# **Career and Technical Education Service Areas and Career Clusters**

Agricultural, Food, and Natural Resources	
Agricultural, Food, & Natural Resources	p. 130
Applied Science, Technology, Engineering, and Ma	•
Architecture	•
Manufacturing	•
Science, Technology, Engineering & Math	•
Transportation	p. 146
Arts, Communication, and Information Systems	
Arts	•
Information Technology	p. 140
Business, Finance, Marketing, and Management	
Business, Management, and Administration	p. 133
Finance	p. 135
Marketing	p. 142
Health Science	
Health Sciences	p. 136
Human Services	
Education and Training	•
Human Services	p. 139
Hospitality and Tourism	
Government and Public Administration	•
Law, Public Safety, Corrections, and Security	p. 141

# 2023-2024 **Career Pathway:** Agriculture



A career in agriculture, food, and natural resources requires certain skills and education depending on job requirements. Skills include promotion, processing, marketing, distribution, financing, and development of agricultural commodities including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

High School Courses		Job Sha dows & Intern	ıships	8
ntroduction to Ag., Food & Nat. Resources	Animal & Plant Biotechnology	Ag Mechanic	Landscape	er
Aquaculture Science	Agricultural Power and Technology	Agriculture Sales	Microbiol	ogist
Principles of Ag. Science-Animal	Ag. Business Foundations	Agronomist	Naturalist	
Principles of Ag. Science-Plant	Ag. Research & Development	Botanist	Veterinari	an Tech
Natural Resources & Ecology	AP Environmental Science	Conservationist	Wastewate	er Mngt.
Environmental Science Issues	Environmental Sustainability	Floral Designer	Park Rang	ger
Food Science & Safety		Geologist	Pet Groom	ner
		Golf Course & Turfgrass Mar	nagement Veterinari	an
Venture Academics		GPS/GIS Specialist - Agricul	lture	more & a
Venture Environmental Science (AP Envir	onmental Science, Venture Environme	ental Science)	Contraction of the second seco	
Venture Earth Science (Earth Science, Rhet				
Venture Biology (General Biology, Venture		High School Clubs &	: Organizations	
		FFA		
Pursuit Pathways				
Cortificatos/Diplomas		Careers & Median S	alaw Informatio	-
Certificates/Diplomas		Careers & Median S	alary informatio	
Ag Production W	ater Environmental Technology	Animal Care Worker	Recycling Coordinat	tor
Pet Grooming W	ater Treatment Specialist	\$54,000	\$56,000	
Golf Course & Athletic Turfgrass Mgmt W	astewater Specialist	Food Science Technician	Geothermal Technic	ian
Veterinary Asst Ag	g Geospatial Technology	\$46,000	\$38,000	
Animal control Asst W	ater Environmental Technology	Agricultural Inspector	Heavy Equipment M	fechanic:
Landscape Construction & Dsgn		\$45,000	\$51,000	
Associate Degrees		Careers & Median S	Salary Informatio	n
Ag Geospatial Technology Vo	terinary Technology	Veterinary Technologist	Chemical Technicia	n
	mane Officer	\$33,500	\$41,500	9 <i>1</i>
0	ndscape Construction & Desgn	Landscaping &		
0	rks & Natural Resources	Groundskeeping		
Golf Course & Athletic Turfgrass Mgmt W	ater Environmental Technology	\$40,100		
		Careers & Median S	Salary Informatio	on
Bachelor Degrees		Carters & median	Salary Informatio	
			•	r
Environmental Studies	Č	Food Scientist \$62,500	Greenhouse Manage \$42,000	r
	Č	Food Scientist	Greenhouse Manage	

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#### 2023-2024 Career Pathway: Architecture





A career in architecture and construction requires certain skills and education depending on job requirements. Skills include designing, planning, managing, building, and maintaining the built environment.







