October 30, 2006

Tim Foster, J.D.
President
Mesa State College
1100 North Avenue
Grand Junction, CO 81501

RE: Program #01810000
Previous Accreditation Status: 8 Years
Most Recent Site Visit: 04/06
Agenda: R-D

Dear Dr. Foster:

The Joint Review Committee on Education in Radiologic Technology (JRCERT) appreciated the opportunity to evaluate the associate degree radiography program sponsored by Mesa State College. The JRCERT is the only agency recognized by the U.S. Department of Education for the accreditation of educational programs in radiography, radiation therapy, magnetic resonance, and medical dosimetry. Specialized accreditation awarded by the JRCERT offers institutions significant value by providing peer evaluation and by assuring the public of quality professional education in the radiologic sciences.

The continuing accreditation status of the program was considered at the October 20, 2006 meeting of the Joint Review Committee on Education in Radiologic Technology. The program, including the previously reported substantive change, i.e., change in program length from 27 to 22 months, was evaluated according to the Standards for an Accredited Educational Program in Radiologic Sciences (2002). The JRCERT awards:

ACCREDITATION FOR A PERIOD OF EIGHT YEARS.

The maximum duration that may be awarded by the Joint Review Committee on Education in Radiologic Technology in this category is eight years.

An interim report will be required. The projected date for submission of the interim report is the Second Quarter of 2010. The JRCERT will provide program officials adequate notice of the due date for submission of the interim report. Based on the interim report, the JRCERT will determine if the accreditation award of 8 years will be maintained or reduced and the continuing accreditation process expedited.

If the accreditation award is maintained, the next site visit is tentatively scheduled for the Second Quarter of 2014.

[The JRCERT promotes excellence in education and enhances quality and safety of patient care through the accreditation of educational programs.]
The program is advised that consistent with JRCERT Policy 11.600, the JRCERT reserves the right to conduct unannounced site visits of accredited programs. The sponsoring institution would be responsible for the expenses of any on-site evaluation.

The attachment to the program director's copy of this letter identifies the clinical total capacity, as provided by the program, for the institutions recognized as clinical education settings. It is the responsibility of the program to provide a copy of this letter to appropriate personnel at the clinical education settings.

The Joint Review Committee on Education in Radiologic Technology Directors and staff congratulate you and the program faculty for achieving the maximum award of accreditation from the JRCERT and wish you continuing success in your efforts to provide a quality educational program. If we can be of further assistance, do not hesitate to contact us.

Sincerely,

H. Martin Northup, M.D., F.A.C.R.
Chair

HMN/LFW/jm

copy: Program Director: Bette A. Schans, Ph.D., R.T.(R)
Chair: Kristy Reuss, Ph.D., R.N.
Site Visitors: Michael A. Mixdorf, M.Ed., R.T.(R)(CT)
             Rose M. Aehle, M.S., R.T.(R)(M)

Accreditation Services Coordinator
Clinical Education Settings

1. 0181 - Mesa State College
   Program Total Capacity: 36 students
   Sponsor Correspondence Address:
   1100 North Avenue
   Grand Junction, CO 81501
   Program CEs:
   C1. 2209-St. Mary's Hospital & Medical Center
       Recognition Status: Recognized
       Clinical Total Capacity: 19
   C2. 3598-Montrose Memorial Hospital
       Recognition Status: Recognized
       Clinical Total Capacity: 2
   C3. 3659-Valley View Hospital
       Recognition Status: Recognized
       Clinical Total Capacity: 2
   C4. 4204-Community Hospital
       Recognition Status: Recognized
       Clinical Total Capacity: 3
   C5. 4205-V.A. Medical Center
       Recognition Status: Recognized
       Clinical Total Capacity: 3
   C6. 5716-Delta County Memorial Hospital
       Recognition Status: Recognized
       Clinical Total Capacity: 2
   C7. 6663-Glenwood Medical Associates
       Recognition Status: Recognized
       Clinical Total Capacity: 1
   C8. 6892-Grand River Medical Center
       Recognition Status: Recognized
       Clinical Total Capacity: 2
   C9. 7269-Rocky Mountain Orthopaedic Associates
       Recognition Status: Recognized
       Clinical Total Capacity: 2
   C10. 8534-Western Orthopedics
        Recognition Status: Recognized
        Clinical Total Capacity: 1
August 28, 2006

Leslie Winter, MS, RTR
Associate Executive Director, JRCERT
20 N. Wacker Dr. Suite 2850
Chicago, IL 60606

Dear Leslie,

As per our discussion of the report of findings and my subsequent response, I am enclosing two new policies which will address the non compliance of Objective 2.4 and Objective 3.5. I have had the entire 2nd year class sign that they have read the new due process policy. The due process policy was placed in the student handbook and all new first-year students have a copy of it.

There is a representation of clinical instructors that have signed the privacy of student records at the clinical site policy.

We are working on changing the credit hours of RTEC 214 to be more in line with the other clinical courses second year. As soon as I receive notification from the curriculum committee in September I will fax that information to you.

Please let me know if there is anything else I need to do with regard to the report of findings. Thank you for your attention to this matter.

Sincerely,

Dr. Bette Schans, RTR
Program Director, Radiologic Technology.
MESA STATE COLLEGE
Nursing and Radiologic Sciences
Radiologic Technology Program

POLICY

Privacy of student records at the clinical sites

1. PURPOSE: To protect the privacy of student information at the clinical site.

2. POLICY:
   A. At all times the student has the right to non-disclosure of grades in either the classroom or at the clinical site. This policy is in compliance with the FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA).
   B. All graded evaluations must be kept in a secure area until returned to the student by the evaluator or clinical instructor.
   C. Graded evaluations will be returned to the student at the end of the shift or after a campus class. Students are encouraged to take all graded materials home from the clinical site as soon as possible. The student should not keep graded evaluations in a public area where there is open access to notebooks or backpacks.
I have read the policy regarding Privacy of student records at the clinical sites and understand the policy.

<table>
<thead>
<tr>
<th>Name</th>
<th>Clinical Site</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>MadeAnn T Huel</td>
<td>Philadelphia</td>
<td>8/14/06</td>
</tr>
<tr>
<td>Ginny Schneider</td>
<td>RM0</td>
<td>8/15/06</td>
</tr>
<tr>
<td>Cheryl A. Narschel</td>
<td>RM0</td>
<td>8/15/06</td>
</tr>
<tr>
<td>Linda Richmond</td>
<td>CHJ</td>
<td>8/15/06</td>
</tr>
<tr>
<td>Karen M. Moore</td>
<td>WO</td>
<td>8/15/06</td>
</tr>
<tr>
<td>S. B. R.</td>
<td>VA</td>
<td>8/15/06</td>
</tr>
<tr>
<td>Maria B. Moore</td>
<td>VA</td>
<td>8/21/06</td>
</tr>
</tbody>
</table>
1. For all grievances, please consult the Mesa State College Student Handbook for the policy regarding Student Academic Grievance and Appeal Process.

2. The timeline established by the Department for grievances is:

   a. The student having a specific conflict should first discuss the matter with the faculty member involved. After presenting the problem, the faculty member should respond within 5 days with explanation of the decision.

   b. If the student does not believe the conflict has been resolved, an appointment should be made within 5 days with the program chair. Within 10 days a response by the program chair should be made with explanation of the decision.

   c. If the student does not believe the conflict has been resolved on that level, an appointment should be made within 5 days with the department head. Within 10 days of that conference, a response by the department head should be made with an explanation of the decision.

   d. If the student still does not believe that the conflict has been resolved, the student should be referred to the college Student Handbook for further steps to be taken.
I have read the policy regarding Departmental Due Process Timeline and understand the policy.

<table>
<thead>
<tr>
<th>Name</th>
<th>Date</th>
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<tbody>
<tr>
<td>Eric P. Almquist</td>
<td>07/25/06</td>
</tr>
<tr>
<td>Amy Woodley</td>
<td>7/25/06</td>
</tr>
<tr>
<td>John Padgett</td>
<td>7-25-06</td>
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<tr>
<td>Laura D. Ford</td>
<td>7-25-06</td>
</tr>
<tr>
<td>Rich Manto</td>
<td>7-26-06</td>
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<tr>
<td>Maggie Dedelma</td>
<td>8-25-06</td>
</tr>
<tr>
<td>Deb Davis</td>
<td>8-25-06</td>
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<tr>
<td>Katherine Uyeda</td>
<td>8/25/06</td>
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<tr>
<td>Lisa Cantiner</td>
<td>8/25/06</td>
</tr>
<tr>
<td>Danielle Roggains</td>
<td>8-25-06</td>
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<tr>
<td>Jamie Carrell</td>
<td>8-25-06</td>
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<tr>
<td>April Supplewine</td>
<td>8-25-06</td>
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<tr>
<td>Lisaiben Shiel</td>
<td>8-25-06</td>
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<tr>
<td>Leopold Schrader</td>
<td>8 - 25-06</td>
</tr>
<tr>
<td>Viola Santillo</td>
<td>8/25/06</td>
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<tr>
<td>Nicole N. Feise</td>
<td>8/25/06</td>
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<tr>
<td>Karen F.</td>
<td>8-25-06</td>
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May 11, 2006

Tim Foster, J.D.
President
Mesa State College
1100 North Avenue
Grand Junction, CO 81501

RE: Program #01810000

Dear Dr. Foster:

The report of the site visitors who evaluated the radiography program sponsored by Mesa State College on April 6-7, 2006 has been reviewed. The program, including the previously noted substantive change, is scheduled for consideration by the Joint Review Committee on Education in Radiologic Technology (JRCERT) at the Fall 2006 meeting.

The program was evaluated using the Standards for an Accredited Educational Program in Radiologic Sciences (2002). The following is a composite report developed from documentation submitted by the program, the report of site visit team findings submitted by the site visit team, and staff review of relevant materials. The sponsor must respond to this report of findings prior to JRCERT consideration.

The following clinical education settings were visited:

Community Hospital - Grand Junction, CO
St. Mary’s Hospital & Medical Center - Grand Junction, CO

Standard One - Mission/Goals, Outcomes, and Effectiveness

The program, in support of its mission and goals, develops and implements a system of planning and evaluation to determine its effectiveness and uses the results for program improvement.

The site visit team reported the following findings:

The program has a mission statement that adequately defines the purpose and scope of the program. Program goals are measurable. The mission statement and goals are readily available to students, faculty, administrators, and the general public.
Standard One - Mission/Goals, Outcomes, and Effectiveness (cont’d)

The program has developed and implemented a comprehensive assessment plan. Outcomes are consistent with the program’s goals. The program readily solicits feedback from communities of interest and uses that feedback to identify priorities for improvement. The program periodically evaluates its mission statement, goals, and assessment plan and makes revisions as necessary.

Summary for Standard One:

Based on the documentation submitted by the program and the findings of the site visit team, the program appears to be in substantial compliance, at the time of the site visit, with Standard One.

Standard Two - Program Integrity

The program demonstrates integrity in representations to communities of interest and the public, in pursuit of educational excellence, and in treatment of and respect for students, faculty, and staff.

The site visit team reported the following findings:

The program adheres to high ethical standards in relation to students, faculty, administrators, and staff. Faculty recruitment and employment practices are non-discriminatory. Publications accurately reflect the program’s offerings. A due process procedure is published and identifies timeframes that program and institutional officials must adhere to. However, the policy does not identify timeframes for students to initiate or proceed to the next level of the grievance. The program regularly evaluates all procedures and publications to assure up-to-date and accurate information. Documentation regarding the continuing accreditation of the sponsoring institution is available.

Summary for Standard Two:

Based on the documentation submitted by the program and the findings of the site visit team, the program appears to be in substantial compliance, at the time of the site visit, with Objectives 2.1, 2.2, 2.3, 2.5, 2.6, 2.7, 2.8, 2.9, 2.10, and 2.11. The program is not in compliance with Objective 2.4.

A recommendation is provided for Standard Two:

Objective 2.4 - Assure that the program has due process procedures that are readily accessible, fair, and equitably applied.

Standard Three - Organization and Administration

Organizational and administrative structures support quality and effectiveness of the educational process.

The site visit team reported the following findings:

The program benefits from an extremely supportive institutional administration that meets the needs of the program and the students. There is an appropriate relationship between program length and the subject matter taught. Student competencies are not maintained in a secure and confidential manner. There is a discrepancy between credit and clock hours for the following clinical courses: RTEC 214, RTEC 224, and RTEC 234.
Standard Three - Organization and Administration (cont’d)

Summary for Standard Three:

Based on the documentation submitted by the program and the findings of the site visit team, the program appears to be in substantial compliance, at the time of the site visit, with Objectives 3.1, 3.2, and 3.4. The program is not in compliance with Objectives 3.3 and 3.5.

Recommendations are provided for Standard Three:

**Objective 3.3** - Assure the security and confidentiality of student records, instructional materials, and other appropriate program materials.

**Objective 3.5** - Assure that the program measures the length of all didactic and clinical courses in clock hours or credit hours.

Standard Four - Curriculum and Academic Practices

The program’s curriculum and academic practices promote the synthesis of theory, use of current technology, competent clinical practice, and professional values.

The site visit team reported the following findings:

A master plan of education is in place. The curriculum prepares students to practice in the professional discipline. Professional values, life-long learning, and competency in critical thinking and problem solving skills are promoted throughout the curriculum. The curriculum reflects the evaluation of all learning domains. Learning opportunities in current and developing imaging technologies are provided to all students.

Summary for Standard Four:

Based on the documentation submitted by the program and the findings of the site visit team, the program appears to be in substantial compliance, at the time of the site visit, with Standard Four.

Standard Five - Resources and Student Services

The program’s learning resources, learning environments, and student services are sufficient to support its mission and goals.

The site visit team reported the following findings:

Learning resources provided by the sponsoring institution support the program goals. The clinical education settings provide students with a wide variety and volume of procedures for competency achievement. Student services are readily available and accessible to all students.

Summary for Standard Five:

Based on the documentation submitted by the program and the findings of the site visit team, the program appears to be in substantial compliance, at the time of the site visit, with Standard Five. (Objective 5.2 does not apply to this program.)
Standard Six - Human Resources

The program has sufficient qualified faculty and staff with delineated responsibilities to support program mission and goals.

The site visit team reported the following findings:

Faculty and staff are appropriately qualified for their assignments. Program faculty are enthusiastic and committed to the students, the program, and the profession. Program faculty are excellent role models for the students. Students consider faculty a major strength of the program. There is an adequate number of faculty to meet the educational, administrative, and accreditation requirements. Faculty are provided with opportunities for continued professional development.

Summary for Standard Six:

Based on the documentation submitted by the program and the findings of the site visit team, the program appears to be in substantial compliance, at the time of the site visit, with Standard Six.

Standard Seven - Students

The program’s and sponsoring institution’s policies and procedures serve and protect the rights, health, and educational opportunities of all students.

The site visit team reported the following findings:

The program’s admission policies are clearly defined and published. Student recruitment and admission practices are non-discriminatory. Students are provided current and accurate information regarding program structure and content. Enrolled students are provided timely and supportive academic, behavioral, and clinical advisement throughout the program. Student activities are supervised by program faculty to assure educational validity.

Summary for Standard Seven:

Based on the documentation submitted by the program and the findings of the site visit team, the program appears to be in substantial compliance, at the time of the site visit, with Standard Seven.

Standard Eight - Radiation Safety

Program policies and procedures are in compliance with federal and state radiation protection laws.

The site visit team reported the following findings:

Program policies and procedures are in compliance with federal and state radiation protection laws. A pregnancy policy is published and made known to enrolled and accepted female students. Students are appropriately instructed in the utilization of imaging equipment and accessories in the employment of techniques and procedures to minimize radiation exposure to patients, selves, and others. Students are appropriately supervised prior to and after achieving competency. All unsatisfactory radiographs repeated by students are performed under the direct supervision of a qualified practitioner.
Standard Eight - Radiation Safety (cont'd)

Summary for Standard Eight:

Based on the documentation submitted by the program and the findings of the site visit team, the program appears to be in substantial compliance, at the time of the site visit, with Standard Eight. (Objective 8.4 does not apply to this program.)

Standard Nine - Fiscal Responsibility

The program and the sponsoring institution have adequate financial resources, demonstrate financial stability, and comply with obligations for Title IV federal funding, if applicable.

The site visit team reported the following findings:

Sound financial commitment to enrolled students is exhibited through adequate funding of human and physical resources. The program director participates in the budget planning process.

Summary for Standard Nine:

Based on the documentation submitted by the program and the findings of the site visit team, the program appears to be in substantial compliance, at the time of the site visit, with Standard Nine. (Objective 9.3 does not apply to this program.)

Responding to the Report of Findings

A copy of this report of findings is supplied to each member of the site visit team. Team members are requested to review this report and communicate any inaccuracies or inconsistencies with these findings to the JRCERT office prior to the deadline for program response.

A response to this report of findings, including the signature of the Chief Executive Officer of the sponsoring institution, is required prior to Committee consideration. The response must be received by June 22, 2006.

The institution and program are encouraged to share this report of findings and its response with program faculty and institutional and departmental officials of its clinical education settings.

The response must include a concise rationale and documentation to support program compliance with each recommendation. The program must assure that it has developed and implemented appropriate practices that will demonstrate STANDARD-RS compliance. Assurance of development can be demonstrated by providing to the JRCERT necessary documents that support the program’s compliance with the recommendations. When forms are provided as evidence, a representative sampling of completed forms must be submitted to assure that the practice or procedure is implemented. The response may also include comments on the site visit, site visitors or the accreditation process.

The program is advised that based on a review of information submitted in support of the program’s response to the report of findings, the Committee has the right to add citations not included in the original report of findings.
Thank you for recognizing the value of specialized accreditation and for permitting the JRCERT to evaluate the radiography program. If I can provide additional information or clarification regarding this report, do not hesitate to contact me.

Sincerely,

Ms. Leslie F. Winter, M.S., R.T.(R)
Executive Associate Director

LFW/cj

copy: Bette A. Schans, Ph.D., R.T.(R)
Kristy Reuss, Ph.D., R.N.
Michael A. Mixdorf, M.Ed., R.T.(R)(CT)
Rose M. Aehle, B.S., R.T.(R)(M)
APPLICATION FOR ACCREDITATION OF AN EDUCATIONAL PROGRAM IN RADIOLOGIC SCIENCES
FORM 100

(Check one) (Check one)
☐ Radiography ☑ Continuing Accreditation
☐ Radiation Therapy ☐ Initial Application

Name of Program: MESA STATE COLLEGE RADIOLOGIC TECHNOLOGY

This Application must be completed by all programs applying for accreditation and must be submitted with the Self-Study Report.

The signatures of sponsoring institution/program officials constitute a request for initiation of the appropriate process for initial or continuing accreditation of a program.

Complete Form 102 (attached) as appropriate for program director, clinical coordinator (if applicable), and clinical instructor(s)/clinical supervisor(s). (Copy form as needed.)

Programs completing an initial application must complete Form 104 (Application for Recognition of a Clinical Education Setting in Radiologic Sciences).

Programs completing an initial application are advised that initial accreditation of a program takes approximately 18-24 months. The JRCERT initiates the process upon receipt of the Application/Self-Study Report.

Mail original Application and Self-Study Report to:

JRCERT
20 N. Wacker Drive
Suite 900
Chicago, IL 60606-2901

Programs are responsible for providing a hard copy of the Application and Self-Study Report to each member of the site visit team upon receipt of the team assignment letter.

APPLICATION FEES

For Initial Applications: The appropriate fee must be submitted with the Application/Self-Study Report - refer to JRCERT Fee Schedule.

For Continuing Accreditation: An invoice for the application fee will be provided by the JRCERT upon receipt and review of the Application/Self-Study Report.
I. SPONSORING INSTITUTION:

MESA STATE COLLEGE

Name

The sponsoring institution of the applicant program is accredited or otherwise recognized by the following national or regional agency (Provide documentation):

NORTH CENTRAL ASSOCIATION OF COLLEGES AND SCHOOLS

Term of accreditation:

INSTITUTION TYPE: (Check one)

☐ 4-year College or University
☐ Community College
☐ Technical College or Institute
☐ Hospital
☐ Military/Government
☐ Proprietary
☐ Consortium

II. SPONSORING INSTITUTION:

Chief Executive Officer of Sponsoring Institution:

Timothy Foster, J.D. President

Name (Print) Degree/Credentials Title

Mesa State College 1100 North Avenue

Mailing Address

Grand Junction Colorado 81501

City State Zip Code

(970) 248-1498

Area Code and Business Phone Number

Dean or Comparable Administrator:

Kristy Reuss, PhD, RN Department Head

Name (Print) Degree/Credentials Title

Mesa State College 1100 North Avenue

Mailing Address

Grand Junction Colorado 81501

City State Zip Code

(970) 248-129

Area Code and Business Phone Number
III. PROGRAM INFORMATION:

Name of Program: Mesa State College Radiologic Technology

Mailing Address: Dept. of Nursing and Radiologic Sciences 1100 North Ave.

Grand Junction CO 81501
City State Zip Code

Does the program have a Web page? □ No ☑ Yes Web address: www.mesastate.edu

Length of Program (months): 22 Tuition per academic year: Resident $2600 Non-Resident $9000

Number of students enrolled/class: 18 Number of classes enrolled/year: 1

Award(s) Granted: ☑ Degree(s) ☐ Certificate

Specify type(s) of degree: Associate of Applied Science

Does the program articulate with a postsecondary institution? □ Yes ☑ No

If yes, name institution(s):

Credit received may be applied to: ☐ Associate degree ☐ Baccalaureate degree

New Programs Only: Month and year program intends to accept first class: 

Anticipated date of graduation for first class: 

Hospital Programs Only:

1. Are students of the program eligible for Title IV student financial aid such as Pell Grants, Work Study, Perkins Loans, Stafford Loans, Direct Loans, Plus Loans and SEOG?

☐ Yes ☑ No

2. Number of students participating in Title IV student financial aid as of the date of this application:

IV. PROGRAM OFFICIALS:

Current curricula vitae and evidence of current ARRT registration or unrestricted state license, documenting compliance with Standard Six - Objective 6.1, must be provided for each program official listed below. Attach Form 102 to curriculum vitae.

Program Director:

Bette A. Schans PhD, RT(R)

Name (Print) Degree/Credentials

1100 North Avenue

Mailing Address

Grand Junction CO 81501
City State Zip Code

(970) 248-1651 (970) 248-1133 bschans@mesastate.edu

Area Code and Business Phone Number Fax Number E-mail Address
Clinical Coordinator(s) (if applicable): (Add additional page if necessary.)

L. Patrice Ward  MEd. RT(R)
Name (Print) Degree/Credentials

Name (Print) Degree/Credentials

Medical Advisor(s) (if applicable): (Add additional page if necessary.)

Name (Print) Degree/Credentials

V. CLINICAL EDUCATION SETTINGS - JRCERT RECOGNIZED:

1. Provide documentation of current Joint Commission on Accreditation of Healthcare Organizations (JCAHO) accreditation or equivalent for each recognized clinical education setting. For clinical education settings that are not accredited by JCAHO, documentation of compliance with state or federal radiation safety regulations may be used as equivalent.

2. Attach executed affiliation agreements for each recognized clinical education setting. If uniform agreements are used, submit one complete agreement and the signature pages from the remaining affiliation agreements. These signature pages must include identification of the clinical education setting.

3. A program's total capacity refers to the maximum number of students a program may have enrolled.

4. The clinical total capacity for a clinical site is the maximum number of students the program may assign to this facility at any one time.

5. All Clinical Instructor(s)/Clinical Supervisor(s) changes must be approved. Complete Form(s) 102 as necessary.

St. Mary's Hospital and Medical Center
Name of Clinical Education Setting
2635 North 7th Street  Grand Junction, CO 81501
Address
Kristina Pike (Bechtel), Mariann Howell
Name of Clinical Instructor(s) for radiography/Clinical Supervisor(s) for radiation therapy

Maximum number of students program may assign to this site at any one time: 19

Community Hospital
Name of Clinical Education Setting
2021 North 12th St.  Grand Junction, CO 81501
Address
Linda Richmond
Name of Clinical Instructor(s) for radiography/Clinical Supervisor(s) for radiation therapy

Maximum number of students program may assign to this site at any one time: 3
VA Medical Center
Name of Clinical Education Setting
2121 North Avenue       Grand Junction CO 81501
Address
Susan Hudson          Mavis Bounds
Name of Clinical Instructor(s) for radiography/Clinical Supervisor(s) for radiation therapy

Maximum number of students program may assign to this site at any one time: 3

Rocky Mountain Orthopaedic Associates
Name of Clinical Education Setting
627 25 5 Road       Grand Junction CO 81505
Address
Cheryl Heuschkel      Jody Shultz
Name of Clinical Instructor(s) for radiography/Clinical Supervisor(s) for radiation therapy

Maximum number of students program may assign to this site at any one time: 2

Delta County Memorial Hospital
Name of Clinical Education Setting
1503 E. 3rd St       Delta CO 81416
Address
Name of Clinical Instructor(s) for radiography/Clinical Supervisor(s) for radiation therapy

Maximum number of students program may assign to this site at any one time: 2

Montrose Memorial Hospital
Name of Clinical Education Setting
800 South 3rd St         Montrose CO 81401
Address
Marsha Ross      Dawn Eichert
Name of Clinical Instructor(s) for radiography/Clinical Supervisor(s) for radiation therapy

Maximum number of students program may assign to this site at any one time: 2

Program total capacity:
(The maximum number of students the program may have enrolled at any one time.)
Valley View Hospital
Name of Clinical Education Setting
PO Box 1970 Glenwood Springs, CO 81620
Address
Pat Gimbel Susan Mallory
Name of Clinical Instructor(s) for radiography/Clinical Supervisor(s) for radiation therapy

Maximum number of students program may assign to this site at any one time: 2

Glenwood Medical Associates
Name of Clinical Education Setting
1830 Blake Street Glenwood Springs CO 81601
Address
Mari Brennan-Combs Paul Esbeck
Name of Clinical Instructor(s) for radiography/Clinical Supervisor(s) for radiation therapy

Maximum number of students program may assign to this site at any one time: 1

Grand River Medical Center
Name of Clinical Education Setting
501 Airport Rd. PO Box 912 Rifle, CO 81650
Address
Maggie Berg Tonia Dalley
Name of Clinical Instructor(s) for radiography/Clinical Supervisor(s) for radiation therapy

Maximum number of students program may assign to this site at any one time: 2

Program total capacity: 36
(The maximum number of students the program may have enrolled at any one time.)
SIGNATURE SHEET

The signatures of sponsoring institution/program officials constitute a request for initiation of the appropriate process for initial or continuing accreditation of a program.

Program Director:

Signature  Date

Bette A. Schans
Printed Name

Chief Executive Officer of Sponsoring Institution:

Signature  Date

Timothy Foster  President
Printed Name  Title

Dean or Comparable Administrator:

Signature  Date

Kristine Reuss  Department Head
Printed Name  Title
AFFILIATION AGREEMENT

Mesa State College  
1100 North Avenue  
Grand Junction, CO 81501

St. Mary’s Hospital & Medical Center  
2635 N. 7th Street  
Grand Junction, CO 81501

"(College")  
"(Hospital")

It is agreed by the aforesaid parties to be of mutual interest and advantage for selected students of the COLLEGE to be provided quality clinical education experiences through the HOSPITAL, and of mutual interest to the HOSPITAL to participate in the provision of such quality education. The COLLEGE has established the following clinical training programs which require the educational facilities of the HOSPITAL for clinical experiences:

Nursing  
Radiologic Technology  
Counseling Psychology Practicum  
Mass Communications  

Human Performance & Wellness  
a. Exercise Science  
b. Cooperate Fitness  
c. Athletic Trainers  
d. Adapted Physical Education

The terms in this Affiliation Agreement apply to all clinical training programs selected above. Additional terms that are specific to any of the clinical training programs shall be contained on an attached Schedule. Collectively, the terms of this Affiliation Agreement and the attached Schedules are referred to as the "Agreement".

The parties acknowledge that they have read this Agreement, understand it, and agree to be bound by all of its provisions. This Agreement constitutes the complete and exclusive statement of the agreement between the parties, and supersedes all prior oral and written communications concerning the subject matter of this Agreement.

IN WITNESS WHEREOF, the parties have executed this Agreement on the date shown below.

COLLEGE  
By  
Date 3/1/01  
STATE CONTROLLER (for designee)  
By  

HOSPITAL  
By  
Date 9/2/01
I. GENERAL AGREEMENT

A. The term of this Agreement shall be for one year and shall be automatically renewed for successive terms of one (1) year unless otherwise terminated. This Agreement may be terminated by either party upon sixty (60) days prior written notice accomplished either by personal service or by certified or registered mail upon the COLLEGE Dean of Instruction and the HOSPITAL President. Any students enrolled in the ongoing programs at the time of such termination notice shall be given the opportunity by the HOSPITAL and the COLLEGE to complete the requirements of the program as offered at the time of their entry and in compliance with the conditions contained in this Agreement.

B. This Agreement shall be subject to annual review or review from time-to-time as the need may arise, in order to consider any amendment, alteration or change as may be mutually agreed upon in writing by the parties.

C. This Agreement shall be interpreted in accordance with and pursuant to the law of the State of Colorado.

D. Nothing in the Agreement is intended to be contrary to State or Federal laws. In the event of a conflict between terms and conditions of this Agreement and any applicable State or Federal laws, the State or Federal law will supersede the terms of this Agreement.

II. MUTUAL RESPONSIBILITIES

A. COLLEGE personnel, faculty and students shall not be deemed to be employees or agents of the HOSPITAL, and nothing herein contained shall be construed as creating a relationship other than that of an independent contractor between the HOSPITAL and the COLLEGE, its employees, faculty and students. COLLEGE personnel, faculty and students shall not be entitled to compensation from the HOSPITAL in connection with any service or actions of benefit to the HOSPITAL which are a part of or related to the educational program. The HOSPITAL and its employees shall not be entitled to compensation from the COLLEGE for services or actions of benefit to the COLLEGE which are part of or related to the educational program.

B. COLLEGE personnel, faculty and students are not eligible for coverage under the HOSPITAL'S Worker's Compensation or Unemployment Compensation insurance programs. COLLEGE will provide, if any, Worker's Compensation or Unemployment Compensation coverage as required by State law for students enrolled in the program. It is not anticipated that the students shall be compensated for services and clinical training, and by this Section, it is not intended to extend Worker's Compensation or Unemployment Compensation coverage beyond the specific requirements and provisions of State statute.

Revised. 10/2000
C. The COLLEGE agrees that the HOSPITAL shall not be responsible for claims, expenses, damages, or liability for personal injury or damage to property, real or personal, directly or indirectly arising from the negligent or wrongful act of the COLLEGE, its faculty, students, employees, agents, and volunteers. Claims against the COLLEGE shall be subject to and may be pursued in accordance with the provisions of Colorado Revised Statutes 21-101 et seq.

The COLLEGE shall certify that each student or faculty member acting under this Agreement are “public employees” as defined under the provision of C.R.S. 24-12-103(4)(b). If a student or faculty member does not meet this definition, then they shall be required to provide evidence of insurance as defined below.

For students or faculty who are not covered as defined in the foregoing paragraph, the COLLEGE shall require students participating in the education programs under this Agreement to provide, at their own expense, comprehensive general liability insurance covering bodily injury and property damage liability with minimum coverage limits of $1,000,000 per claim/$2,000,000 general total limit, and medical professional liability insurance with minimum coverage limits of $1,000,000 per claim/$3,000,000 annual aggregate. Each student shall be required to provide HOSPITAL with a Certificate of Insurance as evidence of such insurance coverage prior to participation in any educational program subject to this Agreement.

D. The HOSPITAL shall provide, at its own expense, adequate liability insurance coverage for its employees.

E. Except as otherwise provided on any Schedule attached hereto, the COLLEGE will provide qualified certified teachers to teach all prescribed courses. The faculty members will select and assign learning experiences of students in accordance with agreed-to schedules and work assignments. Faculty members will work with appropriate representatives and personnel of the HOSPITAL in determining the needs of patients assigned to students.

The COLLEGE shall notify the HOSPITAL in writing of any change or proposed change of any clinical instructor. The HOSPITAL may request that the COLLEGE replace incompetent, inefficient or merely non-cooperative clinical instructors assigned to any of the clinical training programs by providing the COLLEGE with a letter describing such incompetence, inefficiencies or non-cooperation. The COLLEGE shall, within ___ days, provide the HOSPITAL with names of qualified replacement staff, such replacement staff to be employee(s) of the COLLEGE unless otherwise mutually agreed to.

F. The COLLEGE shall provide the HOSPITAL with a schedule for student assignments, including the number and names of students, and a copy of the clinical objectives in sufficient time (a minimum of ___ calendar weeks) prior to
the beginning of the student rotation to allow for adequate planning and staffing of the department to meet the needs of the department and the patients of the HOSPITAL.

The HOSPITAL shall determine whether its physical plant will be made available for the educational purposes requested by the COLLEGE. Under no circumstances shall the HOSPITAL be deemed to have consented to the use of its physical plant, programs, personnel, plans or schedules except as specifically indicated and mutually agreed.

G. The COLLEGE shall comply with Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973, and related regulations, and assure that it does not and will not discriminate against any person on the basis of race, creed, sex, national origin, age, or handicap under any program or activity receiving federal financial assistance.

H. The safety, health and welfare of HOSPITAL'S patients shall be of the utmost importance in this Agreement. The COLLEGE will provide necessary assurance or evidence of acceptable health levels of the students and faculty while working in the clinical area.

I. The HOSPITAL shall provide the COLLEGE with all By-Laws, rules, regulations and standards of the HOSPITAL and its medical staff and shall participate in an orientation program in conjunction with the COLLEGE for informing all participating faculty and students of the provisions thereof. Students assigned to the educational program who do not abide by the By-Laws, rules, regulations and policies of the HOSPITAL or meet the standards of safety, health and ethical behavior prescribed thereby, may be suspended, placed on probation or dismissed from the clinical program. Prior to instituting disciplinary actions, COLLEGE shall, in consultation with HOSPITAL, provide the student notice of the proposed action and an opportunity to be heard. The COLLEGE shall be responsible for the proper conduct of students and instructors while at the HOSPITAL as governed by the rules and regulations of the clinical area.

J. The COLLEGE shall provide or reimburse the HOSPITAL for supplies and reimburse the HOSPITAL for the cost of any damage to equipment used for instructional purposes.

III. COLLEGE RESPONSIBILITIES

A. The COLLEGE shall maintain sole responsibility for the educational programs of students assigned to the HOSPITAL. The COLLEGE shall offer educational programs accredited by appropriate national and state accrediting organizations.
and shall determine standards of education, hours of instruction, clinical learning experiences, instructional schedules, evaluation of students, and other matters pertaining to educational programs offered by the COLLEGE. The COLLEGE shall maintain all student records relevant to the clinical training programs.

B. The COLLEGE shall not discriminate against any STUDENT applicant for enrollment in its course of study because of race, creed, sex, national origin, age or handicap.

C. All COLLEGE personnel, faculty and students shall be informed of and shall abide by the By-Laws, rules and regulations of the medical staff and any other applicable rules or policies of the HOSPITAL, and at all times shall maintain the appropriate degree of care and responsibility in connection with the educational programs when dealing with patients, facilities, and medical staff.

D. The COLLEGE acknowledges and agrees that the patient's attending physician determines the course of care and treatment for an individual patient. The COLLEGE shall be responsible for assuring that all interactions between its faculty and students and a patient comply with the orders and desires of the attending physician.

