

**Architecture and Construction Career Cluster
Resource List**

Resource	Author / Publisher	Location	Notes	POS
Building Codes, How They Help You	International Code Council	http://www.iccsafe.org/safety/Documents/BSW-BldgCodes-How.pdf	A brochure describing the history and purpose of building codes.	All POS
Building Construction	UnderstandConstruction.com	http://www.understandconstruction.com/construction-technology.html	This site provides detailed information about the materials, components, and systems of a building.	All POS
Building Your Google Toolkit	Jeff Dunn	http://dailygenius.com/google-tools/	Article titled "20 Google tools teachers should try (and how to use them in classrooms)."	All POS
Bureau of Labor Statistics	US Department of Labor	http://www.bls.gov/	The site allows students to navigate through real time career opportunities.	All POS
Construction Math Toolbox	Construction Center of Excellence	http://www.constructioncenterofexcellence.com/educator/construction-math-toolbox/	The toolbox provides industry relevant math lessons with supplemental academic and career guidance information.	All POS
Construction Science, What Can I Do With This Major?	What Can I Do With This Major - The University of Tennessee	http://whatcanidowiththismajor.com/major/construction-science/	Provides general information about employers and areas of work for those with a degree in Construction Science. Also includes links to related professional associations and job postings.	All POS
International Code Council Online Library	International Code Council	http://publiccodes.cyberregs.com/icod/index.htm	Free viewing of international building codes.	All POS
O*Net OnLine	U.S. Dept. of Labor/Employment and Training Administration	http://www.onetonline.org/	Provides comprehensive career profiles of the tasks, tools, technology, knowledge, skills, abilities, work activities of individual careers.	All POS

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Occupational Safety & Health Administration	OSHA	https://www.osha.gov/index.html	OSHA assures safe and healthful working conditions for working men and women by setting and enforcing standards and by providing training, outreach, education and assistance.	All POS
Resumes & Interviewing	The University of Tennessee Knoxville, Center for Career Development	http://career.utk.edu/students/resumes-interviewing/	Available resources include a resume writing guide and interview preparation guide and more.	All POS
SketchUp Make	SketchUp	http://www.sketchup.com/download	An opportunity to download free software for educational use to create 3D models.	All POS
U.S. Green Building Council Website	USGBC	http://www.usgbc.org/	Learn about green building and view information on LEED rating systems.	All POS
5 Must-Have Construction Technology Tools	Stephanie Faris	http://www.smallbiztechnology.com/archive/2013/05/5-must-have-construction-technology-tools.html/	The article lists five different mobile technologies and explains how the technologies assist contractors.	RCC; SS; MEP
An Owner's Guide to Project Delivery Methods	The Construction Management Association of America (CMAA)	https://cmaanet.org/files/Owners%20Guide%20to%20Project%20Delivery%20Methods%20Final.pdf	This introductory guide compares various project delivery methods, outlining the pros and cons of each and the roles of the project manager in each.	RCC; SS; MEP
Best Construction Jobs	U.S. News & World Report	http://money.usnews.com/careers/best-jobs/rankings/best-construction-jobs	U.S. News & World Report ranks the best jobs in construction for 2014.	RCC; SS; MEP

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Codes Enforcement Section	Tennessee Department of Commerce & Insurance	http://www.tn.gov/commerce/section/fire-prevention	The Department of Commerce & Insurance adopts and monitors the safety codes/standards to afford a reasonable degree of life and property during construction, alteration, and remodeling.	RCC; SS; MEP
Construction Industry Research & Policy Center	University of Tennessee Knoxville, Construction Research & Policy Center	http://ilab.engr.utk.edu/cirpc/index.html	Available resources include a STOP Construction Falls presentation and a Roofing Safely App.	RCC; SS; MEP
Construction Today	Construction Today	http://www.construction-today.com/	Digital and print construction magazine that includes company profiles.	RCC; SS; MEP
Electronic Library of Construction Occupational Safety & Health	The Center for Construction Research and Training	http://www.elcosh.org/index.php	The website contains a compilation of construction occupational safety and health presentations, images, videos, handouts, research reports, and additional training materials.	RCC; SS; MEP
Home Builders Institute	HBI	http://www.hbi.org/	Provides training materials and credentialing for entry-level construction students.	RCC; SS; MEP
How Mobile Technologies are Boosting Construction Site Efficiency	Paul Bedard	http://www.areadevelopment.com/AssetManagement/April2013/construction-site-mobile-project-management-272725.shtml	An article describing how mobile technologies help construction managers through the phases of construction.	RCC; SS; MEP
NCCER Website	NCCER	http://www.nccer.org/	An education foundation created to help develop a safe and productive workforce. Provides training materials and credentialing for construction students.	RCC; SS; MEP

