



Career Plan of Study—Baker High School



Pathway Options: Design/Pre-Construction, Construction, Maintenance and Operations

Overview: Careers in the Architecture and construction career cluster involve designing, planning, managing, building and maintaining the built environment.

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner’s educational and career goals. All plans should meet high school graduation requirements as well as college entrance requirements.

	9th Grade	10th Grade	11th Grade	12th Grade
High School	*English 9 *Math	*English 10 *Math	*Composition 11/English Electives	*Composition 12/English Electives
	*PE/Health *Computer Apps I	*PE/Health *Biology I	Or AP English	Or AP English
	*Earth Science		*US History *Math	*PAD (Govt.)
	*World History		*Speech	
	Career Electives: Beginning Ag Welding	Career Electives: Construction, Woodworking, Geometry	Career Electives: Ag Welding, Construction, Woodworking, Drafting I, Algebra II/Trig, Pre-Calc.	Career Electives: Ag Welding, Construction, Woodworking, Drafting II, AP Calculus,
Sample of Post-Secondary Degrees	2 Year College/Vo-Tech		College/University	
	City College —Carpentry, Asst Drafter Highlands College —Line Program, Carpentry, Historic Preservation, Pre-apprentice Great Falls College —Carpentry Helena College —Construction Tech (Carpentry and Drafting) Missoula College —Building Maintenance, Carpentry,	Flathead Valley CC —HVAC, Sheridan College —Construction Tech, Carpentry NW-Powell —Drafting Tech, Surveying Casper —Construction Tech, Drafting and Design, Robotic Technology, Machine Tool Technology, Manufacture Technology SDSMT — Occupational Safety	BHSU - Industrial Technology MSU -Construction Engineering Tech Mgmt, Environmental Design/Architecture, Land Surveying MSU-Northern - Plumbing SDSMT – Construction Mgmt, Geospatial Tech	
Activities & Employment	Suggested Extra-Curricular Activities		Suggested Volunteer/Employment Opportunities	
	FFA BPA 4-H Scouting		Habitat for Humanity Construction Supply Retailer Construction Work Community Construction Work Volunteer	

* Required for graduation at BHS



Advanced Learning Opportunities - High School to College/Career Linkages
 Dual Credit: See School Counselor for available opportunities
 Advanced Placement: See BHS Schedule for AP offerings
 Online Learning: Approval of online credits must be obtained from Principal

Sample Occupations and Degree Areas	Military	Associate's Degree
	<ul style="list-style-type: none"> ◆ Requires High School Diploma or GED ◆ 17 years old with parental consent, 18 without ◆ For more information go to: http://todaysmilitary.com 	<ul style="list-style-type: none"> ◆ Requires diploma or GED ◆ 60-72 credits; includes 15-25 general education credits ◆ Complete in 2 years (<i>if prepared academically in math and English</i>) ◆ Examples: Building Tech and Trades, Carpentry, Construction Technology, Plumbing, Surveying and Mapping Technician
	Professional Certificate	Bachelor's Degree
	<ul style="list-style-type: none"> ◆ Requires High School Diploma or GED ◆ Less than 30 credits; little/no general education credits ◆ Complete in one year or less ◆ Examples: Cabinet and Furniture Construction, Utility Line Worker 	<ul style="list-style-type: none"> ◆ Requires 4-year college prep for admission ◆ Approximately 128 credits ◆ Complete in four years ◆ Examples: Civil Engineering, Construction Engineering Tech, Environmental Design/ Architecture, Cartologist
	Apprenticeship	Graduate Degree
	<ul style="list-style-type: none"> ◆ Requires High School Diploma or GED ◆ Must be at least 18 ◆ Minimum 2,000 hours of supervised experience ◆ Examples: Bricklayers, Building Maintenance Workers, Carpenters, Cement Masons, Electricians, Glaziers, Plumbers, Pipefitters, Sheet Metal Workers 	<ul style="list-style-type: none"> ◆ Requires education beyond Bachelor's Degree ◆ Examples: Architect, Landscape Architect
Certificate of Applied Science		
<ul style="list-style-type: none"> ◆ Requires High School Diploma or GED— Complete in 1 year or less ◆ 30-45 credits; limited general education credits ◆ Examples: Carpentry, HVAC, Plumbing, Building Maintenance 		
Requirements	Baker High School Graduation	Montana University System College Entrance
	4 credits English 3 credits Social Studies 3 credits Math 2 credits Science (1 Physical, 1 Biological) 2 credits PE/Health 1 credit Fine Arts 1 credit Vocational/Practical Arts (.5 must be Document Formatting) .5 credit Speech 5.5 credits Electives TOTAL 22 CREDITS	4 credits English 3 credits Social Studies 3 credits Math (Algebra I, II, and Geometry) 2 credits Science 2 credits Electives Rigorous Core Courses include: 1 additional credit Math 1 additional credit Science 1 additional credit Elective Visit www.mus.edu for further information

For more information regarding **Career Clusters** visit www.careerclusters.org. For more information regarding **Occupations and Higher Education** visit <http://mtcis.intocareers.com>.
 For more information regarding **Job Searches** visit <http://jobs.mt.gov>.