Mountainside High School Key Carrer Pathway Academic Required Courses Industrial & Engineering -Career Pathway Recommended Courses/Learner Activities **Building Construction Pathway** Articulated Courses This program of study should serve as a guide, along with other career planning materials, as you continue your career 1-year Certificate path. Courses listed within this plan are only recommended coursework and should be individualized coursework to meet AAS Degree each learner's educational and career goals. University Proposed Pathway Course Degree Other Required English / Social Studies / Courses and **Career Pathway Recommended Courses** or Diploma **Education Levels Core Classes** and/or Learning Activities Grade **Language Arts** Math Science Sciences **Electives** Grade Level PROGRAM OF STUDY Diploma Woodworking 1 America in a PE 1, World AGS 1 STEM Physics Global Context I 9 Lit and Comp 9 Language Woodworking 2 America in a Health 1, World CAD 1 10 Lit and Comp 10 AGS 2 STEM Chemistry Global Context II Language Construction 1 Biology Post Secondar **IB Global Polotics** 11 Lit and Comp 11 AGS 3 PE 2 CAD 2 Prep -Additional Year or Construction 2 semester of IB Math Health 2 HS 12 Lit and Comp 12 Applications SL Science **IB** Economics **TERM** PROGRAM OF STUDY Certificates/Degrees/Occupations BCT 103 BCT 106 BCT 102 Residential **BCT 104** Hand Tool/ **FIRST** 1-year Certificate in Building Construction Residential Materials Construction Power Tool Use & **TERM** Printreading and Methods Mathematics Safety Technology BCT 101 **ARCH 132 ARCH 110** Principles of **BCT 127** Residential Intro to SECOND Building Construction Concrete Architectural Minimum 37 credits. **TERM** Surveying Construction I Codes Drawing Students must meet all certificate requirements. Career possibilities exist for those going into business for themselves or seeking employment in the construction industry. PCC offers associate degrees and a certificate in several construction industry specialties. This program is designed to help students develop the technical qualifications and life skills **THIRD** BCT 122 BCT 120 BCT 121 BCT 123 needed to enter the construction industry, as well as **TERM** Floor Framing Wall Framing Roof Framing I Roof Framing II

PCC	FOURTH TERM TERM	BCT 102	BCT 103	ROGRAM OF STUDY	BCT 106			to help those currently in the construction trades upgrade and learn new skills. Certificates/Degrees/Occupations
	FIRST TERM	Residential Printreading	Residential Materials and Methods	Construction Mathematics	Hand Tool/ Power Tool Use & Safety	General Education		Associate of Applied Science Building Construction Technology CIPS# 151001
	SECOND TERM	BCT 135 Residental Building Codes	BCT 127 Concrete Construction I	COMM 215 Small Group Communication: Process and Theroy	ARCH 110 Intro to Architectural Drawing	BCT Elective	General Educator	Minimum of 100 credits Graduates might work in the construction field as framers, carpenters, remodelers, site supervisors, concrete workers, siding installers, roofers, trim carpenters, etc. After gaining job site experience, graduates might even start their own construction
	THIRD TERM	BCT 120 Floor Framing	BCT 121 Wall Framing	BCT 122 Roof Framing I	BCT 123 Roof Framing II	BCT 118 Introduction to Space Planning and Design		
	FOURTH TERM	BCT 128 Exterior Finish	BCT 129 Mechanical Planning for Kitchens and Baths	BCT 223 Finished Stair Construction	BCT 229 Introduction to Kitchens and Baths	Associate Degree Requirements an Applied Science I Students must co	e Comprehensive d Associate of Requirements. omplete a total of	companies. Coursework includes hands-on instruction in the BCt shop, or at the BCt worksite in tool safety residential worksite, in tool safety, residential Concrete, Floor/Wall/roof Framing,
	FIFTH TERM	BCT 203 Interior Finish	BCT 219 Cabinetmaking	General Education		sixteen credits of General Education. Some courses specified within the program may be used as General Education. Math/computation competency is met through the courses in the program of study indicated with a § symbol. Students should consult with program advisors for course planning.		exterior/interior Finish, Cabinetmaking, and remodeling. Classroom instruction consists of lectures and exercises that will teach skills in residential Printreading, Materials and Methods, Building Codes, estimating, Construction Math, drafting, and sustainable Building
PCC	SIXTH TERM	BCT 206 Sustainable Constuction Practices	BCT 204B Construction Estimating - Residential	BCT 211 Remodeling	WR 227 Technical Writing			

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