

St. James High School

Career And Technology Education



Majors Guide 2023 - 2024

Each major course list in this guide was compiled based on the SCDE Collections and Reporting Guide for 2021-2022

CTE Cluster Quick Reference Guide

Business Information Management	<i>Business, Management and Administration</i>	521206
General Management	<i>Business, Management and Administration</i>	520201
Carpentry	<i>Architecture and Construction</i>	460201
Business Finance	<i>Finance</i>	520804
Health Science	<i>Health Science</i>	510000
Sports Medicine	<i>Health Science</i>	310505
Family and Consumer Science	<i>Human Services</i>	110901
Marketing Communications	<i>Marketing</i>	520401
Game and Interactive Media Design	<i>Information Technology</i>	500411
Programming and Software Development	<i>Information Technology</i>	110201
Web Design and Development	<i>Information Technology</i>	110801

CTE Cluster Careers Quick Reference Guide

*For more information about Career Clusters, visit O*NET to discover and explore more career paths including earning potential.*

Business Information Management: Information Systems Managers, Sales Manager

General Management: Compliance Managers, Financial Managers, Payroll Managers

Carpentry: Architects, Drafters, Iron Workers, Carpenters, Construction Managers

Business Finance: Financial Analysts, Loan Officers and Counselors, Financial Advisors

Health Science: Nurses, Pharmacists, X-Ray Technicians

Sports Medicine: Physical Therapists, Coaches, Fitness and Sport Trainers

Family and Consumer Science: Social Workers, Daycare Managers, Chefs, Fashion Designers

Marketing Communications: Brand Ambassadors, Social Media Managers, Public Relations

Game and Interactive Media Design: Game Designers, Game Developers, Animators

Programing and Software Development: Computer Systems Analysts, Computer Programmers

Web Design and Development: Multimedia Programmers, Web Content Managers

What does it mean to complete a program at SJH?

Career [clusters are groupings of occupations and broad industries based on commonalities.](#)

Career clusters link what students learn in high school with the knowledge and skills they need for success in college and careers. Career clusters identify pathways from high schools to two- and four-year colleges, graduate school, and the workplace so that students can learn in school what they can do in the future.

Business Information Management ⁵²⁰²⁰⁶

Career Cluster: Business Management and Administration

Required Courses:

Digital Publication Design ⁵¹⁷⁶
Image Editing 1 ⁵³⁴⁰

Completer Certifications Available:

MICROBURST
CERTIPORT IC3
OSHA 10 GENERAL

Business Information

Management is an umbrella term covering those careers that provide a bridge between business processes, initiatives, and Information Technology. Employees in this area help to align business and IT goals.

If you want to:

- ◆ Work with computers and software
- ◆ Interested in solving problems
- ◆ Aspire to creative thinking
- ◆ Improve your life skills

For more information contact:

Mrs. Johnson in C155, Ms. Oliver in room E235, or talk to your guidance counselor.

Choose Two of the Following Courses:

Accounting 1 ⁵⁰⁰¹
Advanced Web Page Design and Development ⁵⁰³³
Advertising ⁵⁴⁷⁰
Business Data Applications ⁵⁰²¹
Business Law ⁵⁰⁴⁴
Business Principles and Management ⁵⁰⁹²
Digital Multimedia ⁵⁰³⁰
Digital Technologies ⁵¹⁸⁰
Digital Workplace Applications ⁵⁰²⁰
Discovering Computer Science ⁵⁰⁶¹
Entrepreneurship ⁵⁴⁰⁰
Foundations of Animation ⁵⁴²²
Fundamentals of Business, Marketing and Finance ⁵⁰⁹⁰
Fundamentals of Computing ⁵⁰²³
Fundamentals of Project Management ⁵⁴⁸⁰
Fundamentals of Web Page Design & Development ⁵⁰³¹
Google Applications ⁵⁰⁰⁷
IT Fundamentals ⁵⁰²⁵
Principles of Digital Technology ⁵¹⁸⁰
Professional and Leadership Development ⁵¹⁷⁸
Social Media Marketing ⁵⁰³⁴
Workplace Communications ⁵⁰⁴¹
Business Mgmt. & Admin. Internship, Work-Based Credit ⁵⁴⁹⁰

