

 SERVICE AREA: Information Solutions



# INFORMATION TECHNOLOGY

Growth in the information technology sector is moving at the speed of the web – and if you want to be part of the ongoing technological revolution, check out this field! Bolstered by the increased focus on cloud computing and information security, the federal Bureau of Labor Statistics projects information technology careers will grow 12 percent through 2028. This cluster has a wide range of opportunities across the spectrum of educational requirements.

 PATHWAYS IN THIS CLUSTER...

- » Information Support and Services
- » Network Systems
- » Programming and Software Development
- » Web and Digital Communications



 ...LEAD TO OCCUPATIONS AS:

- » Database Administrator
- » Data Systems Designer
- » E-Business Specialist
- » Game Developer
- » Information Technology Engineer
- » Media Specialist
- » Network Administrator
- » Network Security Analyst
- » PC Support Specialist
- » Programmer
- » Software Applications Specialist
- » Systems Administrator
- » Telecommunications Technician
- » User Support Specialist
- » Virtual Reality Specialist
- » Web Architect/Designer



DIVE DEEPER INTO CAREER OPTIONS!

[www.dbqschools.org/career-exploration](http://www.dbqschools.org/career-exploration)

OR

**login to Kuder Navigator**

(the Dubuque Community School District's career information system)

This page is meant to guide student course selection based on career interest and is not a comprehensive list of courses required for graduation from high school or for all 2-year and 4-year college-bound students.

- For comprehensive 4-year course recommendations, review pages 33-35.
- For comprehensive graduation requirements, review page 4.



## CHART YOUR COURSES

The following high school courses can help prepare you for success in this field after high school. Everyone will have a career – not everyone will go to college. Start charting your courses with CAREER TRAINING and proceed to 2-YEAR-DEGREE and 4-YEAR DEGREE based on your post-secondary plans.

CAREER TRAINING	
<b>Recommended Courses:</b>	
BUS121	Computer Essentials
ISS131	Computer Science Principles I
ISS132	Computer Science Principles II
ISS311	Student-Run Help Desk I
ISS312	Student-Run Help Desk II
WBL300	Employability Skills with Job Shadowing
WBL401	Internship
<b>Suggested Extension Courses:</b>	
ISS121	Multimedia
ISS221	Video Production



2-YEAR DEGREE	
<b>Recommended Courses:</b>	
ENG641	Composition I
ENG643	Public Speaking
ISS701	Fundamentals of Web Design
ISS702	Computer Ethics
MTH271/272	Algebra II
<b>plus recommended CAREER TRAINING courses</b>	
<b>Suggested Extension Courses:</b>	
MTH361	Foundations of College Math
MTH362	Math for Liberal Arts
<b>plus suggested CAREER TRAINING courses</b>	



4-YEAR DEGREE +	
<b>Recommended Courses:</b>	
ENG644	Composition II
ISS531/532	AP Computer Science A
MTH331/332	Pre-Calculus with Trigonometry
or MTH361 Foundations of College Math and	
MTH362	Math for Liberal Arts
<b>plus recommended CAREER TRAINING and 2-YEAR DEGREE courses</b>	
<b>Suggested Extension Courses:</b>	
ART113	Art 2D
ART114	Art 3D
<b>plus suggested CAREER TRAINING and 2-YEAR DEGREE courses</b>	