Learning that works for America

CTE™

INFORMATION TECHNOLOGY: COMPUTER SCIENCE

AVAILABLE @ SOUTH ADAMS HS

Computer Science: Pilot program begins 2017-18

Students to begin professional IT studies

Information Technology (IT)
The study or use of systems (especially computers, software, and telecommunications) for storing, retrieving, and sending information.

Hardware & Software - Information Technology Systems require interaction between both hardware and software components. Today's workplace requires that IT professionals be knowledgeable of both.

The **South Adams HS** Computer Science Lab will provide **Area 18 CTE** students with an opportunity to study computer systems hardware and software domains as they explore available postsecondary education and career options available in the Information Technology field.

Program Development and High Quality Instruction will be led by veteran IT professional Mark McKinley. With a career that spans over 30 years in information technology, Mr. McKinely brings over thirty years of experiences in Information Technology and Teaching experience. A native of Jay County, Mr. McKinely currently works for EP Graphics in Berne, IN as a Systems Administrator and Application Developer.

South Adams Computer Science

Year 1 - Semester 1 - Programming
#4801 Comp. Sci. I
2 HS Credits

Year 1 - Semester 2 - Hardware
#5230 Comp. Tech. Support
2 HS Credits

Year 2 - full year / half day (p.m.)
#5252 Comp. Sci. II Sp. Topics
6 HS Credits

CTSO Participation
SkillsUSA

Student Requirements & Fees
TBD

Part of what made the Macintosh great was that the people working on it were musicians, poets, and artists, and zoologists, and historians. They also happended to be the best computer scientists in the world. But if it hadn't been computer science, these people would have been doing amazing things in other fields.

– Steve Jobs

Occupation	Median Pay	Top Pay	10-Year Growth Rate	Total New Jobs
Computer software engineers	$94,180	$143,330	32%	295,000
Computer systems analyst	77,740	119,070	20	108,100
Computer support specialists	46,260	76,970	14	78,000
Network and computer systems administrators	69,160	108,090	23	78,900
Database administrators	73,490	115,660	20	24,400
Computer and information research scientists	100,660	153,120	24	7,000
Computer and information systems managers	115,780	166,400	17	49,500

*Excerpted from *Occupational Outlook Handbook*, 2010–2011 Edition, Bureau of Labor Statistics

Students will learn about...

- Software Development / Specificaiton
- Problem Solving / Algorithms / Psuedocode
- Boolean & Numeric Expressions
- Decisions - Logic and Loops
- Arrays, Recursion, File Input/Output
- Documenting and Debugging
- Machine Lanuage, Binary, Instuction Sets
- Digital - Microprocessors / Microcircuits
- Desktops / Peripherals / Printers
- Memory and Storage
- Operating Systems
- Networking and Internet fundamentals