Career Occupations:

Accounting Clerk
Chief Technology Officer
Auditor • Bookkeeper
Budget Analyst
Billing Supervisor
Merger & Acquisitions Manager
Price Analyst
Chief Financial Officer
Project Manager
Librarian • Adjuster
Payroll Accounting Clerk
Top Collections Executive



General Management ⁵²⁰²⁰¹

Career Cluster: Business Management and Administration

Required Courses:

Entrepreneurship⁵⁴⁰⁰

Accounting 1⁵⁰⁰¹

Completer Certifications Available:

MICROBURST

CERTIPORT IC3

OSHA 10 GENERAL

General Management

focuses on careers that plan, organize, direct, and evaluate all or part of a business organization through the allocation and use of financial, human, and material resources.

If you want to:

- ◆ Manage a team of colleagues
- ◆ Start up and carry out projects
- ◆ Make decisions and take risks
- ◆ Work with computers and software

For more information contact:

Ms. Oliver in room E235, or talk with your guidance counselor.

Choose Two of the Following Courses:

Accounting 2⁵⁰⁹⁵

Advanced Business Law⁵⁰⁴⁹

Business Data Applications⁵⁰²¹

Business Finance⁵²⁷⁴

Business Law⁵⁰⁴⁴

Business Principles and Management⁵⁰⁹²

Digital Workplace Applications⁵⁰²⁰

Fundamentals of Business, Marketing & Finance⁵⁰⁹⁰

Fundamentals of Human Resource Management⁵⁰⁹³

Fundamentals of Project Management⁵⁴⁸⁰

Fundamentals of Web Page Design & Development⁵⁰³¹

Google Applications⁵⁰⁰⁷

International Business⁵⁰³²

Marketing⁵⁴²¹

Marketing Management⁵⁴³¹

Professional and Leadership Development⁵¹⁷⁸

Social Media Marketing⁵⁰³⁴

Virtual Enterprise 1⁵¹⁵⁰, 2⁵¹⁵¹, 3⁵¹⁵², 4⁵¹⁵³

Workplace Communications⁵⁰⁴¹

Business Mgmt. & Admin. Internship, Work-Based Credit⁵⁴⁹⁰

Career Occupations:

General Manager

Accounts Payable Manager

Business & Development Manager

Compensation & Benefits Manager

Public Relations Manager

Human Resource Manager

Purchasing Manager

Government Manager

First Line Supervisor

Senior Manager

Management Trainee

Small Business Owner



Carpentry 460201

Career Cluster: Architecture and Construction

A career in **Carpentry** can literally build our future! These are the people who build and remodel houses, apartments, industrial buildings, warehouses, office buildings, churches, schools and recreational facilities.

You will:

- ◆ Work with your hands
- ◆ Be creative
- ◆ Work as a member of team
- ◆ Cooperate and assist others
- ◆ Acquire skills needed in the carpentry field

For more information contact:

Mr. McCann in room D140, or your guidance counselor.

Required Courses:

Carpentry 1 (9-10th)⁶⁰⁹¹

Carpentry 2 (10-11th)⁶⁰⁹²

Carpentry 3 (12th Intern)⁶⁰⁹³

Carpentry 4 (12th Intern)⁶⁰⁹⁴



Internship Requirements for Carpentry 3 & 4:

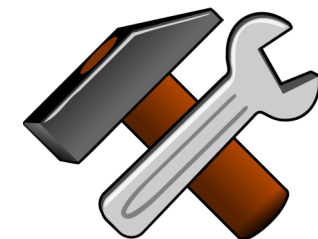
- ⇒ Must have a valid driver's license
- ⇒ Obtain a construction job prior to application
- ⇒ Have passed Carpentry 1 & 2 with an **80%** or better
- ⇒ Have a interview process with teacher prior to application
- ⇒ Approved by HCS District as acceptable
- ⇒ Have taken and passed 10 hour OSHA safety course