E. All COLLEGE personnel, faculty and students who have access to patient or research medical records shall maintain strict confidentiality with regard to said records and shall not disclose any information contained therein to any person outside the clinical training program in which they are involved.

F. The COLLEGE maintains the privilege for its faculty to visit the HOSPITALS facility during normal business hours for purposes connected with the educational program during the educational period.

G. The COLLEGE agrees that the STUDENT shall:

1. Be permitted all HOSPITAL holidays.

2. Have the responsibility of transportation to and from the HOSPITAL and on any reasonable special assignment by the HOSPITAL.

3. Be responsible for own absences due to illness or other cause and HOSPITAL notification.

4. Complete health forms requested by the HOSPITAL.

5. Be responsible for following all policies of the HOSPITAL.

6. Be responsible for providing the necessary and appropriate uniforms required, if any, but not provided by the HOSPITAL.
7. Be responsible for reporting on time to the designated individual at the HOSPITAL'S facility.

8. Be responsible for the STUDENT'S own housing during clinical education assignment.

9. At all times, behave in a professional and ethical manner as defined in the professional code of ethics and/or departmental policies and procedures.

IV. HOSPITAL RESPONSIBILITIES

A. The HOSPITAL shall cooperate with the COLLEGE in the preparation of students in clinical education programs. To the extent COLLEGE is able to make offerings available, the HOSPITAL will provide clinical space, subject to availability, to qualified students from the COLLEGE for educational purposes under the guidance and supervision of the clinical instructors during such periods of time and to such extent as HOSPITAL shall agree.

B. The HOSPITAL shall determine the number of students it will accept during a specific clinical educational period and shall notify the COLLEGE within 30 days of receipt of schedule. The HOSPITAL may, in its reasonable discretion, limit the number of students in any of the clinical programs.

C. The HOSPITAL shall designate in writing a liaison to work with the COLLEGE'S assigned Clinical Instructors.

D. The HOSPITAL shall complete all forms as requested by the COLLEGE such as general information forms and evaluation reports.

E. The HOSPITAL shall not discriminate against any STUDENT applicant because of race, creed, sex, national origin, age or handicap.

F. The HOSPITAL shall permit the full-time and part-time faculty and students assigned to the COLLEGE'S educational programs to use its patient care, medical record and data facilities for clinical education, provided that such use shall not conflict with or violate any rules, regulations, By-Laws, or policies of the HOSPITAL. Such use shall be subject to and at all times comply with the confidentiality provisions contained in subsection III.D of this Agreement.

G. The HOSPITAL shall make available rooms or areas where groups of students may hold discussions and receive clinical instruction, and permit, for educational purposes, the use of such supplies and equipment as are commonly available for patient care, the cost of same to be reimbursed by the COLLEGE.

Revised 10/2000
H. The HOSPITAL shall maintain full certification by the appropriate state certifying authority and full accreditation by the Joint Commission on the Accreditation of Healthcare Organizations.
ATTACHMENT A

PRE-REQUISITES FOR STUDENT AFFILIATION

In order to comply with OSHA, ICUHO, and other state, federal, and local laws, St. Mary's Hospital requires specific pre-requisites for students participating in patient care in its facility. The following pre-requisites require written confirmation from the COLLEGE a minimum of two weeks prior to beginning of the student affiliation for each student.

1. Physical Exam—Current within last year to include reasonable assurance the student is able to perform duties required in the student affiliation

2. Immunization/Tests:
   A. PPD (TB skin test) - Current within one year of reporting to facility. Those with history of positive PPD should have follow-up by physician. **Date of PPD**

   B. Documented immunity to Measles, Mumps, Rubella, and tetanus as evidenced by:
      a. Born before 1/1/57 **Date of birth**
      b. Documentation of physician diagnosed measles **YES** **NO**
      c. Documentation of 2 doses of vaccine **YES** **NO**
      d. Laboratory evidence of immunity to measles **YES** **NO**

   C. Documentation or signed statement that student has received Hepatitis B vaccine series or is currently pursuing completing series or has signed declination waiver **YES** **NO**

3. Training of Universal Precautions/Bloodborne Pathogens **Date of training**

4. Current CPR Certification. **YES** **NO**

5. Liability Insurance:
   Certificates of Insurance provided for professional liability and general liability in the amounts specified in the Agreement **YES** **NO**
PLEASE NOTE:

The affiliation agreement with Valley View Hospital is in the process of renewal and the signature page will be available for the site visitors.
AFFILIATION AGREEMENT
BETWEEN MESA STATE COLLEGE AND
COMMUNITY HOSPITAL

This Agreement is made as of this 22nd day of May, 2000, by and between Mesa State College, hereinafter referred to as "College" and Community Hospital, hereinafter referred to as "Agency".

WITNESSETH:
WHEREAS, College offers to enrolled students a degree in the fields of registered nursing, radiologic technology, and sports training,
WHEREAS, College desires to provide to its students a clinical learning experience through the application of knowledge and skills in actual patient-centered situations; and
WHEREAS, Agency has agreed to make its facility available to College for such purposes.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties hereby agree as follows:

1. RESPONSIBILITIES OF COLLEGE
   a. College shall be responsible for the implementation and operation of the clinical component of its program at Agency, which program shall be approved in advance by Agency. Such responsibilities shall include, but be limited to, the following:
      i. orientation of students to the clinical experience at Agency;
      ii. provision of classroom theory and practical instruction to students prior to the clinical assignments at Agency;
      iii. preparation of student/patient assignments and rotation plans for each student and coordination of same with Agency;
      iv. continuing communication with Agency regarding student performance and evaluation, absences and assignments of students, and other pertinent information;
      v. supervision of students and their performance at Agency;
      vi. performance of such other duties as may from time to time be agreed to between College and Agency.

All students, faculty, employees, agents and representatives of College participating in the program at Agency (the "Program Participants") shall be accountable to the Agency's President (or CEO) or his/her designee.

   b. College shall maintain for itself appropriate liability insurance coverage in accordance with Colorado law. College is self-insured for general liability in accordance with the provisions of the Colorado Governmental Immunity Act, §§24-10-101, et seq., C.R.S., and the Colorado Risk Management Act, §§24-30-1501, et seq., C.R.S.

   c. College and Agency agree that Agency is not responsible for any Workers' Compensation or disability claim filed by a student or faculty member of College. The parties agree that the students are not employees of Agency and are not covered by Agency Workers' Compensation. The faculty are employees of College and are covered accordingly under Workers' Compensation. With respect to employee compensation for services provided in
connection with this Agreement, each party shall indemnify the other for their own employees' withholding taxes, Workers' Compensation, and other employment-related taxes.

d. Students shall pass a medical examination prior to their participation in the program.

e. College shall require the students to dress in accordance with dress and personal appearance standards approved by College. Such standards shall be in accordance with Agency's standards regarding same.

f. All faculty provided by College shall be duly licensed, certified, or otherwise qualified, to participate in the program at Agency. College shall have a specially designated staff for the performance of the services specified herein. College and all Program Participants shall perform its and their duties and services hereunder in accordance with all relevant local, state, and federal laws and shall comply with the standards and guidelines of all applicable accrediting bodies and the bylaws, rules and regulations of Agency and any rules and regulations of College, as may be in effect from time to time. Neither College, nor any Program Participant, shall interfere with or adversely affect the operation of Agency or the performance of services therein.

2. RESPONSIBILITIES OF AGENCY

a. Agency shall accept the students assigned to the program by College and cooperate in the orientation of all Program Participants to Agency. Agency shall provide the opportunities for such students, who shall be supervised by College and Agency, to observe and assist in various aspects of patient care, Agency shall coordinate College's rotation and assignment schedule with its own schedule. Agency shall at all times retain ultimate control of their facility and responsibility for patient care.

b. Upon the request of College, Agency shall assist College in the evaluation of each student's performance in the program. However, College shall at all times remain solely responsible for the evaluation and grading of students.

3. MUTUAL RESPONSIBILITIES. The parties shall cooperate to fulfill the following mutual responsibilities:

a. Students shall be treated as trainees who have no expectation of receiving compensation or future employment from Agency.

b. Any courtesy appointments to faculty or staff by either the College or Agency shall be without entitlement of the individual to compensation or benefits for the appointed party.

c. College shall be liable for any and all claims, costs, damages and liability of any kind whatsoever, whether known or unknown, arising out of or related to any alleged negligent acts or omissions of the College, its employees, students, agents or representatives in the performance of its obligations under this Agreement. However, notwithstanding any other provision of this Agreement, nothing herein shall be construed or interpreted as a waiver of any provision of the Colorado Governmental Immunity Act, §§24-10-101, et seq., C.R.S., as now or hereafter amended. The parties understand and agree that liability for claims or injuries to
persons or property arising out of the negligence of the State of Colorado, College, and their officials, agents, and employees is controlled and limited by the provisions of §§24-10-101, et seq., C.R.S., as now or hereafter amended, and §§24-30-1501, et seq., C.R.S., as now or hereafter amended. The provisions of this Agreement, whether or not incorporated herein by reference, shall be controlled, limited, and otherwise modified so as to limit any liability of the State of Colorado, College, and their officials, agents, and employees in accordance with the above-cited laws.

d. Agency shall be liable for any and all claims, costs, damages and liability of any kind whatsoever, whether known or unknown, arising out of or related to any alleged negligent acts or omissions of Agency, its employees, students, interns, agents or representatives in the performance of its obligations under this Agreement.

4. WITHDRAWAL OF PROGRAM PARTICIPANTS
   Agency may request College to withdraw a student from the Agency when his or her clinical performance is unsatisfactory to Agency or his or her behavior, in Agency's discretion, is disruptive or detrimental to Agency and/or its patients. It is understood that only College can dismiss the student from the program.

5. INDEPENDENT CONTRACTOR
   The parties hereby acknowledge that they are independent contractors, and neither the College nor any of its agents, representatives, students or employees shall be considered agents, representatives, or employees of Agency. In no event shall this Agreement be construed as establishing a partnership or joint venture or similar relationship between the parties hereto. College shall be liable for its own debts, obligations, acts and omissions. No Program Participant shall look to Agency for any salaries, insurance or other benefits.

6. NON-DISCRIMINATION
   There shall be no discrimination on the basis of race, national origin, religion, creed, sex, age, veteran status, or handicap in either the selection of students for participation in the program, or as to any aspect of the clinical training; provided, however, that with respect to handicap, the handicap must not be such as would, even with reasonable accommodation, in and of itself preclude the student's effective participation in the program.

7. CONFIDENTIALITY
   a. College and its agents, students, faculty, representatives and employees agree to keep strictly confidential and hold in trust all confidential information of Agency and/or its patients and not disclose or reveal any confidential information to any third party without the express prior written consent of Agency. Agency understands that this Agreement is a public record available for public inspection and copying under the Colorado Public Records Act, §§24-72-201, et seq., C.R.S. and expressly agrees that College's disclosure of its terms pursuant to the Public Records Act is not a breach of this Agreement.

   b. The parties acknowledge that many student educational records are protected by the Family Educational Rights and Privacy Act, 20 U.S.C. §1232g, (FERPA) and that a student's consent generally must be obtained before releasing personally identifiable information from
such records to anyone other than College. College agrees to provide Agency with guidance respecting FERPA compliance.

8. TERM: TERMINATION
This Agreement shall be effective for an initial period of one year and shall thereafter automatically renew for additional one-year periods unless either party shall terminate this Agreement as provided herein. Notwithstanding the foregoing, either party may terminate this Agreement upon not less than six (6) months' written notice to the other, provided that any student in the midst of an assignment in the program when notice is given will be permitted to complete the assignment before the termination can take effect. No student may begin a clinical experience at Agency after notice has been given unless that student's assignment can be completed prior to the termination date.

9. ENTIRE AGREEMENT
This Agreement contains the entire understanding of the parties with respect to the subject matter hereof and supersedes all prior agreements, oral or written, and all other communications between the parties relating to such subject matter. This Agreement may not be amended or modified except by mutual written agreement. All continuing covenants, duties and obligations herein shall survive the expiration or earlier termination of this Agreement.

10. SEVERABILITY
If any provision of this Agreement is held to be invalid or unenforceable for any reason, this Agreement shall remain in full force and effect in accordance with its terms disregarding such unenforceable or invalid provision.

11. CAPTIONS
The captions contained herein are used solely for convenience and shall not be deemed to define or limit the provisions of this Agreement.

12. NO WAIVER
Any failure of a party to enforce that Party's right under any provision of this Agreement shall not be construed or act as a waiver of said party's subsequent right to enforce any of the provisions contained herein.

13. GOVERNING LAW
This Agreement shall be governed and construed in accordance with the laws of the State of Colorado.

14. ASSIGNMENT: BINDING EFFECT
College may not assign or transfer any of its rights, duties or obligations under this Agreement, in whole or in part, without the prior written consent of Agency. This Agreement shall inure to the benefit of, and be binding upon, the parties hereto and their respective successors and permitted assigns.
15. NOTICES

All notices hereunder by either party to the other shall be in writing, delivered personally, by certified or registered mail, return receipt requested, or by overnight courier, and shall be deemed to have been duly given when delivered personally or when deposited in the United States mail, postage prepaid, addressed as follows:

If to Agency:  
Community Hospital  
Randall M. Phillips  
2021 N. 12 Street  
Grand Junction, CO 81501

If to College:  
Mesa State College  
Department of Nursing & Radiologic Sciences  
ATTN: Department Chair  
1100 North Avenue  
Grand Junction, CO 81501-3122

or to such other persons or places as either party may from time to time designate by written notice to the other.

16. EXECUTION OF AGREEMENT

This Agreement shall not become effective or in force until all of the below named parties have fully executed this Agreement.

THE PARTIES HERETO have executed this Agreement as of the day and year first above written.

AGENCY:  
By:  
Name: Randall M. Phillips  
Title: President & CEO

MESA STATE COLLEGE:
By:  
State Controller (or designee)  
By:  
Chair, Dept. of Nursing & Radiologic Sciences  
By:  
Chair, Dept. of Human Performance & Wellness
15. NOTICES
All notices hereunder by either party to the other shall be in writing, delivered personally, by certified or registered mail, return receipt requested, or by overnight courier, and shall be deemed to have been duly given when delivered personally or when deposited in the United States mail, postage prepaid, addressed as follows:

If to Agency:  
Veterans Affairs Medical Center  
2121 North Avenue  
Grand Junction CO 81501

If to College:  
Mesa State College  
Department of Nursing & Radiologic Sciences  
ATTN: Department Chair  
1100 North Avenue  
Grand Junction, CO 81501-3122

or to such other persons or places as either party may from time to time designate by written notice to the other.

16. EXECUTION OF AGREEMENT
This Agreement shall not become effective or in force until all of the below named parties have fully executed this Agreement.

THE PARTIES HERETO have executed this Agreement as of the day and year first above written.

AGENCY:  
By:  
Name: Kurt W. Schlegelmilch, M.D.  
Title: Medical Center Director

MESA STATE COLLEGE:  
By:  
State Controller (or Deagree)  
Chair, Dept. of Nursing & Radiologic Sciences
15. NOTICES

All notices hereunder by either party to the other shall be in writing, delivered personally, by certified or registered mail, return receipt requested, or by overnight courier, and shall be deemed to have been duly given when delivered personally or when deposited in the United States mail, postage prepaid, addressed as follows:

If to Agency:

Grand River Medical Center
Staggert Memorial Hospital
Attn: CEO
701 E. 5th St, Box 912
Rifle, CO 81650

If to College:

Mesa State College
Department of Nursing & Radiologic Sciences
ATTN: Department Chair
1100 North Avenue
Grand Junction, CO 81501-3122

or to such other persons or places as either party may from time to time designate by written notice to the other.

16. EXECUTION OF AGREEMENT

This Agreement shall not become effective or in force until all of the below named parties have fully executed this Agreement.

THE PARTIES HERETO have executed this Agreement as of the day and year first above written.

AGENCY:

By: ____________________________
(Signature)
Name: __________________________
(please print)
Title: __________________________

MESA STATE COLLEGE:

By: ____________________________
Signature
Mesa State College Signature Authority
By: ____________________________
Chair, Dept. of Nursing & Radiologic Sciences
15. NOTICES

All notices hereunder by either party to the other shall be in writing, delivered personally, by certified or registered mail, return receipt requested, or by overnight courier, and shall be deemed to have been duly given when delivered personally or when deposited in the United States mail, postage prepaid, addressed as follows:

If to Agency:

ROCKY MOUNTAIN ORTHOPAEDIC ASSOC., P.C.
627 25 1/2 Road
Grand Junction, Colorado 81506
(970) 242-3536

ROCKY MOUNTAIN ORTHOPAEDIC ASSOC., P.C.
627 25 1/2 Road
Grand Junction, Colorado 81506
(970) 242-3536

If to College:

Mesa State College
Department of Nursing & Radiologic Sciences
ATTN: Department Chair
1100 North Avenue
Grand Junction, CO 81501-3122

or to such other persons or places as either party may from time to time designate by written notice to the other.

16. EXECUTION OF AGREEMENT

This Agreement shall not become effective or in force until all of the below named parties have fully executed this Agreement.

THE PARTIES HERETO have executed this Agreement as of the day and year first above written.

AGENCY:

By: ________________________________
Name: Dale A. Reigle
Title: CEO

MESA STATE COLLEGE:

By: Andy Rodriguez
Principal Representative
By: Sandy Forest
Chair, Dept. of Nursing & Radiologic Sciences
15. **NOTICES**

All notices hereunder by either party to the other shall be in writing, delivered personally, by certified or registered mail, return receipt requested, or by overnight courier, and shall be deemed to have been duly given when delivered personally or when deposited in the United States mail, postage prepaid, addressed as follows:

If to Agency:

**Delta County Memorial Hospital**
**Attn: Administration**
100 Stafford Lane - P.O. Box 10100
**Delta, Colo. 81416**

If to College:

**Mesa State College**
Department of Nursing & Radiologic Sciences
**ATTN: Department Chair**
1100 North Avenue
Grand Junction, CO 81501-3122

or to such other persons or places as either party may from time to time designate by written notice to the other.

16. **EXECUTION OF AGREEMENT**

This Agreement shall not become effective or in force until all of the below named parties have fully executed this Agreement.

THE PARTIES HERETO have executed this Agreement as of the day and year first above written.

**AGENCY:**

By: [Signature]
Name: Andrea R. Reed
Title: Interim Administrator

**MESA STATE COLLEGE:**

By: [Signature]
State Controller (or Designee)
By: [Signature]
Chair, Dept. of Nursing & Radiologic Sciences
15. NOTICES

All notices hereunder by either party to the other shall be in writing, delivered personally, by certified or registered mail, return receipt requested, or by overnight courier, and shall be deemed to have been duly given when delivered personally or when deposited in the United States mail, postage prepaid, addressed as follows:

If to Agency: Montrose Memorial Hospital
attn. Mary Snyder
800 S. Third St.
Montrose, Co. 81401

If to College: Mesa State College
Department of Nursing & Radiologic Sciences
ATTN: Department Chair
1100 North Avenue
Grand Junction, CO 81501-3122

or to such other persons or places as either party may from time to time designate by written notice to the other.

16. EXECUTION OF AGREEMENT

This Agreement shall not become effective or in force until all of the below named parties have fully executed this Agreement.

THE PARTIES HERETO have executed this Agreement as of the day and year first above written.

AGENCY:

By: ____________________________
Name: Mary Snyder
Title: Interim CEO

MESA STATE COLLEGE:

By: ____________________________
State Controller (or Designee)

By: ____________________________
Chair, Dept. of Nursing & Radiologic Sciences
15. NOTICES

All notices hereunder by either party to the other shall be in writing, delivered personally, by certified or registered mail, return receipt requested, or by overnight courier, and shall be deemed to have been duly given when delivered personally or when deposited in the United States mail, postage prepaid, addressed as follows:

If to Agency:

GLENWOOD MEDICAL ASSOCIATES, P.C.
1830 BLAKE AVENUE, FIRST FLOOR
GLENWOOD SPRINGS, CO 81601

If to College:

Mesa State College
Department of Nursing & Radiologic Sciences
ATTN: Department Chair
1100 North Avenue
Grand Junction, CO 81501-3122

or to such other persons or places as either party may from time to time designate by written notice to the other.

16. EXECUTION OF AGREEMENT

This Agreement shall not become effective or in force until all of the below named parties have fully executed this Agreement.

THE PARTIES HERETO have executed this Agreement as of the day and year first above written.

AGENCY: 
By: __________________________
(Signature)
Name: __________________________
(please print)
Title: __________________________

MESA STATE COLLEGE:
By: __________________________
Mesa State College Signature Authority
By: __________________________
Chair, Dept. of Nursing & Radiologic Sciences
Guide for Program Analysis

Name of Program: Mesa State College

Program Number: 01810000

Name of Program Director: Bette Schans, PhD, RTR

Telephone: (970) 248-1651

The Guide for Program Analysis (GPA) is designed to facilitate and integrate the accreditation and site visit processes. It is based on the Joint Review Committee on Education in Radiologic Technology (JRCERT) Standards for an Accredited Educational Program in Radiologic Sciences, adopted January 1996; revised April 2001; implemented January 1, 2002.

Programs will use the GPA to demonstrate compliance with the STANDARDS and to prepare the Self-Study Report. Site visitors will use the GPA to assess the information and materials provided by programs prior to and during the site visit.
Standard One:
Mission/Goals, Outcomes, and Effectiveness
1.1 Does the program have a **mission statement** that defines the purpose and scope of the program?

**Explanation:**

The program’s mission statement should be a broad statement of purpose or intent and may range in length from one sentence to a few paragraphs. The program’s mission statement should be consistent with that of its sponsoring institution.

**Rationale:**

Having a clear statement of the purpose or intent toward which a program’s efforts are directed assists the program in prioritizing its resources and efforts.

**Compliance May Be Demonstrated by:**

Providing a copy of the program’s mission statement.

**Possible Site Assessment Methods:**

- Review of published program materials
- Review of master plan of education
- Interviews with faculty

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<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
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<td>Assurance</td>
<td>Narrative</td>
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</tbody>
</table>

The program’s mission statement is published in our Web page, [www.mesastate.edu](http://www.mesastate.edu), in our program brochure, in the program information sheet and in the student handbook. The program mission statement is in concert with the college mission statement which is published in the college catalog.

Please see copy of the program brochure in exhibit 1.1a, the program information sheet in 1.1b, our web page in 1.1c, the program student handbook in 1.1d, and a copy of the college mission statement in 1.1e.
REQUIRED COURSES

GENERAL EDUCATION:
ENGL 111 English Composition
ENGL 112 English Composition
6 hours Behavioral Sciences or Humanities
(consult the catalog)
MATH 113 College Algebra or
UTEC 107 Math for Technology
HPWA 100 and one HPWE course

PREREQUISITE COURSE:
BIOL 209 and 209L Anatomy and Physiology with Lab

RADIOLOGIC TECHNOLOGY COURSES

RTEC 114 Intro to Clinical Lab
RTEC 120 Patient Care
RTEC 121, 131 Anatomy and Positioning
RTEC 121 and 131 Labs
RTEC 122, 132 Radiographic Principles
RTEC 122L and 132 Labs
RTEC 125 Radiation Physics
RTEC 135 Radiation Biology and Protection
RTEC 124, 214, 224 and 234 Clinical Experience
RTEC 251 Radiographic Pathology
RTEC 261 Radiographic Review
RTEC 255, 265 Radiographic Assessment

MISSION STATEMENT

The mission of the Radiologic Technology Program at Mesa State College is to facilitate each student's learning to become the best radiologic technologist possible through development of technical and professional skills, as well as behaviors, attitudes, and ethics desired by patients, employers, and the community served.

PROGRAM GOALS

Fulfillment of the program's mission is assessed by the degree to which the program achieves the following goals:

1. Students will utilize broad-based knowledge and skills to become competent entry-level radiographers.

2. Students will demonstrate skills in effective thinking and problem solving: communication, and life-long learning.

3. Students will demonstrate value-based behaviors as the foundation for professional practice.

4. The program will provide competent, qualified technologists to the community.
Thank you for your interest in the Mesa State College Radiologic Technology Program. This is a two-year, nationally accredited program that leads to an Associate of Applied Science degree.

In addition to the required courses for the program, 16 hours of general education courses and one prerequisite course are also included in the degree.

As a radiologic technologist, you will be joining the health professional team to aid physicians with diagnosis of trauma and disease. X-rays are vital in the medical world to provide information for treatment of diseases.

Along with learning the technical and procedure skills required to produce quality radiographs, students are taught all aspects of patient care, medical and legal ethics, and radiographic pathology.

Part of your education will include clinical internships at St. Mary’s Hospital, Community Hospital, the Veteran’s Administrative Hospital, and the Rocky Mountain Orthopaedics Clinic in Grand Junction. Additionally, hospitals and clinics in Delta, Montrose, Glenwood and Rifle are also utilized for clinical experience.

Following graduation, you will be eligible to take the national certifying examination administered by the American Registry of Radiologic Technologists. This national certification allows you to work anywhere in the country as a registered technologist. Some states do require a separate license.

Become part of a vital team. Check out our program at Mesa State College.

**R.T.(R) REGISTERED TECHNOLOGIST (RADIOGRAPHY)**

**EVALUATION CRITERIA:**

**ACT SCORES**

**HIGH SCHOOL AND COLLEGE GPA**

**HIGH SCHOOL COURSE WORK:**

- SCIENCE COURSES

**COLLEGE COURSEWORK**

**APPLICATIONS MUST BE SUBMITTED TO THE RADIOLOGIC TECHNOLOGY PROGRAM DIRECTOR BY MARCH 1 OF EACH YEAR.**

FOR FURTHER INFORMATION PLEASE CALL (970) 248-1651 OR (970) 248-1398 OR kryan@mesastate.edu
RADIOLOGIC TECHNOLOGY PROGRAM

ABOUT THE PROGRAM

The current Radiologic Technology Program at Mesa State College is two years in length and includes classroom studies and clinical experience. Most of the classroom studies are during the fall and spring semesters of the first year of the program. Completing general education or required support courses before beginning the program does not decrease the length of the program. However, it does considerably decrease the semester credit hour load that will be necessary to graduate as proposed. Upon completion of the program the student receives an Associate of Applied Science degree. All classroom studies are conducted on the Mesa State campus. Clinical experience includes rotations at several of the following clinical facilities:

St. Mary's Hospital and Medical Center, Grand Junction
Community Hospital, Grand Junction
Veterans Administration Medical Center, Grand Junction
Delta Memorial Hospital, Delta
Montrose Memorial Hospital, Montrose
Valley View Hospital, Glenwood Springs
Rocky Mountain Orthopaedics, Grand Junction
Glenwood Medical Associates, Glenwood Springs
Grand River Medical, Rifle

The structure of the Radiologic Technology Program requires the student to attend the eight-week summer session between the first and second year of study. In addition, sometime during the second year, an eight-week rotation in Delta, Montrose, Rifle, or Glenwood Springs is required.

Following successful completion of the Radiologic Technology Program the graduate is eligible to sit for the national registry examination administered by the American Registry of Radiologic Technologists. A passing score on this examination results in the granting of a certificate of registration that allows the privilege to use the title “Registered Technologist” and to use the abbreviation RT following the graduate’s name.

MISSION STATEMENT

The mission of the Radiologic Technology Program at Mesa State College is to facilitate each student’s learning to become the best radiologic technologist possible through development of technical and professional skills as well as behaviors, attitudes, and ethics desired by patients, employers, and the community served.
**Program Goals**

Fulfillment of the program’s missions is assessed by the degree to which the program achieves the following goals:

1. Students will utilize broad-based knowledge and skills to become competent entry-level radiographers.
2. Students will demonstrate skills in effective thinking and problem solving; communication, and life long learning.
3. Students will demonstrate value-based behaviors as the foundation for professional practice.
4. The program will provide competent, qualified technologists to the community.

**About the Profession**

The registered radiologic technologist plays an important role on the medical team by providing quality radiographs for a physician or radiologist (a physician who specialized in interpretation of diagnostic radiologic images). As a professional assistant, the radiologic technologist functions to aid in the diagnosis of various abnormalities including fractures, tumors, and malfunctioning body systems.

Responsibilities of the radiologic technologist include adjusting radiographic equipment for specific examinations, placing the patient into the correct position, making the required exposure, and processing the radiographs. In some cases, mobile radiographic equipment must be used in the emergency room, in surgery, or at the patient’s bedside. Responsibilities may also include performing quality assurance procedures, keeping records of patient radiographs and reports, ordering supplies, and maintaining radiographic and processing equipment.

The major responsibility of the radiologic technologist, however, is compassionate care of the patient. In a profession driven by technical advances, caring for the needs of the patient remains the primary objective. Compassionate care includes proficiency in communication, respecting individual rights, and maintaining safety.

**More Information**

For more information concerning the program, course requirements, and course descriptions please visit Mesa State’s website at [www.mesastate.edu](http://www.mesastate.edu), “Site Index” in the upper righthand corner, and then select “Radiologic Technology” from the alphabetical list of links, refer to the Mesa State College catalog, or email us at kryan@mesastate.edu.
ABOUT RADIOLOGIC TECHNOLOGY

HISTORY
In 1972 Mesa College offered an Associate in Applied Science degree in radiologic technology for the first time. There were 12 students accepted into the first class which graduated in 1974. In 2001, the program increased its enrollment from 14 to 16 students. Over 250 students have graduated from the program.

From its inception until 1994 the Radiologic Technology Program was affiliated with the Committee on Allied Health Education and Accreditation (CAHEA) sponsored by the American Medical Association. Since the time CAHEA dissolved, the program has been under the auspices of the Joint Review Committee on Education in Radiologic Technology.

The Mesa State Radiologic Technology Program is the only radiologic technology program offered on the western slope of Colorado. In addition, Mesa State College has been the only four year institution in Colorado to offer a program in radiologic technology. Nationally, the profession has recognized the baccalaureate degree as the professional degree and the associate degree as the technical degree. In this regard, Mesa State has the potential to develop a baccalaureate level program while maintaining the associate degree level. Future plans include the offering of both associate and baccalaureate degrees.

ACCREDITATION
The following accrediting bodies ensure that both the integrity of the program is maintained and that the program goals are met. There is continual review and revision of the program and its curriculum.

Joint Review Committee on Education in Radiologic Technology
The Radiologic Technology Program of Mesa State College is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The JRCERT is recognized by the United States Department of Education as an official accreditation agency in radiologic technology. An annual report is submitted to the JRCERT by the program director. In addition, every five to eight years an extensive self-study, including a site visit by a JRCERT accreditation team, is required. In 1998, the radiologic technology program received JRCERT approval for a period of eight years.

North Central Association of Colleges and Schools
Mesa State College is accredited by the North Central Association of Colleges and Schools. The current recognition was awarded in 2004 for the period of ten years.

Colorado Commission on Higher Education
The commission on Higher Education (CCHE) is a state regulatory agency with ultimate authority concerning degree granting institutions within the state of Colorado. The CCHE requires an annual assessment report. In addition, every five years an extensive program review is required. The radiology program review is conducted by the Mesa State College Curriculum Committee, a subcommittee of the Faculty Senate. All annual assessment reports, to date, have been approved. The last program review and approval was in 2001.

Colorado Community College Occupational Education System
The Colorado Community College Occupational Education System (CCCOES) is the body which approves vocational education programs in the state of Colorado. A program approval report is required every five years. The last report was submitted to CCCOES in 2000. Since its inception the radiologic technology program has had continuous approval by the CCCOES.

PHILOSOPHY OF THE PROGRAM
The faculty of the Radiologic Technology Program support the philosophy of Mesa State College. In addition, we believe that each person is an individual and is entitled to be treated as a unique human being with individual needs, differences, and potentialities.

Education is a continuing process whereby the learner determines goals, adapts to change, clarifies values, and develops such discipline and understanding that best meets the needs of their individual needs for self actualization. Because learning occurs at varying rates in different individuals, a variety of learning modes and options will provide the student with experiences which will meet individual learning needs.

Vocational education is based on theoretical constructs and is strengthened by laboratory experiences which emphasize skills and application of knowledge. Quality general education courses provide students with college level competencies and a balanced education.

Based on this philosophy, the administration, faculty, and clinical education centers work closely to provide the student with an atmosphere conducive to individual learning. While the teaching-learning process is the combined responsibility of students, faculty, administration, and clinical education centers, learning is primarily the responsibility of the student.
MISSION AND GOALS OF THE PROGRAM

Mission:
The mission of the Radiologic Technology Program at Mesa State College is to facilitate each student’s learning to become the best radiologic technologist possible through development of technical and professional skills as well as behaviors, attitudes, and ethics desired by patients, employers, and the community served.

Goal 1:
Students will utilize broad-based knowledge and skills to become competent entry-level radiographers.

Goal 2:
Students will demonstrate skills in effective thinking and problem solving; communication, and life long learning.

Goal 3:
Students will demonstrate value-based behaviors as the foundation for professional practice.

Goal 4:
The program will provide competent, qualified technologists to the community.

Nursing & Radiologic Sciences
Mesa State College
1100 North Avenue
Grand Junction, CO 81501
Fax: (970) 248-1133

CONTACT INFORMATION:
Ryan
email: kryan@mesastate.edu
(970)248-1395
MESA STATE COLLEGE

Nursing and Radiologic Sciences

Radiologic Technology Program

Student Handbook

2005 - 2006
MESA STATE COLLEGE
Radiologic Sciences
Radiologic Technology Program

Student Handbook

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I. PROGRAM DESCRIPTION

The Mesa State College Radiologic Technology Program complies with the standards outlined by the Joint Review Committee on Education in Radiologic Technology in the publication "Standards for an Accredited Program in Radiologic Sciences". This publication is available for review upon request.

The plan is for the Radiologic Technology Program to be completed in five semesters. The program is a combination of lecture classes, laboratory experience, and internship at area clinical facilities affiliated with the program. This clinical experience is a required part of the student's education because it provides actual experiences in patient care.

Upon successful completion of the program, the student will earn an Associate of Applied Science Degree. The graduate is then eligible to apply to take the National Registry given by the American Registry of Radiologic Technologists. Passing this examination qualifies the student as a registered technologist.

II. PROGRAM PHILOSOPHY

The faculty of the Radiologic Technology Program supports the philosophy of Mesa State College. In addition, we believe that each person is an individual and is entitled to be treated as a unique human being with individual needs, differences, and potentialities. Education is a continuing process whereby the learner determines the goals, adapts to change, clarifies values, and develops such discipline and understanding that best meets their individual needs for self-actualization. Because learning occurs at varying rates in different individuals, a variety of learning modes and options will provide the student with experiences that will meet individual learning needs. Vocational education is based on theoretical constructs and is strengthened by laboratory experiences that emphasize skills and application of knowledge. Quality general education courses provide students with college level competencies and a balanced education.

Based on this philosophy, the administration, faculty and clinical education centers (hospitals) work closely to provide the student with an atmosphere conducive to individual learning. While the teaching-learning process is the combined responsibility of students, faculty, administration, and clinical education centers, learning is primarily the responsibility of the student.

III. MISSION STATEMENT AND PROGRAM GOALS

Program Mission

The mission of the Radiologic Technology Program at Mesa State College is to facilitate each student's learning to become the best radiologic technologist possible through development of technical and professional skills as well as behaviors, attitudes, and ethics desired by patients, employers, and the community served.

