



Accounting

9th, 10th, 11th, 12th Grade Business Class

Content Studied:

- Accounting Cycle
- Cash Control /Writing Checks
- Financial Statements
- General Journals
- General Ledgers
- Payroll
- Income Taxes



Students who are interested in pursuing a Business field in college or enjoy Math

Use Accounting Software

Understand Financial Statements

Monopoly!!

Project Based – No Homework!

Be a member in FBLA!

**Business & Information Technology Department
A Career & Technical Education Program**

Questions: tjfinnerty@fcps.edu

Room. E213



Business Law

9th , 10th , 11th , 12th Grade Business Class


★ Semester Class ★

Content Studied:

- Legal System, Courts and Procedures
- Crimes and Torts
- Contracts and Sales Agreements
- Constitutional Law, Consumer Law
- Consumer Rights and Responsibilities

**Project Based Class – NO
HOMEWORK!**

Guest speakers, Debates, Field trip



Students interested in the legal system
and how it impacts the business world
would enjoy this class.

Questions: jnhaskett@fcps.edu
Room. E211

**Business & Information Technology Department
A Career & Technical Education Program**



Business Management

9th, 10th, 11th, 12th Grade

★ *Semester Class* ★

Business Management

- Management Functions and Styles
- Marketing Activities
- Financial Activities
- Human Resources Functions
- Analyze a Business Plan



Students who are interested in the field of business or being future entrepreneurs would enjoy this class.

Project Based Class – NO
HOMEWORK!

Virtual Business
Management Simulation

Questions: jnhaskett@fcps.edu
Room. E211

Business & Information Technology Department
A Career & Technical Education Program



CS Foundations

9th, 10th, 11th, 12th Grade IT Classes

- Survey course introducing students to many aspects of computing
- **Programming in Python with CMU CS Academy**
- **Text-based Coding to create graphic designs/games**
- **Networks and Computer Systems**
- **Cyber Security**
- **Impact of Computing and the Internet**
- **Data Analysis**

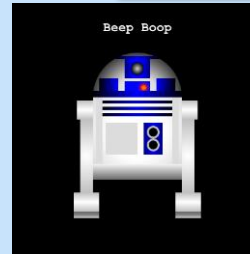
Prerequisite: None

Students who are interested in coding, impact of computing, networks, or anything related to computers, with NO prior coding experience..

Questions: dmmalkowski@fcps.edu
Room E214

Project Based Learning

Learn Industry Leading Software



Collaborative Learning

Introduction to Multiple Industries

Business & Information Technology
A Career and Technical Education Program



CS Programming

9th, 10th, 11th, 12th Grade IT Classes

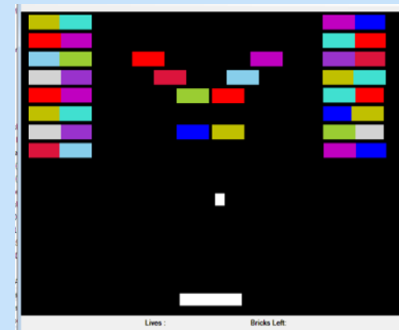
Introduction to Programming & Computer Science Concepts:

Logic, Loops, Variables, Arrays, Conditionals, Flowcharts using:

- Python with CMU CS Academy
- Text-based Coding to create graphic designs and games
- Data Analysis
- Internet of Things (IoT)

Project Based – No Homework

Learn Industry Leading Software



Guest Speakers

Considered a Prerequisite for Advanced Programming and IB CompSci

Students who like computers or developing applications would enjoy

Questions: dmmalkowski@fcps.edu

Room E214

Business & Information Technology Department
A Career & Technical Education Program



Advanced Programming HN

10th, 11th, 12th Grade IT Classes

- Develop advanced level program applications
- College level curriculum
- **Advanced Python with CMU CS Academy**
- **Explore AI and Data Analysis**
- **Develop Critical-Thinking and Problem-Solving Skills**
- **Industry Credentials Available**
- **Test for CMU College Credits!**

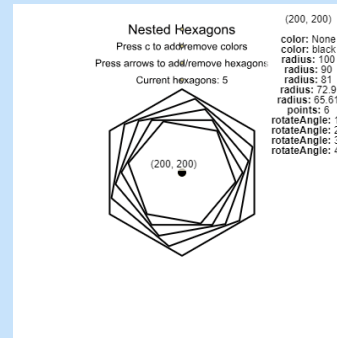


Prerequisite: CS Programming or Computer Science
Students who like computers, playing and developing video games would enjoy this class.