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## 2023-2024 Career Pathway: Arts, Audio/Visual Technology, and Communications





A career in arts, audio/visual technology and communications requires certain skills and education depending on job requirements. Skills include designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

High School Cou	rses		Job Shadows & Inte	ernships
Design: Art Basics	Exploration in Ceramic	Journalism	Graphic Designer	Photography
Beginning Painting	Technique	Creative Writing	Events Assistant	News &Broadcast
Beginning Drawing	Digital Photography	College Grammar	Production Assistant	Radio
Beginning Ceramics	Graphics One	Intro to College Writing	Marketing	Writing
-D Mixed Media	Graphics Two	Speech	Sports	Community Engagemen
Expressive Drawing	Advanced Art	Acting	oporto	Learn more & ap
Construction in Clay	Interior Design	Media Inf. Literacy		Learn more & ap
-D Mixed Media	Fashion & Sewing			
Drawing in Style	Advanced Sewing		Experience Pathway	75
High School Club	os & Organizations		College CTE Cours	es in High School
Art Club	Student News	spaper	Art Appreciation	Fundamentals of Oral Comm.
Anime Club	LMTV		Composition 1	Mass Media
Yearbook		<u></u>	Composition 2	Popular Culture
Venture Academ	ion			
	5		1.001	
Certificates/Dipl			Careers & Median	Salary Information
Social Media Marketing	omas		Fine Artist	Floral Designer
Social Media Marketing	omas			
Social Media Marketing Neb Development	oma s g Web Design		Fine Artist \$19,200 Broadcast Technician \$31,660	Floral Designer \$26,000 Printing Press Operator
Social Media Marketing Web Development Associate Degree	oma s g Web Design s		Fine Artist \$19,200 Broadcast Technician \$31,660 <b>Careers &amp; Median</b>	Floral Designer \$26,000 Printing Press Operator \$32,700 Salary Information
Social Media Marketing Veb Development Associate Degree Graphic Communicatio	oma s g Web Design s		Fine Artist \$19,200 Broadcast Technician \$31,660	Floral Designer \$26,000 Printing Press Operator \$32,700
Social Media Marketing Web Development Associate Degree Graphic Communicatio	oma s g Web Design s n Technology Web Design		Fine Artist \$19,200 Broadcast Technician \$31,660 <b>Careers &amp; Median</b> Desktop Publisher \$40,000	Floral Designer \$26,000 Printing Press Operator \$32,700 Salary Information Camera Operator
Social Media Marketing Web Development Associate Degree Graphic Communicatio Web Development Bachelor Degree	oma s g Web Design s n Technology Web Design		Fine Artist \$19,200 Broadcast Technician \$31,660 Careers & Median Desktop Publisher \$40,000 Careers & Median Proofreader	Floral Designer \$26,000 Printing Press Operator \$32,700 Salary Information Camera Operator \$28,800 Salary Information Talent Director
Social Media Marketing Web Development Associate Degree Graphic Communicatio Web Development Bachelor Degrees Broadcasting	oma s g Web Design s n Technology Web Design		Fine Artist \$19,200 Broadcast Technician \$31,660 Careers & Median Desktop Publisher \$40,000 Careers & Median	Floral Designer \$26,000 Printing Press Operator \$32,700 Salary Information Camera Operator \$28,800 Salary Information
Social Media Marketing Web Development Associate Degree Graphic Communicatio Web Development	oma s g Web Design s n Technology Web Design		Fine Artist \$19,200 Broadcast Technician \$31,660 Careers & Median Desktop Publisher \$40,000 Careers & Median Proofreader	Floral Designer \$26,000 Printing Press Operator \$32,700 Salary Information Camera Operator \$28,800 Salary Information Talent Director

# 2023-2024 Career Pathway: Business Management





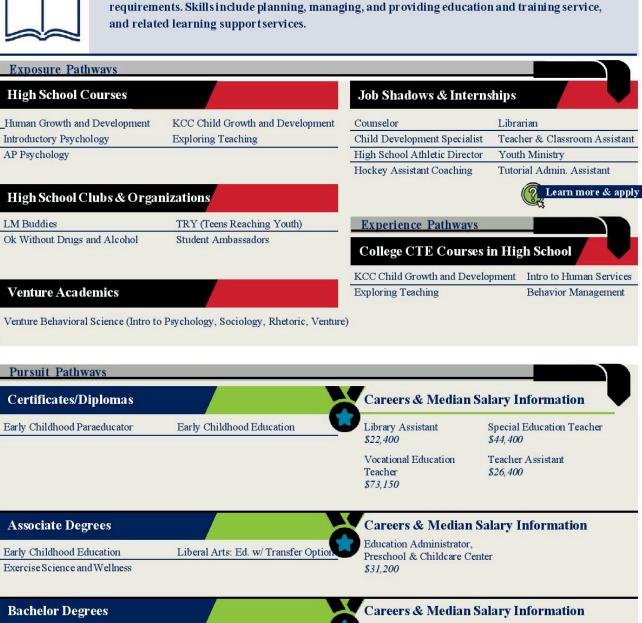
A career in business management and administration requires certain skills and education depending on job requirements. Skills include planning, organizing, directing, and evaluating business functions essential to productive business operations.