Program Goals

Fulfillment of the program's mission is defined in the following goals:
1. Students will utilize broad-based knowledge and skills to become competent entry-level radiographers.
2. Students will demonstrate skills in effective thinking and problem solving: communication and life-long learning.
3. Students will demonstrate value-based behaviors as the foundation for professional practice.
4. The program will provide competent, qualified technologists to the community.
IV. GRADUATION REQUIREMENTS

Mesa State College Radiologic Technology Program degree requirements are as follows:

<table>
<thead>
<tr>
<th>A. Radiologic Technology</th>
<th>Credit Hours</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Didactic</td>
<td>23</td>
<td>368</td>
</tr>
<tr>
<td>2. Laboratory</td>
<td>4</td>
<td>128</td>
</tr>
<tr>
<td>3. Clinical</td>
<td>30</td>
<td>1,364</td>
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<table>
<thead>
<tr>
<th>B. Anatomy and Physiology</th>
<th>Credit Hours</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Lecture</td>
<td>2</td>
<td>32</td>
</tr>
<tr>
<td>2. Laboratory</td>
<td>2</td>
<td>64</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C. General Education</th>
<th>Credit Hours</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Social and Behavioral Science/Humanities/Applied Studies</td>
<td>6</td>
<td>96</td>
</tr>
<tr>
<td>2. English Composition 111,112</td>
<td>6</td>
<td>96</td>
</tr>
<tr>
<td>3. Math 113 or UTEC 107</td>
<td>4</td>
<td>64</td>
</tr>
<tr>
<td>4. Health and Wellness</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>5. Physical activity (HPWE)</td>
<td>1</td>
<td>8</td>
</tr>
</tbody>
</table>

Total contact hours will not exceed 40 hours per week.

V. CLASSROOM INSTRUCTION

The student is expected to attend all scheduled classes and labs prepared and on time. The student who is often late or is frequently absent may be considered for withdrawal from the program.

Absence from a class on the day of any scheduled examination or graded procedure will be handled as follows:

A. The student will notify the instructor of an illness or other emergency reason prior to the scheduled course time. No call will result in a grade of zero for any examination or procedure.

B. The student must also contact the instructor on the day of the absence to arrange a time to make up the examination. The time and place for the make-up examination is at the discretion of the instructor, however, it is to be expected that the examination will be administered on the next regular school day. There will be an 8% grade reduction for a make up examination.
VI. PROGRAM REQUIREMENTS FOR WRITING A PAPER

Use the following protocol for all written assignments for the program. Please remember that plagiarism is a serious offense and as such constitutes grounds for removal from the Radiologic Technology Program. The documentation section is designed to help you give proper credit to the words and ideas of others.

General Design

Typing
- Use white 8.5 X 11 inch paper.
- Use New Times Roman 12 point-font.
- Use black ink throughout the paper.
- Do not use bold, italic, or underline to emphasize a point.
- Print on only one side of the paper.
- Print a separate copy of the paper to keep for yourself.

Margins, Spacing, and Indentation
- Set one-inch margins on all sides.
- Do not justify margins. Align the left margin and leave the right margin uneven.
- Double-space the entire paper, including the title page, quotations, and references. Do not use quadruple spacing between paragraphs.
- Indent the first word of a new paragraph one-half inch (five spaces) from the left margin.
- See below "Citing within the Text" for formatting quotations.

Title Page
- Beginning four inches from the top of the first page, double space and center:
  - the title of the paper
  - your name
  - the name of the course
  - the instructors name
  - the day the assignment is due
- Do not underline, bold, or place quotation marks around the title.

Page Numbering
- The title page will not have a page number. Number all content pages consecutively throughout the paper.
- Include your last name, five spaces to the left of the page number.
- Place the page number in the upper right hand corner, one-half inch from the top, flush with the right hand margin.

Abbreviations and Hyphenation
- Define an acronym the first time it is used.
  - Example: cardiopulmonary resuscitation (CPR)
  - Thereafter use just CPR.
- Do not divide words at the end of a line, even with hyphenation.

Corrections
- Proofread your paper. Spellchecker does not pick up all errors.
- Proper grammar, sentence structure, and spelling are expected.
- Do not make corrections in the margin, below, or over a mistake. Reprint pages in which corrections are necessary.

Binding
- Secure pages with a staple in the upper left-hand corner.
- Do not use any type of binder or folder.
Writing a Paper - continued

Documentation
- Document references from the work of another person; including facts, opinions, and quotations.
- Cite references in the following ways:
  o As citations within the text.
  o In a list of sources at the end of the text.

Citations within the Text
- Document source material by citing the author and page number of the source.
  o When using the name of the author as part of the text, place the page number in parentheses following the author.
    - Example:
      Bushong (307) states that the leading cause of death from cancer in women is breast cancer.
  o Otherwise, place the author and page number in parentheses, separated with a comma.
    - Example:
      The leading cause of death from cancer in women is breast cancer (Bushong, 307).
  o In cases of more than one author and more than one source, place the authors and years of publication in parentheses, separated by semicolons.
    - Example:
      The benefits of mammography appear to be more pronounced in the over 40-age group (Bushong, 307; Thompson, Hattaway, Hall, & Dowd, 25).
  o When a piece has two authors, cite both names every time they appear.
  o When a piece has more than two authors, cite all authors the first time, and include only the surname of the first author followed by et al. each time they appear after that.
    - Example:
      (Thompson et al. 25)
- Cite the author, year, and page number in parentheses, when using a direct quotation.
  o If the quotation is no longer than four lines, place it in quotation marks and include it in the paper.
  o For quotations of more than four lines, use a block format in which each line is indented one half inch (five spaces) from the left margin.
- Internet Source
  o If the author is known, cite surname followed by a comma then page or paragraph number.
  o If the author is unknown, place first few words of title in quotation marks followed by a comma and page or paragraph number.
  o If the page number is not available, use the paragraph symbol (¶) or abbreviate paragraph (para.) along with the number of the paragraph.
    - Example of known author and page number:
      (Smith, 3)
    - Example of unknown author and unknown page:
      (“Breast Cancer Study,” ¶ 6)
- Personal Communication
  Personal communications may be letters, memos, telephone conversations, or guest speakers.
  o Do not include on the reference page (because data is not recoverable).
  o Cite only in text.
  o Include:
    - Initials and surname.
    - Date
      - Example:
        L. M. Smith (personal communication, April 24, 2004)
Reference Page
• On a separate piece of paper, on the first line, center the heading (References).
• Double-space the entire page.
• Indent the first line of each reference one-half inch (5 spaces).
• List references in alphabetical order by the surname of the first author.

Periodicals/Journals
• Include:
  o Author (surname and initials; use commas to separate more than one author).
  o Year of publication in parentheses (include month with monthly magazines) - finish with period.
  o Title of article (capitalize first word of title and subtitle and proper names) - finish with period.
  o Title of periodical (include full title in uppercase and lowercase; include volume number; underline periodical and volume number; if each volume begins on page 1, include issue number in parentheses) - use commas to separate and finish with a period.
  * Example:

Books
• Include:
  o Author (surname and initials; use commas to separate more than one author).
  o Year of publication in parentheses and finish with a period.
  o Title of book chapter (capitalize the first word of title and subtitle and proper names) - finish with period.
  o Type the word "In" followed by the editor's initials and surname. End with "Ed." in parentheses - finish with comma.
  o Title of publication (underline title; capitalize the first word of title and subtitle and proper names). Include additional information such as edition or volume number in parentheses after the title, followed by comma.
  o Include inclusive page numbers of article or chapter in parentheses and finish with a period.
  o Include publication information (location of publisher - city and state followed by a colon; brief name of publisher - finish with period.
  * Example:

Internet
• Include:
  o Author (surname and initials; use commas to separate more than one author) or title of page if a professional web site (finish with period).
  o Year of revision or copyright date in parentheses and finish with period.
  o If an article (capitalize the first word of title and subtitle and proper names) - finish with period.
  o If a book, magazine, or journal (italicize the title - do not underline; capitalize the first word) - finish with period.
  o Place the word "Online" in brackets and finish with period.
  o Place the word "Available.".
  o Place URL (WWW address) in <> (try not to separate an address; if necessary separate at a natural break such as a diagonal, period or hyphen).
  o Date of access or download in brackets and finish with period.
  * Example:
  o For online encyclopedia, book, or periodical entries adapt the protocol from the periodical/journal and book sections above.
VII. CLINICAL EXPERIENCE

A. Student Accountability
Unlike most formal educational settings, the student in a clinical facility is accountable for working well with others and responsible for direct patient care. It is vital that the student understands the value of honesty, the necessity of critical thinking, and the need to self-regulate behavior.

During clinical experience, the student will be directly responsible to the supervisory technologist and/or clinical instructor at the assigned facility. The student should be present during the entire clinical experience shift. Personal appointments should not interfere with clinical experience time. The student must present proof of course registration to the supervisory technologist and/or clinical instructor on the first clinical day of the semester. The student not registered for the clinical course cannot be in the clinical setting.

While in the clinical setting, the student encounters ill and debilitated patients. Therefore, it is critical to the patient's well being that exposure to communicable disease be kept to a minimum. The student with any communicable disease may not be in the clinical environment. The program director or clinical coordinator may remove the student from a clinical facility if they suspect they have a communicable disease. In order to confirm or deny a disease process, appropriate diagnostic testing may be required.

The student technologist must meet the same level of physical ability that is required of a radiologic technologist. Again, it is essential that there is no compromise in patient care. The student must notify the program director of any apparatus, medication, or surgical procedure that results in impairment (physical or mental) or necessitates physical restrictions.

B. Attendance
The student will observe the Mesa State College calendar. The student will not be present in the clinical facility during breaks observed by the college.

The student is expected to be on time to an assigned clinical rotation. The student who is often late or is frequently absent may be considered for withdrawal from the program. **The student will notify the program director when an absence is due to circumstance other than minor illness.**

The student will be considered tardy when they arrive at the clinical site (i.e. assigned room):
- between one minute and 15 minutes after the beginning of the shift
  OR
- within the hour following the beginning of the shift when accompanied by a phone call to the assigned clinical instructor.

**It is necessary that the supervisor of the clinical facility and the college clinical instructor know when the student is absent.**

The student will be considered absent when they miss more than one hour of any part of a shift. Unusual situations will be handled on a case-by-case basis.
Clinical hours, shifts, and expectations vary greatly between semesters. Therefore, absences are treated differently each semester.

1. **Clinical Lab - Fall Semester (RTEC 114 - 1st mod)**
   
   Each hour of absence from clinical lab will automatically result in a one percent reduction of the lab portion of the final semester grade. There will also be an 8% reduction for makeup assignments.

2. **Clinical Experience - Fall Semester (RTEC 114 - 2nd mod)**
   
   Due to the critical nature of study in this semester, the first year student cannot miss more than 20 hours from clinical experience. Absence in excess necessitates withdrawal from the program. Reentry into the program will be considered on a space available basis for the following year, during the same semester.

   Any tardy in excess of two will result in a 5% reduction in the clinical experience portion of the final semester grade.

   Any absence in excess of one will result in a 5% reduction in the clinical experience portion of the final semester grade.

   For each absence there will be an 8% reduction of the "Evaluation of Professional Behavior, Ethics, and Attitudes".

   If the student does not personally notify the supervisor at the clinical site and the college instructor before the beginning of the assigned shift there will be an additional 8% reduction in the biweekly and a 5% reduction in the clinical experience portion of the final semester grade.

3. **Clinical Experience - Spring Semester (RTEC 124)**
   
   Due to the critical nature of study in this semester, the first year student cannot miss more than 36 hours from clinical experience. Absence in excess necessitates withdrawal from the program. Reentry into the program will be considered on a space available basis for the following year, during the same semester.

   Being tardy more than three times per semester will result in a 5% reduction from the final semester grade.

   Any absence in excess of two will result in a 5% reduction in the final semester grade.

   For each absence, there will be an 8% reduction of the "Evaluation of Professional Behavior, Ethics, and Attitudes".

   If the student does not personally notify the supervisor at the clinical site and the instructor before the beginning of the assigned shift there will be an additional 8% reduction in the biweekly and a 5% reduction in the final course grade.
4. **Summer Semester (RTEC 214)**

   Being tardy more than three times per semester will result in a 5% reduction from the final semester grade.

   Each absence will result in a 2% grade reduction for the final semester grade. If more than two absences occur in the semester, an additional 5% for each absence will be deducted from the final semester grade.

   For each absence there will be an 8% reduction of the "Evaluation of Professional Behavior, Ethics, and Attitudes".

   If the student does not personally notify the supervisor at the clinical site and the instructor before the beginning of the assigned shift there will be an additional 8% reduction in the biweekly and a 5% reduction in the final course grade.

5. **Fall and Spring Semester (RTEC 224, 234)**

   Being tardy more than three times per semester will result in a 5% reduction from the final semester grade.

   Following an absence, the student will have the option of making up time by the end of the following week (with the exception of the last week of the semester). Only full days (Monday or Thursday, depending on the rotation) can be made up.

   Each absence that is not made up will result in a 2% grade reduction for the final semester grade. If more than two absences occur in the semester, an additional 5% for each subsequent absence will be deducted from the final semester grade.

   Each absence (whether made up or not) will result in an 8% reduction of the "Evaluation of Professional Behavior, Ethics, and Attitudes".

   If the student does not personally notify the supervisor at the clinical site and the instructor before the beginning of the assigned shift there will be an additional 8% reduction in the rotation evaluation and a 5% reduction in the final semester grade.

C. **Attendance Record**

   Clinical experience hours will be documented on the attendance record located in the clinical module. This record must be submitted on the final day of clinical experience. A final grade will not be awarded until the college clinical instructor receives this documentation. Total clinical experience hours will be filed in the student's permanent record.

   Time that will be considered clinical experience time is limited to the actual clock hours that a student is present at the assigned rotation.

   Time that will not be considered clinical experience time includes such time in which the student is a paid employee of the hospital/facility or time not approved by the clinical coordinator or program director.
D. Leave of Absence

For certain circumstances the program director may approve a leave of absence from clinical experience. Penalty grade reductions on the "Evaluation of Professional Behavior, Ethics, and Attitudes" or final semester grade may be waived if a leave is granted. Examples of circumstances considered for a leave of absence include:

1. Emergency medical situations: Emergency medical situations will be evaluated on an individual basis and must be supported by a physician's statement.

2. Death of an immediate family member: (i.e. sibling, parent, grandparent, spouse, child, parent-in-law, grandparent-in-law).

3. Maternity leave.

Other circumstances will be determined on an individual case basis by the program director. In all cases, the program director will determine the number of eligible leave days.

E. Declared Pregnant Student

According to the Nuclear Regulatory Commission and JRCERT standards, a student must voluntarily declare a pregnancy. Once declared and recognizing the sensitivity of the human fetus to damage by ionizing radiation, the Colorado State Regulations require that fetal exposure during the entire nine-month gestation period be limited so as not to exceed 0.5 rem. In accordance with ALARA (as low as reasonably achieved) limits recommended by the National Council on Radiation Protection (NCRP), the following policy is adopted:

1. No general restriction will be placed on pregnant students.

2. If the student strongly suspects or verifies a pregnancy, she will voluntarily notify the program director in writing. The program director will document the notification in the student's records and notify the clinical coordinator. Until notification is received, the pregnancy will not be acknowledged or acted on.

3. The student will be issued both a collar dosimeter and a total body dosimeter. The total body dosimeter will be called the "fetal dose monitor". This dosimeter will be worn at all times of clinical experience at the waist under any protective apparel that might be worn. The total body dose equivalent, added to the collar dose equivalent (from the period of time of conception to the time the fetal dose monitor became available), shall represent the fetal exposure. The fetal dose monitor and dose equivalent analysis will be provided at the student's expense.

4. The program director will counsel the pregnant student with respect to work habits, use of protective apparel and work assignments. In the event the fetal dose equivalent approaches the maximum dose limit, the student will again be counseled.
5. The pregnant student will be responsible to use protective apparel to keep the fetal radiation exposure within the limits. If the fetal dose equivalent indicates that the 0.5 rem limit has been reached, the student will be removed from the radiation environment. This may require the student to be placed on a leave of absence until delivery.

F. Clinical Supervision of Students

Until the student has:
1. Completed and passed the simulated positioning procedure for a given unit
2. Performed an acceptable procedure in the clinical setting for each exam

All clinical assignments shall be carried out under the DIRECT SUPERVISION of a qualified radiographer.

The parameters of direct supervision are:
1. A qualified radiographer reviews the request for examination in relation to the student's achievement;
2. A qualified radiographer evaluates the condition of the patient in relation to the student's knowledge;
3. A qualified radiographer is present during the conduct of the examination;
4. A qualified radiographer reviews and approves the images.

Once competency has been documented, the student may perform procedures with INDIRECT SUPERVISION.

The parameters of indirect supervision are:
1. A qualified radiographer is immediately available to assist the student regardless of the level of student achievement. ("immediately available" means the qualified radiographer is adjacent to the location where the procedure is taking place).
2. A qualified radiographer reviews and approves the images.

Repeat Images

A qualified radiographer must review any image made by a student to determine if it is of optimal quality. Under no circumstance is a student to repeat an image without direct order from a qualified radiographer. All unsatisfactory images shall be repeated in the presence of a qualified radiographer, regardless of the student's level of competency.

The process of a repeat image is:
1. A qualified radiographer determines the necessity of a repeat image;
2. The student, under DIRECT SUPERVISION, produces another image;
3. The qualified radiographer reviews and approves the image.

Documentation

It is the responsibility of the student to document the registered technologist who reviewed and approved the images.

QUALIFIED RADIOGRAPHER: Credentialed, in good standing, in radiography by the American Registry of Radiologic Technologists.
G. Transportation of Patients
First year students are restricted from transporting patients without the direct supervision of a registered technologist or transporter employed by the facility.

Second year students may transport patients without supervision.

H. Radiation Monitoring
A dosimeter and dosimeter holder will be issued to the student prior to the first clinical day. The dosimeter must be worn at all times when present in a radiation area. Dosimeters are in effective from the 10th of the month, through the 9th of the following month. As required by federal law, exchange requirements must be strictly followed. The dosimeter must be exchanged by the 10th of each month at the clinical coordinator's office. Failure to do so will result in a reduction in the biweekly grade.

The student will be required to pay $4.00 (price subject to change) for each dosimeter that is not returned. Upon termination or graduation from the program the dosimeter and holder must be returned.

The radiation report is posted by the clinical coordinator's office each month. Each student will be issued a code number to check individual radiation dose equivalent accumulations.

I. The Professional Image
A professional image must be maintained while in the clinical setting. The professional image for a radiologic technologist presents a conservative, moderate style.

Professional appearance is a subjective issue and is therefore, open to interpretation. The following information is designed to guide the student in identifying those qualities that characterize the image of a professional radiologic technologist. Please refer any questions or concerns regarding professional appearance to the clinical coordinator.

General Professional Standards:

Personal Hygiene and Appearance:

1. The hair, body, and mouth must be clean and free from offensive odor.
2. Hair may either be worn short or arranged in a controlled manner. Hair must be restrained in such a way that it does not fall into the eyes or face. Hair longer than chin length must be pulled back off the face.
3. Male facial hair may be clean-shaven or neatly trimmed.
4. Fingernails must be clean and neatly manicured. Women may wear clear or pale, neutral nail polish. Artificial nails are prohibited.
5. Subtle personal fragrances may be worn.
6. Females may wear tastefully applied, conservative makeup. Neutral eye, lip, and cheek color may be worn in a shade that compliments the natural skin color.
7. A watch, wedding bands and a maximum of 2 pair small, plain, post-style ear studs may be worn.
8. Clothing must cover all body art.
Female Attire Standard:
Uniform: A white dress or pantsuit must be worn or a white skirt or pants with a white lab coat. A solid colored top may be worn under the uniform or lab coat.
Length: The hem of a dress or skirt must be at least knee length.
Hose/ Socks: White or natural hose may be worn with a dress or skirt uniform. White or natural hose or thin, white crew socks must be worn with pants.
Shoes: White, clean and polished, leather, professional, or athletic shoes must be worn. The shoe must have a closed toe and heel. A lace-up shoe is preferred.

Male Attire Standard:
Uniform: White pants and a white uniform top or lab coat must be worn. A solid colored top may be worn under the uniform or lab coat.
Socks: White crew socks must be worn.
Shoes: White, clean and polished, leather, professional or athletic shoes must be worn. The shoe must have a closed toe and heel. A lace-up shoe is preferred.

Miscellaneous Standards:
1. Nametags must be worn, on the outer garment, at all times.
2. Current dosimeter must be worn, on the outer garment at collar level, at all times.
3. Gum chewing, eating, or drinking in an exam room is prohibited.

J. Clinical Site Parking Policy
Each clinical site provides free student parking. Areas are set aside to make parking convenient for patients and visitors to the clinical facility. It is the policy of the radiology program that students abide by the rules established by the clinical sites. Any student parking in an undesignated area, during a clinical rotation, will be subject to immediate removal from the program. Any student desiring an escort to their car, during a late or evening shift, should request an escort from the security office.

1. St. Mary's Hospital and Medical Center and the Advanced Medical Pavilion
The student will park in the basement section only of the parking garage. When entering the garage, stay to the left until below Level 1. Place the "Mesa State College Student" sign on the dashboard.

2. Veteran's Administration Medical Center
The student will park in the southwest parking lot. When headed east on North Avenue make the first right hand turn after Lincoln Park. Follow the street south for a short way to the parking area.

3. Community Hospital
The student will park in the gravel lot on the corner of 12th street & Orchard Ave.

4. Rocky Mountain Orthopaedics
The student will park behind the building in the north parking lot.
K. Clinical Affiliates of Mesa State College's Radiologic Technology Program

1. **St. Mary's Hospital and Medical Center and Advanced Medical Pavilion**
   2635 North 7th Street, Grand Junction, Colorado
   a. Clinical experience time consistent with typical day or evening shifts.
   b. Provide such emergency health services as are extended to employees injured on the job.
   c. Provide reduced meal prices.

2. **Montrose Memorial Hospital**
   800 South 3rd Street, Montrose, Colorado
   a. Clinical experience time will be consistent with a typical day shift.
   b. A $50 stipend offered for each two-week period of assignment.
   c. Housing is available.
   d. Provide reduced meal prices.

3. **Veteran's Administration Medical Center**
   2121 North Avenue, Grand Junction, Colorado
   a. Clinical experience time will be consistent with a typical day shift.
   b. Provide such emergency health services as are extended to employees, including rights under provision of the Federal Compensation Act for injuries suffered while in performance of their duties in the service of the Veteran's Administration Medical Center.
   c. Performing examinations in Room 2615 is prohibited.

4. **Community Hospital - 2021 North 12th Street, Grand Junction, Colorado**
   a. Clinical experience time will be consistent with a typical day shift.
   b. Provide such emergency health services as are extended to employees injured on the job.

5. **Rocky Mountain Orthopaedics - 627 25.5 Road, Grand Junction, Colorado**
   a. Clinical experience time will be consistent with a typical day shift.

6. **Delta Memorial Hospital - 100 Stafford Lane, Delta, Colorado**
   a. Clinical experience time will be consistent with a typical day shift.
   b. Meal tickets provided at employee cost.

7. **Valley View Hospital - 1906 Blake Avenue, Glenwood Springs, Colorado**
   a. Clinical experience time will be consistent with a typical day shift.
   b. Housing is available.

8. **Glenwood Medical Associates**
   1830 Blake Avenue, Glenwood Springs, Colorado
   a. Clinical experience time will be consistent with a typical day shift.

9. **Grand River Medical Center - 501 Airport Road, Rifle, Colorado**
   a. Clinical experience time will be consistent with a typical day shift.
VIII. CARDIO-PULMONARY RESUSCITATION (CPR) CERTIFICATION

All students must have a current CPR card prior to beginning the first year clinical experience and must maintain valid CPR certification throughout the remainder of the program.

Each student must be certified in a CPR for the Professional Rescuer course approved by the American Heart Association or the American Red Cross. These classes are available through the American Heart Association or the American Red Cross in various localities.

Each student must present a copy of the valid CPR certification card to the Radiologic Technology Program Director prior to beginning clinical education (October 1) in the fall semester.

IX. TUBERCULOSIS TESTING

All students at the clinical education sites must have a yearly tuberculosis test (PPD) performed.

X. PHYSICALS

All students must have a medical physical assessment yearly.

XI. BACKGROUND CHECKS

St. Mary’s Hospital requires background checks on all students using their clinical site. Therefore all students are required to undergo a background check prior to starting clinical at St. Mary’s.
MESA STATE COLLEGE
Nursing and Radiologic Sciences
Radiologic Technology Program

POLICY

Hepatitis B Vaccination

I. Purpose: To provide information and guidelines for Hepatitis B Vaccination. This vaccination is required for admission into the radiologic technology program.

II. General Information

A. Hepatitis B is a common and serious disease that causes acute and chronic inflammation of the liver. It is spread by significant contact with blood, blood products or body secretions of patients who are either acutely or chronically infected with the virus. It may be spread by such contacts as needle sticks, household or sexual contact with Hepatitis B carriers, through hemodialysis, by receiving blood or blood products or concentrates, or by close contact with groups having a high incidence of this disease such as the institutionalized mentally retarded or Alaskan Eskimos.

The annual incidence in the United States of Hepatitis B is approximately 200,000 cases. Seventy-five percent of these patients will have very mild or subclinical disease, twenty-five percent develop jaundice, five percent require hospitalization, and 0.1 percent die of fulminant disease. In the United States, 6-10 percent of infected patients become chronic carriers of the virus. There are estimated to be between 600,000 and 800,000 carriers of the virus in the United States. Approximately one quarter of these will develop chronic hepatitis and about 4,000 die each year from cirrhosis or scarring of the liver. One to two percent of the carriers die from cancer induced in the liver because of Hepatitis B.

B. There is now a safe, highly effective, licensed vaccine for the prevention of Hepatitis B. The vaccine against Hepatitis B, prepared from recombinant yeast cultures, is free of association with human blood or blood products. The vaccine is given in three injections. Following the initial injection one dose is given at one month and the third dose is given at a 6-month interval after the first. There are no known serious, immediate, or long-term reactions to the vaccine. The most likely risks of taking the Hepatitis B vaccine include rash, fever, joint pain and local tenderness. The data is not adequate to reach a conclusion with regards to the vaccine's use in pregnancy, but it is felt to be of very little risk to the fetus. Since infection with Hepatitis B presents a clear risk to both mother and fetus, pregnancy is not felt to be a contraindication for vaccination for those whose risk for the disease is clear. It is contraindicated of hypersensitivity to yeast.

The vaccine would appear to be quite effective with 85-95% of healthy adults developing protective levels of antibody against the virus after 3 doses of the vaccine. The duration of immunity is unknown at present, and the need for booster doses is not yet defined.
XIII. MESA STATE COLLEGE
Nursing and Radiologic Sciences
Radiologic Technology Program

POLICY

Injury/Exposure to Blood and Body Fluids/Infectious Disease

Purpose:
To provide a protocol for students in the Radiologic Technology Program who are injured or exposed to blood and body fluids, which may be the mode of transmission of infectious diseases in clinical settings.

Acute Injury or Blood and Body Fluid Exposure Procedure:
(exposures may occur by needle stick or cut, exposure to body fluids on open or abraded skin, or exposure to mucous membrane via splash to eyes or mouth)

1. Immediately, notify the college clinical instructor (if available) or the affiliate clinical instructor.
2. Be escorted to the emergency room of the clinical facility by the college or affiliate clinical instructor.
3. Comply with the facility's policy regarding student injuries.
4. Complete the clinical facility incident documentation.
5. As soon as possible, report the incident to the Mesa State College Radiologic Technology Program Director (248-1651).
6. As soon as possible, report the incident to the Mesa State College Human Resources Department (248-1820).
7. In any event, notify the MSC Radiologic Technology Program Director and the MSC Human Resources Department by the end of the next business day.
8. Within four days of the incident complete a Worker’s Compensation form in the MSC Human Resources Department.

Exposure to Subsequently Reported Infectious Disease Procedure:
(tuberculosis, hepatitis, varicella)

1. The Mesa State College Radiologic Technology Program's director or clinical coordinator will notify the student of potential exposure to an infectious disease.
2. The student will immediately report the notification of potential exposure to the Mesa State College Human Resources Department (248-1820).
3. The student will complete a Worker’s Compensation form with the MSC Human Resources Department within four days of notification of the potential exposure.
XIV.

MESA STATE COLLEGE
Nursing and Radiologic Sciences
Radiologic Technology Program

POLICY

Confidentiality of Record/Patient Information

1. PURPOSE

To provide guidelines and an understanding of the rights of the patient to complete privacy regarding the patient’s medical condition and medical records, or statements made to the student radiologic technologist.

2. POLICY

“The Radiologic Technologist respects confidences entrusted in the course of professional practice, respects the patient’s right to privacy and reveals confidential information only as required by law or to protect the welfare of the individual or the community”. (The American Registry of Radiologic Technologists and the American Society of Radiologic Technologists Code of Ethics)

The medical record (including radiographs and all diagnostic images produced in any medium) is the property of the hospital and is maintained for the benefit of the patient, the medical staff and the hospital. It is the health care team’s responsibility to safeguard both the record and its informational content against loss, defacement, tampering and from use by unauthorized individuals.

Under no circumstance may a student remove any part of the patient’s medical record without direct authorization of the clinical instructor or department supervisor. Access to any medical record (including computer information) is allowed only when the student is directly involved with a patient’s care.

The only medical information to be discussed with the patient is that which is needed to perform the examination adequately and completely. With the exception of a specific educational setting, information obtained during an exam is to be discussed only with the health care workers involved directly in the procedure.

Medical information is to be discussed with other health care workers in a protected work area only. Any discussion regarding a patient, procedure or case must not take place outside in unprotected area such as elevators, hallways, lounges and cafeteria; or away from the hospital. Discussion is allowed in a protected, educational environment such as film critique or the radiologic science classroom and lab.

A student’s family or friends are not exempt from the above statements.

I have read and understand the above policy. In addition, I have heard the lecture regarding patient confidentiality presented in RTEC 120, Introduction to Radiologic Technology and Patient Care. I understand and agree to comply with the confidentiality requirements set by the Radiologic Technology Program at Mesa State College. If I should break patient confidentiality, I understand that I may be suspended or removed from the program.

Student Signature

Instructor

Date
MESA STATE COLLEGE
Nursing and Radiologic Sciences
Radiologic Technology Program

POLICY

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Student Signature ___________________________ Instructor ___________________________ Date ___________________________
XV. JRCERT STANDARDS

The Joint Review Committee on Education in Radiologic Technology accredits the Radiologic Technology Program at Mesa State College. We adhere to the high standards and policies set by the JRCERT with regard to didactic and clinical education. Any violation of the standards will not be permitted. Complaints of violation will be investigated to resolution. A copy of the JRCERT Standards for an Accredited Program in Radiologic Sciences is located in the Program Director’s office.

Any student has the right to access the JRCERT regarding non-compliance of the Standards by the Mesa State College Radiologic Technology Program. Send signed complaints or allegations to:

The JRCERT
20 N. Wacker Drive, Suite 900
Chicago, IL 60606

XVI. PROFESSIONAL CONDUCT

Both academically and clinically, the expectation is for the student to demonstrate honesty. Cheating or indiscretion in profession or social conduct may result in dismissal. If the student appears mentally, physically, or socially disqualified for meeting the requirements to be a professional practitioner, they may be considered for dismissal.

As per the Mesa State College Student Handbook, the student must comply with state and federal laws concerning dangerous drugs. Offenses may result in prosecution by civil authorities and disciplinary action by the college. The student is responsible for coming to the clinical areas mentally alert and physically capable to care for assigned patients. If an instructor suspects that a student has taken any mind-altering substance that may interfere with safe clinical performance, the student will be asked to leave the clinical area. This will be an unexcused absence. A follow-up conference will be scheduled with the student, Program Director, and Chair of the Department of Nursing and Radiologic Sciences.

Code of Conduct: Refer to Mesa State College Student Handbook.

XVII. PROGRESSION and DUE PROCESS

To remain in the program, a minimum 2.0 grade point average (each semester) must be maintained. The following standards will be used for all RTEC courses.

- 100 - 93 = A (4.0)
- 92 - 84 = B (3.0)
- 83 - 75 = C (2.0)
- 74 or below = F

Grades for all required general education credits and related course work must be a "C" or higher to fulfill graduation requirements. A grade of "F" in RTEC coursework could result in removal of the student from the program.

A student removed from the program for either didactic or clinical standing may:

1. Apply for re-entry into the program by contacting the program director, filing the necessary application, and verifying remedial action.
2. Grieve a didactic or clinical evaluation by following the due process policy and procedure as outlined in the "Mesa State College Student Handbook".
MESA STATE COLLEGE
Department of Nursing and Radiologic Sciences

POLICY

Departmental Due Process Timeline

1. For all grievances, please consult the Mesa State College Student Handbook for the policy regarding Student Academic Grievance and Appeal Process.

2. The timeline established by the Department for grievances is:

   a. The student having a specific conflict should first discuss the matter with the faculty member involved. After presenting the problem, the faculty member should respond within 5 days with explanation of the decision.

   b. If the student does not believe the conflict has been resolved, an appointment should be made with the program chair. Within 10 days a response should be made with explanation of the decision.

   c. If the student does not believe the conflict has been resolved on that level, an appointment should be made with the department head. Within 10 days of that conference, a response should be made with an explanation of the decision.

   d. If the student still does not believe that the conflict has been resolved, the student should be referred to the college Student Handbook for further steps to be taken.
XVIII. QUALIFICATIONS FOR CANDIDACY IN CERTIFICATION

Students beginning the program of study at Mesa State College must be aware of the regulations presented by the American Registry of Radiologic Technologists with regard to felony or misdemeanor convictions.

"One issue addressed by the Rules of Ethics is conviction of a crime; including felony, gross misdemeanor, or misdemeanor, with the sole exception of speeding and parking violations. All alcohol and/or drug related violations must be reported. Conviction as used in this provision includes a criminal proceeding where a finding or verdict of guilt is made or returned, or a criminal proceeding where the individual enters a plea of guilty or nolo contendere".

"All potential violations are investigated by the ARRT in order to determine eligibility. Registered Technologists and applicants who violate the Rules of Ethics must provide the ARRT with a written explanation, including court documentation of the charges, with the application for examination or renewal. The court documentation must verify the nature of the conviction, the nature of the sentence imposed by the courts, and the current status of the sentence. If an applicant is convicted between the time of application and the examination administration date, it is the applicant's responsibility to inform the ARRT immediately."

"Individuals who have violated the Rules of Ethics may request a pre-application review of the violation in order to obtain a ruling of the impact on their eligibility for ARRT examination. The individual may submit a pre-application form at any time, either before or after entry into an approved educational program. This review may avoid delays in processing examination applications that are submitted at the time of graduation."

*Taken from the American Registry of Radiologic Technologists Certification Handbook

XIX. FACULTY

Program Director
Clinical Coordinator
Clinical Instructor

Bette Schans, PhD, RT(R)
Patti Ward, MEd, RT(R)
Donna Slothower, RT(R)
Faculty of the Radiologic Technology Program welcome you. The material in this handbook will help you understand the guidelines and expectations for professional conduct while in the program. This educational program will require a great deal of effort and commitment from you as you seek to achieve your goal of becoming an excellent radiographer.

Faculty are available to help you achieve this goal. They can help by answering questions or assisting you in addressing problems directly related to your academic pursuit.

WELCOME TO THE MESA STATE COLLEGE
RADIOLOGIC TECHNOLOGY PROGRAM!

