

Lakewood High School Concurrent Enrollment Courses

Course	Description	Credits
MGD 101 <i>Fall and Spring Enrollment</i>	Introduction to Computer Graphics High School Instructor: Kristen Vetter Introduces computer systems developed for graphics. You will learn hardware and software components used in multimedia production and explore basic computer operations, file management, scanning techniques, archiving capabilities, and utilization of the multimedia department server and Internet connection. Prerequisite: N/A Plans of Study: http://www.rccc.edu/multimedia/degrees-and-certificates	3
MGD 102 <i>Spring Enrollment</i>	Introduction to Multimedia High School Instructor: Kristen Vetter Introduces the equipment and software used in multimedia production and the multimedia professions focus on current technology and equipment, such as scanners, printers, digital cameras, and computers. You will gain hands-on skills using today's technology for input and output in multimedia and design projects. Overview of software for multimedia will be explored. Prerequisite: N/A Plans of Study: http://www.rccc.edu/multimedia/degrees-and-certificates	3
CAD 101 <i>Spring Enrollment</i>	Computer Aided Drafting I High School Instructor: Matt Brown Focuses on basic computer-aided drafting skills using the latest release of CAD software. The course includes file management, Cartesian coordinate system, drawing set-ups, drawing aids, layer usage, drawing geometric	3

	<p>shapes, editing objects, array, text applications, basic dimensioning, and Help access.</p> <p>Prerequisite: N/A</p> <p>http://www.rccc.edu/engineering-graphics-technology/degrees-and-certificates</p>	
<p>CAD 102</p> <p><i>Spring Enrollment</i></p>	<p>Computer Aided Drafting II High School Instructor: Matt Brown</p> <p>Focuses on advanced computer aided drafting skills using the latest release of CAD software. Includes blocks and wblocks, polylines, multilines, polyline editing, advanced editing, editing with grips, hatching, isometric drawings, dimensions and dimension variables, paper space and viewports, templates, external references, and printing/plotting.</p> <p>Prerequisite: CAD 101 or permission from instructor</p> <p>http://www.rccc.edu/engineering-graphics-technology/degrees-and-certificates</p>	3
<p>CAD 202</p> <p><i>Spring Enrollment</i></p>	<p>Computer Aided Drafting 3D High School Instructor: Matt Brown</p> <p>Focuses on construction of three-dimensional objects using the latest release of CAD software. Includes mesh modeling, surface modeling, solid modeling, extrusions, Boolean operations, 3D editing, 3D views, rendering, materials and advanced lighting, walkthrough and flyby animations and 3D Solids to 2D Layouts.</p> <p>Prerequisites: N/A</p> <p>Plans of Study: http://www.rccc.edu/engineering-graphics-technology/degrees-and-certificates</p>	3
<p>CAD 262</p> <p><i>Spring Enrollment</i></p>	<p>3D Printing High School Instructor: Matt Brown</p> <p>Provides the student with the ability to blend the virtual and the real design worlds together through the use of 3D Scanning. 3D CAD Modeling and 3D Printing.</p> <p>Prerequisites: N/A</p> <p>Plans of Study: http://www.rccc.edu/engineering-graphics-technology/degrees-and-certificates</p>	3

<p>AEC 101</p> <p><i>Spring Enrollment</i></p>	<p>Basic Arch. Drafting High School Instructor: Matt Brown</p> <p>Introduces the student to basic architectural drafting techniques. Topics explored in lecture and through project work include: use of instruments; geometric construction; multiview, oblique and isometric projections; and basic construction drawings.</p> <p>Prerequisite: CAD 102 or permission of instructor.</p> <p>Plans of Study: http://www.rccc.edu/engineering-graphics-technology/degrees-and-certificates</p>	<p>4</p>
<p>AEC 102</p> <p><i>Spring Enrollment</i></p>	<p>Residential Construction Draw High School Instructor: Matt Brown</p> <p>Investigates light-frame construction techniques and the production of residential construction drawings. The course covers residential construction materials, components, and systems related to wood-frame structures. Students produce a professional set of construction drawings of a residential structure.</p> <p>Prerequisite: AEC 101 or permission of instructor.</p> <p>Plans of Study: http://www.rccc.edu/engineering-graphics-technology/degrees-and-certificates</p>	<p>4</p>