A career in education and training requires certain skills and education depending on job

# 2023-2024 Career Pathway: Education & Training





Special Education Teacher Kindergarten Teacher \$57,300

Physical Education Teacher Middle School Teacher \$59,400 \$55,400



Elementary Education

Secondary Education



Organizational Leadership

Athletic Training

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\$63,100

#### 2023-2024 Career Pathway: *Finance*





A career in finance requires certain skills and education depending on job requirements. Skills include planning services for financial and investment planning, banking, insurance, and business financial management.







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# 2023-2024 Career Pathway: Health Sciences





A career in health sciences requires certain skills and education depending on job requirements. Skills include planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

High School Courses			Job Shadows	& Interns	nips	
Anatomy & Physiology Ch	emistry I Health II		Chiropractic & Wel	lness	Oncology	
	Biology	1	Nursing		Optician	
Physics AP	Chemistry	1	Dental		Physical 7	Therapy
High Sobool Cluba & C	nganizationg	1	Dietary		Personal 7	Frainer
High School Clubs & O	rganizations		Dermatology	1	Radiology	ý
HOSA	Science Club		Occupational Thera	ру	Physician	Assistant
Red Cross Club						
Venture Academics						Learn more & ap S
Venture Biomedical Science (	PLTW Biomedical Science, Ventur	e Biomedical Sci	ience)			
		• Dioiniour boi				
Experience Pathways						
College CTE Courses	in High School		Kirkwood Ca	reer Acade	emies	
Human Anatomy I	Medical Terminology		Emergency Medica	ITech.(EMT)	Pre-Prof.	Health Careers Acad
Human Anatomy II	Exploring Health Careers	1	Patient Care Acade	my		
Nutrition			Pharmacy Technicia	an Academy		
Pursuit Pathways						
Certificates/Diplomas	s /	X	Careers & M	edian Sala	ry Info	rmation
	Pharmacy Technician		Careers & M			rmation
Dental Assisting		Ċ	Licensed Practica Vocational Nurse			Lab Tech
Dental Assisting Medical Coding Medical Assisting	Pharmacy Technician	Ċ	Licensed Practica Vocational Nurse \$42,100	l&Licensed	Dental I \$41,200 Dental A	Lab Tech
Dental Assisting Medical Coding Medical Assisting	Pharmacy Technician Surgical Technology	0	Licensed Practica Vocational Nurse \$42,100 Ophthalmic Medi	l&Licensed	Dental I \$41,200	Lab Tech
Dental Assisting Medical Coding Medical Assisting Medical Transcription	Pharmacy Technician Surgical Technology Medical Transcription		Licensed Practica Vocational Nurse \$42,100	l&Licensed	Dental I \$41,200 Dental A	Lab Tech
Dental Assisting Medical Coding Medical Assisting Medical Transcription	Pharmacy Technician Surgical Technology Medical Transcription Nurse Aide		Licensed Practica Vocational Nurse \$42,100 Ophthalmic Medi	l & Licensed ical Tech	Dental I \$41,200 Dental 4 \$40,300	Lab Tech
Dental Assisting Medical Coding Medical Assisting Medical Transcription Practical Nursing (LPN) Associate Degrees	Pharmacy Technician Surgical Technology Medical Transcription Nurse Aide	Occupational	Licensed Practica Vocational Nurse \$42,100 Ophthalmic Medi \$41,500	l & Licensed ical Tech Careers o Dental Hyg	Dental I \$41,200 Dental A \$40,300	Assistant an Salary Inf. Registered Nurse
Dental Assisting Medical Coding Medical Assisting Medical Transcription Practical Nursing (LPN) Associate Degrees Dental Assisting	Pharmacy Technician Surgical Technology Medical Transcription Nurse Aide EMT	Occupational 7 Paramedic	Licensed Practica Vocational Nurse \$42,100 Ophthalmic Medi \$41,500	l & Licensed ical Tech Careers o	Dental I \$41,200 Dental A \$40,300	Assistant an Salary Inf.
Dental Assisting Medical Coding Medical Assisting Medical Transcription Practical Nursing (LPN) Associate Degrees Dental Assisting Dental Hygiene	Pharmacy Technician Surgical Technology Medical Transcription Nurse Aide EMT Exercise Science & Wellness		Licensed Practica Vocational Nurse \$42,100 Ophthalmic Medi \$41,500	l & Licensed ical Tech Careers Dental Hyg <i>\$69,100</i> Diagnostic I	Dental I \$41,200 Dental A \$40,300 & Media ienist Medical	Lab Tech Assistant <b>an Salary Inf.</b> Registered Nurse <i>\$69,100</i> Histotechnologis
