

projections of simple solids; the intersection of solids and the development of surfaces; descriptive geometry; machine details from models; machine details from sketches; principles of bolts, screws and nuts, pulleys, cams, crank, gearing; details of a machine; assembly drawing, etc., etc.

Mathematics, as related to mechanical construction, etc.

Architectural Course.

THIS is to give thorough instruction in working drawings; designing; the principles of building construction; and descriptive geometry, preparatory for architects' offices; and lays the foundation for a more advanced study in architecture.

Freehand drawing; geometric problems; plans and elevations of geometric solids; intersection of solids and development of surfaces; descriptive geometry; details of framework showing mortise, tenon, joints, etc.; details and sections of a door, window, fireplace, stairway; plans and elevation of a cottage; framing of the same; freehand and mechanical perspective; light and shade; pencil and pen sketching of details and ornament; isometric drawing, and historic styles of architecture.