



various scales of measurement and how the work may be traced from a detailed drawing to the article itself. Drawings are used in all of the shops as a basis for the work.

The bench work of the wood-shop will first accustom the student to the use and care of the hand saw, plane, chisel and square, these tools being essential to all wood-work. Then from working drawings, joints common to all bridge and building construction are made, taking into consideration the grain and defects of the material.

The lathe-work, or wood turning, teaches in a practical way the proper kind of a tool to use and how to use it to the best advantage. The band-saw, rip-saw and various other machines of the shops are frequently made use of.

The production of a large majority of machine parts involve

The University of Oregon's shops are located in the Mechanical building, situated on the northeast corner of the campus. In these shops the student puts many of his theoretical principles into actual practice. The shops are sufficiently equipped with tools and machines to give a limited number of students the practice required in all of the engineering courses.

The benefit that should be derived from this shop work is not that it enables the student to become a skilled artisan in any of the lines of work undertaken in the shops but rather that he should understand the processes through which any piece of work should go to reach completion so that the desired results may be accomplished with a minimum of labor and cost. In the wood shop which is generally first in the shop list because its principles are simple and fundamental, the work is systematically laid out by a series of working drawings leading from the simpler to the more difficult work. These working drawings teach the accurate use of the