




## Architectural Drafting

Teacher: Jay Fogarty

### January




Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
<p>Understand the concepts, procedures, methods and practices of drafting conventions in order to communicate ideas, and specifications with accuracy and precision.</p> <p>Understand the concepts, processes and procedures of the use of sketches to extend the design process.</p> <p>Understand the concept, procedure and use of replication in order to increase efficiency of design.</p> <p>Understand the concept and procedures for measuring in different coordinate systems.</p> <p>Understand the concepts of planning drawings, and the process of developing construction drawings that communicate the maximum information while adhering to standard conventions.</p> <p>Understand the concepts, processes and procedures of developing charts and schedules.</p> <p>Understand the concepts of measurement processes and procedures of specifying an object in</p>	<p><b>Unit 1 Fundamentals of Architectural Drafting</b></p> <p>- Create and set up a introductory architectural drawing on a CAD system.</p> <p>- Apply measurements, notes and symbols to a architectural drawing.</p> <p>- Identify and name the parts and materials used in a building.</p>	<p>1. Select appropriate media for task / job. AAI4. Technical and Production Skills: Identify specific production and technical skills required for this industry.</p> <p>AAI5. Underlying Principles of Technology: Explain through discussion the technological systems used within this industry</p> <p>2. Demonstrate the use of drawing instruments to complement drafting media</p> <p>3. Construct sketches to conceptualize ideas or objects.</p> <p>4. Construct sketches to describe an object.</p> <p>5. Identify and reproduce forms, shapes, and constraints.</p>	<p>Demonstrate Skill Level by:</p> <p>Lab: CAD 1-7  </p> <p>Work ethics Attitude, Effort &amp; Attendance </p>	<p>Herlihy Autocad Log Cabin</p>

Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
<p>real space.</p> <p>Understand the concepts and procedures used to develop and present a graphic description of a project.</p> <p>Understand the importance of personal growth and leadership to enhance career success</p> <p>Understand the necessary employability skills in order to achieve success in today's workplace</p>		<p>6. Demonstrate and apply coordinate systems.</p> <p>7. Demonstrate planning in the layout process to standards. AAI 4. Technical and Production Skills: Identify specific production and technical skills required for this industry.</p> <p>8. Demonstrate the proper selection of surfaces to construct a drawing.</p> <p>9. Demonstrate view organization and projection.</p> <p>12. Construct proper detail drawing.</p> <p>13. Identify and reproduce material selection.</p> <p>14. Describe an object to: size, location, precision.</p> <p>15. Demonstrate proper placement of dimensions.</p>		

Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
		<p>16. Organize and finalize general notes and attributes.</p> <p>18. Produce visual and/or oral presentation.</p> <p>23. Demonstrate personal growth, leadership, and social responsibility.</p> <p>24. Decision-Making &amp; Problem-Solving: Demonstrate and apply good decision-making and problem-solving skills by outlining issues in situations/problems and determining, collecting, and organizing information needed in order to formulate a solution.</p> <p>25. Self-Management demonstrate and apply self-management skills by adhering to regulations, being responsible, and following through on commitments.</p> <p>26. Communication Skills:</p>		

Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
		<p>Demonstrate and apply effective communication skills: verbal, written, visual, and listening.</p> <p>27. Ability to Work with Others.</p> <p>28. Information Use - Research, Analysis, Technology.</p> <p>29. Mathematical Concepts: Demonstrate mathematical and computation skills as applied to real world situations.</p> <p>30. General Safety: Demonstrate and apply safe practices and procedures in the workplace. AAI 8. Health, Safety, and Environment: Explain the health and safety laws and practices affecting the employee, the surrounding community, and the environment in this industry.</p>		