Dental Assisting Medical Coding Medical Coding Medical Assisting Medical Transcription Practical Nursing (LPN) Associate Degrees Dental Assisting Dental Hygiene Dental Technology	Pharmacy Technician Surgical Technology Medical Transcription Nurse Aide EMT Exercise Science & Wellness Health Information Tech.	Paramedic	Licensed Practica Vocational Nurse \$42,100 Ophthalmic Medi \$41,500	l & Licensed ical Tech Careers Dental Hyg <i>\$69,100</i>	Dental I \$41,200 Dental A \$40,300 & Media ienist Medical	Lab Tech Assistant an Salary Inf. Registered Nurse <i>\$69,100</i>
Dental Assisting Medical Coding Medical Assisting Medical Transcription Practical Nursing (LPN) Associate Degrees Dental Assisting Dental Hygiene Dental Technology Diagnostic Assistant (Rad. Te	Pharmacy Technician Surgical Technology Medical Transcription Nurse Aide EMT Exercise Science & Wellness Health Information Tech. Medical Assisting	Paramedic Physical Thera	Licensed Practica Vocational Nurse \$42,100 Ophthalmic Medi \$41,500 Cherapy	1 & Licensed ical Tech Careers Dental Hyg \$69,100 Diagnostic I Sonographe	Dental I \$41,200 Dental A \$40,300 & Media ienist Medical	Lab Tech Assistant <b>an Salary Inf.</b> Registered Nurse <i>\$69,100</i> Histotechnologis
Dental Assisting Medical Coding Medical Assisting Medical Transcription Practical Nursing (LPN) Associate Degrees Dental Assisting Dental Hygiene Dental Technology Diagnostic Assistant (Rad. Te	Pharmacy Technician Surgical Technology Medical Transcription Nurse Aide EMT Exercise Science & Wellness Health Information Tech. Medical Assisting ch.) Medical Laboratory Tech.	Paramedic Physical Thera Respiratory Th	Licensed Practica Vocational Nurse \$42,100 Ophthalmic Medi \$41,500 Cherapy	1 & Licensed ical Tech Careers of Dental Hyg \$69,100 Diagnostic I Sonographe \$62,800	Dental I \$41,200 Dental A \$40,300 & Media ienist Medical r	Lab Tech Assistant <b>an Salary Inf.</b> Registered Nurse <i>\$69,100</i> Histotechnologis <i>\$48,400</i>
Dental Assisting Medical Coding Medical Assisting Medical Transcription Tractical Nursing (LPN) Associate Degrees Dental Assisting Dental Hygiene Dental Technology Diagnostic Assistant (Rad. Te Electroneurodiagnostic Tech. Bachelor Degrees	Pharmacy Technician Surgical Technology Medical Transcription Nurse Aide EMT Exercise Science & Wellness Health Information Tech. Medical Assisting ch.) Medical Laboratory Tech.	Paramedic Physical Thera Respiratory Th	Licensed Practica Vocational Nurse \$42,100 Ophthalmic Medi \$41,500 Cherapy py Assistant rerapist nology Careers & M Clinical Research	1 & Licensed ical Tech Careers of Dental Hyg \$69,100 Diagnostic I Sonographe \$62,800	Dental I \$41,200 Dental A \$40,300 & Media ienist Medical rr ary Info Natural i	Lab Tech Assistant <b>an Salary Inf.</b> Registered Nurse <i>\$69,100</i> Histotechnologis <i>\$48,400</i> <b>rmation</b> Science Manager
Dental Assisting Medical Coding Medical Assisting Medical Transcription Practical Nursing (LPN) Associate Degrees Dental Assisting Dental Hygiene Dental Technology Diagnostic Assistant (Rad. Te Electroneurodiagnostic Tech. Bachelor Degrees Biology	Pharmacy Technician Surgical Technology Medical Transcription Nurse Aide EMT Exercise Science & Wellness Health Information Tech. Medical Assisting ch.) Medical Laboratory Tech. Associate Degree Nursing, RN	Paramedic Physical Thera Respiratory Th	Licensed Practica Vocational Nurse \$42,100 Ophthalmic Medi \$41,500 Cherapy py Assistant terapist toology Careers & M Clinical Research \$111,800	1& Licensed ical Tech Careers of Dental Hyg \$69,100 Diagnostic 1 Sonographe \$62,800	Dental I \$41,200 Dental 4 \$40,300 & Media ienist Medical ar	Lab Tech Assistant <b>an Salary Inf.</b> Registered Nurse <i>\$69,100</i> Histotechnologis <i>\$48,400</i> <b>rmation</b> Science Manager
Dental Assisting Medical Coding Medical Assisting Medical Transcription Practical Nursing (LPN) <b>Associate Degrees</b> Dental Assisting Dental Hygiene Dental Technology Diagnostic Assistant (Rad. Te Electroneurodiagnostic Tech.	Pharmacy Technician Surgical Technology Medical Transcription Nurse Aide EMT Exercise Science & Wellness Health Information Tech Medical Assisting ch.) Medical Laboratory Tech. Associate Degree Nursing, RN	Paramedic Physical Thera Respiratory Th Surgical Techr	Licensed Practica Vocational Nurse \$42,100 Ophthalmic Medi \$41,500 Cherapy py Assistant rerapist nology Careers & M Clinical Research	1& Licensed ical Tech Careers of Dental Hyg \$69,100 Diagnostic 1 Sonographe \$62,800	Dental I \$41,200 Dental A \$40,300 & Media ienist Medical r <b>Try Info</b> Natural \$111,70	Lab Tech Assistant <b>an Salary Inf.</b> Registered Nurse <i>\$69,100</i> Histotechnologis <i>\$48,400</i> <b>rmation</b> Science Manager <i>0</i> onal Therapist





