



**I. COURSE DESCRIPTION:**

This course provides an overview of the theory of x-ray and x-ray technique. The student will learn to assist the Chiropractor with the taking and processing of x-rays in a clinical setting. This course will include class and a lab component that will include field visits to an X-Ray department.

**II. LEARNING OUTCOMES:**

Upon successful completion of this course the student will be able to:

1. Discuss the purpose and types of X-rays used in Chiropractic practice.
2. Discuss the properties of x-rays, x-ray machines and x-ray films used in Chiropractic practice.
3. Identify the precautions required in assisting and preparing clients for radiation.
4. Discuss the client preparation required for Chiropractic x-rays.
5. Identify the steps in processing x-ray film.
6. Maintain accurate and complete records of x-ray procedures and results using the appropriate terminology.
7. Identify the requirements for a healthy, safe work environment.
8. Respond appropriately to guidance and direction from supervisor or senior team members.

**III. TOPICS:**

- History of X-rays,
- X-ray Terminology
- Properties of X-rays, the X-ray Machine, and X-ray Film
- Radiation Precautions
- X-rays used in Chiropractic, with Patient Preparation and Positioning
- Assisting with taking the X-ray, use of Lead Shields
- X-ray Film Processing
- Referral and Collaboration with X-ray Radiologists and Technologists
- Record Keeping

**IV. REQUIRED RESOURCES/TEXTS/MATERIALS:**

Redwood, Daniel, D.C. (1997) Contemporary Chiropractic: Churchill Livingston. New York:

Schafer, R.C., DC, FICC, (1991) The Chiropractic Assistant: The American Chiropractic Association. Arlington, Virginia

**Reference Resources/Texts/Materials:**

Ballinger, P.W., Frank, E.D. (1999). Pocket Guide to Radiography. (4<sup>th</sup> ed.). St. Louis: Mosby.

Guebert, G., Pirtle, O., Yochum, T. (1995). Essentials of Diagnostic Imaging. Toronto: Mosby.

Haldeman, Scott. (1992) Principles and Practice of Chiropractic: Appleton and Lange . Norwalk, Connecticut

<http://www.ccachiro.org/cdninfo.ht> the Canadian Chiropractic Association Infosite

<http://www.jcca-online.com/index.html>: The Journal of the Canadian Chiropractic Association website

<http://www.mbnet.mb.ca/~jwiens/chiro3.sht> : The Chiropractic Page (Canadian)

<Http://www.internets.com/chiropra.htm>: Chiropractic Search Engines website

<http://www.webgate.net/~welchiro/chiro.html>: Canadian chiropractic website

**V. EVALUATION PROCESS/GRADING SYSTEM:**

3 term tests: # 1 on Learning Outcomes 1,& 2	20%
#2 on Learning Outcomes 3 & 4	20%
#3 on Learning Outcomes 5 & 6	20%
Practical report on field visit to X-ray department/facility	15%
End of term test (covering all learning outcomes)	25%

V. EVALUATION PROCESS/GRADING SYSTEM:

GRADING SCHEME:

The following semester grades will be assigned to students in postsecondary courses:

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
A+	90 - 100%	4.00
A	80 - 89%	3.75
B	70 - 79%	3.00
C	60 - 69%	2.00
R (Repeat)	59% or below	0.00
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field placement or non-graded subject areas.	
U	Unsatisfactory achievement in field placement or non-graded subject areas.	
X	A temporary grade. This is used in limited situations with extenuating circumstances giving a student additional time to complete the requirements for a course (see <i>Policies &amp; Procedures Manual – Deferred Grades and Make-up</i> ).	
NR	Grade not reported to Registrar's office. This is used to facilitate transcript preparation when, for extenuating circumstances, it has been impossible for the faculty member to report grades.	

**VI. SPECIAL NOTES:**

Special Needs:

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your instructor and/or the Special Needs office. Visit Room E1204 or call Extension 493, 717, or 491 so that support services can be arranged for you.

Retention of course outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Plagiarism:

Students should refer to the definition of “academic dishonesty” in *Student Rights and Responsibilities*. Students who engage in “academic dishonesty” will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course, as may be decided by the professor. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

The Professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Substitute course information is available in the Registrar's office.

**VII. PRIOR LEARNING ASSESSMENT:**

Students who wish to apply for advanced credit in the course should consult the instructor.

**VIII. DIRECT CREDIT TRANSFERS:**

Students who wish to apply for direct credit transfer (advanced standing) should obtain a direct credit transfer form from the Dean's secretary. Students will be required to provide a transcript and course outline related to the course in question.