February 2014

Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
<p>Understand the concepts, procedures, methods and practices of drafting conventions in order to communicate ideas, and specifications with accuracy and precision.</p> <p>Understand the concepts, processes and procedures of the use of sketches to extend the design process.</p> <p>Understand the concept, procedure and use of replication in order to increase efficiency of design.</p> <p>Understand the concept and procedures for measuring in different coordinate systems.</p> <p>Understand the concepts of planning drawings, and the process of developing construction drawings that communicate the maximum information while adhering to standard conventions.</p> <p>Understand the concepts, processes and procedures of developing charts and schedules.</p> <p>Understand the concepts of measurement processes and procedures of specifying an object in real space.</p> <p>Understand the concepts and procedures used to develop and</p>	<p><b>Unit 1 Fundamentals of Architectural Drafting - continued</b></p> <p>- Identify basic house designs.</p> <p>- Identify primary architectural design considerations.</p> <p>-Examine Building Codes that are pertinent residential and commercial building.</p> <p>-Create different plans that are necessary to fully describe a building.</p>	<p>Fundamentals of Architectural Drafting Skills/Proficiencies (continued)</p> <p>1. Select appropriate media for task / job. AAI4. Technical and Production Skills: Identify specific production and technical skills required for this industry.</p> <p>AAI5. Underlying Principles of Technology: Explain through discussion the technological systems used within this industry.</p> <p>2. Demonstrate the use of drawing instruments to complement drafting media.</p> <p>3. Construct sketches to conceptualize ideas or objects.</p> <p>4. Construct sketches to describe an object.</p> <p>5. Identify and reproduce forms, shapes, and constraints.</p>	<p>Demonstrate Skill Level by:</p> <p>Lab: CAD8-15  </p> <p>Work ethics Attitude, Effort &amp; Attendance </p>	<p>Text - Herlihy Autocad Log Cabin.</p>

Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
<p>present a graphic description of a project.</p> <p>Understand the importance of personal growth and leadership to enhance career success</p> <p>Understand the necessary employability skills in order to achieve success in today's workplace</p>	<p><b>Unit 2 Standard Architectural Practices</b></p> <p>- Prepare a first floor plan on a CAD system.</p>	<p>6. Demonstrate and apply coordinate systems.</p> <p>7. Demonstrate planning in the layout process to standards. AAI 4. Technical and Production Skills: Identify specific production and technical skills required for this industry.</p> <p>8. Demonstrate the proper selection of surfaces to construct a drawing.</p> <p>9. Demonstrate view organization and projection.</p> <p>12. Construct proper detail drawing.</p> <p>13. Identify and reproduce material selection.</p> <p>14. Describe an object to: size, location, precision.</p> <p>15. Demonstrate proper placement of dimensions.</p> <p>16. Organize and finalize general</p>		

Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
		<p>notes and attributes.</p> <p>18. Produce visual and/or oral presentation.</p> <p>23. Demonstrate personal growth, leadership, and social responsibility.</p> <p>24. Decision-Making &amp; Problem-Solving: Demonstrate and apply good decision-making and problem-solving skills by outlining issues in situations/problems and determining, collecting, and organizing information needed in order to formulate a solution.</p> <p>25. Self-Management demonstrate and apply self-management skills by adhering to regulations, being responsible, and following through on commitments.</p> <p>26. Communication Skills: Demonstrate and apply effective communication skills: verbal, written, visual, and listening.</p>		




Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
		27. Ability to Work with Others.  28. Information Use - Research, Analysis, Technology.  29. Mathematical Concepts: Demonstrate mathematical and computation skills as applied to real world situations.  30. General Safety: Demonstrate and apply safe practices and procedures in the workplace. AAI 8. Health, Safety, and Environment: Explain the health and safety laws and practices affecting the employee, the surrounding community, and the environment in this industry.		

Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
Understand the concepts, procedures, methods and practices of drafting conventions in order to communicate ideas, and specifications with accuracy and precision.  Understand the concepts, processes	<b>Unit 2 Standard Architectural Practices (continued)</b>  - Understand and use appropriate symbols	Standard Architectural Practices Skills/Proficiencies (continued)	Demonstrate Skill Level by:  Lab: CAD 14-28 	Text - Herlihy Autocad Log Cabin



Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
<p>and procedures of the use of sketches to extend the design process.</p> <p>Understand the concept, procedure and use of replication in order to increase efficiency of design.</p> <p>.Understand the concept and procedures for measuring in different coordinate systems.</p> <p>Understand the concepts of planning drawings, and the process of developing construction drawings that communicate the maximum information while adhering to standard conventions.</p> <p>Understand the concepts, processes and procedures of developing charts and schedules.</p> <p>Understand the concepts of measurement processes and procedures of specifying an object in real space.</p> <p>Understand the concepts and procedures used to develop and present a graphic description of a project.</p> <p>Understand the importance of personal growth and leadership to enhance career success</p> <p>Understand the necessary</p>	<p>relating to architectural drawings.</p> <ul style="list-style-type: none"> <li>- Prepare elevations plans.</li> <li>- Prepare a roof plans.</li> </ul>		<p>Work ethics Attitude, Effort &amp; Attendance <input checked="" type="checkbox"/></p>	

Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
employability skills in order to achieve success in today's workplace				

Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
<p>Understand the concepts, procedures, methods and practices of drafting conventions in order to communicate ideas, and specifications with accuracy and precision.</p> <p>Understand the concepts, processes and procedures of the use of sketches to extend the design process.</p> <p>Understand the concept, procedure and use of replication in order to increase efficiency of design.</p> <p>Understand the concept and procedures for measuring in different coordinate systems.</p> <p>Understand the concepts of planning drawings, and the process of developing construction drawings that communicate the maximum information while adhering to standard conventions.</p>	<p><b>Unit 2 Standard Architectural Practices</b></p> <ul style="list-style-type: none"> <li>- Prepare a detailed section on a CAD system.</li> <li>- Prepare elevation views on a CAD system.</li> <li>- Identify mechanical systems on architectural plans.</li> </ul>	<p>Standard Architectural Practices Skills/Proficiencies (continued)</p>	<p>Demonstrate Skill Level by:</p> <p>Lab: CAD Detailed Section CAD Front Elevation CAD Side Elevation CAD Rear Elevation </p> <p>Quiz </p> <p>Work ethic Attitude, Effort &amp; Attendance </p>	<p>Text - Mechanical Drawing board and CAD Techniques</p>

Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
<p>Understand the concepts, processes and procedures of developing charts and schedules.</p> <p>Understand the concepts of measurement processes and procedures of specifying an object in real space.</p> <p>Understand the concepts and procedures used to develop and present a graphic description of a project.</p> <p>Understand the importance of personal growth and leadership to enhance career success</p> <p>Understand the necessary employability skills in order to achieve success in today's workplace</p>				




Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
<p>Understand the concepts, procedures, methods and practices of drafting conventions in order to communicate ideas, and specifications with accuracy and precision.</p> <p>Understand the concepts,</p>	<p><b>Unit 2 Standard Architectural Practices</b></p> <ul style="list-style-type: none"> <li>- Create a perspective drawing.</li> </ul> <p><b>Unit 3 Computer Based Solid Modeling</b></p> <ul style="list-style-type: none"> <li>- Prepare</li> </ul>	<p>Standard Architectural Practices Skills/Proficiencies (continued)</p>	<p>Demonstrate Skill Level by:</p> <p>Lab: Perspective Drawing</p> <p>Revit - CAD 1</p> <p>Revit- CAD 2</p> <p>Revit - CAD</p>	<p>Text - Mechanical Drawing board and CAD Techniques</p> <p>Residential Design Using Revit Architecture 2012</p>

Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
<p>processes and procedures of the use of sketches to extend the design process.</p> <p>Understand the concept, procedure and use of replication in order to increase efficiency of design.</p> <p>Understand the concept and procedures for measuring in different coordinate systems.</p> <p>Understand the concepts of planning drawings, and the process of developing construction drawings that communicate the maximum information while adhering to standard conventions.</p> <p>Understand the concepts, processes and procedures of developing charts and schedules.</p> <p>Understand the concepts of measurement processes and procedures of specifying an object in real space.</p> <p>Understand the concepts and procedures used to develop and present a graphic description of a project.</p> <p>Understand the importance of personal growth and leadership to enhance career</p>	<p>introductory parametric solid modeling architectural drawings.</p> <p>- Prepare residential parametric solid model drawings</p>	<p>1. Select appropriate media for task / job.</p> <p>AAI4. Technical and Production Skills: Identify specific production and technical skills required for this industry.</p> <p>AAI5. Underlying Principles of Technology: Explain through discussion the technological systems used within this industry</p> <p>2. Demonstrate the use of drawing instruments to complement drafting media</p> <p>3. Construct sketches to conceptualize ideas or objects.</p> <p>4. Construct sketches to describe an object.</p> <p>5. Identify and reproduce forms, shapes, and constraints.</p> <p>6. Demonstrate and apply coordinate systems.</p>	<p>3 <b>CIA</b></p> <p>Quiz <b>CIA</b></p> <p>Work ethics Attitude, Effort &amp; Attendance <b>C</b></p>	

Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
<p>success</p> <p>Understand the necessary employability skills in order to achieve success in today's workplace</p>		<p>7. Demonstrate planning in the layout process to standards.</p> <p>AAI 4. Technical and Production Skills: Identify specific production and technical skills required for this industry.</p> <p>8. Demonstrate the proper selection of surfaces to construct a drawing.</p> <p>9. Demonstrate view organization and projection.</p> <p>12. Construct proper detail drawing.</p> <p>13. Identify and reproduce material selection.</p> <p>14. Describe an object to: size, location, precision.</p> <p>15. Demonstrate proper placement of dimensions.</p> <p>16. Organize and finalize general notes and attributes.</p> <p>18. Produce visual and/or oral presentation.</p>		

Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
		<p>23. Demonstrate personal growth, leadership, and social responsibility.</p> <p>24. Decision-Making &amp; Problem-Solving: Demonstrate and apply good decision-making and problem-solving skills by outlining issues in situations/problems and determining, collecting, and organizing information needed in order to formulate a solution.</p> <p>25. Self-Management demonstrate and apply self-management skills by adhering to regulations, being responsible, and following through on commitments.</p> <p>26. Communication Skills: Demonstrate and apply effective communication skills: verbal, written, visual, and listening.</p> <p>27. Ability to Work with Others:</p> <p>28. Information Use - Research,</p>		

Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
		Analysis, Technology:  29. Mathematical Concepts: Demonstrate mathematical and computation skills as applied to real world situations. 30. General Safety: Demonstrate and apply safe practices and procedures in the workplace. AAI 8. Health, Safety, and Environment: Explain the health and safety laws and practices affecting the employee, the surrounding community, and the environment in this industry		

Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
Understand the concepts, procedures, methods and practices of drafting conventions in order to communicate ideas, and specifications with accuracy and precision. Understand the concepts, processes and procedures of the use of sketches to extend the design process. Understand the concept, procedure and use of	<b><i>Unit 3 Computer Based Solid Modeling</i></b> - Prepare introductory parametric solid modeling architectural drawings. - Prepare residential parametric solid model drawings	Computer Based Solid Modeling Skills/Proficiencies (continued)	Demonstrate Skill Level by:  Lab: Revit-CAD (continued)   Work ethics Attitude, Effort & Attendance   Final 	Text - Mechanical Drawing board and CAD Techniques  Residential Des Using Revit Architecture 2012

Essential Questions/Competencies	Content	Skills/Proficiencies	Assessment	Resources: Materials & Technology
<p>replication in order to increase efficiency of design.</p> <p>Understand the concept and procedures for measuring in different coordinate systems.</p> <p>Understand the concepts of planning drawings, and the process of developing construction drawings that communicate the maximum information while adhering to standard conventions.</p> <p>Understand the concepts, processes and procedures of developing charts and schedules.</p> <p>Understand the concepts of measurement processes and procedures of specifying an object in real space.</p> <p>Understand the concepts and procedures used to develop and present a graphic description of a project.</p> <p>Understand the importance of personal growth and leadership to enhance career success</p> <p>Understand the necessary employability skills in order to achieve success in today's workplace</p>				



