

# Cluster: Architecture & Construction



## Nebraska Sample Personal Learning Plan

School Counseling	Education Levels	GRADE	English/ Language Arts	Math	Science	Social Studies	Nebraska Career Education Program of Study	Requirements & Electives	Extended Learning School/Community Activities		
<p><b>Preparing all student for lifelong learning, learning and living.</b></p> <ul style="list-style-type: none"> <li>•Career Development using NCE model</li> <li>•Academic/Career counseling</li> <li>•Assessments of interests, skills, college &amp; career readiness</li> <li>•Goal setting</li> <li>•Personal Learning Plans</li> <li>•Extended learning</li> <li>•Parental involvement</li> <li>•Programs of Study</li> <li>•Postsecondary credit</li> <li>•Seamless transitions to college &amp; careers</li> </ul>	<b>MIDDLE SCHOOL</b>	7	English 7	Math 7	Science 7	Social Studies 7	NCE C4C Curriculum for Careers Keyboarding Applications Computer Applications Exploring Industrial, Manufacturing, and Engineering Systems Technology Education Gateway to Technology	World Languages & Cultures Physical Education Exploration of Entrepreneurship	<p><i>School Activities :</i></p> <ul style="list-style-type: none"> <li>▶ SkillsUSA</li> <li>▶ OPPD/NPPD Power Drive</li> <li>▶ FFA</li> <li>▶ Math Club</li> <li>▶ MATHCOUNTS</li> </ul> <p><i>Community Activities :</i></p> <ul style="list-style-type: none"> <li>▶ Connect with architects in your area</li> <li>▶ Do home repair projects</li> <li>▶ Learn about the history of the buildings in your community</li> <li>▶ Work with a contractor</li> <li>▶ Join professional organizations in this career cluster</li> <li>▶ Part-time employment available within this career cluster</li> <li>▶ Internships available within this career cluster</li> </ul>		
		8	English 8	Math 8	Science 8	Social Studies 8					
	<b>SECONDARY</b>	9	English/ Language Arts I	Algebra I	Physical Science	Geography	Intro to the Built Environment The Language of Architecture & Construction Principles of Maintenance & Operations	World Languages & Cultures Physical Education Health Education Information Technology Applications I Entrepreneurship CAD (Computer Aided Drafting) Principles of Design and Pre-construction Principles of Construction Housing & Home Furnishings			
		10	English/ Language Arts II	Geometry	Biology	World History					
		11	English/ Language Arts III	Algebra II	Chemistry	American History					
		12	English/ Language Arts IV	Intro to Statistics Discrete/Finite Math Pre-Calc	Physics	American Govt. or Economics					
	A sample of postsecondary courses that may be offered or required is provided as a guide. Required courses vary by postsecondary institution. As Nebraska develops stronger statewide connections between secondary and postsecondary, the options will be updated.										
	<b>POSTSECONDARY</b>	Year 13	English Composition English Literature	College Algebra	Physics	American Govt. or History Psychology	Continue courses pertinent to the pathway selected; confer with your advisor for sequencing.				
		Year 14	Speech/Oral Communication	Trigonometry	Environmental Science	Sociology Business Law					
		Year 15	Continue courses in the area of specialization								
		Year 16	Continue courses in the area of specialization								

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# Cluster: Architecture & Construction

