







## Electronic Circuit Representation Uses logic gates to perform Boolean algebraic functions Gates can be represented by schematic symbols Symbols can be either distinctive-shape or

rectangular-outline

ECET 331 - Digital Integrated Circuits





































































![](_page_7_Figure_0.jpeg)

![](_page_7_Figure_1.jpeg)

![](_page_7_Figure_2.jpeg)

![](_page_7_Picture_3.jpeg)

![](_page_7_Figure_4.jpeg)

![](_page_7_Figure_5.jpeg)

Terms
<ul> <li>SSI, MSI, LSI, VLSI</li> <li>Small, Medium, Large, or Very Large scale Integration depending on the number of gates in an IC package (&lt;12, 12-100, 100-10k, &gt;10k gates)</li> <li>Through-hole</li> <li>IC packages which are mounted on circuit boards by inserting pins through holes in the board and soldering them in place</li> <li>SMT</li> <li>Surface Mount Technology – A system of mounting ICs to the surface of a circuit board rather than throughhole</li> </ul>
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