I have read and understood the Mesa State College Radiologic Technology Program policies as stated in this student handbook. I agree to adhere to the policies stated in the handbook.

________________________________________  __________________________
Student Signature                           Date
How to Use This Catalog

The table of contents lists each section of the catalog and the information contained within each section. For information on a specific topic, refer to the table of contents or the subject index in the back of the catalog. For additional information, contact the College toll free at 1-800-982-MESA or access the website at www.mesastate.edu.

This catalog is divided into several sections in the following order:

General Information about Mesa State College
Included is a brief list of degrees and programs offered, admission requirements, registration procedures, expenses, financial aid, student services, academic regulations and honors, and graduation requirements.

Instructional Programs
Academic programs offered by the College are listed separately for each of the four schools, followed by (1) the graduate degree, (2) the baccalaureate degrees, and (3) the associate degrees and certificates offered. Sub-sections are in alphabetical order, with the general requirements for earning each degree or certificate included. The next sub-sections are (4) Teacher Licensure and (5) electives and/or minors.

Course Descriptions
A brief description of each course at Mesa State College is listed alphabetically by prefix. Class schedules are published before each semester and are available from the Office of the Registrar. Not all classes described in this catalog are offered every semester or every year.

Mesa State College Personnel
The administrative officers, support personnel, and faculty are listed.

Index
This is the catalog index.

Policy Statement
The programs, policies, statements, and procedures contained in this catalog are subject to change by the College without prior notice. Mesa State College reserves the right to, at any time, withdraw courses or modify the rules, calendar, curriculum, graduation procedures, and any other requirements affecting students. While the information contained in this catalog is current and correct as possible at the time of printing, students are advised to check with appropriate College officials and current program sheets for up-to-date information.

Mesa State College Role and Mission
The threefold mission of the College is in accord with the statement of the Colorado Legislature C.R.S. 23-53-101:

There is hereby established a College at Grand Junction, to be known as Mesa State College, which shall be a general baccalaureate and specialized graduate institution with moderately selective admissions. Mesa State College shall offer liberal arts and sciences programs and a limited number of professional, technical, and graduate programs. Mesa State College shall also maintain a community college role and mission, including vocational and technical programs. Mesa State College shall receive resident credit for two-year course offerings in its commission-approved service area.

The Mesa State College community aspires to provide an environment which promotes a wellness lifestyle free of addictive behaviors. It shall be a goal of Mesa State College to maintain a healthy campus atmosphere conducive to learning and personal safety.

Background on Mesa State College
Mesa State College was founded in 1925 as Grand Junction State Junior College and on July 1, 1974, was authorized to offer baccalaureate degree programs as an institution under the State Colleges in Colorado. As of July 1, 1996, Mesa State was authorized to offer a program of courses leading to a business administration graduate degree. Mesa State may offer other graduate programs in the future. College enrollment, now over 5,400, provides a favorable student-faculty ratio and a high-quality learning environment.

Mesa State College is a democratic center of learning dedicated to the improvement of human capability. The College extends its services to anyone regardless of age, race, color, national origin, religion, sex, disability, veteran status, or sexual
1.2 Are the program’s goals measurable?

**Explanation:**

The JRCERT defines goals as tasks or direction statements adopted by a program that include the purpose or intent toward which the program’s efforts are directed. A program’s goals are a more specific expression of the program’s intended student learning outcomes. The goals should be written using behavioral terms and should address the cognitive, affective, and psychomotor domains. They must be measurable, preferably through use of more than one measurement tool.

**Rationale:**

Goals provide direction to the program in focusing on educational efforts important to achieving its mission and provide a mechanism for determining if the program is accomplishing its mission.

**Compliance May Be Demonstrated by:**

Providing a copy of publications that contain the program’s goals.

**Possible Site Assessment Methods:**

- Review of published program materials
- Review of assessment plan

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</tbody>
</table>

Program goals are listed in the program information sheet, in the program brochure, on the program’s website and in the student handbook, page 3 (exhibit 1.1). The program goals are measurable both in quantitative and qualitative terms (exhibit 1.2). The program goals were updated in January, 2006 to reflect assessment of student learning outcomes.
1.2 Are the program’s goals measurable?

Explanation:
The JRCERT defines goals as tasks or direction statements adopted by a program that include the purpose or intent toward which the program’s efforts are directed. A program’s goals are a more specific expression of the program’s intended student learning outcomes. The goals should be written using behavioral terms and should address the cognitive, affective, and psychomotor domains. They must be measurable, preferably through use of more than one measurement tool.

Rationale:
Goals provide direction to the program in focusing on educational efforts important to achieving its mission and provide a mechanism for determining if the program is accomplishing its mission.

Compliance May Be Demonstrated by:
Providing a copy of publications that contain the program’s goals.

Possible Site Assessment Methods:
- Review of published program materials
- Review of assessment plan

<table>
<thead>
<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
<td>X</td>
</tr>
</tbody>
</table>

Program goals are listed in the program information sheet, in the program brochure, on the program’s website and in the student handbook, page 3 (exhibit 1.1). The program goals are measurable both in quantitative and qualitative terms (exhibit 1.2). The program goals were updated in January, 2006 to reflect assessment of student learning outcomes.
1.3 Are the **mission statement** and **goals** readily available to students, faculty, administrators, and the general public?

**Explanation:**

The program can make its mission statement and goals available in a variety of ways, including program publications and/or a Web site.

**Rationale:**

Program accountability is enhanced by making its mission statement and goals available to the program’s communities of interest.

**Compliance May Be Demonstrated by:**

- Describing how the program makes its mission statement and goals available to each of these communities of interest.
- Providing a copy of publications that contain the program’s mission statement and goals. If the program makes its mission statement and goals available via a Web site, the program must provide the Web page address in its self-study report.

**Possible Site Assessment Methods:**

- Review of published program materials
- Interviews with administrative personnel
- Interviews with faculty
- Interviews with students

<table>
<thead>
<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective? (for site visitor use only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
<td>Yes</td>
</tr>
</tbody>
</table>

The Radiologic Technology Program at Mesa State College makes the mission statement and goals available to students through the program student handbook. We also have a program brochure and program information packet that is distributed to the general public at job fairs and upon request. Additionally, the program mission statement and goals are listed on the program web page at [www.mesastate.edu](http://www.mesastate.edu). The mission statement and goals are reviewed by faculty on a yearly basis. All clinical instructors have a copy of the student handbook. The advisory committee is given a copy of the mission statement and goals if revision has taken place. The department head also has a copy of the student handbook and program information packet.

The mission statement and goals are discussed with the students in the first semester of the program. The goals are listed in the student handbook and each student turns in a signature page stating that he/she has knowledge of the contents of the handbook.
1.4 Has the program developed and implemented an assessment plan that identifies benchmarks for the measurement of outcomes in relation to its mission statement and goals?

- program completion rate;
- clinical performance and clinical competence;
- problem solving skills and critical thinking;
- communication skills;
- professional development and growth;
- graduate satisfaction; and
- employer satisfaction.

Explanation:

The program should have an ongoing, systematic process to assess its outcomes. The assessment plan should incorporate the program's goals, supported by specific desired outcomes. An outcome, as defined by the JRCERT, is the expected end result of student learning. A benchmark must be established for each expected outcome to provide a standard against which the actual outcome can be evaluated. The assessment plan should also identify tools to be used and timeframes for data collection and analysis. The person and/or group responsible for the analysis should be identified.

Example:

Goal: The program will graduate students with entry-level employment skills.

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>Measurement Tool</th>
<th>Benchmark</th>
<th>Time Frame</th>
<th>Person/Group Responsible</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Graduates will be clinically competent.</td>
<td>Clinical Competency Evaluations</td>
<td>Graduates will have an average score of 80% or better.</td>
<td>Annually at Graduation</td>
<td>Clinical Coordinator</td>
</tr>
<tr>
<td>2. Graduates will be adequately prepared to perform as entry-level practitioners.</td>
<td>Employer Surveys</td>
<td>Ninety percent of returned surveys will indicate adequate preparation.</td>
<td>Biannually in September</td>
<td>Advisory Committee</td>
</tr>
<tr>
<td>3. Graduates will pass the certification and/or licensure examination.</td>
<td>Certification/licensure Examination</td>
<td>Ninety percent of those taking the exam will pass at first attempt.</td>
<td>Biannually in January</td>
<td></td>
</tr>
</tbody>
</table>
Program Faculty

4. Graduates will indicate that they were adequately prepared to perform as entry-level practitioners.
   Graduate Surveys
   Ninety percent of returned surveys will indicate adequate preparation.
   Biannually in August
   Advisory Committee

Rationale:
The use of an assessment plan assures that the program systematically gathers relevant data to evaluate its effectiveness.

Compliance May Be Demonstrated by:
Providing a copy of the program’s assessment plan.

Possible Site Assessment Methods:
- Review of assessment tools
- Review of outcome data to support the assessment plan
- Interviews with faculty

<table>
<thead>
<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td></td>
<td>Yes</td>
</tr>
</tbody>
</table>

Please see the two most recent assessment plans as well as the plan developed for 2005 in exhibit 1.4. All assessment plans from the last eight years will be available for viewing by the site visitors. A new assessment plan was developed in fall, 2005 to reflect assessment of student learning outcomes. Please see the new assessment plan, approved by the JRC, in exhibit 1.4.
Mission Statement:

The mission of the Radiologic Technology Program at Mesa State College is to facilitate each student's learning to become the best radiologic technologist possible through development of technical and professional skills as well as behaviors, attitudes, and ethics desired by patients, employers, and the community served.
1. Students will utilize broad-based knowledge and skills to become competent entry-level radiographers.

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>Measurement Tool</th>
<th>Target</th>
<th>Time Frame</th>
<th>Person/Group Responsible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students will produce quality radiographs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Positioning</td>
<td>Positioning evaluations in lab.</td>
<td>1st semester students will average 85% on positioning lab evaluations</td>
<td>RTEC 121 Fall</td>
<td>Course Instructor</td>
</tr>
<tr>
<td></td>
<td>Clinical image evaluations question #</td>
<td>First year students will average 8 or greater for correct positioning on image evaluations at clinical.</td>
<td>RTEC 114 Fall</td>
<td>Clinical Instructor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Second year students will average 9 or greater for correct positioning on image evaluations at clinical.</td>
<td>RTEC 224 Spring</td>
<td>Clinical Instructor</td>
</tr>
<tr>
<td>• Technique</td>
<td>Clinical Competency evaluations question #</td>
<td>1st year students will average 8 or greater in knowing the correct technique to use for an exam.</td>
<td>RTEC 124 Fall</td>
<td>Clinical Instructor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2nd year students will average 9 or higher in knowing the correct technique to use for an exam.</td>
<td>RTEC 234 Spring</td>
<td>Clinical Instructor</td>
</tr>
<tr>
<td>• Radiation Safety</td>
<td>Image Evaluation-Computed Radiography exposure index question #</td>
<td>Students will average 85% in obtaining the correct exposure index on a CR image</td>
<td>RTEC 214 Summer (start 2006)</td>
<td>Clinical Instructor</td>
</tr>
<tr>
<td>Students will evaluate radiographic images for quality factors and appropriate positioning.</td>
<td>Image critique evaluations</td>
<td>Students will score 90% or better on image critique evaluations in RTEC 255</td>
<td>Fall</td>
<td>Course Instructor</td>
</tr>
</tbody>
</table>
1. Students will utilize broad-based knowledge and skills to become competent entry-level radiographers.

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>Measurement Tool</th>
<th>Target</th>
<th>GOAL MET</th>
<th>ACTION PLAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students will produce quality radiographs.</td>
<td>- Positioning</td>
<td>1st semester students will average 85% on positioning lab evaluations</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Positioning evaluations in lab.</td>
<td>First year students will average 8 or greater for correct positioning on image evaluations at clinical.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clinical image evaluations question #</td>
<td>Second year students will average 9 or greater for correct positioning on image evaluations at clinical.</td>
<td>Average was 9.5</td>
<td>Evaluate again next year</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students will produce quality radiographs.</td>
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</tr>
<tr>
<td></td>
<td>Clinical Competency evaluations question #</td>
<td>2nd year students will average 9 or higher in knowing the correct technique to use for an exam.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students will produce quality radiographs.</td>
<td>- Radiation Safety</td>
<td>Students will average 85% in obtaining the correct exposure index on a CR image</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Image Evaluation-Computed Radiography exposure index question #</td>
<td>Students will score 90% or better on image critique evaluations in RTEC 255</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2. Students will demonstrate skills in effective thinking and problem solving; communication, and life long learning.

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>Measurement Tool</th>
<th>Target</th>
<th>Time Frame</th>
<th>Person/Group Responsible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students will demonstrate effective communication skills in the classroom.</td>
<td>Communication exercise in RTEC 120</td>
<td>Students will average 90% or better on the exercise.</td>
<td>Fall</td>
<td>Course Instructor</td>
</tr>
<tr>
<td></td>
<td>Report on research paper.</td>
<td>Students will average 85% on verbal report of research.</td>
<td>RTEC 251 Fall</td>
<td>Course Instructor</td>
</tr>
<tr>
<td>Students will demonstrate age appropriate patient communication in the clinical setting</td>
<td>Communication rubric for student procedures.</td>
<td>Students will average 85% on the rubric in the first year.</td>
<td>RTEC 124 Spring</td>
<td>Clinical Instructor</td>
</tr>
<tr>
<td></td>
<td>Problem solving rubric for role-playing of trauma or mobile situation.</td>
<td>Students will average 90% on the rubric in the second year.</td>
<td>RTEC 224 Fall</td>
<td>Clinical Instructor</td>
</tr>
<tr>
<td>Students will adapt to non-routine clinical situations.</td>
<td>Competency evaluation in trauma radiography.</td>
<td>Students will average 85% on rubric in RTEC 132</td>
<td>Spring</td>
<td>Course Instructor</td>
</tr>
<tr>
<td></td>
<td>Quiz covering material on pediatrics and geriatrics in RTEC 132.</td>
<td>Students will average 90% on a competency evaluation of trauma c-spine, trauma hip, or trauma extremity.</td>
<td>Yearly</td>
<td>Clinical Instructors</td>
</tr>
<tr>
<td>Students will identify needs for age-specific patient care and comfort.</td>
<td></td>
<td>Students will average 90% in quiz.</td>
<td>RTEC 132 Spring</td>
<td>Course Instructor</td>
</tr>
</tbody>
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2. Students will demonstrate skills in effective thinking and problem solving; communication, and life long learning.

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<td>Students will average 90% or better on the exercise.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Report on research paper.</td>
<td>Students will average 85% on verbal report of research.</td>
<td>Average 86.7</td>
<td>Work with students more to do a more professional presentation.</td>
</tr>
<tr>
<td>Students will demonstrate age appropriate patient communication in the clinical setting</td>
<td>Communication rubric for student procedures.</td>
<td>Students will average 85% on the rubric in the first year.</td>
<td></td>
<td></td>
</tr>
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<td></td>
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<td>Students will average 90% in quiz.</td>
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</tbody>
</table>
Mesa State College  
Assessment Plan 2005-2006

3. Students will demonstrate value-based behaviors as the foundation for professional practice.

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>Measurement Tool</th>
<th>Target</th>
<th>Time Frame</th>
<th>Person/Group Responsible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students will demonstrate professionalism in the clinical setting.</td>
<td>Professional attitudes, behaviors and ethics evaluation Questions 3 and 7</td>
<td>Students will average 90% on the evaluation in the area of teamwork and initiative.</td>
<td>RTEC 124 Spring</td>
<td>Clinical Instructor</td>
</tr>
<tr>
<td>Students will demonstrate professionalism in the clinical setting.</td>
<td>Professional attitudes, behaviors and ethics evaluation Questions 1 and 4</td>
<td>Students will average 90% on the evaluation in the area of involvement and accountability.</td>
<td>RTEC 224 Fall</td>
<td>Clinical Instructor</td>
</tr>
<tr>
<td>Students will demonstrate cognitive knowledge of ethics</td>
<td>Ethics test in RTEC 120</td>
<td>Students will average 85% on the ethics test.</td>
<td>RTEC 120 Fall</td>
<td>Course Instructor</td>
</tr>
<tr>
<td>Graduates will continue membership in professional radiologic science organizations.</td>
<td>Exit Survey</td>
<td>50% of graduating students will express a desire to join or maintain membership in professional organizations.</td>
<td>RTEC 261 Spring</td>
<td>Program Director</td>
</tr>
</tbody>
</table>
3. Students will demonstrate value-based behaviors as the foundation for professional practice.

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>Measurement Tool</th>
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<th>ACTION PLAN</th>
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<tbody>
<tr>
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<td></td>
<td></td>
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<td></td>
<td></td>
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<td></td>
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<td></td>
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</tr>
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</tr>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graduates will continue membership in professional radiologic science organizations.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
4. The program will provide competent, qualified technologists to the community.

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>Measurement Tool</th>
<th>Target</th>
<th>Time Frame</th>
<th>Person/Group Responsible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students will graduate</td>
<td>Program completion rates</td>
<td>There will be an average of 80% retention of students over a five-year period.</td>
<td>Yearly</td>
<td>Program Director</td>
</tr>
<tr>
<td>Graduates will pass the ARRT certification examination</td>
<td>ARRT certification exam results</td>
<td>95% of graduates will pass the ARRT exam.</td>
<td>Yearly</td>
<td>Program Director</td>
</tr>
<tr>
<td>Graduates will be employed.</td>
<td>Graduate survey</td>
<td>95% of graduates will be employed within six months of graduation.</td>
<td>Yearly</td>
<td>Program Director</td>
</tr>
<tr>
<td>Graduates will be productive workers.</td>
<td>Employer surveys</td>
<td>90% of employers responding to the survey will be satisfied with the graduate's work skills.</td>
<td>Yearly</td>
<td>Program Director</td>
</tr>
<tr>
<td></td>
<td>Graduate survey</td>
<td>90% of graduates responding to the survey will be satisfied with the amount of clinical experience received.</td>
<td>Yearly</td>
<td>Program Director</td>
</tr>
</tbody>
</table>
4. The program will provide competent, qualified technologists to the community.

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>Measurement Tool</th>
<th>Target</th>
<th>GOAL MET</th>
<th>ACTION PLAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students will graduate</td>
<td>Program completion rates</td>
<td>There will be an average of 80% retention of students over a five-year period.</td>
<td>100% Retention for 2005 graduates</td>
<td>Continue with methods of application and instruction in the two year program.</td>
</tr>
<tr>
<td>Graduates will pass the ARRT certification examination</td>
<td>ARRT certification exam results</td>
<td>95% of graduates will pass the ARRT exam.</td>
<td>100% pass with average of 89.7</td>
<td>Continue with review for registry.</td>
</tr>
<tr>
<td>Graduates will be employed.</td>
<td>Graduate survey</td>
<td>95% of graduates will be employed within six months of graduation.</td>
<td>100% employed</td>
<td>Not hard to accomplish with the shortage.</td>
</tr>
<tr>
<td>Graduates will be productive workers.</td>
<td>Employer surveys</td>
<td>90% of employers responding to the survey will be satisfied with the graduate's work skills.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Graduate survey</td>
<td>90% of graduates responding to the survey will be satisfied with the amount of clinical experience received.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Mission Statement:
The program will graduate a student who is prepared with the entry-level skills of a radiologic technologist.

### Goal 1:
Utilize knowledge from liberal education courses as the base for radiologic technology education.

<table>
<thead>
<tr>
<th>Expected Outcomes</th>
<th>Measurement tool</th>
<th>Result</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>85% of students will agree that general education courses were beneficial for professional practice.</td>
<td>Exit surveys</td>
<td>90%</td>
<td></td>
</tr>
<tr>
<td>85% of graduates will agree that general education courses were beneficial for professional practice.</td>
<td>Graduate surveys (biannual)</td>
<td>100%</td>
<td></td>
</tr>
</tbody>
</table>

### Goal 2:
Ensure the utilization of broad-based knowledge and skills as a requisite for the competent entry-level technologist.

<table>
<thead>
<tr>
<th>Students will score at least 75% on final exit examination</th>
<th>Exit examination – simulate 200 question registry exam based on scaled score</th>
<th>One scored a 74%; all others scored higher than 75%</th>
<th>Continue to work with students who have difficulty on exams.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second year students will average 90% on clinical competencies</td>
<td>Procedure evaluation forms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>First year students will score an average of 85% on required image evaluations</td>
<td>Image evaluation forms</td>
<td>89%</td>
<td></td>
</tr>
<tr>
<td>Second year students will score an average of 90% on required image evaluations</td>
<td>Image evaluation forms</td>
<td>92%</td>
<td></td>
</tr>
<tr>
<td>90% pass rate for first-time examinees of those graduates taking the registry.</td>
<td>ARRT exam results</td>
<td>100%</td>
<td></td>
</tr>
</tbody>
</table>
### Goal 2 Continued

<table>
<thead>
<tr>
<th>Expected Outcomes</th>
<th>Measurement Tools</th>
<th>Result</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>75% of students starting the program will complete.</td>
<td>Program completion rates</td>
<td>100%</td>
<td>(one dropped, one added)</td>
</tr>
<tr>
<td>85% of employers will rate graduates as prepared for working as an entry-level technologist.</td>
<td>Employers surveys (biannually)</td>
<td>80%</td>
<td>discuss employer expectations with advisory members</td>
</tr>
<tr>
<td>85% of graduates will report that the program prepared them to perform as a competent entry-level technologist.</td>
<td>Graduate surveys (biannually)</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>85% of graduates will be employed within six months of graduation.</td>
<td>Graduate surveys</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>90% of employers will agree that graduates were prepared for trauma radiography</td>
<td>Employer surveys</td>
<td>91%</td>
<td></td>
</tr>
<tr>
<td>85% of graduates will report that they were prepared to perform trauma radiography.</td>
<td>Graduate surveys (biannually)</td>
<td>83%</td>
<td>See comments below.</td>
</tr>
<tr>
<td>90% of employers will agree that graduates were prepared for surgical radiography</td>
<td>Employer surveys</td>
<td>91%</td>
<td></td>
</tr>
<tr>
<td>85% of graduates will report that they were prepared to perform surgical radiography.</td>
<td>Graduate Surveys</td>
<td>75%</td>
<td>While employers agree that graduates are prepared, the grads do not. We will investigate ways to prepare them further.</td>
</tr>
</tbody>
</table>
Goal 3: Facilitate development of applied skills in effective thinking, and problem solving; and life-long radiography

Expected Outcomes | Measurement Tools | Result | Action
--- | --- | --- | ---
Students will average 85% or better on film critique in RTEC 255 and 265 | Film critique evaluation form | 93% | 
90% of graduating students will agree that the program provided them with the critical thinking and problem-solving skills needed to function as a entry-level technologist | Second-year student survey | 100% | 
90% of employers are satisfied with graduates problem-solving abilities | Employer survey | 100% | 
At least 5 students per year will participate in professional society activities | Participation in essay, exhibit and student bowl competition | 16 participated | 3rd in ACERT bowl 1st and 2nd in poster CSRT
50% of graduating students will express a desire to join or maintain membership in professional organizations | Exit survey | 75% | 
75% of students will answer in the affirmative to continuing education | Exit survey | 85% | 
40% of all graduates will continue their education or advance to other modalities in the radiologic sciences | Graduate surveys | 54% |
**Goal 4**

<table>
<thead>
<tr>
<th>Expected Outcomes</th>
<th>Measurement Tools</th>
<th>Result</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>There will be a statistically significant difference in ethical reasoning scores on a program specific survey between students entering and exiting the program.</td>
<td>Ethical reasoning survey</td>
<td>not enough participation</td>
<td>will measure in other ways next year</td>
</tr>
<tr>
<td>Students will receive 85% or better on test on ethics in RTEC 120.</td>
<td>Grade average on test</td>
<td>89%</td>
<td></td>
</tr>
<tr>
<td>Students will average 90% or better on student clinical biweekly evaluations over a two-year time period.</td>
<td>Biweekly evaluation</td>
<td>92%</td>
<td></td>
</tr>
<tr>
<td>85% of clinical sites will score &gt;4.0 of 5 on question, &quot;The staff at this site encouraged me to follow the Professional Code of ethics&quot;.</td>
<td>Clinical site evaluation</td>
<td>55%</td>
<td>Discuss results with program advisory committee</td>
</tr>
<tr>
<td>85% of graduates will be rated as average or above in demonstrating professional attitudes, behaviors, and ethics.</td>
<td>Employer Surveys</td>
<td>100%</td>
<td></td>
</tr>
</tbody>
</table>
Mission Statement: The program will graduate a student who is prepared with the entry-level skills of a radiologic technologist.

<table>
<thead>
<tr>
<th>Goal 1:</th>
<th>Expected Outcomes</th>
<th>Measurement tool</th>
<th>Result</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate a student who has integrated general education courses with radiologic technology courses</td>
<td>85% of students will agree that general education courses were beneficial for professional practice.</td>
<td>Exit surveys</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>85% of graduates will agree that general education courses were beneficial for professional practice.</td>
<td>Graduate surveys (biannual)</td>
<td>100%</td>
<td></td>
</tr>
</tbody>
</table>

Goal 2:

<table>
<thead>
<tr>
<th>Expected Outcomes</th>
<th>Measurement tool</th>
<th>Result</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate a student with the knowledge and skills of an entry-level radiologic technologist</td>
<td>Students will score at least 75% on final exit examination</td>
<td>Exit examination - simulate 200 question registry exam based on scaled score</td>
<td>86.5%</td>
</tr>
<tr>
<td>Second year students will average 90% on clinical competencies</td>
<td>Procedure evaluation forms</td>
<td>94%</td>
<td></td>
</tr>
<tr>
<td>90% pass rate for first-time examinees of those graduates taking the registry.</td>
<td>ARRT exam results</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>75% of students starting the program will complete.</td>
<td>Program completion rates</td>
<td>78%</td>
<td></td>
</tr>
</tbody>
</table>
### Goal 2 Continued

<table>
<thead>
<tr>
<th>Expected Outcomes</th>
<th>Measurement Tools</th>
<th>Result</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>85% short term completion over first five months of the program. Completing fall semester of the first year</td>
<td>Number of students entering fall semester of the first year vs. completing spring semester of first year</td>
<td>94%</td>
<td></td>
</tr>
<tr>
<td>75% long-term completion for duration of the program.</td>
<td>Number of students completing spring semester of first year vs. starting second year.</td>
<td>78%</td>
<td>Screen applicants better.</td>
</tr>
<tr>
<td>75% of graduates will be employed within six months of graduation.</td>
<td>Graduate surveys</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>90% of employers will agree that graduates were prepared for trauma radiography</td>
<td>Employer surveys</td>
<td>91%</td>
<td></td>
</tr>
<tr>
<td>85% of graduates will report that they were prepared to perform trauma radiography.</td>
<td>Graduate surveys (biannually)</td>
<td>83%</td>
<td>See comments below.</td>
</tr>
<tr>
<td>90% of employers will agree that graduates were prepared for surgical radiography</td>
<td>Employer surveys</td>
<td>91%</td>
<td></td>
</tr>
<tr>
<td>85% of graduates will report that they were prepared to perform surgical radiography.</td>
<td>Graduate Surveys</td>
<td>75%</td>
<td>While employers agree that graduates are prepared, the grads do not. We will investigate ways to prepare them further.</td>
</tr>
</tbody>
</table>
### MESA STATE COLLEGE
Assessment Plan 2004
Page Three

**Goal 3:**
To facilitate development of applied skills in effective communication, critical thinking, and problem solving in the practice of radiography

<table>
<thead>
<tr>
<th>Expected Outcomes</th>
<th>Measurement Tools</th>
<th>Result</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students will average 85% or better on film critique in RTEC 255 and 265</td>
<td>Film critique evaluation form</td>
<td>88.5%</td>
<td>Improve scores through more image presentations</td>
</tr>
<tr>
<td>Students will score 90% or better on average biweekly evaluation with regard to communication skills. (over 2 year period)</td>
<td>Biweekly evaluation</td>
<td>93%</td>
<td></td>
</tr>
<tr>
<td>90% of employers are satisfied with graduates problem-solving abilities</td>
<td>Employer survey</td>
<td>92%</td>
<td></td>
</tr>
<tr>
<td>At least 5 students per year will participate in professional society activities</td>
<td>Attendance at professional meetings</td>
<td>16 students participated in a student knowledge bowl at the state meeting</td>
<td></td>
</tr>
<tr>
<td>50% of graduating students will express a desire to join or maintain membership in professional organizations</td>
<td>Exit survey</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>50% of graduates will belong to a professional organization</td>
<td>Graduate survey</td>
<td>83%</td>
<td></td>
</tr>
<tr>
<td>75% of students will answer in the affirmative to continuing education</td>
<td>Exit survey</td>
<td>89%</td>
<td></td>
</tr>
<tr>
<td>50% of all graduates will advance to other modalities in the radiologic sciences</td>
<td>Graduate surveys</td>
<td>91%</td>
<td>Survey continuing education only next time.</td>
</tr>
</tbody>
</table>
**MESA STATE COLLEGE**  
**Assessment Plan 2004**  
**Page Four**

<table>
<thead>
<tr>
<th>Goal 4</th>
<th>Expected Outcomes</th>
<th>Measurement Tools</th>
<th>Result</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>To facilitate development of professional attitudes, behaviors and ethics.</strong></td>
<td>There will be a statistically significant difference of ethical reasoning scores between students entering and exiting the program.</td>
<td>Ethical reasoning survey</td>
<td>$p &gt; .05$ no significant difference</td>
<td>Place stronger emphasis on post conventional reasoning or determine if rule-keeping ethical reasoning is acceptable</td>
</tr>
<tr>
<td></td>
<td>Students will receive 85% or better on test on ethics in RTEC 120.</td>
<td>Grade average on test</td>
<td>93%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Students will average 90% or better on student clinical biweekly evaluations over a two-year time period.</td>
<td>Biweekly evaluation</td>
<td>94%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>80% of clinical sites will score $&gt; 4.0$ of 5 on question, &quot;The staff at this site encouraged me to follow the Professional Code of ethics&quot;.</td>
<td>Clinical site evaluation</td>
<td>6/7 85%</td>
<td>Speak with affiliate clinical instructors for their opinion.</td>
</tr>
<tr>
<td></td>
<td>85% of graduates will be rated as average or above in demonstrating professional attitudes, behaviors, and ethics.</td>
<td>Employer Surveys</td>
<td>92%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>85% of graduates will strongly agree that educational opportunity was provided to acquire and apply professional attitudes, ethics and behaviors</td>
<td>Graduate Surveys</td>
<td>83%</td>
<td>Discuss professional behavior with students on an increasing level up until graduation.</td>
</tr>
</tbody>
</table>
Mission Statement: The program will graduate a student who is prepared with the entry-level skills of a radiologic technologist.

<table>
<thead>
<tr>
<th>Goal 1:</th>
<th>Expected Outcomes</th>
<th>Measurement tool</th>
<th>Result</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate a student who has integrated general education courses with radiologic technology courses</td>
<td>85% of graduating students that will agree general education courses were beneficial for professional practice.</td>
<td>Exit surveys</td>
<td></td>
<td>Exit survey not performed due to illness of program Director.</td>
</tr>
<tr>
<td></td>
<td>85% of graduates will agree that general education courses were beneficial for professional practice</td>
<td>Graduate surveys (biannual)</td>
<td>87%</td>
<td>Discuss the importance of general ed courses</td>
</tr>
</tbody>
</table>

| Goal 2: | | |
|---------| | |
| Graduate a student with the knowledge and skills of an entry-level radiologic technologist | | |

<table>
<thead>
<tr>
<th></th>
<th>Measurement tool</th>
<th>Result</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students will score at least 75% on final exit examination</td>
<td>Exit examination - simulate 200 question registry exam based on scaled score</td>
<td>79%</td>
<td>Consider using different test</td>
</tr>
<tr>
<td>First year students will score an average of 85% on required image evaluations</td>
<td>Image evaluation forms</td>
<td>92.5%</td>
<td></td>
</tr>
<tr>
<td>90% pass rate for first-time examinees of those graduates taking the registry.</td>
<td>ARRT exam results</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>Expected Outcomes</td>
<td>Measurement Tools</td>
<td>Result</td>
<td>Action</td>
</tr>
<tr>
<td>----------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------</td>
<td>---------</td>
<td>------------------------------------------------------</td>
</tr>
<tr>
<td>75% of students starting the program will complete.</td>
<td>Program completion rates</td>
<td>83%</td>
<td>While acceptable, need to focus on students entering.</td>
</tr>
<tr>
<td>85% short term completion over first five months of the program.</td>
<td>Number of students entering fall semester of the first year vs. completing spring semester of first year</td>
<td>94%</td>
<td></td>
</tr>
<tr>
<td>75% long-term completion for duration of the program.</td>
<td>Number of students starting Spring semester of first year vs. completing second year</td>
<td>83% 15/18</td>
<td>Screen applicants in interview process better</td>
</tr>
<tr>
<td>85% of employers will rate graduates as prepared for working as an entry-level technologist.</td>
<td>Employers surveys (biannually)</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>85% of graduates will report that the program prepared them to perform as a competent entry-level technologist.</td>
<td>Graduate surveys (biannually)</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>75% of graduates will be employed within six months of graduation.</td>
<td>Graduate surveys</td>
<td>100%</td>
<td>Increase benchmark to 85%</td>
</tr>
</tbody>
</table>
## Goal 3:

To facilitate development of applied skills in effective communication, critical thinking, and problem solving in the practice of radiography

<table>
<thead>
<tr>
<th>Expected Outcomes</th>
<th>Measurement Tools</th>
<th>Result</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>There will be a significant difference in scores on a critical thinking and problem solving essay between the final semester of the program versus the first semester</td>
<td>Critical thinking essay (to be added fall, 2002) Evaluation on critical thinking, communication, and grammar skills on essay.</td>
<td>not completed</td>
<td>Use another method to evaluate</td>
</tr>
<tr>
<td>Students will average 85% or better on film critique in RTEC 255 and 265.</td>
<td>Film critique evaluation form</td>
<td>88.5%</td>
<td></td>
</tr>
<tr>
<td>Students will score 90% or better on average biweekly evaluation with regard to communication skills. (over 2 year period)</td>
<td>Biweekly evaluation</td>
<td>93%</td>
<td></td>
</tr>
<tr>
<td>Students will average 80% on presentation of pathology essay in RTEC 251</td>
<td>Presentation score in RTEC 251</td>
<td>87%</td>
<td></td>
</tr>
<tr>
<td>90% of employers are satisfied with graduates problem-solving abilities</td>
<td>Employer survey</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>At least 5 students per year will participate in professional society activities</td>
<td>Participation in essay, exhibit and student bowl competition</td>
<td>8 students in student bowl 2 students in essay comp.</td>
<td>Monitor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Goal 3 continued

<table>
<thead>
<tr>
<th>Expected Outcomes</th>
<th>Measurement Tools</th>
<th>Result</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>50% of graduating students will express a desire to join or maintain membership in professional organizations</td>
<td>Exit survey</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>75% of students will answer in the affirmative to continuing education</td>
<td>Exit survey</td>
<td>89%</td>
<td></td>
</tr>
<tr>
<td>25% of all graduates will continue their education or advance to other modalities in the radiologic sciences</td>
<td>Graduate surveys</td>
<td>73%</td>
<td>Continue to encourage continuing education</td>
</tr>
</tbody>
</table>


Goal 4

<table>
<thead>
<tr>
<th>Expected Outcomes</th>
<th>Measurement Tools</th>
<th>Result</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>To facilitate development of professional attitudes, behaviors and ethics.</td>
<td>Ethical reasoning survey (to begin in 2002 with results in 2004)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>There will be a statistically significant difference of ethical reasoning scores between students entering and exiting the program.</td>
<td>Grade average on test</td>
<td>93%</td>
<td></td>
</tr>
<tr>
<td>Students will receive 85% or better on test on ethics in RTEC 120.</td>
<td>Biweekly evaluation</td>
<td>94%</td>
<td></td>
</tr>
<tr>
<td>Students will average 90% or better on student clinical biweekly evaluations over a two-year time period.</td>
<td>Clinical site evaluation</td>
<td>6/7</td>
<td></td>
</tr>
<tr>
<td>80% of clinical sites will score &gt;4.0 of 5 on question, &quot;The staff at this site encouraged me to follow the Professional Code of ethics&quot;.</td>
<td>Employer Surveys</td>
<td>94%</td>
<td></td>
</tr>
<tr>
<td>85% of graduates will be rated as average or above in demonstrating professional attitudes, behaviors, and ethics.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1.5 Does the program document outcomes consistent with each of the following JRCERT policies?

