

## CONM1108 - Principles of Estimating

Credits:	4 (2/2/0)
Description:	This course focuses on the basics of material, labor and equipment estimating. Students learn to calculate the quantities of material comprising a project. These quantities determine the primary portion of the direct costs used in a construction bid. This process is the first step in completing accurate bids for construction projects of all sizes.
Prerequisites:	• BLDG1114 OR • ARCH1126 OR • CONM1101
Corequisites:	
Pre/Corequisites <sup>*</sup> :	
Competencies:	<ol> <li>Prepare quantity takeoffs and estimates for multiple disciplines.</li> <li>Estimate general requirements.</li> <li>Estimate existing conditions.</li> <li>Estimate concrete.</li> <li>Estimate masonry.</li> <li>Estimate metals.</li> <li>Estimate carpentry.</li> <li>Estimate thermal and moisture protection.</li> <li>Estimate openings.</li> <li>Estimate finishes.</li> <li>Estimate specialties.</li> <li>Estimate furnishings.</li> <li>Estimate earthwork.</li> <li>Calculate average crew cost.</li> <li>Determine a labor rate for estimating crew costs.</li> </ol>
MnTC goal areas:	None

<sup>\*</sup>*Can be taking as a Prerequisite or Corequisite.*