

**WASHTENAW COMMUNITY COLLEGE  
COURSE-SYLLABUS APPROVAL FORM (CSAF)**

**RAD 135**

For help screens, select a field and press F1

**SECTION I. SUBMISSION INFORMATION**

**1. Course:** (Enter proposed discipline, number & title here.)  
**Discipline/No:** RAD 135 **Title:** Pathology for Radiographers **Start Term:** Fall Winter 2003  
 Banner allows only 29 characters and spaces, for the title. Longer titles will have to be abbreviated.

**Division Code:** HAT **Department Code:** RAD **Org #:** 15600 Don't publish:  in College Catalog  in Time Schedule  on Web Page

**2. Type of Approval:** (applies to both new courses and changes)  
 Full Approval  
 Conditional Approval  
 This proposal previously received conditional approval for the term: \_\_\_\_\_

**3. Reason for Submission:** This Course is being submitted for: (check all that apply)  
 New Course Approval (Skip 4 and go directly to 5.)  
 Five-year Syllabus Review  No changes to course (Submit complete syllabus)  
 Major Change(s) (Submit complete syllabus)  
 Minor Change(s)\* (For fully approved courses, submit revised sections only.)  
 Reactivation of Inactive Course  
 Inactivation (Submit this page only.)  
 \*If requesting a change to a course that has conditional approval, please submit a complete syllabus.

**4. Change Information:** (Check all that apply. Make proposed changes in Section III, Course Syllabus.)

<b>Minor Changes</b>	<b>Major Changes</b> (will be reviewed by Curriculum Committee.)
<input type="checkbox"/> Course Discipline/Number (was _____)	<input checked="" type="checkbox"/> Credit hours (credits were: <u>2</u> )
<input type="checkbox"/> Course Title (was _____)	<input type="checkbox"/> Change in Grading Method
<input type="checkbox"/> Course Description	<input checked="" type="checkbox"/> Total Contact Hours (total contact hours were: <u>30</u> )
<input type="checkbox"/> Class Capacity (was: _____)	<input type="checkbox"/> Approval for offering an Honors Section (Attach Approval Form.)
<input type="checkbox"/> Pre or Co-requisites	<input type="checkbox"/> Approval for offering Distance Learning Sections (Attach Distance Learning Approval Form)
<input type="checkbox"/> Course Objectives (minor changes)	<input type="checkbox"/> General Education Distribution Course: Add <input type="checkbox"/> Remove <input type="checkbox"/>
<input type="checkbox"/> Distribution of Contact Hours (contact hours were: lect: _____ lab _____ clin _____ other _____)	<input type="checkbox"/> Pre or Co-requisites (that affect other departments)
<input type="checkbox"/> Other _____	

**5. Rationale** (for new course or course change) Changes are being made in response to data from Assessment: yes  no   
 The increase in contact hours is being expanded because of the increase in course content.

**SECTION II. SIGNATURES**

**1. Department Review** (To be completed by department chair)  
 Will any new resources be required? No, none anticipated  Yes  (if yes, attach list with projected costs)  
 You must consult all departments that may be affected by this course. List departments contacted below and attach relevant documents.  
No other departments will be affected

Does the department support approval of this course?  yes  no (if no, initial and return to preparer with rationale.)

Print: Jerry Baker Faculty/Preparer Signature: [Signature] Date: 3-19-03  
 Print: Connie Foster Department Chair Signature: [Signature] Date: 3/19/03

**2. Division Review** (To be completed by division dean; if recommendation is no, initial and return to department with rationale.)  
 Is this a curricular priority for your division?  yes  no (Comment \_\_\_\_\_)  
 What is the estimated enrollment? \_\_\_\_\_  
 Recommendation  Yes  No  
 Dean's/Administrator's Signature: [Signature] Date: 3/19/03

**3. Curriculum Committee Review** (Attach additional comments if necessary and forward to Executive Vice President.)  
 Recommendation  Yes  No  
 Curriculum Committee Chair's Signature: [Signature] Date: 4/17/03

**4. Vice President for Instruction and Student Services Approval** (Attach additional comments if necessary.)  
 Approval  Yes  No  
 Vice President's Signature: [Signature] Date: 4/21/03

ACS Code \_\_\_\_\_ Entered in Banner PROCESSED 4/21 Entered in Acsis \_\_\_\_\_ Log File 4/21  
 Approved for General Education Area/Group \_\_\_\_\_ Syllabus Date \_\_\_\_\_  
 MAY 09 2003

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**SECTION III. COURSE SYLLABUS**

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**A. COURSE DETAILS (Start with #1.)**

**Discipline & No.:** RAD 135 **Title:** Pathology for Radiographers

Course and title will automatically appear above upon saving or previewing

**1. Description:** (Please be brief. Explain acronyms if used.)

This course is a survey of basic pathology and includes a study of disease processes and how various diseases alter the appearance and function of human organisms, including infectious diseases, tumors, chemical injuries, and the conditions of illness involving the systems of the body.

