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| Planned Course: The CAD Creation Lab | | Course Number: AH836T | Department: Fine Arts and Digital Arts |
| Unit: Presentation: Boards/Photos | | Grade Level: 9-12 | |
| Estimated Time: 3 weeks (Integrated) | | Level/Track: Elective | Board Approval Date: 08/22/2016 |
| PA Academic Standards | <p>▶ Core Concepts (in question format)</p> <ul style="list-style-type: none"> • Skills/Knowledge | Activities/Strategies/Study Skills (identify some activities as remedial or enrichment activities) | Assessments (include types and topics) |

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| <p>3.1.12.D: Analyze scale as a way of relating concepts and ideas to one another by some measure.</p> <ul style="list-style-type: none"> • Compare and contrast various forms of dimensional analysis. • Assess the use of several units of measurement to the same problem. • Analyze and apply appropriate measurement scales when collecting data. <p>3.2.12.D: Analyze and use the technological design process to solve problems.</p> <ul style="list-style-type: none"> • Implement and assess the solution. • Evaluate and assess the solution, redesign and improve as necessary. • Communicate and assess the process and evaluate and present the impacts of the solution. <p>3.6.12.B: Analyze knowledge of information technologies of processes encoding, transmitting, receiving, storing, retrieving and decoding.</p> <ul style="list-style-type: none"> • Apply and analyze advanced information techniques to produce a complex image that effectively conveys a message (e.g., desktop publishing, audio and/or video production). • Apply various graphic and electronic information techniques to solve real world problems (e.g., data organization and analysis, | <p>▶ Can a poor presentation (board) alter the perception of a great idea?</p> <p>▶ Can a great presentation (board) alter the perception of a poor idea?</p> <p>▶ Does/Do color choice(s) have the power to enhance or impede the communication of an idea?</p> <ul style="list-style-type: none"> • Ex: Should meat ever be packaged in green packaging? Why not? <p>▶ How can one portray a 3D object in a 2D format to its optimum benefit?</p> <ul style="list-style-type: none"> • In a blueprint • In a photograph | <ul style="list-style-type: none"> • Students will view a short demonstration on the set-up, composition and utilization of basic tabletop photography. • Students will practice/participate in setting up (manipulating both lighting and backgrounds) and photographing their finished projects for use on their presentation boards. • Students will evaluate their photographic results (with regards to composition and lighting) and identify their strongest photos to utilize on their presentation boards. • Students will evaluate and select which precise printer(s), substrate(s), and sheet size(s) is/are necessary for the creation of their particular presentation board given various project requirements. • Students will understand and apply the steps necessary to | <p>An ongoing informal class discussion and sharing of ideas regarding the large-format printing of blueprints, photographing of projects and production of presentation boards during this time will be strongly encouraged and nurtured.</p> <p>The instructor will informally assess class participation and work ethic during this phase of the project resulting in a roughly bi-weekly classwork progress grade (see unit 7).</p> <p>The instructor will formally assess this portion of the project utilizing a rubric after it is handed in. (see attached project rubric).</p> |
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| <p>forecasting, interpolation).</p> <p>3.6.12.C: Analyze physical technologies of structural design, analysis and engineering, personnel relations, financial affairs, structural production, marketing, research and design to real world problems.</p> <ul style="list-style-type: none"> • Apply knowledge of construction technology by designing, planning and applying all the necessary resources to successfully solve a construction problem. • Analyze and apply complex skills needed to process materials in complex manufacturing enterprises. <ul style="list-style-type: none"> • Apply advanced information collection and communication techniques to successfully convey solutions to specific construction problems. • Analyze the positive and negative qualities of several different types of materials as they would relate to specific construction applications. <p>3.7.12.A: Apply advanced tools, materials and techniques to answer complex questions.</p> <ul style="list-style-type: none"> • Demonstrate the safe use of complex tools and machines within their specifications. • Select and safely apply appropriate tools, materials and processes | | <p>print blueprints on a large-format printer using a variety of substrates and sheet sizes.</p> <ul style="list-style-type: none"> • Students will view a demonstration on the following: <ol style="list-style-type: none"> 1) How to choose and cut various paper (plain, tru-ray, construction) and board (mat, railroad) types and which cutters to use on each type. 2) The correct steps to follow in order to mount project blueprints and photos onto paper and mat board. • Students will recall and relate the steps presented to them in the demonstration in order to correctly arrange and assemble their finished presentation boards. • Students will employ teamwork in situations where they identify/recognize a personal weakness in order to | |
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| <p>necessary to solve complex problems that could result in more than one solution.</p> <ul style="list-style-type: none"> • Evaluate and use technological resources to solve complex multistep problems. <p>3.7.12.B: Evaluate appropriate instruments and apparatus to accurately measure materials and processes.</p> <ul style="list-style-type: none"> • Apply and evaluate the use of appropriate instruments to accurately measure scientific and technologic phenomena within the error limits of the equipment. • Evaluate the appropriate use of different measurement scales (macro and micro). • Evaluate the utility and advantages of a variety of absolute and relative measurement scales for their appropriate application. <p>3.7.12.D: Evaluate the effectiveness of computer software to solve specific problems.</p> <ul style="list-style-type: none"> • Evaluate the effectiveness of software to produce an output and demonstrate the process. • Design and apply advanced multimedia techniques. • Analyze, select and apply the appropriate software to solve complex problems. | | <p>enhance their recall, interpretation, and/or application of various steps. (both remedial and enrichment – as necessary)</p> | |
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