Questions: dmmalkowski@fcps.edu
Room E214

Project Based Learning

Learn Industry Leading Software



```
4
5 from cmu_graphics import *
6
7 def onAppStart(app):
8     app.hexagons = 5
9     app.useColors = False
10
11 def redrawAll(app):
12     # draw the title and instructions
13     drawLabel('Nested Hexagons', 200, 30, size=16)
14     drawLabel('Press c to add/remove colors', 200, 50, size=12)
15     drawLabel('Press arrows to add/remove hexagons', 200, 70, size=12)
16     drawLabel('Current hexagons: ' + str(app.hexagons), 200, 90, size=12)
17     # draw the nested hexagons
18     radius = 100
19     for hexagon in range(app.hexagons):
20         if app.useColors:
21             color = rgb(255 - 255*hexagon // app.hexagons, 0, 0)
22         else:
23             color = None
24         drawRegularPolygon(200, 200, radius, 6, fill=color, border='black',
25                             rotateAngle=10*hexagon)
26         radius *= 0.9
27
28 def onKeyPress(app, key):
29     if key == 'c':
30         app.useColors = not app.useColors
31     elif key == 'up' or key == 'right':
32         app.hexagons += 1
33     elif (key == 'down' or key == 'left') and (app.hexagons > 1):
34         app.hexagons -= 1
35
36 def main():
37     runApp()
38
39 main()
```

Collaborative Learning

Introduction to Multiple Industries

Business & Information Technology Department
A Career & Technical Education Program



Cyber Security Fundamentals

9th, 10th, 11th, 12th Grade Business Class

Content Studied:

- Principles of Cyber Security
- Exploring Emerging Technologies
- Examine Threats & Protective Measures
- Data Security
- Careers in Cyber Security
- Securing Operating Systems



Students who are interested in pursuing a career in computing or cyber security

Questions: tjfinnerty@fcps.edu
Room. E213

Project Based – No Homework!

Be a member in FBLA!

Simulations & Competitions!!!

**Business & Information Technology Department
A Career & Technical Education Program**

Design, Multimedia & Web Technologies

9th, 10th, 11th, 12th Grade

- Product Oriented Class
- **Focus on Advanced MS Office & Adobe Creative Suite activities**
- Create Web Pages, Multimedia Slideshows
Develop Music Videos and Commercials
 - Use Photoshop to work with images
 - Design Calendars, Cards, Brochures,
License Plates, Posters
and a Class Cookbook



Questions: jnhaskett@fcps.edu

Rm. E211

Illustrator

Muse

InDesign

Photoshop

Business & Information Technology Department
A Career & Technical Education Program



Game Design and Development

10th, 11th, 12th Grade IT Classes

- Create an Original Game Idea
- Use the Unity Game Creation Engine for Modeling, Scripting, Physics, Animation, and Level Design
- Apply Game Design Theory to Make a Better Game
- Complete Large Projects with Effective Project Management
- Be a Better Employee in a Technological Industry

Project Based – No Homework

Learn Industry Leading Software



Guest Speakers

Pathway to Multiple Industries

Prerequisite: Programming, Adv. Programming or equivalent

Students who like computers, playing and developing video games, digital art or animation, would enjoy this class!

Questions: dmmalkowski@fcps.edu
Room E214

Business & Information Technology Department
A Career & Technical Education Program

IB Business Management SL

11th, 12th Grade

■ Exploration of the Functional Areas of Business:

- Human Relations
- Finance
- Marketing
- Operations Management

■ Project examples:

- Franchise Day
- Product Innovation

■ IB Components (both SL & HL)

- Internal Assessment
- External Assessment (P1 & P2)



In order to access the HL level of this course, students must take the SL level their Junior year.