Completer Certifications Available:

OSHA 10 GENERAL

Career Occupations:

Apprentice carpenters
Beam builders • Brattice builders
Building carpenters
Commercial carpenters
Construction carpenters
Counter installers • Finish carpenters
Custom wood stair builders
Hardwood floor installers
House carpenters
Industrial carpenters
Residential carpenters
Wood floor layers



Business Finance ⁵²⁰⁸⁰⁴

Career Cluster: Finance

Required Courses:

Accounting 1⁵⁰⁰¹
Business Finance⁵²⁷⁴



Choose Two of the Following Courses:

Accounting 2⁵⁰⁰¹
Banking Services⁵²⁷¹
Business Data Applications⁵⁰²¹
Business Law⁵⁰⁴⁴
Digital Workplace Applications⁵⁰²⁰
Entrepreneurship⁵⁴⁰⁰
Fundamentals of Business, Marketing & Finance⁵⁰⁹⁰
Insurance and Risk Management⁵²⁷⁵
International Business⁵⁰³²
Marketing⁵⁴²¹
Personal Finance⁵¹³¹
Professional and Leadership Development⁵¹⁷⁸
Professional Sales⁵⁴⁷¹
Securities and Investments⁵²⁷⁷
Workplace Communications⁵⁰⁴¹
Finance Internship, Work-Based Credit⁶¹⁹⁰

The **Business Finance** function in a company is to manage policy and strategy for (and the implementation of) capital structure, budgeting, acquisition and investment, financial modeling and planning, funding, dividends, and taxation.

If you want to:

- ◆ Work in international markets
- ◆ Know how to secure your financial future
- ◆ Solve problems in creative ways
- ◆ Follow the stock market

For more information contact:

Mrs. Johnson in room C155, or your guidance counselor.

Completer Certifications Available:

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OSHA 10 GNERNAL

Career Occupations:

Accountants
Financial Analysts
Treasurers • Controllers
Chief Revenue Agents
Auditors • Economist
Tax Auditors • Collectors
Revenue Agents
Benefits Specialists
Real Estate Analysts
Certified Purchasing Professionals
Client Managers



Health Science ⁵¹⁰⁰⁰

Career Cluster: Health Science

Required Courses:

Health Science 1⁵⁵⁵⁰

Health Science 2⁵⁵⁵¹



Choose Two of the Following Courses:

Health Science 3⁵⁵³³

Health Science Clinical Study⁵⁵⁶⁰

Human Body Systems⁵⁵⁸¹

Medical Billing and Coding⁵⁵⁸⁴

Medical Interventions⁵⁵⁸²

Medical Terminology⁵⁵⁴⁰

Pharmacology for Medical Careers⁵⁵⁷⁰

Practical Nursing Phase 1⁵⁵²⁰

Principles of Biomedical Sciences⁵⁵⁸⁰

Sports Medicine 1⁵⁵⁵⁵

Sports Medicine 2⁵⁵⁵⁶

Health Science, Work-Based Credit⁵⁵⁹⁰

Completer Certification

BLS - CPR

Career Occupations:

Cardiovascular Technician

Dental Hygienist

Occupational Therapy Assistant

Respiratory Therapist

Surgical Technician

Biomedical Equipment Technician

EKG Technologist

Pharmacy Technician

Paramedic

Veterinary Technician

Radiation Therapist

Medical Assistant

Anesthesia Technician

Audiology Technician



Careers in the **Health Sciences** range from clinical work with patients to office work at private corporations. Because healthcare is such a diverse field, you have the ability to move both laterally and upward as career interests and goals change.

You will:

- ◆ Learn about the human body
- ◆ Participate as a team player
- ◆ Be near the action
- ◆ Acquire skills needed in the medical field

For more information contact:

Mrs. Hess in room C167, Mrs. Medved in room A208, Mr. Krauss in room A209, or your guidance counselor.