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NIOSH Construction Trades, Potentially Applicable Checklists	The National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention (CDC)	http://www.cdc.gov/niosh/docs/2004-101/chklists/vpa35.htm	A series of sample safety self-inspection checklists for a number of areas related to construction trades including accident prevention signs and tags, personal protective equipment, electrical safety work practices, fall protection, and more.	RCC; SS; MEP
OSHA Construction Focus Four Training Material	OSHA	https://www.osha.gov/dte/outreach/construction/focus_four/index.html	Includes a video and training materials related to construction job site safety.	RCC; SS; MEP
OSHA Young Workers in Construction	OSHA	https://www.osha.gov/SLTC/teenworkers/residentialconstruction/index.html	Provides teens with safety working tips, information on appropriate jobs, on-the-job hazards, as well as information to help with career choices.	RCC; SS; MEP
The National Institute for Occupational Safety and Health (NIOSH) Homepage	The National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention (CDC)	http://www.cdc.gov/niosh/	Provides publications and news on workplace safety and health topics.	RCC; SS; MEP
TOSHA Find the Hazard	Tennessee Occupational Safety and Health Administration, Tennessee Department of Labor & Workforce Development	http://www.tn.gov/workforce/article/find-the-hazard	A series of photographs where the viewer may click to find out what safety standard has been violated in each photograph.	RCC; SS; MEP
Working Safely is No Accident	University of Tennessee Knoxville, Construction Research & Policy Center	http://ilab.engr.utk.edu/cirpc/index.html	Interactive educational website for workplace safety.	RCC; SS; MEP

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The Long and Short of Wood Roof Systems	WoodWorks	http://www.woodworks.org/wp-content/uploads/2014-Wood-Roof-Systems-Web.pdf	Gives an overview of the many wood framing systems available. Includes photographic examples of each type.	RCC; SS
8 Types of Windows	Peter Walsh of HGTV Remodels	http://www.hgtvremodels.com/interiors/8-types-of-windows/pictures/index.html	The window webpage offers articles on Window Buying Guides, Designer Tips, and the Anatomy of a Window.	Structural Systems
All About Moldings	Dorling Kindersley	http://www.diynetwork.com/windows-walls-and-doors/all-about-moldings/index.html	A simple guide to the different types and uses of molding used in a residence.	Structural Systems
Choosing the Right Fastener: What You Need to Know about Metal Wall Panel Fasteners	Marcy Marro, Metal Construction News	http://www.metalconstructionnews.com/articles/magazine-features/choosing-the-right-fastener.aspx	An article describing the properties and uses of metal wall panel fasteners.	Structural Systems
Using Gypsum Board for Walls and Ceilings	Gypsum Association	https://www.gypsum.org/technical/using-gypsum-board-for-walls-and-ceilings/	Provides information about the recommended uses, application methods, and limitations of gypsum board products.	Structural Systems
Electricity 101 Basic Series	Eaton	http://www.eaton.com/EN/Eaton/ProductsServices/Electrical/Support/Training/101BasicsSeries/index.htm	A series of modules and podcasts on topics including fundamentals of electricity, electrical diagrams, electrical distribution, and more.	MEP Systems
Heat Transfer	Khan Academy	https://www.khanacademy.org/partner-content/mit-k12/mit-k12-physics/v/heat-transfer	A video explaining different types of heat transfer.	MEP Systems

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How Electricity Works	Pacific Power	https://www.pacificpower.net/ed/se/hew.html	Graphic illustration of electricity generation and the transmission of electricity through the power system.	MEP Systems
13 Structural Steel Buildings that Dazzle	American Institute of Steel Construction	http://www.bdcnetwork.com/13-structural-steel-buildings-dazzle	View awarding winning steel structures.	AED
AIA Home Design Trends Survey	American Institute of Architects	http://info.aia.org/AIArchitect/2015/1216/aia-interactive/index.html#!	An interactive infographic showcasing the results of the Home Design Trends Survey for the third quarter of 2015, focusing on community and neighborhood design.	AED
Climate & Site Analysis	Autodesk Sustainability Workshop	http://sustainabilityworkshop.autodesk.com/buildings/climate-site-analysis	Explains the components of a site analysis for sustainable building design. Additional information about Building Design is also available through the Autodesk Sustainability Workshop.	AED
Discover Design: A Student Design Experience	Chicago Architecture Foundation	http://www.discoverdesign.org/	This site provides a student friendly explanation of the design process for architecture. Students can explore how the steps of the design process were undertaken for several real world projects. Also includes a list of design project ideas and information about a national high school design competition.	AED
Site Analysis	Floyd Zimmerman	http://www.aia.org/aiaucmp/groups/aia/documents/pdf/aiab089275.pdf	This excerpt from <i>The Architect's Handbook of Professional Practice</i> provides a checklist of items for the designer to consider when evaluating a site.	AED