- over the past five years, credentialing examination pass rate average of not less than 75 percent at first attempt
- over the past five years, job placement rate of not less than 75 percent within six months of graduation

Explanation:
Measurement of the above outcomes must be reflected in the program’s assessment process. These outcomes can be used to support other program goals or established as separate, independent goals.

Rationale:
These outcomes are considered significant indicators of a program’s effectiveness.

Compliance May Be Demonstrated by:
Providing a copy of the program’s assessment plan that incorporates these required outcomes.

Possible Site Assessment Methods:

- Review of completed assessment tools
- Review of data to support reported outcomes

<table>
<thead>
<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
<td>X</td>
</tr>
</tbody>
</table>

We have had a credentialing examination pass rate of 100% with an average passing score of 87% for the past five years. This average score is consistently above both the national and Colorado state average passing score for the ARRT examination.

We have had a job placement rate of 99.5% over the past five years.

Please see exhibit 1.5 for credentialing and job placement results from the past five years.
School Name: MESA STATE COLLEGE  
School I.D. Number: 7028  
Date Range: 1/01/2005 to 12/31/2005

<table>
<thead>
<tr>
<th>SECTION</th>
<th>SECTION CONTENT</th>
<th>NUMBER OF QUESTIONS</th>
<th>MEAN SECTION SCALED SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Radiation Protection</td>
<td>40</td>
<td>8.8</td>
</tr>
<tr>
<td>B</td>
<td>Equipment Operation and Quality Control</td>
<td>24</td>
<td>9.0</td>
</tr>
<tr>
<td>C</td>
<td>Image Production and Evaluation</td>
<td>50</td>
<td>9.0</td>
</tr>
<tr>
<td>D</td>
<td>Radiographic Procedures</td>
<td>60</td>
<td>8.9</td>
</tr>
<tr>
<td>E</td>
<td>Patient Care and Education</td>
<td>26</td>
<td>9.2</td>
</tr>
</tbody>
</table>

**MEAN SCALED SCORE FOR TOTAL TEST** 89.7  
**PERCENT OF EXAMINEES PASSING** 100  
**NUMBER OF EXAMINEES** 18

NOTES

These summary statistics are based on program graduates taking the test for the first time (refer to NUMBER OF EXAMINEES box in the table).

Total scaled scores are reported on a scale of 1 to 99. These are not percentage scores. A total scaled score of 75 or greater is required to pass.

Section scores are reported on a scale of 1 to 10. Pass/Fail status is not determined from section scores. Section scores are for advisory purposes only. They provide a general indication of test performance in each content area.
2005 ARRT Radiography
State Means and Number of Examinees*

The mean (average) score is based on regular, first-time examinees. Results are not reported when fewer than 3 examinees from a state took the examination.
School Name: **MESA STATE COLLEGE**  
School I.D. Number: **7028**  
Date Range: **4/30/2004** to **9/07/2004**

### SUMMARY REPORT

**Radiography**

<table>
<thead>
<tr>
<th>SECTION</th>
<th>SECTION CONTENT</th>
<th>NUMBER OF QUESTIONS</th>
<th>MEAN SECTION SCALED SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Radiation Protection</td>
<td>30</td>
<td>9.1</td>
</tr>
<tr>
<td>B</td>
<td>Equipment Operation and Maintenance</td>
<td>30</td>
<td>8.9</td>
</tr>
<tr>
<td>C</td>
<td>Image Production and Evaluation</td>
<td>50</td>
<td>9.2</td>
</tr>
<tr>
<td>D</td>
<td>Radiographic Procedures</td>
<td>60</td>
<td>9.0</td>
</tr>
<tr>
<td>E</td>
<td>Patient Care</td>
<td>30</td>
<td>9.2</td>
</tr>
</tbody>
</table>

**MEAN SCALED SCORE FOR TOTAL TEST:** 90.6  
**PERCENT OF EXAMINEES PASSING:** 100  
**NUMBER OF EXAMINEES:** 14

### NOTES

These summary statistics are based on program graduates taking the test for the first time (refer to **NUMBER OF EXAMINEES** box in the table).

Total scaled scores are reported on a scale of 1 to 99. These are not percentage scores. A total scaled score of 75 or greater is required to pass.

Section scores are reported on a scale of 1 to 10. Pass/Fail status is not determined from section scores. Section scores are for **advisory purposes only.** They provide a general indication of test performance in each content area.
2004 ARRT Radiography
State Means and Number of Examinees*

The mean (average) score is based on regular, first-time examinees. Results are not reported when fewer than 3 examinees from a state took the examination.
School Name: MESA STATE COLLEGE
School I.D. Number: 7028
Date Range: 1/01/2003 to 12/31/2003

SUMMARY REPORT

Radiography

<table>
<thead>
<tr>
<th>SECTION</th>
<th>SECTION CONTENT</th>
<th>NUMBER OF QUESTIONS</th>
<th>MEAN SECTION SCALED SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Radiation Protection</td>
<td>30</td>
<td>8.9</td>
</tr>
<tr>
<td>B</td>
<td>Equipment Operation and Maintenance</td>
<td>30</td>
<td>8.4</td>
</tr>
<tr>
<td>C</td>
<td>Image Production and Evaluation</td>
<td>50</td>
<td>8.4</td>
</tr>
<tr>
<td>D</td>
<td>Radiographic Procedures</td>
<td>60</td>
<td>8.6</td>
</tr>
<tr>
<td>E</td>
<td>Patient Care</td>
<td>30</td>
<td>8.8</td>
</tr>
</tbody>
</table>

MEAN SCALED SCORE FOR TOTAL TEST | 86.1 |
PERCENT OF EXAMINEES PASSING | 100 |
NUMBER OF EXAMINEES | 15 |

NOTES

These summary statistics are based on program graduates taking the test for the first time (refer to NUMBER OF EXAMINEES box in the table).

Total scaled scores are reported on a scale of 1 to 99. These are not percentage scores. A total scaled score of 75 or greater is required to pass.

Section scores are reported on a scale of 1 to 10. Pass/Fail status is not determined from section scores. Section scores are for advisory purposes only. They provide a general indication of test performance in each content area.
2003 ARRT Radiography
State Means and Number of Examinees*

*The mean (average) score is based on regular, first-time examinees. Results are not reported when fewer than 3 examinees from a state took the examination.
**SUMMARY REPORT**

<table>
<thead>
<tr>
<th>SECTION</th>
<th>SECTION CONTENT</th>
<th>NUMBER OF QUESTIONS</th>
<th>MEAN SECTION SCALED SCORE</th>
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<tr>
<td>A</td>
<td>Radiation Protection</td>
<td>30</td>
<td>8.8</td>
</tr>
<tr>
<td>B</td>
<td>Equipment Operation and Maintenance</td>
<td>30</td>
<td>8.5</td>
</tr>
<tr>
<td>C</td>
<td>Image Production and Evaluation</td>
<td>50</td>
<td>8.9</td>
</tr>
<tr>
<td>D</td>
<td>Radiographic Procedures</td>
<td>60</td>
<td>8.8</td>
</tr>
<tr>
<td>E</td>
<td>Patient Care</td>
<td>30</td>
<td>9.4</td>
</tr>
</tbody>
</table>

**MEAN SCALED SCORE FOR TOTAL TEST**: 88.7

**PERCENT OF EXAMINEES PASSING**: 100

**NUMBER OF EXAMINEES**: 13

**NOTES**

These summary statistics are based on program graduates taking the test for the first time (refer to NUMBER OF EXAMINEES box in the table).

Total scaled scores are reported on a scale of 1 to 99. These are not percentage scores. A total scaled score of 75 or greater is required to pass.

Section scores are reported on a scale of 1 to 10. Pass/Fail status is not determined from section scores. Section scores are for advisory purposes only. They provide a general indication of test performance in each content area.
2002 ARRT Radiography
State Means and Number of Examinees*

*The mean (average) score is based on regular, first-time examinees. Results are not reported when fewer than 3 examinees from a state took the examination.
School Name: MESA STATE COLLEGE
School I.D. Number: 7028
Date Range: 1/01/2001 to 12/31/2001

SUMMARY REPORT

Radiography

<table>
<thead>
<tr>
<th>SECTION</th>
<th>SECTION CONTENT</th>
<th>NUMBER OF QUESTIONS</th>
<th>MEAN SECTION SCALED SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Radiation Protection</td>
<td>30</td>
<td>8.5</td>
</tr>
<tr>
<td>B</td>
<td>Equipment Operation and Maintenance</td>
<td>30</td>
<td>8.2</td>
</tr>
<tr>
<td>C</td>
<td>Image Production and Evaluation</td>
<td>50</td>
<td>8.2</td>
</tr>
<tr>
<td>D</td>
<td>Radiographic Procedures</td>
<td>60</td>
<td>8.6</td>
</tr>
<tr>
<td>E</td>
<td>Patient Care</td>
<td>30</td>
<td>9.1</td>
</tr>
</tbody>
</table>

Mean Scaled Score for Total Test: 85.0
Percent of Examinees Passing: 100

NOTES

These summary statistics are based on program graduates taking the test for the first time (refer to NUMBER OF EXAMINEES box in the table).

Total scaled scores are reported on a scale of 1 to 99. These are not percentage scores. A total scaled score of 75 or greater is required to pass.

Section scores are reported on a scale of 1 to 10. Pass/Fail status is not determined from section scores. Section scores are for advisory purposes only. They provide a general indication of test performance in each content area.
The mean (average) score is based on regular, first-time examinees. Results are not reported when fewer than 3 examinees from a state took the examination.
The American Registry of Radiologic Technologists

School Name: MESA STATE COLLEGE
School I.D. Number: 7028
Date Range: 1/01/2000 to 12/31/2000

<table>
<thead>
<tr>
<th>SECTION</th>
<th>SECTION CONTENT</th>
<th>NUMBER OF QUESTIONS</th>
<th>MEAN SECTION SCALED SCORE</th>
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<tr>
<td>A</td>
<td>Radiation Protection</td>
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<td>B</td>
<td>Equipment Operation and Maintenance</td>
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<td>8.2</td>
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<tr>
<td>C</td>
<td>Image Production and Evaluation</td>
<td>50</td>
<td>8.6</td>
</tr>
<tr>
<td>D</td>
<td>Radiographic Procedures</td>
<td>60</td>
<td>8.4</td>
</tr>
<tr>
<td>E</td>
<td>Patient Care</td>
<td>30</td>
<td>9.1</td>
</tr>
</tbody>
</table>

**Mean Scaled Score for Total Test:** 85.9
**Percent of Examinees Passing:** 91
**Number of Examinees:** 11

JOTES

These summary statistics are based on program graduates taking the test for the first time (refer to NUMBER OF EXAMINEES box in the table).

Total scaled scores are reported on a scale of 1 to 99. These are not percentage scores. A total scaled score of 75 or greater is required to pass.

Section scores are reported on a scale of 1 to 10. Pass/Fail status is not determined from section scores. Section scores are for advisory purposes only. They provide a general indication of test performance in each content area.
2000 ARRT Radiography
State Means and Number of Examinees*

*The mean (average) score is based on regular, first-time examinees. Results are not reported when fewer than 3 examinees from a state took the examination.
## MESA STATE COLLEGE
Nursing and Radiologic Sciences

Radiologic Technology Program

Class of 2000

<table>
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<tr>
<th>Student</th>
<th>Status</th>
<th>Employment</th>
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<tr>
<td>1.</td>
<td>Graduated</td>
<td>Working</td>
</tr>
<tr>
<td>2.</td>
<td>Withdrew</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Graduated</td>
<td>Working</td>
</tr>
<tr>
<td>4.</td>
<td>Graduated</td>
<td>Working</td>
</tr>
<tr>
<td>5.</td>
<td>Transferred</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Failed</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Graduated</td>
<td>did not pass registry</td>
</tr>
<tr>
<td>8.</td>
<td>Graduated</td>
<td>Working</td>
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<tr>
<td>9.</td>
<td>Graduated</td>
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</tr>
<tr>
<td>10.</td>
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</tr>
<tr>
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<td>Working</td>
</tr>
<tr>
<td>12.</td>
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<td>Working</td>
</tr>
<tr>
<td>13.</td>
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<td>Working</td>
</tr>
<tr>
<td>14.</td>
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<td>Working</td>
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</table>

Total Enrolled 14
Withdrew 1
Transferred 1
Failed 1
Total Graduates 11
MESA STATE COLLEGE  
Nursing and Radiologic Sciences  
Radiologic Technology Program  
Class of 2001  

<table>
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<tr>
<td>5.</td>
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<td>6.</td>
<td>Graduate</td>
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<tr>
<td>7.</td>
<td>Graduate</td>
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<td>9.</td>
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<td>11.</td>
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<td>Working</td>
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Total Enrollment 14  
Withdrawn 1  
Failed 1  
Total Graduated 12
MESA STATE COLLEGE  
Nursing and Radiologic Sciences  
Radiologic Technology Program  
Class of 2002

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<td>Working</td>
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Total Enrollment 14  
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Total Graduated 11
MESA STATE COLLEGE  
Nursing and Radiologic Sciences  
Radiologic Technology Program  
Class of 2003  

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<tr>
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<tr>
<td>15.</td>
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<tr>
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<tr>
<td>18.</td>
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<td>yes</td>
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</table>

Total Enrollment 18  
Withdrew 2  
Failed 1  
Total Graduated 15
MESA STATE COLLEGE  
Nursing and Radiologic Sciences  
Radiologic Technology Program  
Class of 2004  

<table>
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<td>3.</td>
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<td>Working</td>
</tr>
<tr>
<td>4.</td>
<td>Graduated</td>
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<td>5.</td>
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<td>Working</td>
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<td>6.</td>
<td>Withdrew</td>
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<tr>
<td>7.</td>
<td>Graduated</td>
<td>Working</td>
</tr>
<tr>
<td>8.</td>
<td>Graduated</td>
<td>Working</td>
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<td>9.</td>
<td>Withdrew</td>
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<tr>
<td>10.</td>
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<td>Working</td>
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<tr>
<td>11.</td>
<td>Graduated</td>
<td>Working</td>
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<tr>
<td>12.</td>
<td>Graduated</td>
<td>Working</td>
</tr>
<tr>
<td>13.</td>
<td>Graduated</td>
<td>Working</td>
</tr>
<tr>
<td>14.</td>
<td>Graduated</td>
<td>Working</td>
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<tr>
<td>15.</td>
<td>Failed</td>
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<tr>
<td>16.</td>
<td>Medical Withdrawal</td>
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<td>Working</td>
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<tr>
<td>18.</td>
<td>Graduated</td>
<td>Working</td>
</tr>
</tbody>
</table>

Total Enrollment 18  
Withdrew 3  
Failed 1  
Total Graduated 14
MESA STATE COLLEGE
Nursing and Radiologic Sciences

Radiologic Technology Program

Class of 2005

<table>
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<td>Yes – continuing education in ultrasound</td>
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<td>3.</td>
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<td>Yes</td>
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<tr>
<td>4.</td>
<td>Graduated</td>
<td>Yes</td>
</tr>
<tr>
<td>5.</td>
<td>Graduated</td>
<td>Yes</td>
</tr>
<tr>
<td>6.</td>
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<td>Yes</td>
</tr>
<tr>
<td>7.</td>
<td>Graduated</td>
<td>Yes</td>
</tr>
<tr>
<td>8.</td>
<td>Graduated</td>
<td>Yes</td>
</tr>
<tr>
<td>9.</td>
<td>Graduated</td>
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<tr>
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<td>15.</td>
<td>Graduated</td>
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<td>16.</td>
<td>Graduated</td>
<td>Yes</td>
</tr>
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<td>17.</td>
<td>Graduated</td>
<td>Yes</td>
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<td>Graduated</td>
<td>Yes</td>
</tr>
<tr>
<td>19.</td>
<td>Graduated</td>
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</table>

Total Enrollment 18
Withdrew 1
Added 1
Total Graduated 18
1.6 Does the program regularly solicit feedback from students, faculty, radiologists/radiation oncologists, graduates, employers, and other communities of interest?

**Explanation:**

The program can use a variety of tools to obtain information from its communities of interest regarding activities and accomplishments. Communities of interest are defined by the JRCERT as institutions, organizations, groups, and/or individuals interested in educational activities in radiologic sciences.

**Rationale:**

Obtaining feedback from these individuals/groups allows the program to determine if it is meeting the expectations of its communities of interest and to assess the program’s efforts in meeting its own desired outcomes.

**Compliance May Be Demonstrated by:**

Providing representative samples of appropriate meeting minutes, evaluations (e.g., of courses and faculty), and surveys (e.g., of graduates and employers of graduates).

**Possible Site Assessment Methods:**

- Review of meeting minutes
- Review of evaluations
- Review of surveys
- Interviews with members of various communities of interest

<table>
<thead>
<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
<td>X</td>
</tr>
</tbody>
</table>

The program solicits feedback from the students through faculty, clinical site and program evaluations. Please see the attached exhibits 1.6a, 1.6b. Feedback is also obtained through graduate and employer surveys which are sent out biannually (exhibit 1.6c). Radiologists are surveyed informally throughout the year (1.6d). Radiologists also show their support for the students by purchasing graduation pins for them each year. The program also has an advisory committee which is comprised of representatives such as department administrators, clinical instructors, graduates and staff technologists. Please see exhibit 1.6e for copies of meeting minutes.
SECOND YEAR STUDENT SURVEY

Please answer each question using the following criteria:

5 = strongly agree
4 = agree
3 = neither agree or disagree
2 = disagree
1 = strongly disagree

1. The radiology technology program is meeting my expectations and I will be proud to graduate from MSC.
   5  4  3  2  1

2. I have a clear understanding of the radiologic technology field and I would choose this course of study again.
   5  4  3  2  1

3. The clinical sites are supportive of my educational needs and requirements.
   5  4  3  2  1

4. Considering the amount of clinical experience I have received thus far, I could function independently as an entry-level technologist with minimal orientation at a place of employment.
   5  4  3  2  1

5. The program is providing me with the critical thinking and problem solving skills I will need to function as an entry-level technologist.
   5  4  3  2  1

6. Educational opportunity was provided to acquire and apply professional attitudes, behavior and ethics.
   5  4  3  2  1

7. The time spent in specialized areas (CT, NM, US, MR, Radiation Therapy and CIT.) was beneficial.
   4  3  2  1
The purpose of this form is to elicit your perception of the Program's achievement of the Program Goals at the time of graduation from the Radiologic Technology Program.

Directions: Please rate the Program's effectiveness in relation to each of these statements utilizing the following scale.


Provide general education opportunities.

Provide educational opportunity to acquire the knowledge and apply the skills of an entry-level radiologic technologist.

Provide educational opportunity to acquire and apply critical thinking and problem solving skills.

Provide educational opportunity to acquire and apply professional attitude, behavior and ethics.

Provide qualified faculty and staff who are professional role models.

Provide educational facilities and equipment that encourages student learning.

Provide clinical education centers that afford opportunities to acquire clinical competency in radiologic technology.
Please rate your effectiveness in relation to each item below utilizing the following scale:


- patient management
- application of communication skills
- application of affective skills
- application of imaging concepts
- application of positioning skills
- equipment operations and manipulations
- application of quality assurance and quality control
- principles of radiation protection
- image evaluation and analysis
- application of legal and ethical principles

Performance of radiographic procedures:
- general radiography
- mobile
- surgical
- emergency/trauma
- pediatrics

- computer skills
- critical thinking (problem solving and decision making)
- writing skills
- oral presentation skills
- research skills
- organizational skills
- personal and professional development

Please check (√) the college, community and professional activities you have participated in while a student at Mesa State College and list your involvement (membership, committees, offices):

- Faculty Senate Standing Committees
- MSC Student Government Association
- MSC Club Advisory Board
- X MSC Radiology Club Officer  Treasurer
- X Community Service Projects
- Community, social and/or religious organizations (please list)
Please state your reason(s) for the above response

I want to support my position, I also want

4. Please give the following information concerning your plans for acceptance of your first RT position.

a. Do you plan to work in radiologic technology? Yes ___ No ___
   following graduation?

b. Have you interviewed for a radiography position? Yes ___ No ___

c. Do you have a position as a radiographer? Yes ___ No ___

d. If you have answered yes to the previous question, please answer the following:
   Name of the agency ____________________________
   Position: _________________________________
   Hours _________________________________
   Reason for selection of this agency

Do you feel that Mesa State College has prepared you to enter the health care delivery system as an entry-level radiographer? YES ___ NO ___

What suggestions would you like to contribute for consideration toward program improvement?

I would have liked to have been able to observe at least one echo chamber, because the program does not offer the echo class at the college. Since we did not have the echo lab, I still have to learn how to do an echocardiogram. I also think it would be helpful to do a clinical at 2 places. I probably would have read through the other modules.

What aspect(s) of your education at Mesa State did you find most effective and would like to see continued?

I think the clinical aspects of Mesa State College are very effective. I do clinical at 3 or more clinical sites. I think it is great to see all the different pieces of the delivery system. I think it is great to learn to do an echocardiogram. I probably would have liked to learn through the other modules.

THANK YOU FOR YOUR INPUT!
GRADUATE SURVEY

Please answer each question using the following criteria:

5 = strongly agree
4 = agree
3 = neither agree or disagree
2 = disagree
1 = strongly disagree

1. The program met my expectations and I am proud to be a graduate of Mesa State College.

   5  4  3  2  1

2. I have a clear understanding of the Radiologic Technology field and would choose this profession again.

   5  4  3  2  1

3. The clinical sites were supportive of my educational needs and requirements.

   5  4  3  2  1

4. The amount of clinical experience I received prepared me to function independently as an entry-level technologist with minimal orientation at my place of employment.

   5  4  3  2  1

5. The program provided me with critical thinking and problem solving skills to assist me in my duties as a technologist.

   5  4  3  2  1

6. Educational opportunity was provided to acquire and apply professional attitudes, ethics and behaviors.

   5  4  3  2  1

7. The time spent in specialized areas (CT, US, NM, MRI, Radiation Therapy and CIT) was beneficial.

   5  4  3  2  1

8. I was provided adequate experience in the following areas:

   General Diagnostic Radiography  5  4  3  2  1
   Fluoroscopy  5  4  3  2  1
   Surgery  5  4  3  2  1
   Trauma Radiography  5  4  3  2  1
   Portable Radiography  5  4  3  2  1
9. The didactic (classroom) education adequately prepared me to function as an entry-level technologist.
   5  4  3  2  1

10. I was satisfied with the general education courses offered at Mesa State.
    5  4  3  2  1

11. The didactic education adequately prepared me for the ARRT Registry Exam.
    5  4  3  2  1

12. I was satisfied with the program equipment and classroom space utilized for my educational instruction.
    5  4  3  2  1

13. I am continuing my education in or am working in the area of:
    - [ ] Computed Tomography
    - [ ] MRI
    - [ ] Ultrasound
    - [ ] Mammography
    - [ ] Nuclear Medicine
    - [ ] Radiation Therapy
    - [ ] Management
    - [ ] Angiography
    - [ ] Education

14. I am continuing my education in other fields
    - [ ] yes
    - [ ] no

15. I am a member of my state, local or national societies
    - [ ] yes
    - [ ] no

16. I am actively participating in my state, local or national societies
    - [ ] yes
    - [ ] no

Do you have an additional comments or ideas for the Mesa State College Radiologic Technology program?

I would like to see a four year program in Radiologic Technology at Mesa State College.
EMPLOYER SURVEY

Please answer each question using the following criteria:

5 = strongly agree
4 = agree
3 = neither agree or disagree
2 = disagree
1 = strongly disagree

1. The graduate has a positive attitude about his/her clinical experience while in the program.
   5  4  3  2  1

2. The graduate is clinically prepared to function as an entry-level technologist with moderate orientation.
   5  4  3  2  1

3. The graduate demonstrates quality patient care skills
   5  4  3  2  1

4. The graduate demonstrates critical thinking and problem solving skills in his/her work as a technologist.
   5  4  3  2  1

5. The graduate demonstrates good communication and teamwork skills.
   5  4  3  2  1

6. The graduate demonstrates professional attitude, ethics and behavior.
   5  4  3  2  1
7. The graduate came to my facility with a general understanding of specialized modalities (i.e.: CT, MRI, US, NM, Radiation Oncology, and CIT).

8. The graduate came into my facility with an appropriate level of experience in the following areas:

<table>
<thead>
<tr>
<th>Area</th>
<th>Rating</th>
<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>General diagnostic radiography</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Fluoroscopy</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Surgery</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Trauma radiography</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Portable radiography</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>NA</td>
<td></td>
</tr>
</tbody>
</table>

9. The graduate has a strong didactic knowledge base.

10. Overall the graduate rates a satisfactory or better on performance evaluations.

Do you have an additional comments or ideas for the Mesa State College Radiologic Technology program?

This technologist was a little slower in
proving to the department - some students
mature at different paces.
MESA STATE COLLEGE  
Nursing and Radiologic Sciences  
Radiologic Technology Program  

Program Advisory and Clinical Instructor Meeting  
October 21, 2004  

Present: Larry Raney, Rachel Noland, Donna Slothower, Susie Mallory, Toni Dalley, Toni Colby, Bodie Blowers, Susan Hudson, April Perez, Kristy Reuss, Joanne Hunter, Maggie Berg, Dawn Eichert, Marsha Ross, Patti Ward, Bette Schans  

1. Every one introduced themselves and was welcomed.  

2. The minutes of the April 27, 2004 meeting were reviewed and approved.  

3. Program update:  
   a. There are 18 students in the second year class. We gained one with a transfer student from New Mexico. There are 18 first year students.  
   b. All 14 graduates passed the registry with an average score of 90.6%.  

4. Continuing Items of Business  
   a. Larry, Pat, Susie, Joanne and Toni Dalley have volunteered to serve on a self-study review committee. This committee will meet in January to review the program’s self study and assurances.  
   b. The self study is due in March with the site visit tentatively scheduled for summer.  
   c. The BS program is still shelved.  

5. New Items of Business  
   a. The assessment and evaluation plan was distributed to the committee for review and comments.  
   b. The clinical sites need to send copies of radiation inspection reports and JACHO accreditation before the end of the year. Affiliate clinical instructors need to send copies of current registry cards.  
   c. Kristy told the group that Mesa State is still in funding stress. The administration is looking at differential tuition for radiologic science and nursing because our programs are more costly to run. We will continue to explore the possibility of distance learning in Western Colorado to increase the numbers in the program.
6. Clinical Issues:

a. Old business

(1) Prior minutes discussed that students performing mobile examinations could be under indirect supervision, once competency had been established. Indirect supervision implies the technologist is in the immediate vicinity, which would mean the supervising technologist would accompany the student when outside the perimeters of the department. Therefore, the policy has been amended to read that the mobile examinations will be under direct supervision.

(2) Represented clinical sites indicated that orientation of students to the facilities was going well.

(3) Represented clinical sites also agreed that there was improvement in students being allowed to make corrections, rather than the technologist taking over.

b. Cooperation of clinical sites with program requirements

Clinical sites were asked to cooperate with program requirements. Apparently some sites have been occasionally releasing students early from their clinical rotations. One program goal is to maintain equity in student learning.

There was discussion about allowing a student to stay late to compete an exam and then be allowed to take that time off the following day. It was discussed that the affiliate clinical instructor could make this call. It was highlighted that this should be an occasional occurrence.

c. Understanding what first year students can and cannot do

Each semester a document is given to each first year clinical site that spells out when students have completed a unit of study. Clinical affiliates are asked to familiarize themselves with this so they can work with students on the appropriate procedures.

d. Fluoroscopy and mobile procedure policy to be included in the student handbook next year.

(1) At no time will the student use fluoroscopy (in the department or with a C-arm).

(2) During all mobile procedures the student must be under direct supervision.

(3) Direct supervision of the student is required at all times while in the surgical suite. The student will not expose fluoroscopic images.

Questions were raised about the student being allowed to use fluoroscopy for marker placement for modified barium swallows and for lead apron assessment. The policy will remain that students will not use fluoroscopy at any time.
e. Affiliate clinical instructor concerns:

There was discussion concerning technologists not wearing lead aprons when performing mobile examinations and lead aprons not being available on the mobile equipment. Clinical affiliates are encouraged to help technologists understand the importance of setting a professional example for students and the public.

Submitted

[Signature]

Patti Ward
Bette Schans
Radiologists from the three hospitals in Grand Junction were asked, “What is your opinion of the students in the Radiologic Technology Program at Mesa State College?” The following were informal comments from three radiologists:

1. “Of course there are some not-so-good and some very good students that come through our department. Overall, however, I am pleased with the level of competence in the graduates we hire at our hospital.”

2. “Having worked at other institutions, I have something to compare this program to. You have an excellent program.”

3. “So glad you’re here teaching such a good program.”
1.7 Does the program analyze and use feedback from its communities of interest and outcome data for continuous improvement of its policies, procedures, and educational offerings?

Explanation:
The program should review actual outcomes in relation to expected outcomes and input from its communities of interest, analyze this information, and use the results of the analysis to make appropriate changes. Changes should be monitored to determine if the desired effect(s) has been achieved. A comparative analysis of data from one assessment cycle to another should be performed to identify trends in outcomes.

Rationale:
Analysis of outcome data and other feedback allows the program to identify strengths and areas for improvement to bring about systematic program improvement. This analysis also provides a means of accountability to communities of interest.

Compliance May Be Demonstrated by:

- Describing how the program analyzes input from its communities of interest and outcome data to identify areas for program improvement.
- Describing examples of changes that have resulted from the assessment process and discussing how these changes led to program improvement.
- Providing representative samples of appropriate meeting minutes and/or other appropriate documents.

Possible Site Assessment Methods:

- Review of program assessment plan
- Review of assessment tools
- Review of meeting minutes
- Interviews with faculty

We have utilized several different methods of feedback to improve the quality of this program. We have a meeting with the graduating students about one month prior to graduation to get their constructive criticism and thoughts for improvement of the program (exhibit 1.7a). These meetings led to changes such as adding a dedicated surgery rotation, some new procedure check-offs and changing the time of the portable rotation. In the late 90’s, members of the advisory committee commented on student inability to critique radiographs in a timely manner. Changes were made to clinical by adding a film review and in 2001, two new classes were added to the curriculum to enhance student learning in image critique. The advisory committee has routinely reviewed the assessment and evaluation plans as well as program policies, and provided input (1.7b).

Additionally, a subcommittee of the Program Advisory Committee has reviewed this self study (1.7c).
MESA STATE COLLEGE
Radiologic Technology Program
Program Advisory Committee Meeting Minutes
October 17, 2002

PRESENT: Susie Mallory, Pat Gimbel, June Rush, Mark Harrington, Howard Campbell (for Deb Cockroft), Larry Raney, David Baumgartner, Bodie Blowers, Sandy Forrest, Tom Smith, Patti Ward, Bette Schans

1. Every one was welcomed and introductions were made.

2. The committee reviewed the minutes of the March 28, 2002 meeting. There were no corrections or additions.

3. Program Update
   a. There are 15 second-year students and 17 first-year students in the program. One first-year student withdrew from the program two weeks ago.
   b. There was a 100% pass rate on the registry this year and the average score was higher than it has been in previous years. One graduate still needs to take the registry.
   c. The students have contributed a digital camera to the program. This camera was won at the CSRT meeting in April.
   d. Mesa State students did very well in student bowl competition this year at the conference. They answered all the questions correctly but did not win due to the point system. Two students, Stacy Maclaskey and Andrea Davis took first and second place in the essay competition.

4. Continuing Items of Business
   a. The interim report for the JRC was submitted this summer. We will know shortly if we will continue in our eight-year cycle.
   b. We are now going through North Central Accreditation.
   c. Valley View has already initiated use of computed radiography. St. Mary’s will be on board with CR the beginning of November. This will cause some issues for the program since the rest of the clinical sites are still using conventional film. We will all be going through this transition together. The major issue is developing an image evaluation form to complement CR. Also discussed was having the ability to store the students’ repeat exposures for teaching purposes. We again will be working on this together.
   d. The policy regarding direct and indirect supervision was again reviewed. The students will be told that they may not take radiographs in the department unless a technologist is immediately available for assistance. Students may not perform surgical, portable or trauma radiography without immediate supervision.
5. The Program Assessment and Evaluation Plan for 2002 was reviewed. We are meeting all of our program benchmarks and have developed some new objectives and benchmarks to review.

6. The Radiologic Technology faculty has developed a position statement regarding hiring second-year students as assistants who can perform x-ray examinations on patients. We cannot support this practice due to patient and student safety concerns. Both first and second-year students have been informed that they may not work with radiology assistants who are doing radiographic examinations. This could potentially hinder student learning by students missing out on examinations they should be observing or performing. Accreditation standards do not allow students to work with non-registered personnel.

Meeting was adjourned at 4:40 pm

Submitted:

Bette Schans, PhD(c)
Program Director
POSITION STATEMENT
Mesa State College
Radiologic Technology Program

The faculty in the Radiologic Technology Program at Mesa State College understands the problems, and sympathizes with the clinical sites that are experiencing staff shortages. However, due to patient and student safety concerns, we cannot support the hiring of students as radiology assistants who perform radiographic examinations on patients.
In attendance: Mari Brennan-Combs, Toni Colby, Pat Gimbel, Susie Mallory, Desiree Partridge, Larry Raney, Marsha Ross, Donna Slothower, Bette Schans, and Patti Ward

Minutes of March 27, 2003 were reviewed with no corrections or additions.

Concern was raised about how some technologists grade of second year check-offs. Affiliate clinical instructors were encouraged to ask technologists (1) to fully observe the student when they are performing a procedure check-off and (2) complete and return check-off forms at the time the procedures are performed.

The Radiology Program is currently looking to fill two clinical instructor positions for the spring semester.

Affiliate clinical instructor concerns:

The question was raised about 2nd year students who said they were told by the program that they could not transport patients. Bette explained that she recently spoke with the 2nd year students and cleared up the misunderstanding. It was decided that a statement would be added to the clinical modules or student handbook to clarify that 1st year students are not to transport patients without supervision. And 2nd year students who have been oriented may transport patients without supervision.

Minutes submitted by Patti Ward.

Patti Ward.
1. In the summer make students aware of upcoming portfolio in the fall.
2. Make the review book available during the summer.
3. Eliminate journals during the last semester.
4. Have students pass a mock registry given by the college prior to allowing students to work in the field.
5. Have 1st and 2nd years meet at the beginning of year.
6. Develop mentors for 1st year students.
7. Have clinical instructor observe a 2nd year doing a procedure (input only, no grade).
February 10, 2005

This is to verify that members of the Mesa State College Radiologic Technology Program Advisory Committee have reviewed the program accreditation self study with suggested changes and enhancements.