Sports Medicine 310505

Career Cluster: Health Science

Required Courses:

Sports Medicine 1⁵⁵⁵⁵

Sports Medicine 2⁵⁵⁵⁶



Choose Two of the Following Courses:

Health Science 1⁵⁵³¹

Health Science 2⁵⁵³²

Health Science 3⁵⁵³³

Health Science Clinical Study⁵⁵⁶⁰

Human Body Systems⁵⁵⁸¹

Medical Interventions⁵⁵⁸²

Medical Terminology⁵⁵⁴⁰

Pharmacology for Medical Careers⁵⁵⁷⁰

Practical Nursing Phase 1⁵⁵²⁰

Principles of Biomedical Sciences⁵⁵⁸⁰

Health Science, Work-Based Credit⁵⁵⁹⁰

Sports Medicine, Work-Based Credit⁵⁵⁹¹

Completer Certification

BLS - CPR

Career Occupations:

Exercise Physiologists

Athletic Trainers

Orthopedic Nurses

Kinesiotherapist

Physical Therapists

Sports Psychologists

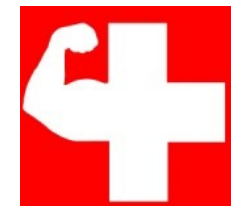
Sports Medicine Nurses

Physiatrists

Primary Care Sports Medicines

Orthopedic Surgeons

Nutritionists



Careers in the **Health Sciences** range from clinical work with patients to office work at private corporations. Because healthcare is such a diverse field, you have the ability to move both laterally and upward as career interests and goals change.

If you:

- ◆ Care about others well being
- ◆ Have always been interested in science or medicine
- ◆ Want to help others recover from injury and prevent future injuries

For more information contact:

Mrs. Hess in room C167, Mrs. Medved in room A208, Mr. Krauss in room A209, or your guidance counselor.

Family and Consumer Science 110901

Career Cluster: Human Services

Required Courses:

Family Consumer Science 1

Students must take two levels of at least one course and select courses that show a clear path to a career.



Choose Three of the Following Courses:

Child Development 1⁵⁸⁰⁰
Child Development 2⁵⁸⁰¹
Early Childhood Education 1⁵⁷⁰⁰
Family Life Education 1⁵⁸²⁰
Family Life Education 2⁵⁸²¹
Financial Fitness 1⁵⁸¹²
Financial Fitness 2⁵⁸¹³
Foods and Nutrition 1⁵⁸²⁴
Foods and Nutrition 2⁵⁸²⁵
Human Development: Responsible Life Choices 1⁵⁸³⁴
Human Development: Responsible Life Choices 2⁵⁸³⁵
Parenting Education 1⁵⁸¹⁶
Parenting Education 2⁵⁸¹⁷
Sports Nutrition 1⁵⁷⁵⁹
Sports Nutrition 2⁵⁷⁶⁰
Family Consumer Science 1⁵⁸⁰⁸
Family Consumer Science 2⁵⁸⁰⁹
Fashion, Fabric, and Design 1⁵⁸⁰⁴
Fashion, Fabric, and Design 2⁵⁸⁰⁵
Housing and Interiors 1⁵⁸³⁰
Housing and Interiors 2⁵⁸³¹
Family and Consumer Sciences, Work-Based Credit⁵⁸⁹⁰

Completer Certification

SERVSAFE FOOD HANDLER
FCS PRE-PROFESSIONAL (AAFCS)

Career Occupations:

Preschool Teachers • Nannies
Childcare Assistant
Career Counselors
Residential Advisors
Community Service Director
Social Services Workers
Home Care Aides
Companions
Sales Consultants
Customer Service Representatives
Financial Advisors
Consumer Advocates



The **Human Services** cluster prepares individuals for employment in career pathways that relate to families and human needs.

If you like to:

- ◆ Work with fabric and design clothing
- ◆ Take care of small children
- ◆ Lead small groups of people
- ◆ Help others with social & emotional

For more information contact:

Mrs. Pipkin-Jones in room C109, Mrs. Brown in D106, or talk to your guidance counselor.