## Pathway: Construction



### Nebraska Sample Personal Learning Plan

School Counseling	Education Levels	Grade	English/ Language Arts	Math	Science	Social Studies	Nebraska Career Education Program of Study	Requirements & Electives	Extended Learning School/Community Activities		
<p><b>Preparing all student for lifelong learning, learning and living.</b></p> <ul style="list-style-type: none"> <li>• Career Development using NCE model</li> <li>• Academic/Career counseling</li> <li>• Assessments of interests, skills, college &amp; career readiness</li> <li>• Goal setting</li> <li>• Personal Learning Plans</li> <li>• Extended learning</li> <li>• Parental involvement</li> <li>• Programs of Study</li> <li>• Postsecondary credit</li> <li>• Seamless transitions to college &amp; careers</li> </ul>	MIDDLE SCHOOL	7	English 7	Math 7	Science 7	Social Studies 7	NCE C4C Curriculum for Careers Keyboarding Applications Computer Applications	World Languages & Cultures Physical Education Health Education	<p><i>School Activities:</i></p> <ul style="list-style-type: none"> <li>▶ SkillsUSA</li> <li>▶ OPPD/NPPD Power Drive</li> <li>▶ FFA</li> <li>▶ Math Club</li> <li>▶ MATHCOUNTS</li> </ul> <p><i>Community Activities:</i></p> <ul style="list-style-type: none"> <li>▶ Connect with architects in your area</li> <li>▶ Do home repair projects</li> <li>▶ Learn about the history of the buildings in your community</li> <li>▶ Work with a contractor</li> <li>▶ Join professional organizations in this career cluster</li> <li>▶ Part-time employment available within this career cluster</li> <li>▶ Internships available within this career cluster</li> </ul>		
		8	English 8	Math 8	Science 8	Social Studies 8	Exploring Industrial, Manufacturing, and Engineering Systems Technology Education Gateway to Technology	Exploration of Entrepreneurship			
	SECONDARY	9	English/ Language Arts I	Algebra I	Physical Science	Geography	Intro to the Built Environment	World Languages & Cultures Physical Education Health Education			
		10	English/ Language Arts II	Geometry	Biology	World History	<i>Plus two from the following list:</i> Principles of Construction Applications in Construction Electricity in the Construction Industry Electricity - Comprehensive	Information Technology Applications Entrepreneurship CAD (Computer Aided Drafting) Construction Drafting Housing and Home Furnishings Manufacturing/Woodworking			
		11	English/ Language Arts III	Algebra II	Chemistry	American History					
		12	English/ Language Arts IV	Intro to Statistics Discrete/Finite Math Pre-Calc	Physics	American Govt. or Economics					
	POSTSECONDARY	A sample of postsecondary courses that may be offered or required is provided as a guide. Required courses vary by postsecondary institution. As Nebraska develops stronger statewide connections between secondary and postsecondary, the options will be updated.									
		Year 13	English Composition English Literature	College Algebra Trigonometry	Physics	American Govt. or History Psychology	Advanced Plan Reading Construction Ethics & Legal Issues				
		Year 14	Speech/Oral Communication	Business Accounting Pre-Calc or Calc	Environmental Science	Sociology Business Law	Technical Applications in the Construction Industry Construction Internship				
		Year 15	Continue courses in the area of specialization					Continue courses in the area of specialization			
		Year 16	Continue courses in the area of specialization					Complete Construction Major (4-Year Degree Program)			

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# Cluster: Architecture & Construction

## Pathway: Design & Pre-construction



### Nebraska Sample Personal Learning Plan

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<p><b>Preparing all student for lifelong learning, learning and living.</b></p> <ul style="list-style-type: none"> <li>• Career Development using NCE model</li> <li>• Academic/Career counseling</li> <li>• Assessments of interests, skills, college &amp; career readiness</li> <li>• Goal setting</li> <li>• Personal Learning Plans</li> <li>• Extended learning</li> <li>• Parental involvement</li> <li>• Programs of Study</li> <li>• Postsecondary credit</li> <li>• Seamless transitions to college &amp; careers</li> </ul>	<b>MIDDLE SCHOOL</b>	7	English 7	Math 7	Science 7	Social Studies 7	NCE C4C Curriculum for Careers Keyboarding Applications Computer Applications Exploring Industrial, Manufacturing, and Engineering Systems Technology Education Gateway to Technology	World Languages & Cultures Physical Education Health Education Exploration of Entrepreneurship	<p><i>School Activities:</i></p> <ul style="list-style-type: none"> <li>▶ SkillsUSA</li> <li>▶ OPPD/NPPD Power Drive</li> <li>▶ Math Club</li> <li>▶ MATHCOUNTS</li> </ul> <p><i>Community Activities:</i></p> <ul style="list-style-type: none"> <li>▶ Connect with architects in your area</li> <li>▶ Do home repair projects</li> <li>▶ Learn about the history of the buildings in your community</li> <li>▶ Work with a contractor</li> <li>▶ Join professional organizations in this career cluster</li> <li>▶ Part-time employment available within this career cluster</li> <li>▶ Internships available within this career cluster</li> </ul>		
		8	English 8	Math 8	Science 8	Social Studies 8					
	<b>SECONDARY</b>	9	English/ Language Arts I	Algebra I	Physical Science	Geography	Intro to the Built Environment	World Languages & Cultures Physical Education Health Education Information Technology Applications I Entrepreneurship CAD (Computer Aided Drafting) Construction Principles of Construction			
		10	English/ Language Arts II	Geometry	Biology	World History	<i>Plus two from the following:</i> Language of Architecture & Construction Principles of Design & Pre-construction Applications in Design & Pre-construction Intro to Architecture Technology Housing & Home Furnishings				
		11	English/ Language Arts III	Algebra II	Chemistry	American History					
		12	English/ Language Arts IV	Intro to Statistics Discrete/Finite Math Pre-Calc	Physics	American Govt. or Economics					
	<b>POSTSECONDARY</b>	A sample of postsecondary courses that may be offered or required is provided as a guide. Required courses vary by postsecondary institution. As Nebraska develops stronger statewide connections between secondary and postsecondary, the options will be updated.									
		Year 13	English Composition English Literature	College Algebra Trigonometry	Physics	American Govt. or History Psychology	Intro to Architectural Technology Design & Pre-construction Internship				
		Year 14	Speech/Oral Communication	Business Accounting Pre-Calc or Calc	Environmental Science	Sociology Business Law	Technical App. of Design & Pre-cnstrctn. Continue Design & Pre-construction Internship				
		Year 15	Continue courses in the area of specialization								
		Year 16	Continue courses in the area of specialization					Complete Design & Pre-construction Major (4-Year Degree Program)			