Patricia Gimbel, RT(R) (M)

Susan Mallory, RT(R) (M)

Tonia Dalley, RT(R) (M)

Joanne Hunter, RT(R)

Larry Raney, BS, RPA, RT(R) (CT) (QM)

Bette Schans, PhD, RT(R)
1.8 Does the program periodically evaluate its mission statement, goals, and assessment plan and make revisions as necessary to achieve continuous quality improvement?

Explanation:
As part of the assessment cycle, the program should review its mission statement and goals to assure that they are appropriate and useful. The assessment plan should be reviewed to assure that assessment measures are adequate and that the assessment process is effective in measuring student learning outcomes.

Rationale:
Identifying and implementing needed improvement(s) in the mission statement, goals, and/or assessment plan leads to programmatic improvement and renewal.

Compliance May Be Demonstrated by:
- Describing how this review has occurred.
- Providing meeting minutes and/or other relevant documentation.

Possible Site Assessment Methods:
- Review of meeting minutes
- Interviews with faculty

<table>
<thead>
<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assurance Narrative</td>
<td>Yes No</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

The mission statement and goals are reviewed annually. The current statement and goals have been in place for three years. All who have reviewed the statement and goals have found no reason for revision at this time. Looking toward the future may necessitate a change if the program is given permission to do distance learning. The assessment and evaluation plan is reviewed on a regular basis by the program director, program faculty and the program advisory committee. Changes have been made to update the plan on a biannual basis.
Summary for Standard One

1. List the major strengths of Standard One, in order of importance.

2. List the major concerns of Standard One, in order of importance.

3. Provide the program's plan for addressing each concern identified.

4. Describe any progress already achieved in addressing each concern.

5. Describe any constraints in implementing improvements.

Attach additional pages if necessary.

1. The major strength of this program is the quality delivery of education to students in the program. This is evident by the pass rates on the registry and the high satisfaction rate of the employers and graduates of the program.

   Equally as important is the input provided by the various communities of interest. The feedback from students, clinical staff, radiologists, clinical instructors, graduates and employers serve only to enhance the quality of this program. Although several members of the advisory committee approximately one hour's drive time from Grand Junction, they make every effort to attend the two meetings yearly.

2. There are no major concerns of Standard One.
Standard Two:  
*Program Integrity*
2.1 Does the program adhere to high ethical standards in relation to students, faculty, and staff?

**Explanation:**

Policies and procedures must be made known to students, faculty, and staff and be equitably applied.

**Rationale:**

High ethical standards help assure the rights of students, faculty, and staff are protected.

**Compliance May Be Demonstrated by:**

- Describing the procedure for making policies and procedures known.
- Providing copies of policies or procedures that assure students, faculty, and staff are treated equitably.

**Possible Site Assessment Methods:**

- Review of employee/faculty handbook
- Review of student handbook
- Review of course catalog
- Review of student records
- Interviews with faculty
- Interviews with students

<table>
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<tr>
<th>Level of Effort</th>
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<th>Has Program Met Objective?</th>
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<td></td>
</tr>
<tr>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

College policies for all students are written in the college catalog (exhibit 2.1a) and the college student handbook (exhibit 2.1b). Radiologic Technology program policies are found in the program student handbook (exhibit 1.1d). The faculty and staff handbook (found on the college web site and a portion in exhibit 2.1c) contains all employee policies of the college. Applicants to the program can find program information on the web site or by asking for an application packet. All student policies apply equally to all students and all employee policies apply equally to all faculty.
How to Use This Catalog

The table of contents lists each section of the catalog and the information contained within each section. For information on a specific topic, refer to the table of contents or the subject index in the back of the catalog. For additional information, contact the College toll free at 1-800-982-MESA or access the website at www.mesastate.edu.

This catalog is divided into several sections in the following order:

General Information about Mesa State College
Included is a brief list of degrees and programs offered, admission requirements, registration procedures, expenses, financial aid, student services, academic regulations and honors, and graduation requirements.

Instructional Programs
Academic programs offered by the College are listed separately for each of the four schools, followed by (1) the graduate degree, (2) the baccalaureate degrees, and (3) the associate degrees and certificates offered. Sub-sections are in alphabetical order, with the general requirements for earning each degree or certificate included. The next sub-sections are (4) Teacher Licensure and (5) electives and/or minors.

Course Descriptions
A brief description of each course at Mesa State College is listed alphabetically by prefix. Class schedules are published before each semester and are available from the Office of the Registrar. Not all classes described in this catalog are offered every semester or every year.

Mesa State College Personnel
The administrative officers, support personnel, and faculty are listed.

Index
This is the catalog index.

Policy Statement
The programs, policies, statements, and procedures contained in this catalog are subject to change by the College without prior notice. Mesa State College reserves the right to, at any time, withdraw courses or modify the rules, calendar, curriculum, graduation procedures, and any other requirements affecting students. While the information contained in this catalog is current and correct insofar as possible at the time of printing, students are advised to check with appropriate College officials and current program sheets for up-to-date information.

Mesa State College Role and Mission
The threefold mission of the College is in accord with the statement of the Colorado Legislature C.R.S. 23-53-101:

There is hereby established a College at Grand Junction, to be known as Mesa State College, which shall be a general baccalaureate and specialized graduate institution with moderately selective admissions. Mesa State College shall offer liberal arts and sciences programs and a limited number of professional, technical, and graduate programs. Mesa State College shall also maintain a community college role and mission, including vocational and technical programs. Mesa State College shall receive resident credit for two-year course offerings in its commission-approved service area.

The Mesa State College community aspires to provide an environment which promotes a wellness lifestyle free of addictive behaviors. It shall be a goal of Mesa State College to maintain a healthy campus atmosphere conducive to learning and personal safety.

Background on Mesa State College
Mesa State College was founded in 1925 as Grand Junction State Junior College and on July 1, 1974, was authorized to offer baccalaureate degree programs as an institution under the State Colleges in Colorado. As of July 1, 1996, Mesa State was authorized to offer a program of courses leading to a business administration graduate degree. Mesa State may offer other graduate programs in the future. College enrollment, now over 5,400, provides a favorable student-faculty ratio and a high-quality learning environment.

Mesa State College is a democratic center of learning dedicated to the improvement of human capability. The College extends its services to anyone regardless of age, race, color, national origin, religion, sex, disability, veteran status, or sexual
GENERAL INFORMATION

orientation. Committed first to instruction, as well as service and research, the College seeks to improve the unique talents and sense of social responsibility of each student.

By promoting the acquisition of skills as well as the discovery and application of knowledge, the College develops the intellectual, ethical, and aesthetic sensibilities that enable a student to pursue a rewarding career and assume a responsible and productive role in society.

The College seeks to liberate persons from narrow interests and prejudices, to help them observe reality precisely, to judge opinions and events critically, to think logically, and to communicate effectively.

The College offers programs of value in areas of civic and cultural life, research, and recreation and desires to play a constructive role in improving the quality of human life and the environment.

In order to implement this philosophy, the College shall offer:

1) The graduate degree in Business Administration (MBA);
2) Programs leading to baccalaureate degrees and associate degrees in liberal arts, sciences, business, and professional areas;
3) Vocational technical programs leading to certificates and associate degrees;
4) Continuing education programs directed toward personal, civic, vocational, and professional self-improvement;
5) A sufficiently wide range of lower division courses to assure smooth, successful transfer by students to other institutions with programs not offered by Mesa State College;
6) Community services, including intellectual, civic, and cultural activities, advisory services, and research programs;
7) Sufficient courses in all undergraduate degree programs in general education areas to insure that students can be conversant in areas of general knowledge.

Accreditation

Mesa State College is accredited by The Higher Learning Commission and a member of the North Central Association of Colleges and Schools, 30 North LaSalle Street, Suite 2400, Chicago, IL 60602 (www.ncahigherlearningcommission.org). Accreditation by this agency places credits earned at Mesa State College on a par with those earned at other similarly accredited institutions throughout the United States. Various programs at Mesa are approved by appropriate state and national agencies, including the Colorado Board of Nursing, American Association of Colleges of Nursing, and the Committee on Allied Health Education of the American Medical Association (Radiologic Sciences).

Location

The Mesa State College campus is located within the city limits of Grand Junction, the largest city in western Colorado with an area population of approximately 110,000. The campus is bordered by an attractive and modern residential neighborhood. Stores and other conveniences are located within walking distance of the campus. Mall shopping and the Main Street shopping district are both nearby.

Grand Junction has been noted for having more opportunities for outdoor recreation within a 100-mile radius of its boundaries than any other city in the Western U.S. The climate is one of the mildest in Colorado, with fewer days below 32 degrees than cities in the front and central ranges of Colorado. Powderhorn ski resort (1,600 feet vertical, 220 inches annual snowfall) is located 35 miles from campus and offers season passes at a discount to students in addition to instructional ski courses offered in conjunction with the Human Performance and Wellness department.

Lincoln Park, across from the campus, features a nine-hole golf course, swimming pool, tennis courts, track, football and baseball stadiums, and tennis courts. All are available to students.

College Community Relations

Located in the center for business, government, and medicine in western Colorado, Mesa State students have access to an outstanding variety of hands-on learning experiences offered through many academic departments in cooperation with community businesses and public agencies. Faculty members are available for lectures and discussions of interest to the community, and student groups appear before both public and private audiences for information or entertainment programs. The artistic, cultural, and athletic programs conducted by Mesa State College together with those devoted to public affairs and international relations enjoy broad community interest and support. Special programs of community-wide interest are presented in College facilities from time to time by community groups.
Wayne N. Aspinall Foundation

In cooperation with the Wayne N. Aspinall Foundation, Inc., Mesa State College students have an opportunity to participate in several cooperative programs. These include a course and public lecture offered by a distinguished visiting lecturer honored as the occupant of the Wayne N. Aspinall Chair of History, Political Science and Public Affairs; and a number of scholarships are awarded to students whose courses of study are directed toward careers in public affairs. Details of these programs may be obtained from the Dean, School of Humanities and Social Sciences.

National Student Exchange

Mesa State College is a member of the National Student Exchange Program. NSE is a consortium of over 175 colleges and universities in the United States and its territories. Mesa State students may be able to participate in this program at in-state tuition rates and receive full credit for course work completed while on exchange. For further information, contact the Registrar’s Office in Lowell Heiny Hall 121 or telephone (970) 248-1977.

Mesa State College Montrose Campus

Located at the Buell Higher Education Center, 234 S. Cascade, in Montrose, the Campus offers students the opportunity to complete an associate degree, or work toward their baccalaureate degree by completing the General Education component. A limited selection of upper division coursework is offered via distance technology. The Montrose Campus offers coursework primarily between the hours of 1:00 p.m. through 9:30 p.m. to meet the needs of both traditional and working students.

The Campus office is open from 8:00 a.m. to 5:00 p.m., Monday through Friday. All student services are available at the office (admissions, assessment, financial, and business). Academic advising services are available at the Montrose Campus by appointment. In addition to the classrooms and office, the Campus houses two computer labs and a telecommunications classroom. The telephone number for the Montrose Campus is (970) 249-7009.

Summer Session

Mesa State College offers a summer program based upon needs and wishes expressed by students and residents of the community. Typical offerings in previous summers have included courses in biology, business, data processing, engineering, fine arts, humanities, mathematics, physical education, physical science, social science, and occupational education.

Diversity Statement

Following is the statement of philosophy on diversity which has been adopted by the faculty at Mesa State College:

"Mesa State College is a community of scholars in the liberal arts tradition. As faculty we believe that all people, regardless of age, race, color, national origin, religion, sex, disability, veteran status, or sexual orientation, have something worthwhile to contribute and that these contributions benefit us all. Therefore, we intend that within our academic community all cultural differences will be treated with equal respect and tolerance. We desire that our students have the opportunity to appreciate the diversity of our modern world, and we encourage them to partake of the resources available within our community. As faculty we pledge ourselves to provide as many divergent cultural experiences for our students as the resources of the college and the needs of our disciplines allow."

"To further tolerance and appreciation of our society's diversity, Mesa State requires that all graduates fulfill General Education requirements. In doing so we honor the validity of a liberal education. We hope that the experience will help our students understand how to appreciate the true diversity of the world. Because diversity promotes multiple opinions, techniques, viewpoints and approaches, it is not the individual courses within the General Education program which we believe will further the above-stated goals, but the whole experience of the program itself."

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)

General Policy: The Family Educational Rights and Privacy Act (FERPA) provides students who are enrolled in an institution of postsecondary education the right to inspect, review, and challenge their educational records. Mesa State College has the responsibility of maintaining and protecting the confidentiality of students' official educational records. Mesa State College also supervises the access to and/or release of educational records of its students. FERPA covers enrolled and former students, including deceased students. Students who are not accepted to Mesa State College, or if accepted, do not attend, have no rights under FERPA. In addition, the College will not release personally identifiable records of students to any individual, agency or organization without the prior written consent of the student, except as provided by FERPA.

Directory Information: Mesa State College may, without the consent of the student, release to persons outside the institution information designated as Directory Information in accordance with the provisions of FERPA. Directory Information
GENERAL INFORMATION

shall include information in an educational record which would not generally be considered harmful or an invasion of privacy if released, including but not limited to:

1. student name, address, telephone number
2. date and place of birth
3. major fields of study
4. participation in officially recognized activities and sports
5. weight and height of athletic team members
6. photograph
7. dates of attendance to include enrollment status (i.e., full time or part time)
8. degrees and awards received
9. most recent educational institution attended
10. e-mail address

Note: At any time, a student may request to the Registrar's Office that Directory Information not be released to other parties without written permission. This request will be honored until the student requests in writing that Directory Information be disclosed.

Access to Student Educational Records: FERPA provides current, former students, and parents of students who claim the student as a dependent (according to Internal Revenue Code of 1954, Section 152) for income tax purposes on their most current federal tax return the right to inspect, review, and challenge their educational records. Students are permitted to inspect and review their educational records within a maximum of 45 days after the request is received. Students may not review financial information received from their parents or guardians, confidential letters and recommendations placed in their files prior to January 1, 1975, academic records containing information regarding other students, administrative, disciplinary, law enforcement, student health records, and/or records which are maintained in the sole possession of the maker.

While students who have a financial hold or past due account (all holds included) have a right to inspect their academic records, no transcript will be released to the student or other party until holds are reconciled. Bankruptcy, however, removes any financial obligations the student has to Mesa State College.

Please contact the Office of the Registrar if you have any questions regarding this policy.

STUDENT BILL OF RIGHTS

The Colorado General Assembly implemented the Student Bill of Rights to assure that students enrolled in public institutions of higher education have the following rights:

(a) A quality general education experience that develops competencies in reading, writing, mathematics, technology and critical thinking through an integrated arts and science experience.

(b) Students should be able to complete their associate of arts and associate of science degree programs in no more than sixty credit hours or their baccalaureate programs in no more than one hundred twenty credit hours unless there are additional degree requirements recognized by the commission;

(c) A student can sign a two-year or four-year graduation agreement that formalizes a plan for that student to obtain a degree in two or four years, unless there are additional degree requirements recognized by the commission;

(d) Students have a right to clear and concise information concerning which courses must be completed successfully to complete their degrees;

(e) Students have a right to know which courses are transferable among the state public two-year and four-year institutions of higher education;

(f) Students, upon successful completion of core general education courses should have those courses satisfy the core course requirements of all Colorado public institutions of higher education;

(g) Students have a right to know if courses from one or more public higher education institutions satisfy the students' graduation requirements;

(h) A student's credit for the completion of the core requirements and core courses shall not expire for ten years from the date of initial enrollment and shall be transferable.
WW Campbell College Center Mission Statement

The WW Campbell College Center is dedicated to serving the campus community. It is a campus community center that provides a wide variety of programs and services in a learning environment that promotes the open exchange of thoughts and ideas, celebrates diversity and builds community.

The staff of the College Center, both students and professionals, is dedicated to providing quality customer service to our students, faculty, staff, alumni and guests.

Special Thanks To:

The Mesa State Center Student Handbook is published by the College Center as a service to Mesa State students. We would like to acknowledge those individuals whose efforts made this handbook possible. They gave long hours and countless discussions on handbook revisions. A special thanks to the following people:

EDITING
Jill Eckardt
Melissa Schuessler
Jody Labuda
Beth Newberry

PHOTOS
Mesa State Office of Institutional Advancement

INFORMATION SOURCES
University of Colorado-Boulder
Colorado State University
University of Colorado-Colorado Springs
University of Northern Colorado
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I. PURPOSE OF HANDBOOK AND ENDORSEMENT OF ACADEMIC FREEDOM

A. Purpose of Handbook. The Mesa State College Professional Personnel Employment Handbook (Handbook) sets forth policies and procedures applicable to Professional Personnel employed by the College. It supplements the policies set forth in the Trustees’ Policy Manual (Manual), and is intended to be consistent with those policies in all respects. To the extent the Handbook and Manual are inconsistent, the Manual controls. All policies and procedures are subject to approval by the Board of Trustees. The Trustees reserve the right to modify, amend, replace or revoke the Handbook policies without prior approval of Professional Personnel. The policies and procedures set forth in this Handbook, as amended from time to time, constitute part of each Professional employee’s employment contract with the College. This Handbook supersedes all policies and procedures in any prior version of this Handbook or the State Colleges System Handbook. Certain words and phrases used herein have special meaning as defined in the Glossary. Any time limits in the Handbook may be extended by the President upon written request and for good cause.

B. Endorsement of Academic Freedom. The Board of Trustees endorses the principle of academic freedom, which means the freedom to discuss academic subjects fully, engage in research and publish the results of research, and write or speak as citizens without fear of institutional censorship or discipline, provided individuals do not represent themselves as speaking for the College.
2.2 Does the program assure that faculty recruitment and employment practices are non-discriminatory with respect to any legally protected status such as race, color, religion, gender, age, disability, and national origin?

**Explanation:**
Equal opportunity for employment should be offered to each applicant. Employment practices should be applied equitably to all faculty.

**Rationale:**
Recruitment and employment practices that are non-discriminatory assure fairness and integrity.

**Compliance May Be Demonstrated by:**
- Describing how non-discriminatory employment practices are assured.
- Providing copies of employment policies and procedures that assure non-discriminatory practices.

**Possible Site Assessment Methods:**
- Review of employee/faculty handbook
- Review of employee/faculty application form
- Review of institutional catalog
- Interviews with faculty

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<td>X</td>
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Recruitment and hiring policies are applicable to all persons considered for full-time tenure-track faculty positions. There is no formal faculty application form. The applicant is required to submit a resume along with a letter of inquiry. A member from the Affirmative Action Committee is a participant in every step of the application process including interviews to assure that equal opportunity is afforded to all applicants.

Hiring of adjunct faculty is at the discretion of the program and department, not the college. However, adjunct faculty must meet similar criteria to full-time faculty. The employee handbook has specific policies regarding non-discrimination. Please see exhibit 2.2 for college policies.
II. ANTI-DISCRIMINATION POLICY

A. Discrimination and Harassment Prohibited

1. Protected Status. "Protected status," means a status or characteristic of an individual that is protected by State or Federal law or the policies of the College. Protected status includes race, color, religion, creed, sex, gender (including pregnancy), national origin, ancestry, age (40 and older), disability, veteran status, marital status and sexual orientation (referred to jointly as "protected status").

2. Equal Employment Opportunity. There shall be no discrimination in employment based on protected status. Equal employment opportunity shall apply to all personnel actions including, but not limited to, recruitment, hiring, compensation, terms and conditions of employment, privileges, benefits, promotion, discipline, termination, classification of applicants and employees. Equal employment opportunity does not change the requirement that all applicants and employees, regardless of their protected status, must be otherwise qualified for the job.

3. Participation in Programs. The College prohibits discrimination by any employee based on protected status against any otherwise qualified applicant, employee, or student with regards to participation in any academic, research, training, education program or other activity offered by the College.

4. Harassment. "Harassment" is a form of prohibited discrimination where it is based on any protected status and is unwelcome, severe or pervasive, and (i) the conduct is either an explicit or implicit condition of an individual’s employment or education; (ii) submission to or rejection of such conduct by an individual is used as a basis for employment or educational decisions affecting the individual; or (iii) such conduct has the purpose or effect of unreasonably interfering with an individual’s work or academic performance or creating an intimidating, hostile or offensive working environment.

a. Sexual Harassment. Sexual advances or propositioning, jokes of a sexual nature, sexual innuendo and sexual comments about someone’s appearance, dress or activities, intimate stories about one’s sex life, sexually explicit photographs or drawings, touching of a sexual nature, slurs, derogatory statements or other demeaning or adverse treatment based on sex or gender are examples of conduct that can constitute sexual harassment where the conduct is unwelcome, severe or pervasive and based on sex or gender.

1) Amorous romantic or sexual relationships between Professional Personnel and students enrolled in their classes or whom they are assigned to advise or between Professional Personnel and employees or students whom they supervise can create claims of
II. ANTI-DISCRIMINATION POLICY

Professional Personnel Employment Handbook

sexual harassment. Such conduct puts academic and professional trust and ethics at risk and constitutes a conflict of interest.

2) Accordingly, the College prohibits Professional Personnel from forming such relationships, as well as any attempt to initiate or engage in an amorous relationship with students enrolled in their classes, or advisees, or one of their subordinates. If such a relationship exists or is developing, the Faculty member or Administrator shall report the relationship or attempt to the Affirmative Action Coordinator or the Office of Human Resources so that appropriate action may be taken.

b. Other Harassment. Slurs, derogatory statements, jokes, stereotyping, other demeaning or adverse treatment are examples of conduct that can constitute harassment where the conduct is unwelcome, severe or pervasive and based on a protected status.

c. Unprofessional Conduct. Harassment based on protected status is unprofessional conduct and may result in discipline or discharge even though it is not severe or pervasive enough to rise to the level of unlawful discrimination under State or Federal anti-discrimination laws.

d. Harassment by or towards Non-employees. Harassment by or towards non-employees (e.g. Affiliates, volunteers, and members of the public with whom an employee interacts within the course and scope of employment) is also prohibited discrimination.

e. Violence and Threats of Violence. Violence and threats of violence constitute prohibited harassment and will result in discipline or discharge. The College has zero tolerance for violence of any nature. Any employee who engages in such conduct may be subjected to criminal prosecution in addition to discipline or discharge.

5. Disability Issues. “Disability” includes physical and mental disabilities that substantially limit one or more major life activity. Disabled individuals must be otherwise qualified to perform the essential job functions, with or without reasonable accommodations. Any employee who requires a reasonable accommodation in order to perform the essential job functions and who has not received this accommodation through communications with his or her immediate supervisor, must make a written request for accommodation to the Affirmative Action Coordinator or Office of Human Resources. The request for accommodation will be reviewed. The employee must cooperate in the interactive process to determine what reasonable accommodations the College can provide.
II. ANTI-DISCRIMINATION POLICY

Professional Personnel Employment Handbook

6. Other Anti-discrimination Policies and Law. This policy incorporates by reference any policies in the Trustees' Policy Manual regarding unlawful discrimination, sexual harassment and amorous relationships, and violence, the College's Affirmative Action Plan, and State and Federal anti-discrimination law. Prohibited discrimination under this policy shall be construed in accordance with State and Federal anti-discrimination law, except that protected status shall be as defined in this policy and harassment may constitute unprofessional conduct even though it is not sufficiently severe or pervasive as to constitute discrimination under State or Federal anti-discrimination laws.

B. Duty to Report. Any employee who is subjected to discrimination or harassment should report the conduct to the Affirmative Action Coordinator, or the Office of Human Resources. The College will promptly investigate the circumstances and take appropriate action. The State Personnel Rules, or the Student Code of Conduct may apply if the Respondent is a Classified Employee or a Student. The Affirmative Action Coordinator or Office of Human Resources will provide the reporting employee with information on the appropriate proceeding. Any employee in a supervisory position and any Faculty member who has a reasonable belief that prohibited discrimination has occurred or is occurring has an obligation to report the information to the Affirmative Action Coordinator or Office of Human Resources. "Reasonable belief" may be premised on personal observation, written or oral complaint or any other credible evidence. There is no duty to report unattributed rumors. An employee who is obliged to report should not delay reporting in an attempt to investigate or mediate. The appropriate College authorities will investigate all credible allegations of prohibited discrimination.

C. Retaliation Prohibited. There shall be no retaliation against any employee for reporting conduct to the Affirmative Action Coordinator or the Office of Human Resources that the employee honestly believes is in violation of this policy. There shall be no retaliation against any employee for assisting or participating in the investigation of the circumstances. Any retaliation should be reported and must be processed in the same manner as any other violation of this policy.

D. Discipline or Discharge. Any employee determined to have engaged in conduct prohibited by this policy shall be subject to disciplinary action, up to and including dismissal. Any employee who is dishonest in reporting that another person is engaging in conduct that violates this policy is similarly subject to disciplinary action or dismissal. Proceedings against any Professional Personnel for violation of this policy will be in accordance with the Disciplinary Procedures Policy or Termination Policy in this Handbook.

E. Legal Rights. This policy is intended to comply with federal and state anti-discrimination laws including, but not limited to, Titles VI and VII of the Civil Rights Act of 1964, the Civil Rights Act of 1991, the Education Amendments of 1972 (Title IX), the Age Discrimination in Employment Act, the Rehabilitation Act of 1973, the
Americans with Disabilities Act, and E.O. 11246 to the extent such laws apply to the College and the circumstances. This policy is not intended to and shall not be construed to in any way expand the applicable statute of limitations under these civil rights laws for pursuing claims of unlawful discrimination or harassment with the appropriate federal or state agencies or courts.

F. Procedures for Reporting and Investigating.

1. Complaints of unlawful discrimination or harassment should be made to the Affirmative Action Coordinator, or other Administrator in the Office of Human Resources, within thirty (30) calendar days after the conduct giving rise to the complaint occurs. Upon receiving a complaint of a violation of this policy, the Affirmative Action Coordinator (or other Administrator in the Office of Human Resources) shall meet with the complainant and obtain a written statement of the allegations, relevant dates when alleged conduct occurred, the identity of the respondent and any witnesses who may have relevant information relating to the complaint, a description of the information each witness is believed to possess and the College policies allegedly violated. The statement shall be signed by the complainant.

2. The complainant may be an employee, student, applicant for employment, applicant for admission, or an affiliate of the College if the respondent is a Professional Personnel employee.

3. The Affirmative Action Coordinator shall promptly give the President notice of the complaint, including a copy of the complainant’s signed statement. If the complainant refuses to sign a statement, the Affirmative Action Coordinator shall, nevertheless, report the complaint to the President.

4. If the complaint is signed and alleges conduct that, if true, violates this policy, the President shall initiate an investigation under the Disciplinary Procedures section of this Handbook, or proceed under the Termination Policy. The President may initiate an investigation even if the complainant refuses or fails to sign the complaint. The Affirmative Action Coordinator shall coordinate and oversee the investigation, unless the President delegates this responsibility to another qualified individual.

5. The President may take corrective action to protect the complainant and to prevent contact between the complainant and the respondent during the pendency of the process. Any such actions shall be in addition to any sanction imposed by the process. Suspension with pay, or reassignment pending completion of the proceedings are available options, if the President has reasonable cause to believe that the respondent has violated this policy, and the respondent’s presence on campus or in the current job position threatens to impair or disrupt the teaching,
II. ANTI-DISCRIMINATION POLICY

Professional Personnel Employment Handbook

administrative or other functions of the College, or if the President determines that such action is necessary to protect the complainant.

6. The investigation will be treated with discretion to protect the privacy of those involved to the extent possible without impairing the investigation. Confidentiality can not be promised to the complainant or the respondent because of the need to investigate and take appropriate action.

7. Records of all discrimination complaints will be maintained and stored for a minimum of three years in the Affirmative Action Office. All information contained in the complaint file is classified as confidential to the extent permitted by law.

8. The complainant may choose to withdraw his/her complaint at any point in the College investigation. The President may, nevertheless, require investigation of credible allegations of violation of this policy as appropriate to the circumstances, even if the complaint is withdrawn or untimely, and may take corrective action, disciplinary action, or pursue discharge if warranted by the available facts.

9. The complainant and the respondent shall receive written notice of the President's decision regarding the complaint and any decision by a hearing officer or the Trustees.
III. RECRUITMENT AND HIRING

A. Equal Opportunity

It is the policy of the College to comply with all applicable federal and state anti-discrimination laws. The College will not engage in unlawful discrimination in employment opportunities or educational services against any person because of race, religion or creed, sex or gender (including pregnancy), age (40 and older), national origin or ancestry, color, disability, veteran status, or sexual orientation. The process of position announcement, screening, interviewing, appointment recommendation and hiring must adhere to the College's Affirmative Action Plan, which is on file in the Office of Human Resources, the Anti-Discrimination Policy in this Handbook and any anti-discrimination policies in the Trustees' Policy Manual.

B. Recruitment of Professional Personnel

1. Coordinating Candidate Recruitment. The Vice President, Department Head or Director of the hiring unit, in consultation with the VPAA or the President, as appropriate, and the Affirmative Action Coordinator are responsible for coordinating candidate recruitment.

2. Specification of Qualifications. Job descriptions and position announcements should specify the qualifications, including education, experience and competence, which are minimally required of candidates for Professional Personnel positions. The essential functions and specific job duties should also be included in job descriptions and position announcements.

3. Search Committees. Search committees may be used in recruitment of Professional Personnel. The participants shall be approved by the President and shall include a representative of the Affirmative Action Office who will provide guidance to the search committee regarding compliance with the College's Affirmative Action Plan, anti-discrimination and equal employment opportunity policies and procedures.

C. Faculty

1. Faculty includes only Professional Personnel whose primary responsibility is to provide academic instruction to students of the College, and who may hold Academic Rank. The term “Faculty” does not include Professional Personnel who are counselors, librarians, student service personnel, or other Administrative Personnel.
III. RECRUITMENT AND HIRING

2. Search Process for Faculty.

a. Tenure-track position vacancies are widely advertised beyond the College and local community to assure that the best possible Faculty candidates are obtained. Non-tenure-track positions may be filled without advertising beyond the local community.

b. The Department Head, in consultation with Faculty and VPAA, and with the President’s approval, may form a search committee to assist in recruitment and evaluation of candidates for the position. The Department Head is responsible for reporting the recommendations of the search committee, as well as his or her personal recommendation to the VPAA for the candidate(s) to be interviewed.

c. In consultation with the VPAA, the Department Head shall arrange for interview(s) of the candidate(s) believed to be most appropriate for further consideration.

d. Following the interview process, it is the responsibility of the VPAA to make a recommendation to the President.

e. Only the President may make a formal offer of employment to a candidate. The offer is conditional on Trustee approval of the proposed appointment.

f. Once the search has been completed and an offer made, all documents and files concerning the search, offer and appointment must be submitted to the Office of the President for retention during any period required by law or College policy.

g. Faculty appointments are normally made for the Academic Year with appointments for summer teaching, when available, made by separate contracts. However, Faculty positions may also be made for a Fiscal Year or other period not to exceed twelve months.

D. Faculty Rank at Time of Initial Appointment

1. Academic Faculty. The basic rank structure for Academic Faculty shall be instructor, assistant professor, associate professor, and professor. The minimal educational and experiential qualifications for Academic Rank normally are as follows:

a. Instructor - Baccalaureate or Master’s degree plus demonstrated competence in the field of specialization and capacity for teaching.
2.3 Do the program’s published statements accurately reflect the program’s offerings?

**Explanation:**
The program’s published documents should reflect current information about the program’s offerings.

**Rationale:**
Maintaining current published information regarding the program’s offerings provides interested parties with an accurate overview of program requirements and expectations.

**Compliance May Be Demonstrated by:**
Providing program publications that reflect program offerings.

**Possible Site Assessment Methods:**
- Review of published program materials
- Interviews with faculty
- Interviews with students

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<th>Level of Effort</th>
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<th>Has Program Met Objective? (for site visitor use only)</th>
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<td>Yes</td>
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The program’s published documents accurately reflect the educational offerings of the program. Please see exhibit 2.3 for the college catalog and the program brochure, and pages from the program website, www.mesastate.edu.
REQUIRED COURSES

GENERAL EDUCATION:
ENGL 111 English Composition
ENGL 112 English Composition
6 hours Behavioral Sciences or Humanities
(consult the catalog)
MATH 113 College Algebra or UTEC 107 Math for Technology
HPWA 100 and one HPWE course

PREREQUISITE COURSE:
BIOL 209 and 209L Anatomy and Physiology with Lab

RADIOLOGIC TECHNOLOGY COURSES
RTEC 114 Intro to Clinical Lab
RTEC 120 Patient Care
RTEC 121, 131 Anatomy and Positioning
RTEC 121 and 131 Labs
RTEC 122, 132 Radiographic Principles
RTEC 122L and 132 Labs
RTEC 125 Radiation Physics
RTEC 135 Radiation Biology and Protection
RTEC 124, 214, 224 and 234 Clinical Experience
RTEC 251 Radiographic Pathology
RTEC 261 Radiographic Review
RTEC 255, 265 Radiographic Assessment

MISSION STATEMENT

The Radiologic Technology Program at Mesa State College provides a foundation for excellence in professional technologist practice. It is designed to prepare the graduate, having met national certification requirements, to practice as an entry-level radiologic technologist, promoting value-based behaviors and learning as a life-long practice.

PROGRAM GOALS

Fulfillment of the program's mission is assessed by the degree to which the program achieves the following goals:

1. Utilize knowledge gained from liberal education courses as the base for radiologic technology education.
2. Ensure the utilization of broad-based knowledge and skills as a requisite for the competent entry-level technologist.
3. Facilitate the development of applied skills in communication, critical thinking and problem solving, and life-long learning in professional practice.
4. Facilitate the development of value-based behaviors as the foundation for professional practice.
ASSOCIATE DEGREES

PHYSICS

School of Natural Sciences and Mathematics

Associate of Science

Study directed toward the Associate of Science degree will serve as a basis for the Bachelor of Science degree with the same discipline and also for other programs at Mesa State College and at other colleges. Faculty advisors will assist students in planning programs to meet requirements. Programs of study in the sciences are very sequential and advanced planning for the transition from an associate program to a baccalaureate program is imperative for economy of time and effort.

1. Associate of Science graduation requirements (for further information, see section on Degree Requirements in this catalog)

Minimum semester hours required: 60

a. General Education for Associate Degree* 34
b. Human Performance and Wellness 2

2. Course requirements specific to this degree

a. Required courses

<table>
<thead>
<tr>
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<th>Cr. Hrs.</th>
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<tbody>
<tr>
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<td>Fundamental Mechanics</td>
<td>(4)</td>
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<tr>
<td>PHYS 131L</td>
<td>Fundamental Mechanics Lab</td>
<td>(1)</td>
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<tr>
<td>PHYS 132</td>
<td>Electromagnetism and Optics</td>
<td>(4)</td>
</tr>
<tr>
<td>PHYS 132L</td>
<td>Electromagnetism and Optics Lab</td>
<td>(1)</td>
</tr>
<tr>
<td>PHYS 231</td>
<td>Modern Physics</td>
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</table>

3. Electives 11

4. Special requirements

General Education and course requirements in discipline area plus electives chosen in consultation with the student’s advisor up to the minimum of 60 credit hours comprise the requirements for this emphasis.

5. See faculty advisor for a program sheet detailing exact and complete requirements for this degree.

* No substitutions can be made from the general education common core.