Marketing Communications 090903

Career Cluster: Marketing

Required Courses:

Advertising⁵⁴⁷⁰ or Digital Media Marketing⁵⁴²²
Marketing⁵⁴²¹

Completer Certifications Available:

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OSHA 10 General

Marketing

Communications employees plan, coordinate and implement marketing strategies advertising promotion and public relations activities Because of the importance and high visibility of their jobs, these individuals often are prime candidates for advancement.

If you like to:

- ◆ Communicate with people
- ◆ Design things on the computer
- ◆ Be creative

For more information contact:

Ms. Oliver in room E235, Mr. Randall in C159, or talk to your guidance counselor.

Choose Two of the Following Courses:

Accounting I⁵⁰⁰¹
Advanced Web Page Design & Development⁵⁰³³
Business Data Applications⁵⁰²¹
Digital Multimedia⁵⁰³⁰
Digital Publication Design⁵¹⁷⁶
Digital Workplace Applications⁵⁰²⁰
Entrepreneurship⁵⁴⁰⁰
Fundamentals of Web Page Design & Development⁵⁰³¹
Google Applications⁵⁰⁰⁷
Image Editing I⁵³⁴⁰
Marketing Analytics⁵⁴²³
Professional and Leadership Development⁵¹⁷⁸
Professional Sales⁵⁴²¹
Social Media Marketing⁵⁰³⁴
Sports and Entertainment Marketing⁵⁴²⁵
Virtual Enterprise 1⁵¹⁵⁰, 2⁵¹⁵¹, 3⁵¹⁵², 4⁵¹⁵³
Workplace Communications⁵⁰⁴¹
Marketing Internship, Work-Based Credit⁵⁰⁹¹

Career Occupations:

Advertising Managers
Public Relations Managers
Public Information Directors
Sales Promotion
Promotions Managers
Creative Directors
Account Executives
Sales Representatives
Marketing Associates
Contract Administrators
Copywriters • Research Specialists
Research Assistants
Customer Service Representatives
Interactive Media Specialists

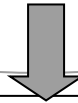


Game and Interactive Media Design ⁵⁰⁰⁴¹¹

Career Cluster: Information Technology

Required Courses:

Foundations of Animation ⁵⁰⁵⁰
Game Design and Development ⁵³⁵²



Choose Two of the Following Courses:

Accounting 1 ⁵⁰⁰¹
Advanced Animation ⁵³⁵¹
Computer Repair and Service ⁵³²⁰
Cyber Security Fundamentals ⁵³⁷⁰
Digital Art and Design 1 ⁶¹²⁰
Entrepreneurship ⁵⁴⁰⁰
Fundamentals of Computing ⁵⁰²³
Fundamentals of Web Page Design and Development ⁵⁰³¹
Introduction of Computer Programming ⁵⁰⁵⁰
Media Technology ⁶¹²⁴
Networking Fundamentals ⁵³¹⁰
PLTW– Computer Science A ⁶³⁷³
PLTW– Computer Science Essentials ⁶³⁷²
PLTW– Computer Science Principles ⁶³⁷⁷
PLTW– Cybersecurity ⁶³⁷⁸
Information Technology, Work-Based Credit ⁵³⁹⁰

Completer Certification

CERTIPORT IC3

COMPTIA ITF+

Career Occupations:

Lead Designer
Game Programmer
Game Artist
Game Animator
Lead Quality Assurance
Software Engineer
Game Designer
Software Developer
Game Writer
Visual Artist/Designer
3D Modeling Artist
Audio/Sound Effects Developer
Level Designer



Careers in **Game and Interactive Media** help you to understand games from inside out and develop the core design and creative storytelling expertise and gain an in-depth understanding of the writing, art, gameplay, audio, music and animation skills needed to create immersive and interactive games.

