

## Course Parameters for Communication Technology

### Facilities

Some courses in the Communication Technology scope and sequence can be delivered in a typical classroom setting. Refer to Attachment 4: CTS without Labs in this appendix. Others require access to more specialized in-school or off-campus facilities. These might include:

- storage areas
- water and sinks
- whiteboards/bulletin boards
- fresh air and fume extraction
- an exterior exit
- telephone/data line service
- darkroom(s).

Courses that require access to facilities in addition to those present in a typical classroom setting are identified in the Course Parameters. For more information, see the corresponding course in Sections D, E and F of the *Guide to Standards and Implementation*.

The type of facility and equipment required for the Communication Technology strand is determined by the nature and scope of the program being offered. The current Visual Communication program requires specialized darkroom facilities including water, fume ventilation and specialized power. With the advent of digital photography, the darkroom can be viewed as an option, at least at the introductory and intermediate levels of the strand; however, some of the program outcomes identified at the advanced level require a darkroom facility. The print theme requires specialized ventilation and access to water for cleaning of equipment, as well as a chemical storage cupboard required for inks, solvents, etc.

### Equipment

A recommended equipment list for each course in the scope and sequence is provided in the Course Parameters chart. Though not exhaustive, the list identifies equipment recommended as necessary to meet the course outcomes.

Programs offering audio/video production require video cameras and one or more editing facilities depending on student demand. Some schools have addressed the audio/video theme with minimal equipment; others have provided full television studio facilities, complete with advanced cameras and state-of-the-art switching and editing capabilities. Some Communication Technology sites produce programs for their school, school system and community, including production for their local cable networks. It may be possible for students to access more advanced equipment and facilities through local television/radio, printing shops, photography studios, design studios and other community sources, reducing the need for high end facilities in the school.

Equipment for courses in Communication Technology can be obtained through a combination of purchasing, borrowing, renting, improvising and constructing. When choosing a suitable option for obtaining equipment, give consideration to:

- adequacy of budgets for purchase
- capabilities regarding in-school maintenance and storage
- the logistics and cost of renting
- potential for loan from industry, government or post-secondary agencies
- joint purchases with other organizations in the community
- opportunities for improvising or constructing.

Teachers may find it desirable to develop a list of additional materials and supplies required for specific learning activities planned within each course.

## **Safety and Security Considerations**

Safety and security issues in Communication Technology depend on the scope of the program provided. Safety with respect to the use of equipment, materials and supplies is particularly important in photography and print themes, due to processing chemicals, fumes from printing ink, paper cutters, press and bindery equipment. Steps should also be taken to lock up solvents and inks in a fireproof cabinet and to secure power supply through a lockout mechanism.

## **Instructional Qualifications**

Courses in Communication Technology can be implemented by Alberta Certified Teachers who have interest in providing instruction in classroom and/or laboratory environments. A background in design, art, English or relevant industry is an asset to those who provide instruction in Communication Technology courses, particularly at the intermediate and advanced levels. Teachers may find it desirable to access sources of instructional support available from industry, professional associations and consultants, and relevant government agencies.

Communication Technology addresses four major themes: presentation, photography, print, audio/video/digital. Its foundation is the current Visual Communication program; teachers of this program have much of the background necessary to offer the strand. Teachers of Fine Arts, Visual Communication and Industrial Arts may find a transition into Communication Technology relatively easy, as they have had some experience with the content and the conceptual framework. Communication Technology teachers require some technical background in one or more of the themes to teach the program effectively, particularly in the photography, print and audio/video/digital themes. Due to the scope of the program, additional training through university, college or technical schools would be beneficial. Formal design, photography, audio/video and print graphics training are advantageous in the related courses.

## **Credentialling Opportunities**

There is a formal articulation to the Graphic Arts Craftsman trade through the printing theme of Communication Technology. While this theme provides some background for students in the area, there are no credentialling opportunities identified at this time.



## Course Parameters

### LEVEL

- 1 – Introductory
- 2 – Intermediate
- 3 – Advanced

### THEME

- A. Presentation
- B. Photography
- C. Print
- D. Audio/Video/Digital

### EQUIPMENT

- ✓ Recommended in order to meet course outcomes
- Optional in providing access to supportive learning environments