RADIOLOGIC TECHNOLOGY

School of Business and Professional Studies

Associate of Applied Science

The Radiologic Technology graduate is eligible to take the examination administered by the American Registry of Radiologic Technologists.

Minimum semester hours required: 75

1. Pre-Requisite

   BIOL 209, 209L Human Anatomy and Physiology and Lab 4

2. Course general education requirements for this degree

   a. English Composition 6
   b. Social or Behavioral Science, Humanities or Applied Science (PSYC 150, General Psychology recommended) 6
   c. Human Performance and Wellness 2
   d. MATH 113 College Algebra 4
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<th>COURSE DESCRIPTIONS</th>
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## RADIOLOGIC TECHNOLOGY

### School of Business and Professional Studies

#### RTEC 114 Radiographic Clinical Experience I
- Introduces the clinical education experience in both the laboratory and at the clinical education center. This course is divided into two eight-week sessions. The first portion will be spent in the Autotutorial Laboratory on campus and the second portion will be spent at an assigned clinical education site. Corequisites: RTEC 121, 121L, 122, 122L, 120, 125. Prerequisites: BIOL 209, 209L, acceptance into the Radiologic Technology Program.

#### RTEC 120 Introduction to Radiologic Technology and Patient Care
- Introduction to radiologic technology with emphasis on the education program, the profession, and the health-care delivery system. Fundamentals of patient care including ethics, professional conduct, communication, radiation protection and patient management. Study of medical terminology is included. Corequisites: RTEC 114, 121, 121L, 122, 122L, and 125. Prerequisites: BIOL 209, 209L, acceptance into the Radiologic Technology program.

#### RTEC 121 Radiographic Anatomy and Positioning I
- Instruction in every phase of radiography in an integrated coverage of appendicular skeletal system, abdomen, thoracic viscera and body systems. Radiographic anatomy and positioning are discussed and applied in the energized laboratory. Corequisites: RTEC 114, 120, 122, 122L, and 125. Prerequisites: BIOL 209, 209L, acceptance into the Radiologic Technology program.

#### RTEC 122 Principles of Radiographic Exposure
- Fundamental factors which govern and influence the radiographic image including equipment, accessory devices, exposure mathematics, and processing. Technical and prime exposure factors are discussed and applied in the energized laboratory. Corequisites: RTEC 114, 120, 121, 121L, and 125. Prerequisites: BIOL 209, 209L, acceptance into the Radiologic Technology program.

#### RTEC 124 Radiographic Clinical Experience II
- Continues clinical education and introduces additional concepts correlating skills with academic courses. Includes one hour a week of film critique provided by the clinical instructor. Corequisites: RTEC 131, 131L, 132, 132L, 135. Prerequisite: RTEC 114 or consent of the instructor.

#### RTEC 125 Radiologic Science
- Basic physics, fundamentals of x-ray generating equipment, x-ray production and interaction, beam characteristics and units of radiation measurement. Corequisites: RTEC 114, 120, 121, 121L, 122, and 122L. Prerequisites: BIOL 209, 209L, acceptance into the Radiologic Technology program.

#### RTEC 131 Radiographic Anatomy and Positioning II
- Continuation of RTEC 121 with instruction in every phase of radiography of the axial skeleton, digestive system, urinary system, cranium, spinal column and facial bones. Corequisites: RTEC 124, 132, 132L and 135. Prerequisites: RTEC 120, 121, 121L, 122, 122L, and 125.

#### RTEC 132 Radiographic Equipment and Special Imaging
- Continuation of RTEC 122 including equipment utilized to produce diagnostic images, recording media and techniques, quality assurance and computer applications in diagnostic radiology. Advanced imaging modalities of computed tomography, MRI, cardiovascular imaging technology, ultrasound and mammography are also presented. Applied practice of quality assurance, technique charts and mammographic demonstrations are performed in the laboratory. Corequisites: RTEC 124, 131, 131L, and 135. Prerequisites: RTEC 120, 121, 121L, 122, 122L, and 125.

#### RTEC 135 Radiation Biology and Protection
- Principles or radiation interaction in cells and the effect and factors affecting cell response to radiation, acute and chronic effects or radiation, dose equivalent limits, and regulatory involvement. Responsibility by the radiographer to patients, personnel, the public and self are also discussed. Corequisites: RTEC 124, 131, 131L, 132, 132L. Prerequisites: RTEC 120, 121, 121L, 122, 122L, 125.
RTEC 214 Radiographic Clinical Experience III (8)
Continues clinical education and introduces additional concepts correlating skills with academic courses. Includes film critique provided by the clinical instructor. Prerequisite: completion of all 100 level radiologic technology courses or permission of the instructor.

RTEC 224 Radiographic Clinical Experience IV (8)
Continues clinical education and introduces additional concepts correlating skills with academic courses. Corequisites: RTEC 251, 255. Prerequisite: RTEC 214 or consent of the instructor.

RTEC 234 Radiographic Clinical Experience V (8)
Continues clinical education and introduces additional concepts correlating skills with academic courses. Corequisites: RTEC 261, 265. Prerequisites: RTEC 224, 251, 255 or consent of instructor.

RTEC 251 Radiographic Pathology (3)
Radiographic and advanced modality equipment, radiographic anatomy and pathology involved in specialized and highly technical procedures. Contrast media, pharmacology and venipuncture are also covered. Corequisites: RTEC 224, 255. Prerequisite: All RTEC 100 level courses.

RTEC 255 Radiographic Assessment I (1)
Radiographic film quality critique and patient care assessment. Utilizes previous knowledge of film quality factors and patient care techniques as well as an understanding of pathology demonstrated on radiographs. Corequisites: RTEC 224, 251. Prerequisite: all RTEC 100 level courses, RTEC 214 or consent of instructor.

RTEC 261 Radiographic Review (3)
Departmental administrations, radiologic records and job seeking skills are discussed. The major portion of this course is devoted to compiling a portfolio of radiographic fundamentals in all aspects of the program; and reviewing in preparation for the national registry examination. Corequisite: RTEC 234, 265. Prerequisites: All RTEC 100 level courses and RTEC 224, 251 and 255.

RTEC 265 Radiographic Assessment II (1)
Continuation of RTEC 255. Radiographic film quality critique and patient care assessment. Corequisites: RTEC 234, 261. Prerequisites: RTEC 214, 224, 251, 255 or consent of instructor.

SOCIAL SCIENCE

SOCI 121 Americorps Field Placement I (3)
Exploration of the practice and theory of community service. Prerequisites: enrollment in a national Service Program, approval of AmeriCorps Directors. (Spring)

SOCI 122 Americorps Field Placement II (3)
In-depth analysis, strategic planning, implementation and evaluation of community projects. This class shall give the students an opportunity to examine real issues in the community and become a part of the problem-solving process. Prerequisite: SOCI 121. (Fall)

SOCI 136 The African-American Experience (3)
An introduction to the experience of African-Americans from the perspective of the Social Science disciplines. (Spring)

SOCI 296 Topics (1-3)

SOCI 310 Methods of Social Research (3)
Research methods and their application to the social sciences. Prerequisites: PSYC 150 or SOCO 260 and STAT 200. (Spring)

SOCI 340 Methods of Teaching Social Studies: Secondary Schools (4)
Examination and comparison of the social studies, exploring both new and traditional curricula, philosophies, and teaching methods. 75 hours of field work required. Prerequisites: upper division status and 21 semester hours of social sciences. (On demand)

SOCI 351 History of Ideas: Ancient and Medieval Periods (3)
The major ideas of man and society in ancient Greece and Rome with attention to social conditions influencing their development and transmission into the social thought of Medieval Europe. (On demand)
RADIOLOGIC TECHNOLOGY PROGRAM REQUIREMENTS AND APPLICATION

PREREQUISITE (5 credits):
BIOL 209/209L—Human Anatomy & Physiology I
THIS COURSE IS A PRE-REQUISITE TO THE PROGRAM. Completion of this course is not required to apply to the program. However, acceptance into the program will be based upon successful completion of this course (successful completion means achieving a grade of "C" or higher). This course must be completed within the five years prior to applying to the program.

GENERAL EDUCATION REQUIREMENTS (18 credits):
- English Composition (ENGL 111 and ENGL 112)
- Two Social/Behavioral Science, Humanities or Applied Studies electives (see list)
- Human Performance and Wellness (HPWA 100-Health and Wellness and one aerobic activity elective) (see list)
- MATH 113—College Algebra (or) UTEC 107—Mathematics for Technology
(General education requirements may be taken previously or simultaneously with program courses.)

PROGRAM COURSES (a total of 57 credits):

Fall Semester (13 credits)
RTEC 114 — Radiographic Clinical Experience I
RTEC 120 — Introduction to Rad Tech and Patient Care (1st mod)
RTEC 121/121L — Radiographic Anatomy and Positioning/Lab
RTEC 122/122L — Principles of Exposure/Lab
RTEC 125 — Radiologic Science (2nd mod)

Spring Semester (12 credits)
RTEC 124 — Radiographic Clinical Experience II
RTEC 131/131L — Radiographic Anatomy and Positioning II/Lab
RTEC 132/132L — Radiographic Equipment and Special Imaging/Lab
RTEC 135 — Radiation Biology and Protection

Summer Session (6 credits)
RTEC 214 — Radiographic Clinical Experience III

Fall Semester (12 credits)
RTEC 224 — Radiographic Clinical Experience IV
RTEC 251 — Radiographic Pathology
RTEC 255 — Radiographic Assessment I

Spring Semester (12 credits)
RTEC 261 — Radiographic Review
RTEC 265 — Radiographic Assessment II
RTEC 234 — Radiographic Clinical Experience V

APPLICATION INFORMATION
For consideration of acceptance into the Radiologic Technology Program all applicants must submit the following, to the Program Director, by March 1. It is the applicant's responsibility to ensure that all required paperwork is received by the Program Director prior to the deadline:

1. ACT or SAT scores
2. High school transcripts and/or GED scores
3. Previous college transcripts
4. Transcript evaluation
5. Radiologic Technology Program Application (including handwritten explanation).

The Radiologic Technology Program Application for Admission Form must be completed and received by March 1 in order to be considered for admittance into the program which begins in the fall semester. A student currently on academic probation or suspension may not apply.
Applicants who are not currently enrolled at Mesa State College must also apply and be
accepted for admission to the college. Instructions and requirements for college admission are
printed on the Mesa State College application form. Admission to Mesa State College is
mandatory.

All transfer students must request a transcript evaluation from the Registrar's Office. This
transfer evaluation will determine which general education transfer courses will be accepted
towards graduation requirements at Mesa State College.

Prior to March 1, all applicants must contact the Program Director to assure that all requested
transcripts and ACT/SAT scores have been received. In addition, the applicant must have
received verification of admittance to Mesa State College.

Enrollment in the Radiologic Technology Program is limited. Applicants are evaluated
academically based on the following admission criteria:

- Composite ACT/SAT scores (there is no minimum score requirement).
- High school course work (including cumulative grade point average and/or GED scores).
- Background in natural science and mathematics (including high school or college courses in biology,
  physics, chemistry, geometry).
- College course work (including completed program requirements and cumulative GPA).

Following the academic evaluation, personal interviews may be conducted to determine the 18
applicants accepted into the Radiologic Technology Program. Accepted applicants begin the
program in the fall. Applicants who are not accepted and wish to reapply must submit another
application prior to March 1 the following year.

RADIOLOGIC TECHNOLOGY APPLICATION FORM

CONTACT INFORMATION:
Ryan
kryan@mesastate.edu
(970) 248-1598
revised: 03/04/2004
2.4 Does the program have due process procedures that are readily accessible, fair, and equitably applied?

Explanation:
Due process procedures outline the steps for formal resolution of a grievance or complaint. A due process procedure must identify timeframes for completion of each step and provide for final appeal to a source external to the educational program.

Rationale:
Due process procedures provide students with an unbiased avenue to pursue complaints or grievances and the opportunity to be heard in a timely manner.

Compliance May Be Demonstrated by:
Providing a copy of the program’s due process procedure.

Possible Site Assessment Methods:
- Review of student handbook
- Review of institutional catalog
- Interviews with faculty
- Interviews with students

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Please see exhibit 2.4a for the college due process policy and the student handbook, page 21 (exhibit 2.4b) for the program due process policy. All students and applicants have the right to appeal a decision by following the due process procedure.
ACADEMIC INTEGRITY

Statement of Principle and Procedure for Resolution of Violation

The faculty, administration, and students of Mesa State support the principle that all individuals associated with the academic community have a responsibility for establishing, maintaining, and fostering an understanding and appreciation for academic integrity.

Student Academic Grievance and Appeal Procedures

It is always accepted as academic principle that the grade assigned by an instructor is inviolable and not available for grievance. Only in the most drastic and rare circumstances, and after exhaustive review will administrative authority change a grade. Academic grievances usually take the form of academic performance dispute; however, other areas under this procedure could include concerns with conditions of withdrawal from a class, transcripts, evaluation of academic credit for transfer students, discrimination or sexual harassment, disabilities and reasonable accommodation considerations influencing grades, exploitation or intimidation, treatment of students within the classroom, or topics discussed within the classroom unrelated to subject matter. These examples are in no way to be considered a complete or full listing of what constitutes an academic grievance.

If you have an academic grievance, this procedure is to provide the student with the means for resolving conflict with a faculty member.

1. The student who has a specific conflict should first discuss and attempt to resolve the matter with the faculty member in question or whoever is involved.

2. If the student does not believe that the initial conference with the faculty member has resolved the conflict, a request may be made for a conference with the faculty member's department head. If the faculty member is the department head, the student may proceed to Step 3.

3. If the student does not believe that the conference at Step 2 has resolved the conflict, a request may be made with a representative from the Office of the Vice President for Academic Affairs. At this point, the student will be expected to present his/her concerns in writing within five (5) working days of the last conference or occurrence, explaining the relevant facts and what efforts have been pursued for redress. The Office of the Vice President for Academic Affairs will issue a written reply to the student within 20 calendar days of the conference.

4. Should further appeal be necessary, such notice must also be filed with five (5) working days from denial. The decision by the Vice President for Academic Affairs will be final.
Student Responsibility and Expectations

Mesa State is a community of scholars sharing similar academic values and expectations. Their primary academic responsibility is to seek and to state the truth as they understand it. To this end, faculty will present course content in a balanced manner that honors different viewpoints, exercise self-discipline and judgment in using, extending and transmitting knowledge, and practice intellectual honesty. A value fundamental to the principle of independent learning is the requirement of honesty and integrity in the performance of academic assignments, both inside and outside the classroom. By submitting work which is not your own, you may forfeit the opportunity to continue as a student. Each student accepts the responsibility of maintaining honor in academic affairs and the support of this principle as it applies to others. You, as a student, accept the following statements as a part of your obligation to the Mesa State academic community:

1. Never intentionally represent the works or ideas of others as your own without proper acknowledgment. Examples include a submission of purchased research papers as one’s own work, paraphrasing and/or quoting material without properly documenting the source be it from a hard document or internet web page;

2. Never use unauthorized material, falsified, altered, or fabricated information in an academic assignment or campus related activity;

3. Never take someone else’s ideas during a discussion or from a lecture without citing the individual and the circumstances of the lecture or discussion;

4. Never infringe upon the rights of other students by removing material from the library without authorization, defacing or destroying library materials, or similarly abusing library privileges. Such acts are considered to be academic dishonesty and will be treated as such;

5. Never give or receive assistance on an examination, quiz, term paper, or project unless specifically authorized by the instructor to do so;

6. Never forge an academic document;

7. Never submit in whole or substantial portions of either written or oral academic work which has previously earned credit, when submission is made without instructor authorization;

8. To respect the rights of other students in the area of computer usage. Specifically, every student has a right to privacy and a fair share of resources. Any abuse of these rights or unauthorized access to another student’s computer program is considered academically dishonest;

9. To take appropriate action, as dictated by personal honor, upon becoming aware of a violation of academic integrity. This includes reporting the violation to the faculty member, the department head, confronting the student(s) involved, or exerting some form of peer pressure or social sanction.

The protection of academic integrity requires clear and consistent standards and definitions, as well as confrontation and sanctions when individuals intentionally
violate those standards. The most important of the definitions is that of academic dishonesty. Academic dishonesty undermines the educational experience, lowers morale by engendering a skeptical attitude about the quality of education, and negatively affects the relationship between students and faculty.

Academic dishonesty is the intentional act of fraud, in which an individual seeks to claim credit for the work and efforts of another or uses unauthorized material or fabricated information in any academic exercise. Academic dishonesty also includes, but is not limited to: forgery of academic documents, intentionally impeding or damaging the academic work of others, or assisting others in acts of academic dishonesty, cheating in the classroom, unauthorized attendance or causing a disturbance within a classroom, or multiple submissions.

When acts of academic dishonesty occur, appropriate members of the academic community must understand and use established procedures for determining the facts and, if there has been academic dishonesty, deciding on the degree of dishonesty and the sanction(s) that should be imposed. Faculty members have the authority to handle instances of academic dishonesty by assigning reduced grades for the work or a failing grade in the course. To this end, the following policy has been adopted.

1. Incidents of academic dishonesty include but are not limited to: plagiarism, cheating, fabrication and falsification, multiple submissions, misuse of academic materials, complicity of academic dishonesty, or unauthorized collaboration. Faculty members have the leeway to handle such incidents as they see fit; they are not required to involve parties other than the offender(s). The penalties that lie within a professor's prerogative include giving a reduced grade or failing the student for the compromised assignment/exam/project, or failing the student for the course.

2. Should the professor deem it necessary to exact a more severe penalty, and/or should the incident demand the attention of a higher authority, the case can be brought before an Academic Dishonesty Committee. The committee can rule on the gravity of the infraction and the corresponding degree of sanction. The recommendation of the professor who has brought the case will carry a good deal of weight toward the ruling. Penalties up to and including the expulsion of the student from the College may be imposed, if this level of discipline is determined to be appropriate.

3. Students have the right to appeal decisions against them. If the matter was handled between student and professor alone, the student can direct an appeal to the Department Head (if the Department Head is the professor involved, the appeal is directed to Office of Academic Affairs); if the matter was handled by an Academic Dishonesty Committee, the appeal is directed to the Office of the Vice President for Academic Affairs. To conduct an appeal, the student must submit
his/her case in writing to the appropriate authority within two calendar weeks of the initial adverse decision. No later than two additional calendar weeks from the filing of the appeal, a hearing will be convened that includes the student, the professor, the authority to whom the appeal was directed, and a student representative appointed by the Associated Student Government. Students do not serve on the hearing in a decision-making capacity. A decision will be issued on the appeal no later than one calendar week from the date of the hearing.

(NOTE: The above timeline may be subject to negotiation should the procedure, or a portion thereof, fall within a school vacation. Even so, the intent of the College is always to deliver a decision in as timely a manner as possible.)

4. Should the appeal be denied at the level of Department Head, the student could appeal further to the Office of the Vice President for Academic Affairs. This second hearing will take the form stated above. The student who desires a second hearing must resubmit an appeal within one calendar week after the adverse decision. There is no appeals process beyond the level of the Office of the Vice President for Academic Affairs.

5. Incidents of academic dishonesty entailing punitive action that is either uncontested by the student, or contested successfully, should be recorded and submitted to the Office of the Vice President for Academic Affairs. The office will keep these reports on file, and the affected student will be so informed. The SOLE purpose of this file is to determine whether a student, apprehended for one instance of academic dishonesty, has committed comparable infractions in another class or classes during his/her academic career. When a professor has identified an offender, the professor may check with the Office of the Vice President of Academic Affairs as to whether any other reports have been filed on that particular student. No one outside of faculty and the Office of Vice President of Academic Affairs will have access to the file, and a student's record in the file will be expunged once s/he has graduated.

Professors are strongly urged to bring cases involving repeat offenders to an Academic Dishonesty Committee, as penalties within a professor's prerogative are likely not sufficiently severe as they could be in these instances.
POLICIES and STUDENT CODE OF CONDUCT

Student Conduct, Rights, and Responsibilities General Statement
The matriculation of a student at the College implies adherence to policies and procedures inherent to the scholarly and educational pursuits of the academic community. You, the student, voluntarily assume obligations of performance and behavior reasonably imposed by this institution according to its lawful missions, processes, and functions. The College has a unique charge in allowing for free, reasonable, and rational discourse while establishing an environment conducive to contemplative study and research. Interference in any manner with the public or private rights of other individuals or conduct, which threatens or endangers the health and safety of any person, will not be tolerated by the College. Conduct at all times should reveal mature judgment and a sense of moral, civil, and academic responsibility.

Code of Conduct
You are expected to act as a responsible adult and will be held accountable for your behavior. Mesa State is a community consisting of students, faculty, support staff, and administrators. The College does not attempt to define all "student conduct." It relies on the student to assume the responsibility and obligation of conducting yourself in a manner compatible with the purpose of the College as an educational institution and the community as a place of residence. In addition to College rules and regulations, you are subject to the same local, state, and federal laws as non-students and are beneficiaries of the same safeguards of rights as non-students. The academic community has a long and cherished tradition of expecting its members to conduct themselves in accordance with the highest standards of personal behavior. The following are among those acts of misconduct that are not consistent with the educational goals of Mesa State or with the traditions of the academic community. These acts are intended to provide guidelines, not prescriptions of behavior, and each individual case will be decided upon its own merits. The Office of the Dean of Students is also available to provide consultations and advocacy on behalf of its students. Student Affairs personnel can advise and assist students with unusual circumstances or with problems not addressed elsewhere in the Student Handbook. Normally, conduct of the following nature is subject to disciplinary sanctions:

1. Academic dishonesty, such as cheating, plagiarism, or knowingly furnishing false information to the College;
2. Forging, alteration, misuse or mutilation of College documents, records, identification materials, or educational materials.
3. Intentional obstruction, demonstrations, or disruption of teaching, research, administrative, disciplinary proceedings, or other College activities, including public service functions and other authorized activities on College premises;
4. Intentional interference with an individual's rights to free speech, freedom to make academic inquiry, or freedom of conscience;
5. Physical abuse or harassment of any person on College premises or at College sponsored or supervised functions, or any conduct which threatens or endangers the health or safety of any such person or oneself;
6. Attempted or actual theft of, or unauthorized possession of, or damage to, property of the College or of a member of the College community;
7. Unauthorized entry into or use of College facilities, equipment, or materials;
8. Violation of rules governing residence in College owned or controlled property;
9. Failure to comply with the directions of College officials acting in the performance of their duties;
10. Violation of civil law, criminal law, or College regulations concerning the possession and use, or unlawful sale of alcoholic beverages;
11. Violation of civil law, criminal law, or College regulations concerning the use, sale, possession, manufacturing, or distribution of drugs;
12. Disorderly conduct or loud, indecent or obscene conduct that is unwanted, and unreasonable for the area, time or manner that it occurs on College-owned or College-controlled property or at College sponsored functions;
13. Violation of College policies or campus regulations, including the use of College facilities;
14. Weapons of any kind are not appropriate to the College experience and are not allowed on campus (see weapons policy);
15. Unauthorized access and/or abuse of computer functions or equipment or any violations as outlined in the Mesa State Computer Use Policy;
16. Hazing, defined as an act which endangers the mental or physical health or safety of a student, or which destroys or removes public or private property, for the purpose of initiation, admission into, affiliation with, or as a condition for continued membership in, a group or organization;
17. Conduct which could be viewed as a violation of federal, state and municipal law, or any other conduct not included above which adversely affects the function of the College and the pursuit of its educational purposes and objectives;
18. Abuse of the Judicial System;
19. Making a false report. The false reporting of a fire, bomb, assault, or any other emergency either by the activation of an alarm or any other method, and/or reporting of a crime that did not occur;
20. Violations of any of the restriction, conditions, or terms of any sanctions resulting from a previously held disciplinary hearing or housing behavioral contract; and,
21. Misappropriation or misuse of student organization’s funds or property.

The College views violations of the Student Code of Conduct separate from the Rule of Law, which govern civil and criminal behavior. The College role in code of conduct violations is to discipline students, not prosecute students. Violations may parallel the laws of society in what they prohibit; however, neither the campus proceedings, the standards of proof required, nor the discipline imposed
is even remotely similar in either the nature or substance to criminal procedures, standards of proof, or punishment. In fact, proceedings under the Student Code of Conduct may be carried out prior to, simultaneously with or following civil or criminal off-campus proceedings.

**Judicial Authority**

Infractions of College policy governing student behavior should be handled at the first level of authority when possible. If resolution is not achieved at this level, general campus violations should be directed to the Campus Hearing Officer (CHO). Violations involving the Housing and Residence Life Community Standards should be directed to the appropriate Residence Life Staff member. Generally, College jurisdiction and discipline shall be limited to conduct which occurs on College premises, property owned by the College, all satellite campuses, or at College authorized functions, or which adversely affects the College community and/or the pursuit of its objectives.

**Judicial Policies**

1. Any member of the College community may file charges against any student for misconduct. Charges shall be prepared in writing and directed to the Campus Hearing Officer (CHO).

2. The Campus Hearing Officer may conduct an investigation to determine if the charges have merit and/or can be disposed of administratively by mutual consent of the parties involved on a basis acceptable to the CHO. Such disposition shall be final and there shall be no subsequent proceedings. If the charges cannot be disposed of by mutual written consent, the CHO shall convene a hearing before the Campus Judicial Board. The Campus Judicial Board is composed of members of the campus community including students, faculty, and staff. Student representation on the Campus Judicial Board will consist of Associated Student Government Justices of the Supreme Court. The Faculty Senate appoints faculty and staff are appointed by the Dean of Students.

3. All charges shall be presented to the accused student in written form. A time shall be set for a hearing with maximum time limits for scheduling of hearing extended at the discretion of the Campus Judicial Board.

4. Hearings shall be conducted by the Campus Judicial Board according to the following guidelines:
   a. Hearings normally shall be conducted in private and conducted in an informal basis. Every effort will be made to arrive at the truth and to insure a fair hearing without the appearance of a court proceeding.
   b. Admission of any person to the hearing shall be at the discretion of the Campus Judicial Board with permission of all involved parties.
c. In hearings involving more than one accused student, the Campus Judicial Board, by discretion, may permit the hearings concerning each student to be conducted separately.

d. The complainant and the accused have the right to be assisted by any advisor they choose, at their own expense. The advisor may be an attorney. However, the complainant and/or the accused is responsible for presenting his/her own case. The advisor may not speak on the student's behalf, but may advise the student.

e. The Campus Judicial Board, complainant and the accused have the privilege of presenting witnesses, subject to right to question by involved parties. Pertinent records, exhibits, and written statements may be accepted as evidence for consideration at the discretion of the Campus Judicial Board.

f. All procedural questions are subject to final decision by the Campus Judicial Board. Following the hearing, the Campus Judicial Board shall determine on the basis of whether it is more likely than not, that the accused student violated the Student Code of Conduct.

g. Should a student disregard a notice to appear before the Campus Judicial Board, the hearing will continue, a determination will be made, and sanction(s) imposed if she/he is found in violation of the Student Code of Conduct.

5. There shall be a single verbatim record - such as audio/video/written - of hearing proceedings. The record shall be the property of the College.

Sanctions

1. The following sanctions may be imposed upon any student found to have violated the Student Code of Conduct:
   
a. Warning - A notice in writing to the student that the student is violating or has violated institutional regulations.

b. Probation - A written reprimand for violation of specified regulations. Probation is for a designated period of time and includes the probability of more severe disciplinary sanctions if the student is found to be violating any institutional regulation(s) during the probationary period.

c. Loss of Privileges - Denial of specified privileges for a designated period of time. This can include placing a disciplinary hold on all academic records and accounts.

d. Restitution - Compensation for loss, damage, or injury. This may take the form of appropriate service and/or monetary or material replacement.

e. Discretionary Sanctions - Work assignments, service to the College or other related discretionary assignments, which is approved by the CHO.
f. College Suspension - Separation of the student from the College for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.
g. College Expulsion - Permanent separation of the student from the College.

2. More than one of the sanctions listed above may be imposed for any single violation.

3. Other than College expulsion, disciplinary sanctions shall not be made part of the student's permanent record, but shall become part of the student's confidential record.

4. The following sanction may be imposed upon groups or organizations:
   a. Those sanctions listed above, a through g.
   b. Deactivation - loss of privileges, including College recognition for a specified period of time.

5. Following the hearing, the Committee Hearing Officer (CHO) shall advise the accused in writing, within five working days, of determination and the sanction(s) imposed.

Interim Suspension
Any College Administrative Officer reserves the right to temporarily suspend a student without prejudice pending the outcome of a Campus Judicial Board Hearing under the following circumstances:

1. Interim suspension may be imposed only:
   a. To ensure the safety and well being of members of the College community or preservation of College property;
   b. To ensure the student's own physical or emotional safety and well being;
   c. If the student poses a definite threat of disruption of, or interference with, the normal operation of the College.

2. During the interim suspension, students shall be denied access to the campus, including classes and/or all other College activities or privileges for which the student might otherwise be eligible, as determined by the Office of the Dean of Students.

Appeals
1. A decision reached by Campus Judicial hearing or a sanction imposed may be appealed by accused students within five (5) working days of the decision. Such appeals shall be in writing and shall be delivered to the Associate Vice President and Dean of Students or his/her designee.

2. Except as required to explain the basis of new evidence, an appeal shall be limited to review of the verbatim record of the initial hearing and supporting documents for one or more of the following purposes:
   a. To determine whether the original hearing was conducted fairly in light of the charges and evidence presented, and in conformity with prescribed procedures giving the complaining party a reasonable
opportunity to prepare and to present a rebuttal of those allegations;
b. To determine whether the decision reached regarding the accused student was based on substantial evidence, that is, whether the facts in the case were sufficient to establish that violation of the Student Code of Conduct occurred;
c. To determine if the sanction(s) imposed were appropriate given the violation of the Student Code of Conduct which the student was found to have committed;
d. To consider new evidence, sufficient to alter a decision, or other relevant facts not brought out in the original hearing, because such evidence and/or facts were not known to the person appealing at the time of the original hearing;
e. All sanctions will be considered in full effect during the appeal process; that is, students will be expected to abide by all sanctions and in spite of the appeal process.

3. The Campus Judicial Board will hear all appeals in which the initial adjudication results include either a College expulsion or College suspension.

Interpretation and Revision
1. Any question of interpretation regarding the Student Code of Conduct shall be referred to the Assistant Vice President and Dean of Students or his/her designee for final determination.
2. It is reasonable to expect that some students will not agree with established policies; and means to implement change are available to students via student government representation and/or formal proposals for policy change to the College Administration. However, until a particular policy is administratively altered, students are responsible to abide by published policies or risk being held accountable judicially for misconduct.
3. The Student Code of Conduct shall be reviewed at least once every five years under the direction of the Assistant Vice President and Dean of Students or his/her designee.

Access to Student Educational Records
FERPA provides current, former students, and parents of dependent students the right to inspect, review, and challenge their educational records. Parents may challenge a student's denial of consent to access by producing the most current copy of their Internal Revenue Form 1040 showing the student in question is a dependent. Students are permitted to inspect and review their educational records within a maximum of 45 days after the request is received. Students may not review financial information received from their parents or guardians, confidential letters, and recommendations placed in their files prior to January 1, 1975, academic records containing information regarding other students, administrative, disciplinary, law enforcement, student health records, and/or records which are maintained in the sole possession of the maker. While
students who have a financial hold or past due account (all holds included) have a right to inspect their academic records, no transcript will be released to the student or other party until holds are reconciled. Bankruptcy, however, removes any financial obligations the student has to Mesa State. Please contact the Registrar's Office if you have any questions regarding this policy.

Alcohol and Drug Policy
As a public institution and state agency, Mesa State expects all members of the College community to be responsible for their own behavior within the context of state and federal law and College regulations. Mesa State is dedicated to instilling positive change in students' lives. The College believes the abuse of alcohol and drugs is counterproductive to this goal and has established campus policies and programs, which support the following:

Reduce consumption by those who use alcohol heavily;
Responsible consumption for those who occasionally drink alcohol.

The campus policy regarding alcohol/drug use is the following:

1. Alcoholic beverages are not allowed on campus except for events pre-approved by the College Center Office or the President's Office. Otherwise, the possession and consumption of alcoholic beverages on the campus grounds and in all campus buildings, including the residence halls and Walnut Ridge Apartments, is not permitted by students, faculty, staff, or guests regardless of whether those individuals are of legal age or not.
2. Illegal use, possession, or distribution of drugs on campus will result in disciplinary action and probable arrest.
3. All controlled substances on campus in violation of state laws, local ordinances will be confiscated or destroyed.
4. Visible intoxication and any disruptive behavior conducted on campus or at campus sponsored events off campus resulting from the use of alcohol or other drugs may result in disciplinary actions.
5. Furnishing alcoholic beverages to persons under the legal age or possession and consumption of alcoholic beverages by those under the legal age will result in disciplinary action and probable arrest.
6. Use of College funds to purchase alcoholic beverages is not allowed.

The disciplinary actions for violations of the campus alcohol/drug policy are intended to accomplish the following objectives: To deter students from further violations of campus policy; to educate students concerning the health effects of alcohol/drug abuse.

Disciplinary actions may include:
- Referral for confidential personal counseling,
- Referral for confidential treatment of chemical dependencies,
- Required signing of a behavioral contract,
- Parental (guardian) notification,
- Termination of Housing and Dining Contract with full payment due,
- Permanent or temporary suspension from Mesa State,
- Expulsion from Mesa State.

Students are responsible for observing College policy, state and federal regulations pertaining to alcohol and controlled substances. Students who are in violation of the College policy will be subject to the following disciplinary review:

1. Incidents, which occur within the residence halls or Walnut Ridge Apartments, will be reviewed by the Associate Director of Housing. Depending on severity of the incident, the student may be required to report to the Campus Hearing Officer.
2. The Campus Hearing Officer will handle incidents that occur on campus but not within the residence halls or Walnut Ridge Apartments.
3. In addition to review of infractions of campus policies by the College, violations of local, state, and federal laws will be reported to law enforcement officials for possible prosecution.
4. A student that is convicted in a criminal court for possession of illegal drugs or substances can lose all financial aid assistance.

**Canvassing**
You may conduct canvassing (surveys, petitions, and questionnaires) on campus after obtaining authorization from the College. For canvassing to be conducted in the classroom, the Office of the Vice President for Academic Affairs must give approval. For canvassing in all other areas; the Director of Housing and College Center must give approval. For surveys or questionnaires conducted on campus as part of a student research project, authorization must be obtained from the college through the Human Subjects Committee. Please contact the Director of Sponsored Programs 248-1424, for procedural and approval processes.

**Chalking**
The sidewalks within the boundaries of the College may be used as billboards to advertise specific events open to the campus community. Notice of events should be placed no more than five days prior to an event and removed the day after the event.

The College allows expressive chalking within a stretch of sidewalk between Tomlinson Library and Wubben Hall, as a place where students can express their thoughts. We ask that this area be a continuation of the Academy's mission – a conversation to the greater community, a conversation of respect and civility.

This area is open from Monday at 12:00 a.m. until Thursday at 11:59 p.m. The zone will be cleaned regularly to allow new comments.
XIII. JRCERT STANDARDS

The Joint Review Committee on Education in Radiologic Technology accredits the Radiologic Technology Program at Mesa State College. We adhere to the high standards and policies set by the JRCERT with regard to didactic and clinical education. Any violation of the standards will not be permitted. Complaints of violation will be investigated to resolution. A copy of the JRCERT Standards for an Accredited Program in Radiologic Sciences is located in the Program Director’s office.

