COMMUNICATION TECHNOLOGY

COURSE CURRICULUM

Curriculum Foundations

Definition of Program area:

Communication is known as the sharing of information, thoughts and ideas. Communication Technology is the use of knowledge, tools and skills to facilitate communication. The goal is to make communication easier, more economical, and more efficient.

Communication Technology covers the five major communications systems used to facilitate the sharing of information, thoughts and ideas. These systems include graphic production, video systems, optic systems, technical design, and data communications. This curriculum is designed so that each of these systems is covered from their early beginnings, scientific significance, equipment operation, and examples of various applications.

Rationale:

With the constant changes in the various technologies today, communication is becoming more and more technologically advanced. People are communicating with each other in ways that would not have been possible 10 to 15 years ago. The Internet is one of the largest and most widely used tools to connect the world and revolutionize communication. People are able to correspond with individuals, machines and even animals in a matter of seconds via the Internet.

It is hard to imagine what is still possible and what devices are yet to be invented in the area of communication. We as a global society can definitely expect to see many improvements in existing devices as well as many new and exciting innovations. Devices such as Internet compatible cellular phones, high definition television, and virtual classrooms will be at the forefront of ort new technological society. As all kinds of information become easier to attain by more people, our world will grow smaller and more complex. The constant advances in communication technology will improve our lives and change our world forever.

It is important to study each of these new technologies because they are examples of the devices that the learners will be using when encountering real world applications. These new technologies are constantly taking the place of older innovations. It is necessary to find out about these

new advancements and the manner in which they are being implemented. This will help the learner in the job setting as well as in every day life.

Content Source:

The common body of knowledge is communication technology. The subject of communication technology is made up of generally five branches. These branches of include: optics, technical design, data communication, graphic production, and audio/video production. The common body of knowledge covers the technical aspects of these five branches.

Content Structure: The following is an illustration outlining the content for Communication Technology
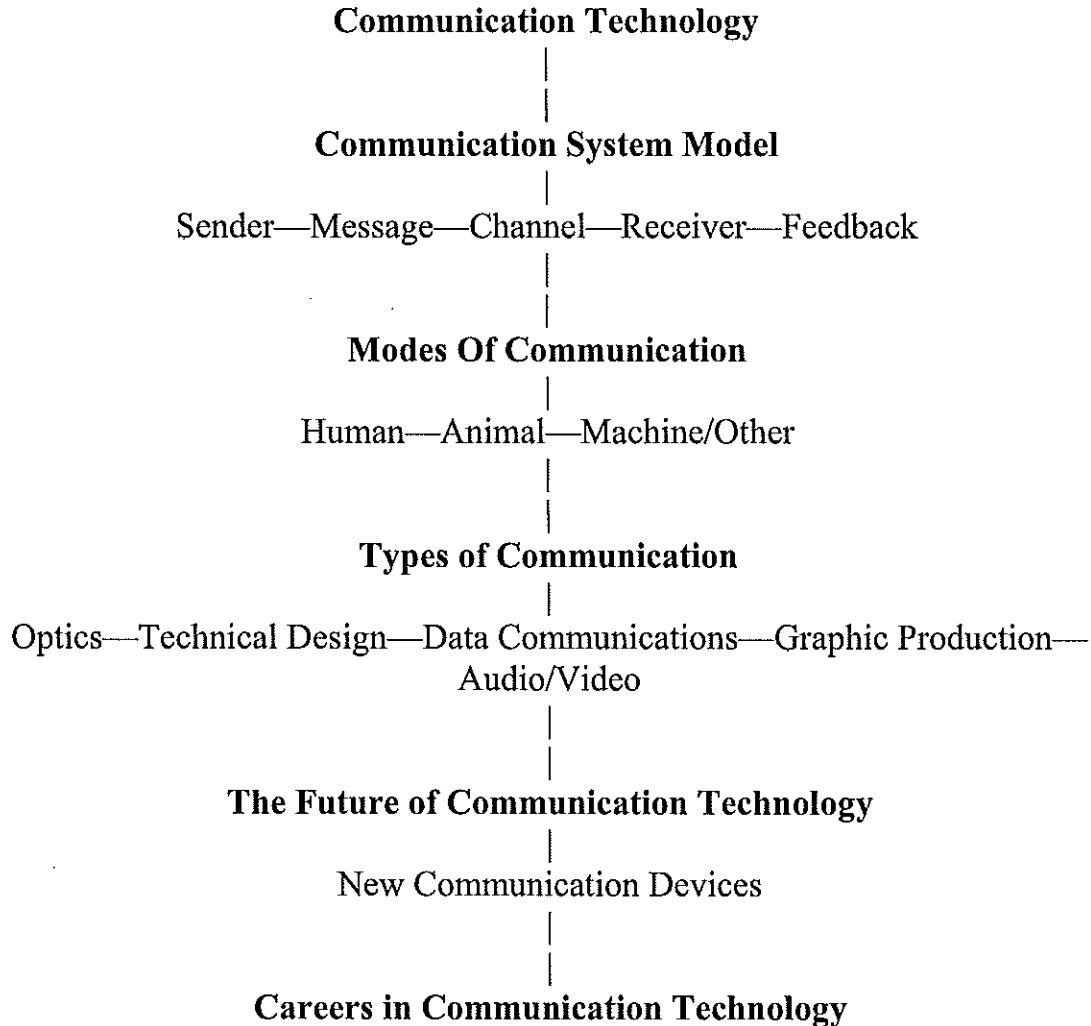
Communication Technology

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Communication System Model

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Sender—Message—Channel—Receiver—Feedback

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Modes Of Communication

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Human—Animal—Machine/Other

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Types of Communication

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Optics—Technical Design—Data Communications—Graphic Production—Audio/Video

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The Future of Communication Technology

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New Communication Devices

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Careers in Communication Technology

Figure 1.

Program Aim:

The aim of this course is to introduce students to the major areas that cover the many communications systems. Students will learn about the many different kinds of communication technology equipment and their applications. Students will gain an awareness of the career fields that deal with communication technology. This course will also give the students a sense of the many ways that the new kinds of communication technology impacts society. Students will have a newly acquired technical literacy in the areas covered by communication technology because of skills that will be mastered through instruction.

Program Goals:

1. Differentiate between the basic systems of Communication Technology.
2. Identify the many data communication systems.
3. Display mastery of technical design systems to include equipment, drawing principles.
4. Explain the components of basic optic systems that deal with light, lenses, photography, and film processing.
5. Explain the processes of graphic production that includes graphic message design and message transfer.
6. Explain audio and video systems that include electronic systems, and audio and video applications.
7. Critique the -many careers and applications in communication technology.
8. Explain the impacts of various communication technologies on our society and our every day lives.

Scope and Sequence:

Unit 1: Introduction to Communication Technology (2 weeks)
1. Understanding Communication Systems
2. The Changing Nature of Communication Technology
3. The Impact of Communication Technology

Unit 2: Data Communication Systems (3 weeks)
1. Introduction to Computers
2. Computer Hardware
3. Computer Applications

Unit 3: Technical Design Systems (3 weeks)
1. Principles of Technical Design
2. Technical Design Processes

Unit 4: Optic Systems (4 weeks)
1. Principles of Optic Systems
2. Photography equipment and Methods
3. Applications of Photography

Unit 5: Graphic Production Systems (3 weeks)
1. Message Design, Composition, and Assembly
2. Film Conversion and Assembly
3. Message Transfer and Product Conversion

Unit 6: Audio and Video Systems (3 weeks)
1. Principles of Audio and Video Communication
2. Audio and Video Equipment
3. Applications of Audio and Video Systems