## COMMUNICATION TECHNOLOGY

LEVEL	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
THEME	A	A	B	C	D	D	D	A	A	A	B	B	B	C	C	D	D	D	D	B	A	A	A	B	B	B	C	C	C	D	D	D	D	D	D		
INSTRUCTIONAL QUALIFICATIONS																																					
INSTRUCTIONAL FACILITIES	*			*	*	*	*	*			*	*	*	*	*	*	*	*	*	*	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*
CREDENTIALLING OPPORTUNITIES																																					
EQUIPMENT	Presentation & Communication 1	Media & You	Photography 1	Printing 1	Audio/Video Production 1	Animation 1	Digital Design 1	Presentation & Communication 2	Media Design & Analysis 1	Script Writing 1	Photography 2	Photographic Communication	Photographic Techniques 1	Printing Techniques 1	Printing Applications 1	Audio/Video 1	Audio/Video 2	Animation 2	Digital Design 2	Special Effects Photography	Presentation & Communication 3	Media Design & Analysis 2	Script Writing 2	Photography 3	Photojournalism	Photographic Techniques 2	Colour Photography	Printing Techniques 2	Printing Applications 2	Audio 3	Video 3	Animation 3	Digital Design 3				
	1010	1020	1030	1050	1060	1070	1080	2010	2020	2030	2040	2050	2060	2070	2080	2090	2100	2110	2120	2130	3010	3020	3030	3040	3050	3060	3070	3080	3090	3100	3110	3120	3130				
Light table(s)		○		✓		○					✓	✓	✓	✓	✓					✓	✓			✓	✓	○	✓										
Microphones					○			✓				○				✓	✓				✓												✓	✓	✓		
Mixer		○			○							○				✓	✓																✓	✓	✓		
Paper cutter				✓					○				✓	✓	✓								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Photocopier	○			○					○					○	○								○					✓	✓								
Photo enlarger(s)		○	○								✓	✓	✓	✓						✓		○		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Printer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Projector, 16mm						✓												✓																	✓		
overhead	✓	○						✓													✓														○		
slide	✓	○						✓	○		✓	✓									✓	✓	✓	✓	✓	✓	✓	✓							○		
Recording booth					○			✓								✓	✓																✓	✓			
Scanner	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Screen	✓	○						✓	○		✓	✓						✓			✓	✓		✓	✓	✓	✓	✓						✓			
Screen printing equipment				○											○	○													✓	✓							

\* Refer to specific 1-credit courses listed in Sections D, E and F of the corresponding *Guide to Standards and Implementation* for additional information.

## Course Parameters

## COMMUNICATION TECHNOLOGY

### LEVEL

- 1 – Introductory
- 2 – Intermediate
- 3 – Advanced

### THEME

- A. Presentation
- B. Photography
- C. Print
- D. Audio/Video/Digital

### EQUIPMENT

- ✓ Recommended in order to meet course outcomes
- Optional in providing access to supportive learning environments

LEVEL	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
THEME	A	A	B	C	D	D	D	A	A	A	B	B	B	C	C	C	D	D	D	D	B	A	A	A	B	B	B	B	C	C	C	D	D	D	D	
INSTRUCTIONAL QUALIFICATIONS				*	*	*	*	*			*	*	*	*	*	*	*	*	*	*	*	*				*	*	*	*	*	*	*	*	*	*	*
INSTRUCTIONAL FACILITIES	*			*	*	*	*	*			*	*	*	*	*	*	*	*	*	*	*	*	*			*	*	*	*	*	*	*	*	*	*	*
CREDENTIALLING OPPORTUNITIES																																				
EQUIPMENT	Presentation & Communication 1	Media & You	Photography 1	Printing 1	Audio/Video Production 1	Animation 1	Digital Design 1	Presentation & Communication 2	Media Design & Analysis 1	Script Writing 1	Photography 2	Photographic Communication	Photographic Techniques 1	Printing Techniques 1	Printing Applications 1	Audio/Video 1	Audio/Video 2	Animation 2	Digital Design 2	Special Effects Photography	Presentation & Communication 3	Media Design & Analysis 2	Script Writing 2	Photography 3	Photojournalism	Photographic Techniques 2	Colour Photography	Printing Techniques 2	Printing Applications 2	Audio 3	Video 3	Animation 3	Digital Design 3			
	1010	1020	1030	1050	1060	1070	1080	2010	2020	2030	2040	2050	2060	2070	2080	2090	2100	2110	2120	2130	3010	3020	3030	3040	3050	3060	3070	3080	3090	3100	3110	3120	3130			
Special FX generator					○	✓					✓	✓			✓	✓		✓															✓	✓	✓	
Storage cabinet(s)	○	○	✓	✓	✓			○			✓	✓		✓	✓	✓	✓	✓		✓				✓	✓	✓	✓	✓				✓	✓			
Tripod/dolly					✓	✓		○	✓		✓					✓	✓	✓		✓				✓	✓	✓	✓					✓	✓			
VCR/monitors		✓			✓	✓	✓	✓	✓			○				✓	✓	✓	○		✓	✓											✓	✓	✓	✓
Video production room					○												✓															✓	✓	✓	✓	
Work/animation table(s)		○				✓		✓						✓	✓			✓			✓	✓						✓	✓			✓	✓	✓		

\* Refer to specific 1-credit courses listed in Sections D, E and F of the corresponding *Guide to Standards and Implementation* for additional information.