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TryEngineering	IBM, IEEE, Teachers Try Science	http://tryengineering.org/	Offers a variety of lesson plans for teachers and career information for students.	AED
Americans with Disabilities Act (ADA) Standards for Accessible Design	The Department of Justice	http://www.ada.gov/2010ADAstandards_index.htm	View new construction and alterations requirements for accessible design.	AED; Interior Design
AutoDesk Design Academy	Autodesk	http://academy.autodesk.com/	Free training videos, hands-on exercises, and project ideas designed to help facilitate the teaching of design.	AED; Interior Design
Design Presentation Boards	Online Design Teachers	http://www.onlinedesignteacher.com/interior_design/presentation_boards.html#.UvzbRWJdVDA	Online Design Teacher outlines and explains interior design presentation board tips and techniques. The how-to tips show how to create eye catching Presentation Boards.	AED; Interior Design
How Traffic Patterns Influence Custom Home Designs	Mascord	http://houseplans.co/articles/custom-home-design-creating-traffic-patterns/	This short article discusses three factors to consider (efficiency, convenience, & safety) when designing a custom home.	AED; Interior Design
Popplet	Notion, Inc.	http://popplet.com/	A tool for the iPad and the web to capture and organize ideas. Could be used as a tool in design process.	AED; Interior Design
American Society for Testing and Materials	ASTM	http://www.astm.org/	ASTM publishes materials regarding product testing methods and specifications.	Interior Design
American Society of Interior Designers (ASID)	ASID	http://www.asid.org/	The ASID offers access to case studies, job opportunities, ethical statements, and business marketing and management resources.	Interior Design

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Choosing Interior Color Schemes	HGTV	http://www.hgtv.com/decorating/choosing-interior-color-schemes/index.html	An article discussing the five questions you need to ask yourself when selecting a color scheme.	Interior Design
Health Psychology Home Page	Vanderbilt University Psychology Department	http://healthpsych.psy.vanderbilt.edu/color_therapy.htm	The home page offers resources on color and its relation to the human emotional, spiritual, physical, and mental well-being.	Interior Design
House Beautiful	Multiple Authors	http://www.housebeautiful.com/	The website allows students to access product examples, decorating ideas, industry articles, and photo galleries.	Interior Design
How to Make an Interior Design Color Board	eHow	http://www.ehow.com/how5104038_make-interior-design-color-board.html	Step-by-step directions on how to create a color board.	Interior Design
Interior Design	Multiple Authors	http://www.interiordesign.net/	The website allows students to review design interiors of commercial spaces, access product examples, read industry articles, and watch designer interviews.	Interior Design
International Interior Design Association (IIDA)	IIDA	http://www.iida.org/content.cfm/home	View code of ethics, professional resumes, job boards, and projects submitted for design competitions.	Interior Design
Leadership in Energy & Environmental Design (LEED) for Commercial Interiors	United States Green Building Council (USGBC)	http://www.usgbc.org/leed/rating-systems/commercial-interiors	The site gives an overview of the energy-efficient building designation of LEED for Commercial Interiors. Explore example projects and view available credits a project may earn to receive LEED certification.	Interior Design
Paint Schemes	Elle Décor	http://www.elledecor.com/design-decorate/paint	Examples of ingenious painting ideas and chic paint color combinations from top designers.	Interior Design

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Principles of Deign	Education The J. Paul Getty Museum	https://www.getty.edu/education/teachers/building_lessons/principles_design.pdf	The link provides a short one-pager that reviews the principles of design in a formal analysis.	Interior Design
Understanding Fabrics in your Interior Design	Freshome	http://freshome.com/2009/01/26/understanding-fabrics-in-your-interior-decorating/	A popular interior design blog that offers guidance on selecting correct fabrics for different interior design projects.	Interior Design