If you like to:

- ◆ Work with computers
- ◆ Participate as a team
- ◆ Communicate with people
- ◆ Design computer software

For more information contact:

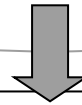
Mr. Williams in E239, or talk to your guidance counselor.

Programming and Software Development 110201

Career Cluster: Information Technology

Required Courses:

Introduction to Computer Programming⁵⁰⁵⁰
Intermediate Computer Programming⁵⁰⁵¹



Choose Two of the Following Courses:

Advanced Animation⁵³⁵¹
Advanced Cyber Security⁵³⁷²
Advanced Web Page Design and Development⁵⁰³³
Computer Forensics⁵³⁷⁴
Cyber Security Fundamentals⁵³⁷⁰
Entrepreneurship⁵⁴⁰⁰
Fundamentals of Computing⁵⁰²³
Fundamentals of Web Page Design and Development⁵⁰³¹
Foundations of Animation⁵³⁵⁰
Game Design and Development⁵³⁵²
GIS Technology 1⁵³⁶¹
GIS Technology 2⁵³⁶²
IT Fundamentals⁵⁰²⁵
Java Fundamentals and Java Programming⁵⁰⁵⁸
Professional and Leadership Development
SAS Programming 1⁵³²⁷
SAS Programming 2⁵³²⁸
Information Technology, Work-Based Credit⁵³⁹⁰

Completer Certification

CERTIPORT IC3
COMPTIA ITF+

Career Occupations:

Applications Analyst
Computer Engineer
Data Modeler
Programmer Analyst
Development Engineer
Program Manager
Administrator Test Engineer
Programmer • Tester
Software Applications Specialist
Design Engineer
Administrator



People with expertise in **Programming and Software Development** work with cutting-edge technologies to develop tomorrow's products for use by businesses and consumers.

If you like to:

- ◆ Work with computers
- ◆ Participate as a team
- ◆ Communicate with people
- ◆ Design computer software

For more information contact:

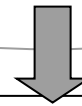
Mr. Williams in E239, or talk to your guidance counselor.

Web Design and Development 110801

Career Cluster: Information Technology

Required Courses:

Fundamentals of Web Design and Development⁵⁰³¹
Advanced Web Design and Development⁵⁰³³



Choose Two of the Following Courses:

Advanced Animation⁵³⁵¹
Introduction to Computer Programming⁵⁰⁵⁰
Intermediate Computer Programming⁵⁰⁵¹
Digital Publication Design⁵¹⁷⁶
Digital Technologies⁵¹⁸⁰
Digital Media Marketing⁵⁰³⁰
Digital Multimedia⁵⁰³⁰
Entrepreneurship⁵⁴⁰⁰
Fundamentals of Computing⁵⁰²³
Foundations of Animation⁵³⁵⁰
Game Design and Development⁵³⁵²
Google Applications⁵⁰⁰⁷
Image Editing 1⁵³⁴⁰
Information Technology Foundations⁵²⁷⁰
IT Fundamentals⁵⁰²⁵
Java Fundamentals and Java Programming⁵⁰⁵⁸
Professional and Leadership Development⁵¹⁷⁸
Social Media Marketing⁵⁰³⁴
Information Technology, Work-Based Credit⁵³⁹⁰

Completer Certification

CERTIPORT IC3

COMPTIA ITF+

Career Occupations:

2D/3D Artist • Designer

Audio/Video Engineer

Media Specialist • Author

Developer • Specialist Producer

Production Assistant

Programmer • Producer

Streaming Media Specialist

Page Developer • Site Developer

Social Networking Specialist

Blog Developer



Careers in **Web Design and Development** involve creating, designing and producing interactive multimedia products and services, including development of digitally-generated or computer-enhanced media used in business, training, entertainment, communications and marketing.

If you like to:

- ◆ Work with computers
- ◆ Participate as a team
- ◆ Communicate with people
- ◆ Design computer software

For more information contact:

Mr. Williams in E239, or talk to your guidance counselor.

NOTES

Students that need courses to complete, updates needed for next year, etc.