<b>2. Credit Hours:</b> <u>3</u> If Variable credit, Give Range: _____ to _____ credits  If repeatable for credit, how many times _____	<b>3. Contact Hours per Semester:</b> Lecture: <u>45</u> Lab: _____ Clinical: _____ Other: _____ Total Contact Hours: <u>45</u>	<b>4. Class Capacity:</b> <u>30</u> (If nonstandard, attach Class Capacity Exception form.)	<b>5. Course Options:</b> <input type="checkbox"/> Distance learning (Attach DL Form) <input type="checkbox"/> Honors (Attach Honors Addendum.) <input type="checkbox"/> P/NP Grading
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6. Prerequisite(s) and/or "C" Course	Min Grade	*Concurrent Enrollment	Test Name	Min. Score	**Level "C"		Other Prerequisites
					I	II	
<input type="checkbox"/> _____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/> _____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/> _____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/> _____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/> _____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/> _____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/> _____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/> _____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/> _____	_____	<input type="checkbox"/>	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____

\* Can take prerequisite before or concurrently with this course.  
 \*\*Level I is enforced in Banner, Level II is enforced by instructor on 1st day of class.

<b>8. Course Purpose:</b> <input checked="" type="checkbox"/> Program Requirement <input type="checkbox"/> General Education <input type="checkbox"/> Program Support <input type="checkbox"/> Basic Skills/Developmental <input type="checkbox"/> Transfer <input type="checkbox"/> Industry/Professional Dev <input type="checkbox"/> Enrichment	<b>If a program requirement, specify the program(s)</b> <u>Radiography</u>	<b>Please send syllabus for Transfer evaluation to:</b> <input type="checkbox"/> EMU <input type="checkbox"/> UM _____ _____ _____	<b>Accepted for transfer:</b> (attach documentation) <input type="checkbox"/> EMU _____ <input type="checkbox"/> UM _____ _____ _____ _____
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<b>9. Terms Course will be offered:</b>					
<b>Terms</b>	<b>Session Length</b> (e.g. 15 weeks, 1 <sup>st</sup> 7_ weeks, etc.)	<b>Day</b>	<b>Even</b>	<b>Even years only</b>	<b>Odd years only</b>
<input type="checkbox"/> Fall	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Winter	<u>15 weeks</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Spr/Summer	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**B. MAJOR INSTRUCTIONAL UNITS** A major instructional unit is a grouping of topics that naturally relate to one another. Add additional numbers as needed. (This section is unprotected so that you can cut and paste from other documents.)

1. Understand the general principles of pathology.
2. Understand the use and function of contrast media.
3. List and describe diseases of the skeletal system.
4. List the inflammatory disorders of the hepatobiliary system.
5. Recognize the diseases of the alimentary tract.
6. State the diseases of the genitourinary system.

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7. Understand the disorders of the male and female reproductive systems.
8. State the diseases that effect the respiratory system.
9. Understand the function and disorders of the circulatory and lymph systems.
10. Understand the disorders of the central nervous system.
11. Understand the basic functions of the endocrine system.

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**D. INSTRUCTIONAL METHODS, EVALUATION CRITERIA, AND ASSESSMENT**

**1. Instructional Methods:** (Check the appropriate boxes and describe as needed.)

<input checked="" type="checkbox"/> Lecture/Discussion _____	<input type="checkbox"/> Performances _____
<input type="checkbox"/> Clinical Instruction _____	<input type="checkbox"/> Group Critiques _____
<input type="checkbox"/> Laboratory Assignments _____	<input type="checkbox"/> Field Trips _____
<input type="checkbox"/> Internet Assignments _____	<input type="checkbox"/> Telecourse _____
<input type="checkbox"/> Computer Simulations _____	<input type="checkbox"/> ITV Course _____
<input type="checkbox"/> On-Site Work Experience _____	<input type="checkbox"/> Self-Paced Instruction _____
<input type="checkbox"/> Team Assignments _____	<input type="checkbox"/> Other _____
<input type="checkbox"/> Demonstrations _____	<input type="checkbox"/> Other _____