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## 2023-2024 Career Pathway: Government





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A career in government and public administration requires certain skills and education depending on job requirements. Skills include planning and performing government functions at the local, state, and federal levels, including governance, national security, for eign service, planning, revenue and taxation, and regulations.

High School Courses		Job Shadows & Inter	rnships
aw and Constitution	AP French	City Clerk	Presidential Campaign
Jovernment	Spanish 5	Congressional Campaign	Civil Rights
AP Government	Intermediate Spanish I		
P Comparative Government	Intermediate Spanish II	_	Learn more &
usiness/Consumer Law			
		Experience Pathways	
High School Clubs & Org	anizations	College CTE Course	s in High School
oung Democrats	Model UN	conege er il course	
oung Republicans		Introduction to Criminal Just	ice
		Social Problems	
Venture Academics		Cultural Anthropology	
Pursuit Pathways			
<u>Pursuit Pathways</u> Certificates/Diplomas		Careers & Median S	alary Information
Certificates/Diplomas		Administrative Service	Postmaster
Certificates/Diplomas		Administrative Service Manager	
Certificates/Diplomas		Administrative Service Manager \$83,900	Postmaster <i>\$49,900</i> Meter Reader
Certificates/Diplomas		Administrative Service Manager	Postmaster <i>\$49,900</i> Meter Reader
Certificates/Diplomas		Administrative Service Manager \$83,900 Postal Service Mail Carrier	Postmaster <i>\$49,900</i> Meter Reader <i>\$36,000</i>
Certificates/Diplomas		Administrative Service Manager \$83,900 Postal Service Mail Carrier \$50,000 Careers & Median S Assessor	Postmaster <i>\$49,900</i> Meter Reader <i>\$36,000</i>
Certificates/Diplomas fficeAssistant AssociateDegrees usiness Administration	Administrative Management	Administrative Service Manager \$83,900 Postal Service Mail Carrier \$50,000 Careers & Median S	Postmaster <i>\$49,900</i> Meter Reader <i>\$36,000</i>
Certificates/Diplomas	Administrative Management ment Water Environmental Technology	Administrative Service Manager \$83,900 Postal Service Mail Carrier \$50,000 Careers & Median S Assessor	Postmaster <i>\$49,900</i> Meter Reader <i>\$36,000</i>
Certificates/Diplomas OfficeAssistant AssociateDegrees Business Administration		Administrative Service Manager \$83,900 Postal Service Mail Carrier \$50,000 Careers & Median S Assessor	Postmaster \$49,900 Meter Reader \$36,000 Salary Information
Certificates/Diplomas fficeAssistant AssociateDegrees ausiness Administration ausiness Administration: Manager		Administrative Service Manager \$83,900 Postal Service Mail Carrier \$50,000 Careers & Median S Assessor \$73,200	Postmaster \$49,900 Meter Reader \$36,000 Salary Information

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