Questions: rlglasbrenne@fcps.edu
Room E212

Satisfies Economic & Personal Finance Course Requirement

Project Integration with Real World Applications



Internal Assessment to explore Real Businesses

Join Future Business Leaders of America (FBLA)



Business & Information Technology Department
A Career & Technical Education Program

IB Business Management HL

12th Grade

■ Deeper exploration of the Functional Areas of Business:

- Human Relations
- Finance
- Marketing
- Operations Management

Project Integration with Real World Applications

■ Integration of more contemporary business concepts such as:

- Supply Chain Management
- Management Information Systems
- Crisis Management & Conflict Resolution

Internal Assessment to explore Real Businesses

■ IB Components (HL)

- Internal Assessment
- External Assessment (P1, P2 & P3)

Join Future Business Leaders of America (FBLA)



Prerequisite: Must have completed IB Business Management SL

Questions: rlglasbrenne@fcps.edu
Room E212

*Business & Information Technology Department
A Career & Technical Education Program*



IB Computer Science SL & HL

11th, 12th Grade

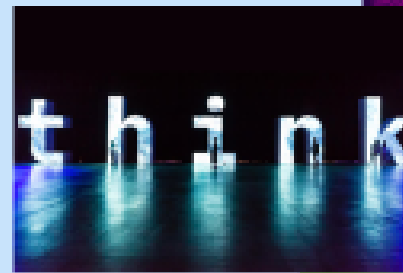
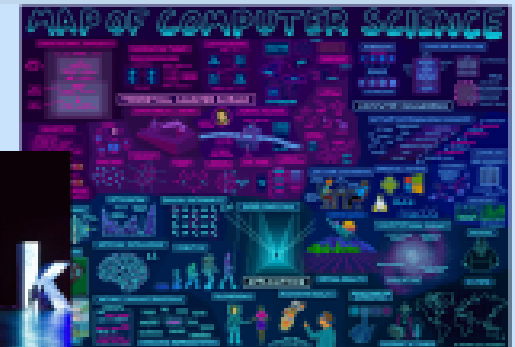
- Dive deep into a wide array of Computer Science concepts
- Explore international impacts of CS
- **Python and Java programming languages**
- **Discover how systems are developed and YOU can shape the future**
- **Nurture Critical-Thinking and Problem-Solving Skills**



Prerequisite: CS Programming or Computer Science
Students who like computers, exploring what the future holds in store, and innovation would enjoy this class.

Project Based Learning

Learn Industry Leading Software



Collaborative Learning

Introduction to Multiple Industries

Questions: dmmalkowski@fcps.edu
Room E214

Business & Information Technology
A Career and Technical Education Program

IB Economics SL & HL

11th, 12th Grade

- Microeconomics
 - Supply & Demand
 - Elasticity
 - Government Failure
- Macroeconomics
 - Gross Domestic Product
 - Fiscal & Monetary Policy
- International Economics
- Development Economics



3 smaller Internal Assessments
Micro / Macro / Intl

Questions: tjfinnerty@fcps.edu
Room E213

Earn your "EPF" Credit !!!!!

Discuss the Global Economy



Collaborative Learning

Introduction to Multiple Industries

Business & Information Technology
A Career and Technical Education Program

Business Cooperative Internship

Plan on working next school year?

Earn graduation credit, money and work experience!

Requirements:

- Grades 10 – 12
- Must be enrolled in a business course
- Job must be a paid position

Why do Business Cooperative Internship?

- **1 Credit** (280 hours on the job)
Early Release or NO early release
- **2 Credits** (560 hours on the job)
Early release: Pds. 8, or 7, or Pds. 7& 8
- Work Experience, School Credit & \$\$\$

For more information
contact:

Ms. Anne Chapman
in E212

aachapman@fcps.edu

703-426-2312

Business & Information Technology Department
A Career & Technical Education Program

Why

Business & Information Technology Classes?

They satisfy the **Career and Technical Education requirements** for the following diplomas:
Standard, Standard Technical, Advance Studies and Advance Technical

Earn the Board of Education's Career and Technical Education
Diploma Seal by taking a sequence of classes.

Industry certification available in most classes:

MOS (Microsoft Office Specialist) in Microsoft Word,
Excel, Access, or PowerPoint
NOCTI - Accounting
IC3 – Computer Literacy
WISE – Financial Literacy

Benefits:

Interactive approach
Project Oriented

All classes taught in computer labs,
no homework, and they are fun!

Earn a **verified credit** by passing an industry
certification and completing a course

Business & Information Technology Department
A Career & Technical Education Program

Business & IT is SNOW much fun!

