

Portfolio Requirements

Drafting

Freshmen Year	
Trimester 2	Two student-selected projects of their best work throughout the year from geometric construction, orthographic views, auxiliary views, sectional views, dimensioning, isometrics and parametric solid modeling.
Trimester 3	Two student-selected projects of their best work throughout the year from geometric construction, orthographic views, auxiliary views, sectional views, dimensioning, isometrics and parametric solid modeling.
Additional Projects	Essay on Engineering Video (Discovery Channel, Mega Machine, How things are made, etc.) Lettering Guide

Sophomore Year	
Trimester 1	Two student-selected projects of their best work throughout the year from threads and threaded fasteners including bolts, screws and nut drawings, welding drawings, and spring drawings, power transmission including spur, bevel and worm gear drawings, as well as cam drawings. Various shop processes including casting, forging, welding, sheet metal parts, and any mechanical drawings and designs created during the Robotic build season.
Trimester 2	Two student-selected projects of their best work throughout the year from threads and threaded fasteners including bolts, screws and nut drawings, welding drawings, and spring drawings, power transmission including spur, bevel and worm gear drawings, as well as cam drawings. Various shop processes including casting, forging, welding, sheet metal parts, and any mechanical drawings and designs created during the Robotic build season.
Trimester 3	Two student-selected projects of their best work throughout the year from threads and threaded fasteners including bolts, screws and nut drawings, welding drawings, and spring drawings, power transmission including spur, bevel and worm gear drawings, as well as cam drawings. Various shop processes including casting, forging, welding, sheet metal parts, and any mechanical drawings and designs created during the Robotic build season.
Additional Projects	Essay on Engineering Video (Discovery Channel, Mega Machine, How things are made, etc.)



Junior Year	
Trimester 1	Two student-selected projects of their best work throughout the year from plot plans, floor plans, foundation plans, exterior elevation plans, roof plans, sectioning and detailing and any mechanical drawings and designs created during the Robotic build season.
Trimester 2	Two student-selected projects of their best work throughout the year from plot plans, floor plans, foundation plans, exterior elevation plans, roof plans, sectioning and detailing and any mechanical drawings and designs created during the Robotic build season.
Trimester 3	Two student-selected projects of their best work throughout the year from plot plans, floor plans, foundation plans, exterior elevation plans, roof plans, sectioning and detailing and any mechanical drawings and designs created during the Robotic build season.
Additional Projects	Essay on Engineering Video (Discovery Channel, Mega Machine, How things are made, etc.)

Senior Year	
Trimester 1	Two student-selected projects of their best work throughout the year from any of the many Mechanical and Architectural projects worked on throughout the school year reinforcing the three previous years.
Trimester 2	Two student-selected projects of their best work throughout the year from any of the many Mechanical and Architectural projects worked on throughout the school year reinforcing the three previous years.
Trimester 3	Two student-selected projects of their best work throughout the year from any of the many Mechanical and Architectural projects worked on throughout the school year reinforcing the three previous years.
Additional Projects	Senior Capstone Project (Mechanical, Animation and/or Architectural)