

**Secondary to Postsecondary Pathway for  
Design/Pre-Construction: Architect**

**Suggested High School Courses**

|                    |                  |                                |   |  |
|--------------------|------------------|--------------------------------|---|--|
| <b>High School</b> | 9 <sup>th</sup>  | <b>Core Academic Courses*:</b> | English 9, American Government or Geography, Earth Science, Algebra 1 or Algebra Principles or Honors Algebra 1, Physical Education | <b>Suggested Electives:</b><br>Basic Drawing                               |
|                    |                  | <b>Career Path Courses:</b>    | CADD Applications Basic, CADD Applications Intermediate   |  |
|                    | 10 <sup>th</sup> | <b>Core Academic Courses*:</b> | English 10, American History, Biology, Geometry or Geometry or Principles, or Honors Geometry                                       | <b>Suggested Electives:</b><br>Drawing Intermediate, Business Fundamentals |
|                    |                  | <b>Career Path Courses:</b>    | CADD Architecture Intermediate, CADD 3-Dimensional Applications   |  |
|                    | 11 <sup>th</sup> | <b>Core Academic Courses*:</b> | English 11, Algebra 2 or Honors Algebra 2 or Algebra 2 for Process Science, World History   | <b>Suggested Electives:</b><br>Interior Design, Business Law               |
|                    |                  | <b>Career Path Courses:</b>    | Math Modeling in CADD 3-D Architecture, Construction Technology   |  |
|                    | 12 <sup>th</sup> | <b>Core Academic Courses*:</b> | English 12, Government/Economics, Math Analysis/Trigonometry  | <b>Suggested Electives:</b><br>Computer Applications, Forensics            |
|                    |                  | <b>Career Path Courses:</b>    | Project Lead the Way – Civil Engineering/Architecture   |  |


**Secondary to Postsecondary Linkages & Certifications**

**Postsecondary Credit Options:**

Computer Aided Drafting I and II (CAD 101 and 102); Drafting & Design I and II (EGT 230 and 231); Intro to Energy Technologies ( ENY 101) and Green and Sustainable Building (ENY 205)

**Red Rocks Community College Department of High School Relations:** For more information on postsecondary course options for high school students and for admission to RRCC, please contact, Ernie Navarette at 303-914-6320 or [ernie.navarette@rrcc.edu](mailto:ernie.navarette@rrcc.edu).

\*\*\* This document is a guide only. It does not act as a legally binding contract.

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|   | <p><b>Pathway: Design/Pre-Construction</b></p> | <p><b>Plan of Study: Architect</b></p>   |
| <p><b>Career Goal (O*Net Code):</b><br/> <a href="#">17-1011.00</a> Architects<br/> <a href="#">17-3011.00</a> Architectural and Civil Drafters<br/> <a href="#">17-3011.01</a> Architectural Drafters<br/> <a href="#">173011.02</a> Civil Drafters<br/> <a href="#">17-3019.99</a> Drafters<br/> <a href="#">17-1012.00</a> Landscape Architects</p> |  | <p><b>Relevant Occupational Experience (Your Life Experiences may be worth College Credit!):</b><br/> <a href="#">CCCCS Credit for Prior Learning Guide</a></p> <p>Contact Delia Ochoa (<a href="mailto:delia.ochoa@rrcc.edu">delia.ochoa@rrcc.edu</a>) for inquiries concerning earning college credit for life experience in computer aided drafting.</p> <p><a href="#">LMI Gateway Link to Related Occupations</a></p> |

**Possible Pathways to your Career!**

|                       | Programs Available   | Program Length<br>(*Based on meeting Program Entrance Requirements) | Estimated Tuition                                       | Career Options   | Salary Range |
|-----------------------|--|---|---|--|--------------|
| Certificate Option(s) | Intro to AutoCAD<br>Architectural<br>Civil<br>Revit<br>Drafting<br>Sustainable Design Applications | 6 cr.<br>27 cr.<br>15 cr.<br>6 cr.<br>17 cr.<br>6 cr.               | \$802<br>\$3,496<br>\$1,957<br>\$802<br>\$2213<br>\$802 | Architectural Drafters, Civil Drafters<br>Model Builder, Renderer                      | \$ - \$\$    |
| Associate Degree(s)   | Architectural<br>Civil   | Both degrees are 61 credits   | \$7667  | Building Code Official, Surveying Mapping Technician,<br>Civil Engineering Technicians | \$ - \$\$\$  |

Articulation Opportunities to Advanced Degrees:

|                    |  |  |   |  |                 |
|--------------------|--|--|---|--|-----------------|
| Advanced Degree(s) | <p>Bachelor's Degrees:</p> <p>Landscape Architecture, Civil Engineering, Architectural Engineering, Architecture, Civil Engineering, Civil, Electrical, Environmental &amp; Mechanical Engineering, Civil Engineering Technology</p>         | Associates Degree + 60+ Credits        | For more information about colleges that have these programs go to <a href="http://www.CollegeinColorado.org">www.CollegeinColorado.org</a> | Cost Estimator, Electrical Engineer, Landscape Designer, Urban Planner                                       | \$ - \$\$\$     |
|                    | Graduate Degree: Horticulture and Landscape Architecture, MS, Civil, environmental & architectural engineering, MS & PhD, Civil Engineering, MS, ME, PhD, Architecture, M. Arch., Landscape Architecture, M.L.A., Civil Engineering, MS, PhD | Bachelor's Degree + 30 or more credits | For more information about colleges that have these programs go to <a href="http://www.CollegeinColorado.org">www.CollegeinColorado.org</a> | Architects, Civil Engineers, Industrial Designer, Preservationist, Structural Engineer, Instructor/Professor | \$-<br>\$\$\$\$ |

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|--|--|--|--|
| <a href="#">College Tuition Comparison Guide</a> |  |  |  |
|--|--|--|--|

\* \$ = \$15-25,000; \$\$ = \$25-55,000; \$\$\$ = \$55-90,000; \$\$\$\$ = Above \$90,000

**Extended Learning Experiences**

**Support Structures:**

*Childcare facilities, Counseling Services, Tutoring Services, Academic Advising and Career Counseling*

<http://www.rrcc.edu/advising/>

**Financial Aid:**

*Federal Student Loans, Pell Grant, RRCC Foundation Grant*

<http://www.rrcc.edu/finaid/>

**Professional Affiliations**

American Institute of Architects  
 American Institute of Contractors  
 Associated Builders and Contractors  
 Associated General Contractors  
 Construction Management Association  
 Design Build Institute of America  
 Society of Women in Construction  
 Colorado Society of Architects

**Practical Learning Experiences:**

Job Shadowing  
 Internship  
 Construction Clean-up  
 Habitat for Humanity  
 Painter

Red Rocks Community College is accredited by the Higher Learning Commission and a member of the North Central Association of Colleges and Schools.

Red Rocks Community College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. Please direct inquiries to: : Bill Dial, Director of HR, Red Rocks Community College, 13300 W. 6<sup>th</sup> Ave., Lakewood, CO 80228