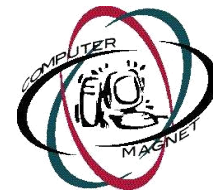


# NAF 2004 - Introduction to Information Technology Workshop

QuickTime<sup>®</sup> and a  
H.263 decompressor  
are needed to see this picture.

September 27, 2004

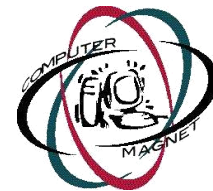


---

# Icebreaker

[Presenter: Gary. Timing: ]

- **Who are you?**
- **Where is your program?**
- **How large is your program?**
- **How long has your program been in existence?**

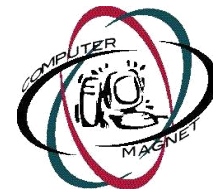


# Overview of our program

[Presenter: Gary. Timing: ]

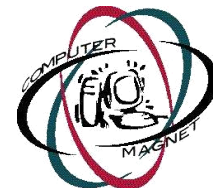
- **Vision**

We aim to create “digital” leaders who are equipped with tools, processes, and principles to initiate and manage products resulting from, and promoting change.



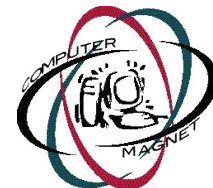
## Overview of our program

- **The Students:**
  - Are Digital, i.e. non-linear in their learning style.
  - Can be effective Leaders.
  - Can use multiple tools to address multiple users and approaches.
  - Embrace multiple processes.
  - Are guided by multiple principles.
  - Can manage projects for real customers.
  - Usually focus on the end (“Begin with the end in mind”).
  - Learn by browsing [applies to the web as well as other media]



## Overview of our program

- **Curriculum Characteristics – Four Focuses**
  - **Focus One : Principles**
    - Personal development (Maturity)
    - Social responsibility and Ethics
    - Discriminating consumerism
    - Rigorous play
    - Passionate involvement
    - Spiral Nature of lifelong learning
    - Technology as a vehicle for interaction and connections
    - **Vendor agnostic approach**

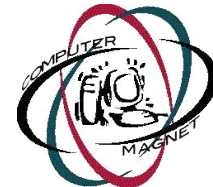


## Overview of our program

- *Curriculum Characteristics – Four Focuses*

### – Focus Two: Processes

- Personal development
- Time management
- Project management
- Team work
- Research and development
- The student-turned-teacher model

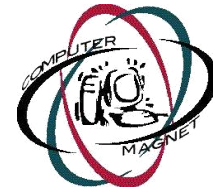


## Overview of our program

- *Curriculum Characteristics – Four Focuses*

### - Focus Three: Tools

- Communications
- Operating systems, software, and hardware
- Personal Development
- Research (Information Access)
- Real-world projects leading to purposeful problem-solving

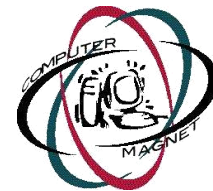


## Overview of our program

- *Curriculum Characteristics – Four Focuses:*

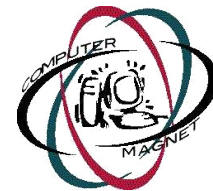
### – Focus Four: Products

- Engagement through immersive, participatory, image-rich, connective activities
- Purposeful Projects; where possible, industry-related
- Community involvement
- Customer education
- Acceptance and respect
- Commitment
- Inspiration through success
- Structured presentations and documents
- Lifelong learning



# Two approaches to Curriculum Delivery

- Which approach you use depends on your scheduling constraints
  - Concurrent classes, rotation of students
  - Separate classes, each covering the entire curriculum

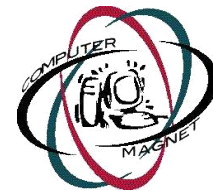


# Example curriculum

- **Technical Support**

[Presenters: Cary Knott and Mark Francis. Timing: ]

- Curriculum
- Presentation and teaching techniques
- Projects that enhance the curriculum
- Real-world understanding of the subject matter



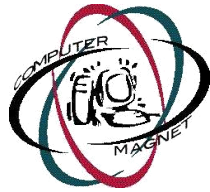
---

# Example curriculum

- **Web Applications**

[Presenter: Kevin Marlatt. Timing: ]

- Curriculum
- Presentation and teaching techniques
- Projects that enhance the curriculum
- Real-world understanding of the subject matter

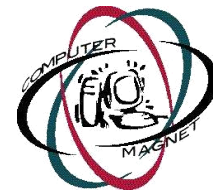


# Example curriculum

- **Software Engineering**

[Presenter: Brian Dino. Timing: ]

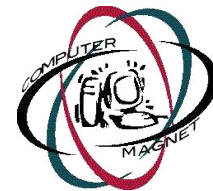
- Curriculum
- Presentation and teaching techniques
- Projects that enhance the curriculum
- Real-world understanding of the subject matter



---

# Questions and Answers

[Presenters: All. Timing: ]



# References

<http://denvernorth.org/wow/index.html> (Computer Magnet Web Applications site. Topics related to the processes and software tools used to create web content and its delivery, including ActionScript.)

<http://tjhs.dpsk12.org/~softeng/studwebpg.html> (Computer Magnet Software Engineering site. See especially the “MindStorms”, “Java”, and “Internet Programming Projects” links.)

Margolis, Jane and Fisher, Allan. *Unlocking the Clubhouse: Women in Computing*. MIT Press, Cambridge, Massachusetts. 2002. ISBN: 0262133989.