

COURSE NAME: TEL204 Technical Studies for Television II

Credit Value: 2
Total Course Hours: 28
Prerequisite Course(s): TEL104
Corequisite Course(s): None

COURSE DESCRIPTION

Students will study and apply the technical theory and standards of video, audio and associated equipment as it applies to the television broadcasting and video production industry. Knowledge gained in this course will be used when planning and setting up your video productions.

LAND ACKNOWLEDGEMENT

Canadore College resides on the traditional territory of the Anishinaabeg and within lands protected by the Robinson Huron Treaty of 1850. This land is occupied by the people of Nipissing First Nation since time immemorial.

PLAR INFORMATION

This course is eligible for Prior Learning Assessment and Recognition. Students are advised to discuss options with their program coordinator.

COURSE LEARNING OUTCOMES

Upon completion of this course, the student will have reliably demonstrated the ability to:

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| 1.0 Compare the various types of hard drives and recording formats. | 1.1 State the differences and the correct application of specific codecs. | 1.2 State the principles behind contemporary recording systems hard drive technology. | 1.3 Compare the differences behind contemporary recording systems hard drive technology. | 1.4 List the most common scanning and transfer standards used worldwide. | 1.5 Discuss the effect different video frame rates have on an image. | 1.6 Explain the technical (and artistic) differences between the most common recording formats. | 1.7 Explain the design and functions of hard drives and solid-state drives. | 1.8 Describe the procedure to follow to achieve the most effective file management. | 1.9 Explain the proper procedure of backing up data. | 2.0 Demonstrate correct procedural use of a waveform monitor and vectorscope when setting up equipment. | | |
| | 2.1 Ensure signal references are correct. | 2.2 Ensure an optimum contrast ratio is met. | 2.3 Perform proper camera set-ups using the waveform and vectorscope. | 3.0 Describe the different transmission and delivery systems used in the broadcast industry. | 3.1 Explain how satellite, microwave and fiber optic transmission systems are used in the broadcasting industry. | 3.2 Describe how the internet is used as a transmission method. | 3.3 Describe the various compression formats. | 4.0 Examine the characteristics of Digital and High-Definition Video. | 4.1 Explain the technical differences between standard definition and high definition. | 4.2 Discuss trends in the development of digital and high-definition television. | 4.3 Describe the production considerations when using high-definition video. | 4.4 Compare different transmission systems. |

5.0 Operate equipment according to safe electrical practices.

- 5.1 Explain electrical equipment requirements related to video/audio set-ups.
- 5.2 Follow rules for safely working with electricity.
- 5.3 Calculate circuit loads.
- 5.4 Inspect lighting equipment before use to ensure it meets safety requirements.
- 5.5 Perform pre-production inspections to ensure equipment is up to safety standards.
- 5.6 Describe the purpose of the electrical ground.
- 5.7 Explain the consequences of circumventing the electrical ground when using equipment.
- 5.8 Explain Ground Fault Interruption operation.
- 5.9 Describe electrical safety practices related to video/audio set-ups.

6.0 Assemble a complete mobile production

system.

- 6.1 List the required equipment to achieve the correct audio, video, graphics and network flow.
- 6.2 Explain the interaction of the required elements in order to achieve the correct audio, video, graphics and network flow.
- 6.3 Determine specific location requirements for the production set-up.
- 6.4 Identify system components required in the production.
- 6.5 Demonstrate proper packing/unpacking techniques for transporting equipment.
- 6.6 Demonstrate proper signal flow set-up for each sub-system.
- 6.7 Practice correctly setting up a mobile system for a video production.
- 6.8 Test the system set-up to ensure proper signal flow.
- 6.9 Trouble-shoot problems in the signal flow.

GENERAL EDUCATION

This is not a General Education course.