**2. Evaluation Criteria:** (Check the appropriate boxes and describe as needed.)

<input checked="" type="checkbox"/> Attendance _____	<input checked="" type="checkbox"/> Quizzes _____
<input checked="" type="checkbox"/> Class Discussion _____	<input checked="" type="checkbox"/> Tests _____
<input type="checkbox"/> Papers _____	<input type="checkbox"/> Midterm _____
<input type="checkbox"/> Portfolios _____	<input checked="" type="checkbox"/> Final Exam _____
<input type="checkbox"/> Projects _____	<input type="checkbox"/> Presentations _____
<input type="checkbox"/> Reports _____	<input type="checkbox"/> Individual Performance _____
<input type="checkbox"/> Clinical Assignments _____	<input type="checkbox"/> Group/Team Performance _____
<input type="checkbox"/> Home Work _____	<input type="checkbox"/> Other _____

**3. Assessment of Student Achievement:** (Indicate methods that will be used for NCA mandated assessment of student academic achievement at the course and (if applicable) general education levels)

<input type="checkbox"/> Departmental Exam _____	<input type="checkbox"/> Pre-test/Post-test _____
<input type="checkbox"/> Follow-on Tracking _____	<input type="checkbox"/> Simulations _____
<input checked="" type="checkbox"/> Standardized Test _____	<input type="checkbox"/> Comprehensive Project _____
<input type="checkbox"/> Portfolio Assessment _____	<input type="checkbox"/> Other _____

**F. EQUIPMENT, FACILITIES, TEXTS, MATERIALS, AND SUPPLIES**

**1. Special Equipment/Facilities :** (Check the appropriate boxes and describe as needed.)

<input type="checkbox"/> Lab equipment _____	<input type="checkbox"/> ITV Classroom _____
<input type="checkbox"/> Computer Lab _____	<input type="checkbox"/> Off-Campus Sites _____
<input type="checkbox"/> CD ROM's _____	<input type="checkbox"/> Testing Center _____
<input type="checkbox"/> Data Projector/Screen _____	<input type="checkbox"/> Other _____
<input type="checkbox"/> VCR _____	<input type="checkbox"/> Other _____
<input type="checkbox"/> TV Monitor _____	<input type="checkbox"/> Other _____

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**2. Texts:** (Please indicate if no text is required.)

Title: Radiographic Pathology (required)

Author: Watson, T.A. Copyright Yr: 1996

Publisher: Mosby Est. Cost: \$50.00

Title: Medical Dictionary (recommended)

Author: \_\_\_\_\_ Copyright Yr: \_\_\_\_\_

Publisher: \_\_\_\_\_ Est. Cost: \_\_\_\_\_

Title: \_\_\_\_\_

Author: \_\_\_\_\_ Copyright Yr: \_\_\_\_\_

Publisher: \_\_\_\_\_ Est. Cost: \_\_\_\_\_

Title: \_\_\_\_\_

Author: \_\_\_\_\_ Copyright Yr: \_\_\_\_\_

Publisher: \_\_\_\_\_ Est. Cost: \_\_\_\_\_

Additional Texts:

**3. Supplies and/or Uniforms students will have to Acquire:** (e.g. calculators, uniforms, tools, etc.)

Descriptions	Cost Estimates
_____	_____
_____	_____
_____	_____

**4. Reference Materials that will be used:** (e.g. journals, books, manuals, maps, LRC reserves, etc.)

Title/Name	Location
_____	_____
_____	_____

**C. INSTRUCTIONAL OBJECTIVES**

DIRECTIONS: Use student outcomes-based language. (Example: Upon visiting a gravel pit students will observe, analyze and describe in one page the weathering processes.) Units should match those listed in Section B.

(This section is unprotected. You may cut and paste from other documents as needed.)

**Pathology Principles**  
**Learning Outline**

- Goal: 1. To review the basic terminology related to general principles of pathology.
2. To learn the difference between structural and functional diseases.
3. To learn the causes of diseases.
4. To become familiar with the different types of injury and inflammation.
5. To recognize the different types of growth disturbances.
6. To review the types of tissue and how tissue repairs itself.
- P.O. 1-1 Define the various terms used in general pathology.
- 1-2 Define structural disease and explain its formation.
- 1-3 Define functional disease and give examples.
- 1-4 List and define the causes of disease.
- 1-5 Describe acute and chronic injury.
- 1-6 Explain the various aspects of inflammation and how inflammation heals.
- 1-7 List the different types of fundamental tissue and give examples.
- 1-8 Explain growth disturbances and give examples of benign and malignant types.

***Reference & Evaluation***

Reference: Text, Chapter One

Evaluation: Test on Chapter One

**Contrast Media**  
**Learning Outline**

- Goal: 1. To learn the three classifications of contrast media.

