to online non-degree, online MCS, online MSAE, online MSME, and online MSCE students. For more details on this
course section, please see http://engineering.illinois.edu/online/courses/.

| 31410 | Lecture-Discussion | R3      | 09:30 AM - 10:45 AM | WF   | 1320 - Digital Computer Laboratory | Kravets, R |

Credit Hours: 3 hours
Restricted to Undergrad - Urbana-Champaign.

| 56310 | Lecture-Discussion | R4      | 09:30 AM - 10:45 AM | WF   | 1320 - Digital Computer Laboratory | Kravets, R |

Credit Hours: 4 hours
Restricted to Graduate - Urbana-Champaign.