PROGRAM OUTCOMES

This course contributes to the following Ministry of Colleges and Universities approved program learning outcomes (PLO):

Broadcasting- Television

3. Participate in the planning and preparation of television, mobile and/or Web productions that meet industry standards and regulations.
8. Keep current with the needs of the television and digital media broadcast industry using strategies that enhance work performance and guide professional development.
9. Conduct work safely in accordance with all applicable acts, regulations, legislation, and codes to ensure personal and public safety.

ESSENTIAL EMPLOYABILITY SKILLS OUTCOMES

This course contributes to the following Ministry of Colleges and Universities approved essential employability skills (EES) outcomes:

1. Communicate clearly, concisely, and correctly in the written, spoken, and visual form that fulfils the purpose and meets the needs of the audience.
2. Respond to written, spoken, or visual messages in a manner that ensures effective communication.
3. Execute mathematical operations accurately.
4. Apply a systematic approach to solve problems.

5. Use a variety of thinking skills to anticipate and solve problems.
6. Locate, select, organize, and document information using appropriate technology and information systems.
7. Analyse, evaluate, and apply relevant information from a variety of sources.
9. Interact with others in groups or teams in ways that contribute to effective working relationships and the achievement of goals.
10. Manage the use of time and other resources to complete projects.
11. Take responsibility for one's own actions, decisions, and consequences.

EXTERNAL COURSE ACCREDITATIONS AND CONDITIONS

There are no external accreditations or conditions identified for this course.

COURSE EVALUATION

Evaluation Item	Weight
Assignment 1	25
Assignment 2	25
Assignment 3	20
Test 1	10
Test 2	10
Test 3	10

COURSE PASS GRADE

50

GRADING SYSTEM

A+: 90-100%	B+: 77-79%	C+: 65-69%	D: 50-54%	S - Satisfactory
A: 85-89%	B: 73-76%	C: 60-64%	F: 0-49%	I - Incomplete
A-: 80-84%	B-: 70-72%	D+: 55-59%		F- Repeat Course, included in GPA
				FS- Failure Supplemental
				FR- Repeat course, excluded from GPA

*For a complete chart of grades and descriptions, please see the Grading Policy.

LEARNING RESOURCES

No textbooks have been identified for this course.

Provided by the professor.

Resources listed on the course outline support the achievement of learning outcomes, and may be used throughout the course to varying degrees depending on the instructor's teaching methodology and the nature of the resource.

Technology requirements - <https://www.canadorecollege.ca/BYOD>

The Harris Learning Library's staff can help you find resources to support your learning - www.eclibrary.ca

LEARNING ACTIVITIES

Tests, lectures and demonstrations

DELIVERY MODE

This course may be delivered, in whole or in part, in a number of modalities, including In-Person, Remote (synchronous and/or asynchronous), hybrid, or Hyflex, as per accreditation and/or regulatory standards where appropriate. This information is identified on the course schedule (student and faculty).

RECORDING GUIDELINES

This class may be recorded by faculty of the College. Faculty will inform students when recording of the class commences and ceases. 'Recorded' means that the audio-visual and chat portions of the class will be recorded and then be stored on the College or vendor provider server. They will be made available to students, but only for the express and sole use of those registered in this course. If you have any questions or concerns about this recording, please contact your instructor or the College's privacy officer at privacy.officer@canadorecollege.ca. Full recording guidelines can be found at: <https://cdn.agilitycms.com/canadore-college/academic-centre-of-excellence/Canadore%20Recording%20Guidelines.pdf>

EXPERIENTIAL LEARNING

All full-time programs of study at Canadore College strive to provide students with the opportunity for experiential learning. This course provides students with an experiential learning opportunity through:

Workplace/Lab Simulation (EL)

ACADEMIC POLICIES

Canadore College is committed to the highest standards of academic integrity, and expects students to adhere to these standards as part of the learning process in all environments. The College's Academic Integrity policy seeks to ensure that all students understand their rights and responsibilities in upholding academic integrity

and that students receive an accurate and fair assessment of their work. Please review the Academic Integrity policy (A-18) and other academic policies found on our website:

<https://www.canadorecollege.ca/about/policies>.