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2. To be able to list the characteristics of the contrast media used in radiography.
  3. To recognize the uses and contraindications of contrast media and the treatment for reactions to contract media.
- P.O. 2-1 List all contrast media with their indications, contraindications, and use in special procedures.
- 2-2 Define the classifications of contrast media and give examples of each.
  - 2-3 List the characteristics of radiopaque and radiolucent contrast media.
  - 2-4 Explain the composition of positive contrast media.
  - 2-5 Describe the difference between ionic and nonionic contrast media
  - 2-6 List the adverse reactions possible to contrast media and what treatment should be given.
  - 2-7 Explain how contrast media are chosen for a procedure.

**Reference & Evaluation**

Reference: Text, Chapter Two

Evaluation: Test on Chapter Two

**Skeletal System  
Learning Outline**

- Goal: 1. To review the anatomy and physiology of the skeletal (osseous) system.
2. To learn theories to perform special radiologic procedures on the skeletal system of the body.
  3. To learn the basic pathologic conditions of the skeletal system.
- P.O. 3-1 Define the classifications of the skeleton.
- 3-2 List and give examples of the five types of bones in the body.
  - 3-3 List, define, and give examples of the three types of joints in the body.
  - 3-4 Describe the structure of bones.
  - 3-5 Describe the physiology and function of bones.
  - 3-6 List and describe five different special radiologic procedures for the skeletal system.

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- 3-7 Describe arthrography.
- 3-8 List the causes and describe the different types of congenital anomalies discussed.
- 3-9 Describe nonneoplastic bone changes as well as neoplastic bone changes and give examples of each.
- 3-10 Describe and define the different types of fractures discussed.
- 3-11 Describe the six types of arthritis listed.
- 3-12 List other joint diseases.

**Reference & Evaluation**

Reference: Text, Chapter Three

Evaluation: Test on Chapter Three

**Hepatobiliary System  
Learning Outline**

- Goal:
- 1. To review the anatomy and physiology of the liver, gallbladder, bile ducts, and pancreas.
  - 2. To learn the special modalities and procedures that are used to image the liver, gallbladder, bile ducts, and pancreas.
  - 3. To become acquainted with the pathophysiology and radiographic manifestations of all common disorders of the biliary system.
- P.O.
- 4-1 Identify the anatomy of the liver, gallbladder, bile ducts, and pancreas.
  - 4-2 Explain the physiology and function of the liver, gallbladder, and pancreas....
  - 4-3 Explain the impact that the function of each organ has on the other organs.
  - 4-4 Describe the impact that the physiology and function of each organ has on pathologies.
  - 4-5 List the various special-imaging procedures for the liver, gallbladder, bile ducts, and pancreas.
  - 4-6 List and describe the various forms of hepatitis.



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- 4-7 Define the four forms of jaundice.
- 4-8 Explain acute and chronic cholecystitis.
- 4-9 Describe the difference between the different types of cholelithiasis.
- 4-10 List and describe the three pathologies of the pancreas discussed.

~~Reference & Evaluation~~

Unit 5

Reference: Text, Chapter 4                      Evaluation: Test on Chapter 4

- Goal:
- 1. To review the basic anatomy of the esophagus, stomach, small bowel, and large bowel.
  - 2. To review the physiology and function of the esophagus, stomach, small bowel, and large bowel.
  - 3. To learn the special imaging modalities and procedures that are performed on the esophagus, stomach, small bowel, and large bowel.
  - 4. To understand the pathophysiology and radiographic manifestations of all of the common pathologic conditions of the gastrointestinal system.

- P.O.
- 5-1 Identify all anatomic components of the esophagus, stomach, small bowel, and large bowel and explain their relationship to each other as well as to other organs.
  - 5-2 Explain the physiology and function of these four areas of the digestive tract.
  - 5-3 Describe how each organ functionally affects the others.
  - 5-4 List and describe the various special imaging procedures performed for each area.
  - 5-5 Identify the radiographic manifestations of the listed pathologies of the gastrointestinal tract.
  - 5-6 Describe the various pathologic conditions affecting the gastrointestinal system.