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# Cluster: Architecture & Construction

## Pathway: Maintenance Operations



### Nebraska Sample Personal Learning Plan

School Counseling	Education Levels	Grade	English/ Language Arts	Math	Science	Social Sciences	Nebraska Career Education Program of Study	Requirements & Electives	Extended Learning School/Community Activities		
<p><b>Preparing all student for lifelong learning, learning and living.</b></p> <ul style="list-style-type: none"> <li>• Career Development using NCE model</li> <li>• Academic/Career counseling</li> <li>• Assessments of interests, skills, college &amp; career readiness</li> <li>• Goal setting</li> <li>• Personal Learning Plans</li> <li>• Extended learning</li> <li>• Parental involvement</li> <li>• Programs of Study</li> <li>• Postsecondary credit</li> <li>• Seamless transitions to college &amp; careers</li> </ul>	<b>MIDDLE SCHOOL</b>	7	English 7	Math 7	Science 7	Social Studies 7	NCE C4C Curriculum for Careers Keyboarding Applications Computer Applications	World Languages & Cultures Physical Education Health Education	<p><i>School Activities:</i></p> <ul style="list-style-type: none"> <li>▶ SkillsUSA</li> <li>▶ OPPD/NPPD Power Drive</li> <li>▶ FFA</li> <li>▶ Math Club</li> <li>▶ MATHCOUNTS</li> </ul> <p><i>Community Activities:</i></p> <ul style="list-style-type: none"> <li>▶ Connect with architects in your area</li> <li>▶ Do home repair projects</li> <li>▶ Learn about the history of the buildings in your community</li> <li>▶ Work with a contractor</li> <li>▶ Join professional organizations in this career cluster</li> <li>▶ Part-time employment available within this career cluster</li> <li>▶ Internships available within this career cluster</li> </ul>		
		8	English 8	Math 8	Science 8	Social Studies 8	Exploring Industrial, Manufacturing, and Engineering Systems Technology Education Gateway to Technology				
	<b>SECONDARY</b>	9	English/ Language Arts I	Algebra I	Physical Science	Geography	Intro to the Built Environment	World Languages & Cultures Physical Education Health Education			
		10	English/ Language Arts II	Geometry	Biology	World History	<i>Plus two from the following:</i> Principles of Maintenance Operations Restoration & Repair of Existing Structures	Information Technology Applications I Entrepreneurship CAD (Computer Aided Drafting) Construction			
		11	English/ Language Arts III	Algebra II	Chemistry	American History		Principles of Construction Principles of Design and Pre-Construction			
		12	English/ Language Arts IV	Intro to Statistics Discrete/Finite Math Pre-Calc	Physics	American Govt. or Economics					
	<b>POSTSECONDARY</b>	A sample of postsecondary courses that may be offered or required is provided as a guide. Required courses vary by postsecondary institution. As Nebraska develops stronger statewide connections between secondary and postsecondary, the options will be updated.									
		Year 13	English Composition English Literature	College Algebra	Physics	American Govt. or History Psychology	Basic Troubleshooting Procedures Restoration & Repair of Existing Structures				
		Year 14	Speech/Oral Communication	Trigonometry	Environmental Science	Sociology Business Law	Technical Applications of Maintenance Operations Maintenance/Operations Internship				
		Year 15	Continue courses in the area of specialization					Continue courses in the area of specialization			
		Year 16	Continue courses in the area of specialization					Complete Maintenance/Operations Major (4-Year Degree Program)			

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