COLLEGE POLICIES

- Protecting human rights in support of a respectful college community

For college policies please see: <http://www.canadorecollege.ca/about-us/college-policies>.

Accessibility Learning Services for Students with Disabilities - Student Success Services

Student Success Services provides comprehensive support to students. We aim to ensure that all students have equal access to educational opportunities and can succeed in their academic journey. Our services focus on reducing and eliminating barriers related to education through individualized accommodations and support. If you are a student with a disability, we encourage you to register with Accessible Learning by completing the Student Success – Accessible Learning Services Form (https://canadorecollege-accommodate.symplicity.com/public_accommodation/).

For more detailed information about the services offered, please visit our webpage: Student Success Services - (<https://www.canadorecollege.ca/support/student-success-services>). To connect with Student Success Services email studentsuccessnow@canadorecollege.ca or call 705.474.7600 ext 5205.

FIRST PEOPLES' CENTRE:

A culturally safe environment offering CONFIDENTIAL student focused services, drop in or make an appointment to access:

- One on one counselling
- Elder in residence program
- Peer tutoring
- Peer mentorship
- Lunch & learn workshops on study skills, self-care, life skills
- Learning Resource Centre

Drop by our offices at C254 College Drive, W103 Commerce Court or call 705 474 7600 Ext. 5961 College Drive / 5647 Commerce Court.

<https://www.canadorecollege.ca/experience/indigenous-student-experience>

WAIVER OF RESPONSIBILITY

Every attempt is made to ensure the accuracy of this information as of the date of publication. The college

reserves the right to modify, change, add, or delete content.

HISTORICAL COURSE OUTLINES

Students use course outlines to support their learning. Students are responsible for retaining course outlines for future use in applications for transfer of credit to other educational institutions.

ADDITIONAL DISCLAIMER NOTE

ATTENDANCE, DEADLINES AND ACCOMMODATIONS

All assignments are due upon deadline. Students are responsible for informing faculty of special circumstances and negotiate arrangements for alternative dates and/or grade revisions. If no prior notice has been given, the teacher of the course may require a Dr.'s note for acceptance of any late assignment. All approved late assignment submissions will incur a late penalty as determined by the faculty member for the course. Late assignments will only be accepted up to a maximum of 7 days (1 week) late after which time will not be accepted.

A student who has a student success profile and accommodations MUST present a copy of their profile to EACH professor at the beginning of EACH semester. The student shall make an appointment to discuss the required accommodations, including deadline extensions, with the professor. Allowance of late submission under the accommodations provision allows for up to a maximum of 7 days.

****ALL assignments due before midterm MUST be in and will not be accepted after midterm.**

Students who fail to meet the academic requirements specified in the course outline may be subject to involuntary changes to their academic standing as outlined in the College's academic grading policy Policies and Procedures - Canadore College.

Prior notification of tardiness or absence is always appreciated

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SOFTWARE and EQUIPMENT USAGE

SOFTWARE

All assignments and their related digital files must be submitted as outlined by the course professor or as described on the assignment sheet. All work must be accessible by the professor on the College's media computer network (i.e. NEXUS/Facilis). Project files which are not compatible with the software in the College's current disk image will not be accepted. As such, it is **STRONGLY RECOMMENDED** that all course work is done using College computers and software. If a student decides to work (edit, mix) on their personal computer, it is solely the responsibility of the student to ensure the software versions match exactly to what is available at the College and that all digital files are compatible and on the College's media network for marking. The college will determine when to update the software it uses so be aware of this when updating your software.

EQUIPMENT

Assignments must be completed using the college provided equipment. If you have your own equipment you would like to use to complete your assignments, you must get clearance from your professor **BEFORE** completing the project. The professor has the discretion to say if the equipment can be used or not. If the student completes an assignment without prior approval and the professor determines that the equipment is

not equivalent to the outcomes being taught, the assignment WILL NOT BE GRADED.