Reference & Evaluation

Reference: Text, Chapter Five                      Evaluation: Test on Chapter Five

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**Gastrointestinal System**  
**Learning Outline**

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- Goal: 1. To review the anatomy and basic physiology of the urinary system.
2. To learn theories that will enhance understanding of the special procedures used to demonstrate the urinary system.
3. To learn pathologic conditions related to the urinary system.
- P.O. 6-1 Draw the structure of the kidney.
- 6-2 Draw the internal architecture of the kidney.
- 6-3 Describe the process of urine production and passage.
- 6-4 Describe cystography.
- 6-5 List and define the two types of intravenous pyelograms.
- 6-6 Define the difference between retrograde pyelography and retrograde urethrography.
- 6-7 Explain the use and advantage of ultrasonography in renal imaging.
- 6-8 List two types of nuclear medicine studies of the urinary system.
- 6-9 Describe extracorporeal shock wave lithotripsy.
- 6-10 Define the basic urinary pathology terminology.
- 6-11 Describe the different types of congenital anomalies found in the urinary system.
- 6-12 Recognize the various types of benign conditions on a radiograph and explain each condition.
- 6-13 Define the various types of malignant conditions.

**Reference & Evaluation**

Reference: Text, Chapter Six

Evaluation: Test on Chapter Six

**Reproductive System**  
**Learning Outline**

- Goal: 1. To review the basic anatomy and physiology of both the male and the female systems.
2. To become acquainted with the pathophysiology of the reproductive system.

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3. To become familiar with the radiographic manifestations of all the common congenital and acquired disorders of both the male and the female reproductive systems.
- P.O. 7-1 Describe the physiology of the male and the female reproductive systems.
- 7-2 Identify anatomic structures on diagrams and radiographs of the reproductive system.
- 7-3 To become familiar with the radiographic manifestations of all the common congenital and acquired disorders of both the male and the female reproductive systems.
- 7-4 Describe the various pathologic conditions affecting the female reproductive system and their radiographic manifestations.
- 7-5 Describe the various pathologic conditions affecting the male reproductive system. and their radiographic manifestations.
- 7-6 Describe the special radiographic examinations of the female reproductive system.
- 7-7 Explain mammography and its importance in women's health.

**Reference & Evaluation**

Reference: Text, Chapter Seven                      Evaluation: Test on Chapter Seven

**Respiratory System  
Learning Outline**

- Goal: 1. To review the basic anatomy and physiology of the respiratory system.
2. To become acquainted with the pathophysiology of the respiratory system.
3. To become familiar with the radiographic manifestations of all the common congenital and acquired disorders of the respiratory system.
- P.O. 8-1 Identify anatomic structures on both diagrams and radiographs of the respiratory system.
- 8-2 Describe the physiology of the respiratory system
- 8-3 Describe the various pathologic conditions affecting the respiratory system and their radiographic manifestations.
- 8-4 Describe the special radiographic examinations of the respiratory system.

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8-5 Define terminology relating to the respiratory system.

Reference & Evaluation

Reference: Text, Chapter Eight

Evaluation: Test on Chapter Eight

Circulatory and Lymph Systems  
Learning Outline

- Goal: 1. To review the basic anatomy and physiology of the circulatory system and the lymph system.
2. To become acquainted with the pathophysiology of the circulatory system and the lymph system.
3. To become familiar with the radiographic manifestations of all the common congenital and acquired disorders of the circulatory system.
4. To learn the congenital and acquired disorders of the lymph system.

- P.O. 9-1 Describe the internal anatomy of the heart.
- 9-2 List the components of the lymph system.
- 9-3 Describe the physiology of the circulatory system.
- 9-4 Describe the physiology of the lymph system.
- 9-5 Describe the various pathologic conditions affecting the circulatory system and their radiographic manifestations.
- 9-6 List and define the important pathology of the lymph system.
- 9-7 Describe the special radiographic examinations of the circulatory system.
- 9-8 Describe the special radiographic examinations of the lymph system.
- 9-9 Define terminology relating to the circulatory system.
- 9-10 Define terminology relating to the lymph system.

Reference & Evaluation:

Reference: Text, Chapter Nine

Evaluation: Test on Chapter Nine

Nervous System

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- Goal: 1. To review the basic anatomy and physiology of the central nervous system and the
2. Describe the anatomic components of the central nervous system.
3. To review the imaging modalities for the nervous system.
4. To become familiar with the radiographic manifestations of all the common congenital and acquired disorders of the nervous system.

- P.O. 10-1 Describe the physiology of the nervous system.
- 10-2 Describe the anatomic components of the central nervous system.
- 10-3 Name and describe the imaging modalities for the brain and the spinal canal.
- 10-4 Define terminology relating to the skull, brain, and spinal cord.
- 10-5 Describe the various pathologic conditions affecting the skull and nervous system and their radiographic manifestations.

**Reference & Evaluation**

Reference: Text, Chapter Ten

Evaluation: Test on Chapter Ten