Model Programs of Study Guide: Architecture, Construction, & Energy

**ORIENTATION / INTRODUCTION**
Grades 9–10
- Computer Applications for Business
- Intro to Technology, Trades, and Engineering or Intro to Engineering Design

**SKILL DEVELOPMENT**
Grades 10–12
- Construction Trades I (w/ Geometry in Construction)
- Introductory CAD
- Construction Trades II (w/ Geometry in Construction)
- Intro to Management or Financial Accounting

**CAPSTONE / ADVANCED**
Grades 12
- Construction Trades I (w/ Geometry in Construction)
- Intro to Technology, Trades, and Engineering or Intro to Engineering Design

**POSTSECONDARY COURSES**
Recommended 1st Year
- Apprenticeship Training or Certificate Course Sequence
- HVACR & Weatherization
- Architectural Technology / CAD
- Guided Transfer: Architecture
- Guided Transfer: Surveying

**SELECTED OCCUPATIONS, WAGES, & JOB GROWTH**

<table>
<thead>
<tr>
<th>Program</th>
<th>Typical Job</th>
<th>Year or Above Living Wage Threshold for 1 Adult + 1 Child</th>
<th>Median Hourly Wage</th>
<th>Growth in IL: Annual Job Openings</th>
<th>Growth in IL: % Change Over 10 years</th>
<th>Stackable?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a</td>
<td>Construction Trades</td>
<td>Construction Carpenters Y</td>
<td>$33.22</td>
<td>1,230</td>
<td>6%</td>
<td>Not Typically Stackable</td>
</tr>
<tr>
<td>1b</td>
<td>Energy Technicians</td>
<td>Electricians Y</td>
<td>$36.71</td>
<td>2,560</td>
<td>7%</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>HVACR &amp; Weatherization</td>
<td>HVACR Trades Apprenticeships &amp;/or Certificates Y</td>
<td>$43.85</td>
<td>2,560</td>
<td>14%</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Architecture, CAD, and Surveying</td>
<td>Architects Y</td>
<td>$36.05</td>
<td>3,000</td>
<td>0%</td>
<td>Typically Stacks to Related Bachelor’s Programs at Select IL Universities</td>
</tr>
<tr>
<td>4</td>
<td>Construction &amp; Energy Management</td>
<td>Construction Managers Y</td>
<td>$43.50</td>
<td>960</td>
<td>7%</td>
<td>Typically Stacks to Related Bachelor’s Programs at Most IL Universities</td>
</tr>
</tbody>
</table>

- Living wage calculations are based on: Glasmeier, Amy K. Living Wage Calculator. 2020. Massachusetts Institute of Technology. livingwage.mit.edu. As of January 2021 for the state of Illinois, the “Living Wage” for 1 Adult + 1 Child equalled $26.37/hour and “year” defined as 85% of that statewide living wage, was $22.33/hour. In March of 2021, the Living Wage Calculator updated its calculations for Illinois, but information presented in this guide reflects the wage levels as of January 2021, when the project team conducted its analysis.


- 3. Estimate derived from data available on CareerOneStop.