Any student has the right to access the JRCERT regarding non-compliance of the Standards by the Mesa State College Radiologic Technology Program. Send signed complaints or allegations to:
The JRCERT
20 N. Wacker Drive, Suite 900
Chicago, IL  60606

XIV. PROFESSIONAL CONDUCT

Both academically and clinically, the expectation is for the student to demonstrate honesty. Cheating or indiscretion in profession or social conduct may result in dismissal. If the student appears mentally, physically, or socially disqualified for meeting the requirements to be a professional practitioner, they may be considered for dismissal.

As per the Mesa State College Student Handbook, the student must comply with state and federal laws concerning dangerous drugs. Offenses may result in prosecution by civil authorities and disciplinary action by the college. The student is responsible for coming to the clinical areas mentally alert and physically capable to care for assigned patients. If an instructor suspects that a student has taken any mind-altering substance that may interfere with safe clinical performance, the student will be asked to leave the clinical area. This will be an unexcused absence. A follow-up conference will be scheduled with the student, Program Director, and Chair of the Department of Nursing and Radiologic Sciences.

Code of Conduct: Refer to Mesa State College Student Handbook.

XV. PROGRESSION and DUE PROCESS

To remain in the program, a minimum 2.0 grade point average (each semester) must be maintained. The following standards will be used for all RTEC courses.

100 - 93 = A (4.0)
92 - 84 = B (3.0)
83 - 75 = C (2.0)
74 or below = F

Grades for all required general education credits and related course work must be a "C" or higher to fulfill graduation requirements. A grade of "F" in RTEC coursework could result in removal of the student from the program.

A student removed from the program for either didactic or clinical standing may:
1. Apply for re-entry into the program by contacting the program director, filing the necessary application, and verifying remedial action.
2. Grieve a didactic or clinical evaluation by following the due process policy and procedure as outlined in the "Mesa State College Student Handbook".
2.5 Does the program have a policy that assures timely and appropriate resolution of complaints regarding allegations of non-compliance with JRCERT STANDARDS and maintain a record of such complaints and their resolution?

Explanation:

Students must be made aware of the JRCERT STANDARDS and must be provided with a specific policy for resolution of allegations of non-compliance. The program must maintain a record of complaints and their resolution.

Rationale:

A policy for addressing complaints of non-compliance with the STANDARDS helps assure students have knowledge of the STANDARDS and an identified avenue to pursue allegations. USDE regulations require a record of such complaints.

Compliance May Be Demonstrated by:

- Providing a copy of the policy.
- Describing the procedure for making students aware of the STANDARDS.

Possible Site Assessment Methods:

- Review of complaint records
- Interviews with faculty
- Interviews with students

The students are made aware of the JRCERT Standards in RTEC 120, Introduction and Patient Care. The student handbook (exhibit 2.5) describes the steps to take if a student wishes to make a complaint of non-compliance to the JRCERT. The students are informed that a copy of the standards is available in the program director’s office.
XIII. JRCERT STANDARDS

The Joint Review Committee on Education in Radiologic Technology accredits the Radiologic Technology Program at Mesa State College. We adhere to the high standards and policies set by the JRCERT with regard to didactic and clinical education. Any violation of the standards will not be permitted. Complaints of violation will be investigated to resolution. A copy of the JRCERT Standards for an Accredited Program in Radiologic Sciences is located in the Program Director’s office.

Any student has the right to access the JRCERT regarding non-compliance of the Standards by the Mesa State College Radiologic Technology Program. Send signed complaints or allegations to: The JRCERT

20 N. Wacker Drive, Suite 900
Chicago, IL 60606

XIV. PROFESSIONAL CONDUCT

Both academically and clinically, the expectation is for the student to demonstrate honesty. Cheating or indiscretion in profession or social conduct may result in dismissal. If the student appears mentally, physically, or socially disqualified for meeting the requirements to be a professional practitioner, they may be considered for dismissal.

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Code of Conduct: Refer to Mesa State College Student Handbook.

XV. PROGRESSION and DUE PROCESS

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<table>
<thead>
<tr>
<th>Grade</th>
<th>Numerical Value</th>
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<tbody>
<tr>
<td>A</td>
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<tr>
<td>B</td>
<td>92 - 84</td>
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<td>C</td>
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A student removed from the program for either didactic or clinical standing may:
1. Apply for re-entry into the program by contacting the program director, filing the necessary application, and verifying remedial action.
2. Grieve a didactic or clinical evaluation by following the due process policy and procedure as outlined in the "Mesa State College Student Handbook".
POLICY

Departmental Due Process Timeline

1. For all grievances, please consult the Mesa State College Student Handbook for the policy regarding Student Academic Grievance and Appeal Process.

2. The timeline established by the Department for grievances is:

   a. The student having a specific conflict should first discuss the matter with the faculty member involved. After presenting the problem, the faculty member should respond within 5 days with explanation of the decision.

   b. If the student does not believe the conflict has been resolved, an appointment should be made with the program chair. Within 10 days a response should be made with explanation of the decision.

   c. If the student does not believe the conflict has been resolved on that level, an appointment should be made with the department head. Within 10 days of that conference, a response should be made with an explanation of the decision.

   d. If the student still does not believe that the conflict has been resolved, the student should be referred to the college Student Handbook for further steps to be taken.
2.6 Does the program regularly evaluate program policies, procedures, and publications and revise as appropriate?

**Explanation:**
The evaluation/revision process should be documented. It is the program’s prerogative to determine the frequency of evaluation.

**Rationale:**
Routine review and evaluation assure that published program materials reflect current program offerings and practices.

**Compliance May Be Demonstrated by:**
Describing the procedure for review and revision of program materials.

**Possible Site Assessment Methods:**
- Review of meeting minutes
- Review of program policies, course outlines, etc.
- Review of student handbook
- Review of program brochure

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<thead>
<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
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<tr>
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</table>

The program is constantly being reviewed for changes necessary for the classroom or clinical education in addition to the policies for students. The program director and clinical coordinator meet informally many times during the year to review policies and procedures. The program faculty meets as necessary to discuss clinical or didactic changes. There are two formal meetings each year to include all affiliate clinical instructors from all clinical sites to get input for changes in the program.

Please see exhibit 2.6 for review materials.
MESA STATE COLLEGE
Radiologic Technology Program

Program Meeting
October 28, 2004

Present: Susan Hudson, Bette Schans, Donna Slothower, Patti Ward

1. Scheduling for 1st year students at clinical.
   a. Susan, Patti and Donna decided which 1st year students to place at the VA and Community Hospital.

2. Changes for RTEC 114
   a. We need to redo the exam/procedure list deleting the patient number from the list.
   b. We want to check for more precise videos for the lab portion of the class. The oxygen video is good, the infectious disease is too long.
   c. We need more time in the schedule for radiation protection and vital signs.
   d. We will eliminate processing from 114 – it is in 132 and all three sites will be digital by next fall.
   e. The clinical schedule now includes mock abdomen and a chest procedure with a patient.

3. RTEC 124
   a. Donna and Susan are to review the module and the clinical schedule and will go over all with Patti in a few weeks.

4. We need to be emphasizing radiation protection at the clinical sites with the students. There have been a number of reports where students were unable to put an apron on prior to exposure on portables and where technologists are not wearing aprons when holding patients.

5. Patti will investigate placing a radiation monitor in the lab.

6. Good news – we have Carl Perkins funds for all of us to go to the ACERT meeting in February.

7. We need to review our application materials for possible changes prior to this spring.

Submitted

Bette Schans
MESA STATE COLLEGE  
Radiologic Technology Program  
Program Meeting  
October 2, 2003

Present: Joanne Hunter, Susan Hudson, Patti Ward, Bette Schans

1. Joanne has informed us that she will be working full time at St. Mary’s and will be unable to continue as a clinical instructor in the spring semester.

2. We will be having a program advisory meeting in two weeks. We discussed the students going to the various sites in the next week. Joanne and Susan don’t see any problems.

3. The second year students are doing well in the rotations. Some more hospitals will be going filmless in the next year. Delta is building a brand-new facility and Claggett (now Grand River Medical Center) opened in May.

4. There are no changes in the curriculum for now. Patti requested that Joanne and Susan suggest changes if necessary for RTEC 114 in either the lab or clinical.

5. We need to again emphasize the repeat, direct and indirect supervision policy with both the students and the clinical sites. In review of program policies, there are no changes.

Submitted,
MESA STATE COLLEGE  
Nursing and Radiologic Sciences  
Program Meeting Minutes  
September 14, 2001

IN ATTENDANCE: Patti Ward, Joanne Hunter, Susan Hudson, Bette Schans

1. JRCERT Interim Report

Bette has received the Interim Report Application from the JRC. This report is due no later than June 15, 2002. Clinical sites will be required to submit information and a report will be generated which discusses our assessment and evaluation plan.

2. ARRT Results

All graduates who have taken the registry have passed with an average score of 85. Some areas have dropped in score while others have improved. Two graduates as of this date have not taken the registry yet.

3. Courses so far

We are four weeks into the semester under the new curriculum and courses seem to be going well. The new critique course has been encouraging for the students. The format of clinical so far is going well. Joanne and Susan were asked to give input for course content to assure that the students are in clinical lab for the required four hours per week. There will be some additional information added to the course next year. The patient care class is going well. We have all discovered that we have to review a bit more with this group because the spring intro course was eliminated. The students will be going to clinical in four weeks.

The second year clinical rotations are going well. The students have impressed the staff at the clinical sites.

4. Fall Advisory and Clinical Instructor meeting

The Fall Advisory Committee meeting will be on October 18 at 3:30 followed by the Clinical Instructor meeting at 4:30.

5. Clinical Instructors for Spring

Joanne, Susan and June have agreed to be clinical instructors next spring. We are in need of one more instructor. Any suggestions would be great.

6. Next meeting

The next meeting will be on October 5 at 12 pm.
MESA STATE COLLEGE  
Radiologic Technology Program  
Affiliate Clinical Instructor Meeting  
March 27, 2003

In attendance: Bodie Blowers, Mari Brennan-Combs, Pat Gimbel, Dan Ishida, Susan Mallory, Ailene McDaniel, Dale Miller, Marsha Ross, Jerry Thomason, Susan Hudson, June Rush, Bette Schans, and Patti Ward

1. Welcome and introductions:  
New affiliate clinical instructors include: Ailene McDaniel and Dale Miller from Community; Cheryl Heuschke and Dawn Steele from Rocky Mountain Orthopaedics.

2. Minutes of October 17, 2002  
The minutes were reviewed with no corrections or additions. However, it was noted that the combination of the advisory and affiliate clinical instructors meetings would not take place as previously discussed.

3. JRC requirements for program:  
The JRC requires a one-to-one ratio of registered technologists to students. As the program attempts to maximize the number of students accepted into the program, it is important for affiliate clinical instructors to monitor this ratio and keep the program informed of changes.

4. Student issues:  
a. Parking:  
Affiliate clinical instructors were asked to inform the clinical coordinator of any students who are not parking in designated areas. Part of clinical education includes respecting regulations of the facility.
b. Holding patients for exams:  
There has been some discussion regarding programs that do not allow students to hold patients during exams. This program does not have such a restriction. Students are encouraged to learn and practice radiation protection in the clinical setting. The expectation is that technologists will set a good example for students by observing proper radiation protection practices.
c. Dress code:  
Input was requested concerning changing the dress code to allow second year students to wear a colored top or lab coat. Suggestions/ideas included a choice of 5 colors, navy blue only, and white shirt or any colored shirt under a top/lab coat. Bette and Patti will consider suggestions.

5. Technologist issues:  
a. Supporting the program:  
Affiliate clinical instructors were encouraged to help technologists understand and value the goals of the RT program. One suggestion was for affiliates to set a positive example by supporting the activities and policies of the program.
b. First year students working together:  
Affiliate clinical instructors were asked to make it known to technologists that putting two first year students together should be avoided.
6. **Health Occupations Clinical Teacher Education Series:**
The clinical education series was offered again. The ten modules range from 1.5 to 4.0 continuing education credits. The clinical coordinator distributes materials and grades the tests. If the clinical instructor is a member of the ASRT, continuing education points are automatically submitted.

7. **Affiliate clinical instructor concerns:**
The suggestion was made that it would be valuable for spine to be taught earlier in the program. Actually this change has already been made for the 2003-2004 academic year. The order of learning will be:
- Fall: introductory concepts/abdomen (to include gallbladder which will no longer be taught separately); upper extremities, chest, lower extremities.
- Spring: spine, urinary system, upper and lower GI system, skull, facial bones, sinuses.

Meeting adjourned at 5:30 PM

Minutes submitted by Patti Ward
2.7 Does the program document the continuing accreditation of the sponsoring institution?

Explanation:
The sponsoring institution is the facility or organization having primary responsibility for the educational program and granting the terminal award. A sponsoring institution must be accredited by a recognized agency or meet equivalent standards.

Rationale:
Accreditation helps assure educational quality.

Compliance May Be Demonstrated by:
Providing letters or certificates demonstrating the current accreditation status of the sponsoring institution.

Possible Site Assessment Methods:
- Review of documentation of appropriate accreditation

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<tr>
<th>Level of Effort</th>
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<tr>
<td>Assurance</td>
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</table>

Please see exhibit 2.7 for the certificate of accreditation from North Central Accreditation.
STATEMENT OF AFFILIATION STATUS

MESA STATE COLLEGE
1100 North Avenue
Grand Junction, CO 81501

Affiliation Status: Candidate: 0
Member: (1957-)

Nature of Organization

Legal Status: Public
Degrees Awarded: A, B, M

Conditions of Affiliation:

Stipulations on Affiliation Status:
Accreditation at the Master’s degree level is limited to the Master of Business Administration program. Off-campus degree offering are limited to the Associate of Arts and Associate of Science at Montrose, Colorado and the Bachelor of Arts in Liberal Arts Elementary Education with an English Emphasis at the Spring Valley campus of Colorado Mountain College.

Approval of New Degree Sites: Prior Commission approval required.

Approval of Distance Education Degrees:

Reports Required:

Other Visits Scheduled: Focused Visit: 09/01/2006 - 09/01/2006; A visit focused to examine progress on three key issues--Institutional Leadership, Assessment of Student Learning, and Budget Planning and Allocation.

Summary of Commission Review

Year of Last Comprehensive Evaluation: 2003 - 2004
Year of Admission to AQIP:

Year for Next Comprehensive Evaluation: 2013 - 2014

Year of Next System Appraisal:
Year of Next Reaffirmation of Accreditation:

Date of Last Action: 04/27/2004
2.8 Does the program document the continuing recognition of each clinical education setting by applicable regulatory agencies.

Explanation:
A clinical education setting is a facility recognized by the JRCERT as meeting appropriate criteria for delivering clinical education and evaluation of clinical competency. Clinical education settings may be recognized by the Joint Commission on Accreditation of Healthcare Organizations (JCAHO) or an equivalent agency or may hold a state issued license.

Rationale:
Recognition by a regulatory agency helps assure an appropriate environment for student clinical education.

Compliance May be Demonstrated By:
Providing letters or certificates demonstrating the current recognition status of each clinical education setting.

Possible Site Assessment Methods:
- Review of documentation of current recognition.

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<tr>
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</table>

Please see exhibit 2.8 for certificates from JCAHO for all hospitals and medical centers. Rocky Mountain Orthopedics and Glenwood Medical Associates are not JCAHO accredited as both places are clinics. Grand River Medical Center (formerly Claggett Memorial Hospital) is certified as a Critical Access Hospital by the state of Colorado.
St. Mary's Hospital and Medical Center
Grand Junction, CO
has been Accredited by the

Joint Commission
on Accreditation of Healthcare Organizations
Which has surveyed this organization and found it to meet the requirements for accreditation.
This award excludes skilled nursing and nursing home services.

2003-2006

Bernard L. Hengesbaugh
Bernard L. Hengesbaugh
Chairman of the Board of Commissioners

Dennis S. O'Leary, M.D.
President

Joint Commission on Accreditation of Healthcare Organizations is an independent, not-for-profit, body that oversees the safety and quality of health care and other services provided in accredited organizations. Information about accredited organizations may be provided directly to the Joint Commission at 1-800-994-6610. Information regarding accreditation and the accreditation performance of individual organizations can be obtained through the Joint Commission's web site at www.jcaho.org.
Community Hospital
Grand Junction, CO
has been Accredited by the

Joint Commission
on Accreditation of Healthcare Organizations
Which has surveyed this organization and
found it to meet the requirements for accreditation.

2003-2006

Bernard L. Hengerbaugh
Chairman of the Board of Commissioners

Dennis S. O'Leary, M.D.
President

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Department of Veterans Affairs
Medical Center
Grand Junction, Colorado

has been
Accredited
by the

Joint Commission
on Accreditation of Healthcare Organizations

Which has surveyed
this organization and found it
to meet the requirements
for accreditation
2001-2004

John Noble, M.D.
Chairman of the Board

Dennis S. O'Leary, M.D.
President

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non-profit, national body that oversees the safety and quality of health care and other
services provided in accredited organizations. Information about accredited
organizations may be provided directly to the Joint Commission at 1-800-994-6610.
Information regarding accreditation and the accreditation performance of individual
organizations can be obtained through the Joint Commission's web site at www.jcaho.org.
Delta County Memorial Hospital
Delta, CO

has been Accredited by the

Joint Commission
on Accreditation of Healthcare Organizations

Which has surveyed this organization and found it to meet the requirements for accreditation.

2003-2006

Bernard Hengsthaen
Chairman of the Board of Commissioners

Dennis S. O'Leary, M.D.
President

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Valley View Hospital
Glenwood Springs, Colorado

has been
Accredited
by the

Joint Commission
on Accreditation of Healthcare Organizations

Which has surveyed
this organization and found it
to meet the requirements
for accreditation
2002-2005

John Noble, M.D.
Chairman of the Board

Dennis S. O'Leary, M.D.
President

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Montrose Memorial Hospital
Montrose, Colorado

has been.

Accredited
by the

Joint Commission
on Accreditation of Healthcare Organizations

Which has surveyed
this organization and found it
to meet the requirements
for accreditation

2002-2005

John Noble, M.D.
Chairman of the Board

Dennis S. O'Leary, M.D.
President

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December 4, 2002
Provider #060042

Mr. Patrick Howery, Administrator
Clagett Memorial Hospital
701 E 5th Street
Rifle, CO 81650

Re: Announced Initial Health Survey for Critical Access Hospital Ending November 22, 2002

Dear Mr. Howery:

This is to advise you that no deficiencies were cited during the Initial Health Survey for Critical Access Hospital Designation survey ending November 22, 2002.

If you have any questions, please contact this office at (303) 692-2864

Sincerely,

Charlene S. Russell, Program Manager/Administration
Colorado Department of Public Health and Environment/Health Facilities Division

encl: CMS-2567L

mp
2.9 Does the program maintain JRCERT recognition of all clinical education settings?

**Explanation:**

A clinical education setting is a facility recognized by the JRCERT as meeting appropriate criteria for delivering clinical education and evaluation of clinical competency. Initial recognition of a clinical education setting requires submission of JRCERT Forms 104 and 102. A minimum of one (1) clinical instructor/supervisor must be identified for each recognized clinical education setting.

**Rationale:**

JRCERT recognition helps assure an appropriate clinical education environment for student clinical education.

**Compliance May Be Demonstrated by:**

Listing the clinical education settings used by the program.

**Possible Site Assessment Methods:**

- Review of JRCERT database
- Review of clinical records
- Interviews with faculty
- Interviews with clinical instructor(s)/supervisor(s)
- Interviews with students

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<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective? (for site visitor use only)</th>
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Please see the JRCERT database documentation.
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<tr>
<td><strong>Mesa State College</strong></td>
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<tr>
<td>Radiography Program</td>
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<tr>
<td>Sponsor-Correspondence Address: 1100 North Avenue, Grand Junction, CO 81501</td>
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<tr>
<td><strong>Bette A. Schans, Ph.D., R.T.(R)</strong></td>
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<tr>
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<tr>
<td>Cell Phone</td>
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<tr>
<td><strong>Patrice Ward, Ed.M., R.T.(R)</strong></td>
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<tr>
<td>Clinical Coordinator</td>
</tr>
<tr>
<td>Degree</td>
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<tr>
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| **Susan B. Hudson, R.T.(R)(CT)(MR)** |
| Clinical Instructor |
| Credentials | R.T.(R)(CT)(MR) |

| **Donna R. Slothower, R.T.(R)** |
| Clinical Instructor |
| Credentials | R.T.(R) |

| **Dr. Kristy Reuss** |
| Chair |

<p>| <strong>Tim Foster</strong> |
| President |</p>
<table>
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<td>St. Mary's Hospital &amp; Medical Center</td>
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<td>Clinic-Correspondence Address: 2635 North 7th Grand Junction, CO 81501</td>
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**Clinic 0181-2208 Personnel**

- Mariann T. Howell, R.T.(R)(M)  
  Clinical Instructor  
  Credentials: R.T.(R)(M)

- Kristina L. Bechtel, R.T.(R)(M)  
  Acting Clinical Instructor  
  Credentials: R.T.(R)(M)

- Robert Ladenburger  
  Administrator

| **0181-3598**        |
| Montrose Memorial Hospital |
| Radiology Department |
| Clinic-Correspondence Address: 800 South 3rd Street Montrose, CO 81401 |
| Recognition Status: Recognized Clin. Educ. Setting |
| Clinical Total Capacity: 2 |

**Clinic 0181-3598 Personnel**

- Dawn L. Elchert, R.T.(R)(M)  
  Clinical Instructor  
  Credentials: R.T.(R)(M)

- Marsha M. Ross, R.T.(R)  
  Clinical Instructor  
  Credentials: R.T.(R)

- Ken Plataou  
  Chief Executive Officer
### Program Data List

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<td>Valley View Hospital</td>
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</table>
|           | Radiology Department | Patricia G. Gimbel, R.T.(R)(M)  
**Clinical Instructor** |  
**Credentials:** R.T.(R)(M) |
|           | Clinic-Correspondence Address:  
P.O. Box 1970  
Glenwood Springs, CO 81602 | Susan L. Mallory, R.T.(R)(M)  
**Clinical Instructor** |  
**Credentials:** R.T.(R)(M) |
|           | Gary L. Brewer  
**Chief Executive Officer** |  |
| 0181-4204 | Community Hospital | **Clinic: 0181-4204 Personnel** |
|           | Radiology Department | Dale E. Miller, R.T.(R)  
**Clinical Instructor** |  
**Credentials:** R.T.(R) |
|           | Clinic-Correspondence Address:  
2021 N. 12th Street  
Grand Junction, CO 81501 | April L. Perez, R.T.(R)  
**Acting Clinical Instructor** |  
**Credentials:** R.T.(R) |
|           | Roger Zumwalt  
**Administrator** | Mark Francis |
## Program Data Listing

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| 0181-4205  | V.A. Medical Center | Radiology Department | Laurence R. Raney, B.B.A., R.T.(R)  
Clinical Instructor  
Degree: B.B.A.  
Credentials: R.T.(R) |
|            |                |                             | Rachel N. Noland, R.T.(R)  
Acting Clinical Instructor  
Credentials: R.T.(R) |
|            |                |                             | Robert R. Rhyme  
Chief Executive Officer  
Signature: Michael Murphy |

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<th>Clinic 0181-5716: Personnel</th>
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| 0181-5716  | Delta County Memorial Hospital | Radiology Department | Toni A. Colby, R.T.(R)  
Clinical Instructor  
Credentials: R.T.(R) |
|            |                |                             | Bodie D. Blowers, R.T.(R)  
Clinical Instructor  
Credentials: R.T.(R) |
|            |                |                             | Tom Thompson  
Administrator  
Signature: Tom Mingen |
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<td>1830 Blake</td>
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<td>Glenwood Springs, CO 81601</td>
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<tr>
<td><strong>Mari Brennan-Combs, R.T.(R)</strong></td>
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<td>Clinical Instructor</td>
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<td>Credentials: R.T.(R)</td>
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<tr>
<td><strong>Paul G. Esbeck, R.T.(R)</strong></td>
</tr>
<tr>
<td>Clinical Instructor</td>
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<td>Credentials: R.T.(R)</td>
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</table>

| **0181-6892**        |
| Grand River Medical Center |
| Radiology Department |
| Clinic-Correspondence Address: |
| 501 Airport Road |
| P.O. Box 912 |
| Rifle, CO 81650 |
| **Magdalena Berg, R.T.(R)(M)** |
| Clinical Instructor |
| Credentials: R.T.(R)(M) |
| **Tonia M. Dalley, R.T.(R)(M)** |
| Clinical Instructor |
| Credentials: R.T.(R)(M) |

| **0181-7269**        |
| Rocky Mountain Orthopedic Associates |
| Radiology Department |
| **Pat Howard, M.S.A.** |
| Chief Executive Officer |
| Degree: M.S.A. |
| **Recognition Status** |
| Recognized Clin. Educ. Setting |
| **Clinical Total Capacity** |
| 1 |

| **Recognition Status** |
| Recognized Clin. Educ. Setting |
| **Clinical Total Capacity** |
| 2 |

| **Recognition Status** |
| Recognized Clin. Educ. Setting |
| **Clinical Total Capacity** |
| 2 |
Rocky Mountain Orthopedic Associates
(continued from page 5)

Clinic-Correspondence Address:
627 25 1/2 Road
Grand Junction, CO 81505

Cheryl A. Heuschkel, R.T.(R)(M)(CT)
Clinical Instructor
Credentials: R.T.(R)(M)(CT)

Dale Reigle, M.S.
Chief Executive Officer
Degree: M.S.

Cathy Dalley RT(R)
Clinical Instructor
2.10 Does the program maintain JRCERT recognition of all applicable faculty appointments?

Explanation:

The JRCERT requires recognition of the program director, clinical coordinator, clinical instructors (radiography) and clinical supervisors (radiation therapy). Recognition requires the submission of Form 102, a current curriculum vitae, and documentation of current registration by the American Registry of Radiologic Technologists or equivalent.

Rationale:

Recognition helps assure appropriate education, evaluation, and supervision of students.

Compliance May Be Demonstrated by:

Listing current faculty appointments.

Possible Site Assessment Methods:

- Review of JRCERT database
- Review of program files
- Interviews with faculty
- Interviews with students

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<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
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</table>

Please see the program application for current records of all faculty and affiliate clinical instructors. All current faculty and clinical instructors have CV's on file with the JRC and the CV's will be available for review by the site visitors.
2.11 Does the program comply with requirements to achieve and maintain JRCERT accreditation?

*Explanation:*
Programs must comply with JRCERT policies and procedures to maintain accreditation.

No program response required.

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(for site visitor use only)
The major strength of Standard Two is the support of administration and the community for this program.

The Radiologic Technology Program at Mesa State College adheres to high ethical standards for administration, faculty and students. Program officials are dedicated to providing quality and equitable education for all students in the classroom as well as in the clinical setting. Policies are written and enforced with the full cooperation of faculty and clinical site personnel.

There are no concerns for Standard Two.
Standard Three: Organization and Administration
3.1 Do the institution’s and program’s organizational and administrative structures support the program’s mission and student learning outcomes?

**Explanation:**

It is the program’s prerogative to determine its organizational and administrative structure. These structures should facilitate the program’s mission and goals as they relate to student learning outcomes.

**Rationale:**

Organizational and administrative structures affect a program’s ability to meet its mission.

**Compliance May Be Demonstrated by:**

- Providing an institution’s and/or program’s organizational chart.
- Describing the program’s organizational and administrative structures and how they support the program’s mission and identified learning outcomes.

**Possible Site Assessment Methods:**

- Review of organizational charts of institution and program
- Review of meeting minutes
- Review of published program materials
- Review of master plan of education
- Interviews with faculty
- Interviews with clinical instructor(s)/supervisor(s)

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The administrative structure is such that there are very few layers to go through to get to speak with the president or vice president. Mesa State College is a relatively small college with about 6,500 students. Faculty can have direct access to administration but most operations are conducted at the department head level. Having this structure facilitates student learning especially when changes need to be made quickly. There is an organizational layering in the program, however, the faculty work together to provide quality education in a timely manner for the students.

The program’s mission is to prepare a graduate for professional practice by providing quality foundational education. The structure of the college supports this mission. A college-wide program priority assessment was performed last year rating both baccalaureate and associate degreed programs. The AAS Radiologic Technology was the highest ranked two-year program in the college and the only two-year program in the top twenty programs. Administration supports our mission of graduating a student from a two-year program into a profession through quality education.

Please see exhibit 3.1a for the program organizational chart. The master plan of education will be available for the site visitors. Please see exhibit 3.1b for the index to the master plan of education.
MESA STATE COLLEGE
ORGANIZATIONAL CHART

PRESIDENT
Tim Foster, J.D.

VICE PRESIDENT ACADEMIC AFFAIRS
Dr. Carol Futhey

DEPARTMENT HEAD
Nursing and Radiologic Sciences
Dr. Kristine Reuss, RN

PROGRAM DIRECTOR
Radiologic Technology
Dr. Bette Schans, RTR

CLINICAL COORDINATOR
Patti Ward, MEd., RTR

CLINICAL INSTRUCTOR
Donna Slothower, RTR
MESA STATE COLLEGE
RADIOLOGIC TECHNOLOGY PROGRAM
MASTER PLAN OF EDUCATION

TABLE OF CONTENTS

1. Course Descriptions
2. Curriculum Sequence
3. Didactic Curricula
4. Clinical Curricula
5. Competency-based Clinical Education Plan
6. Performance Objectives in Clinical Education
7. Graduate Competencies
8. Instruments used in evaluating the educational domains
9. Program Policies and Procedures
10. Assessment of Program Effectiveness
3.2 Does the program establish and maintain affiliation agreements with clinical education settings?

Explanation:
The JRCERT defines affiliation agreement as a formal written understanding between an institution sponsoring the program and an independent clinical education setting. An affiliation agreement must identify the responsibilities of all parties and, specifically, must address responsibility for liability, student supervision, student evaluation, and adequate notice of termination of the agreement. An affiliation agreement is not needed for clinical education settings owned by the sponsoring institution; however, a memorandum of understanding between the clinical education setting and the sponsoring institution is recommended. At a minimum, the memorandum should address responsibilities of both parties and student supervision.

Rationale:
Formalizing relations between the program and the clinical education setting helps assure the quality of clinical education by delineating appropriate responsibilities of the program and the clinical education setting. An appropriate termination clause assures that students will have an opportunity to complete the clinical education component.

Compliance May Be Demonstrated by:
Providing copies of current signed affiliation agreements with each clinical education setting.

Possible Site Assessment Methods:
- Tour of clinical education setting(s)
- Interviews with administrative personnel
- Interview with program director
- Interviews with clinical education setting administrators

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<td>Assurance</td>
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</table>

Please see the application for the affiliation agreements and all signature pages.
3.3 Does the program assure the security and confidentiality of student records, instructional materials, and other appropriate program materials?

**Explanation:**
Student records must be maintained in accordance with the Family Education Rights and Privacy Act (Buckley Amendment).

**Rationale:**
 Appropriately maintaining records and other materials protects students' right to privacy.

**Compliance May Be Demonstrated by:**
Describing how the program's policies/procedures for assuring the security, maintenance, and retention of program records are consistent with state and federal laws.

**Possible Site Assessment Methods:**
- Tour of program offices
- Tour of clinical education setting(s)
- Review of program's/institution's published policies/procedures
- Review of student academic and clinical records
- Interviews with administrative personnel
- Interviews with faculty
- Interviews with clinical instructor(s)/clinical supervisor(s)
- Interviews with students

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</table>

All student records are kept in a file cabinet in the program director's office. This office is locked at all times the program director is away. Some graduate records are kept in lock file cabinets in a room behind the administrative assistant's desk. All radiation badge records are kept in a file cabinet in the clinical coordinator's (radiation safety officer) office. Records are shredded five years after the student has graduated.
3.4 Does the program assure an appropriate relationship between program length and the subject matter taught and the objectives for the degree or credential offered?

Explanation:

The JRCERT defines program length as the duration of the program, which may be stated as total academic or calendar year(s), or total semesters, trimesters, or quarters.

Rationale:

Consistency between program length and terminal award assures program integrity.

Compliance May Be Demonstrated by:

Describing the relationship between the program length and the terminal award offered.

Possible Site Assessment Methods:

- Review of course catalog
- Review of published program materials
- Review of class schedules
- Interviews with faculty
- Interviews with students

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</table>

The terminal degree awarded is an Associate of Applied Science in Radiologic Technology. All students must complete 16 general education credit hours and 2 Human Performance and Wellness credit hours in addition to the 57 program credit hours. While it is possible to complete the general education requirements during the program, the majority of applicants have completed the courses prior to applying. There is one pre-requisite course, Anatomy and Physiology that must be completed prior to starting the program. The program is five consecutive semesters in length and the length is appropriate for the course work and clinical hours required. The 75 credit hours required for graduation is more than enough for an associate degree but is accepted because it is a vocational education program.
3.5 Does the program measure the length of all didactic and clinical courses in clock hours or credit hours?

**Explanation:**
The clock hours or credit hours assigned to each didactic and clinical course must be identified.

**Rationale:**
Defining the length of didactic and clinical courses facilitates student transfer of credit and the awarding of financial aid.

**Compliance May Be Demonstrated by:**
Providing a list of all didactic and clinical courses with corresponding clock or credit hours.

**Possible Site Assessment Methods:**
- Review of published program materials
- Review of clinical and class schedules
- Interviews with faculty
- Interviews with students

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Please see exhibit 3.5 for clock and credit hours.
# MESA STATE COLLEGE
Radiologic Technology Program

## PROGRAM CREDIT AND CLOCK HOURS

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<td>RTEC 214 Radiographic Clinical Experience III</td>
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<td>RTEC 224 Radiographic Clinical Experience IV</td>
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**GRAND TOTAL** 57 1856
Summary for Standard Three

1. List the major strengths of Standard Three, in order of importance.

2. List the major concerns of Standard Three, in order of importance.

3. Provide the program’s plan for addressing each concern identified.

4. Describe any progress already achieved in addressing each concern.

5. Describe any constraints in implementing improvements.

Attach additional pages if necessary.

The major strength of Standard Three is the cooperation between the program and the clinical sites in providing quality education to the students in the program. Overall, the staff at all clinical sites realize the importance of connecting what is taught at the college to what is being demonstrated at the site. This allows the students to graduate, take the ARRT exam and begin as professionals in radiologic technology with confidence and direction.

There are no major concerns for Standard Three.
Standard Four:
Curriculum and Academic Practices
4.1 Does the program maintain a master plan of education?

Explanation:
The plan must provide documentation of the entire course of study and, at a minimum, must include didactic and clinical curricula, program policies and procedures, and strategies for assessing program effectiveness.

The plan may also contain the following documentation: institutional and program philosophies and goals, curriculum sequence, course descriptions, course outlines and performance objectives, textbooks assigned by course, competency-based clinical education plan demonstrating integration and correlation with the didactic component, performance objectives for clinical education, graduate competencies, strategies and instruments used for evaluation of student behaviors in the cognitive, psychomotor and affective domains, and grading policy/derivation. While there is no prescribed format for the master plan, the component parts should be identified and readily accessible.

Rationale:
A master plan provides an overview of the program and allows for continuity among and documentation of all aspects of the program. In the event of new faculty and/or leadership to the program, it provides the knowledge needed to understand the program and its operation.

Compliance May Be Demonstrated by:

- Providing a Table of Contents for the program’s master plan.
- Listing the component parts of the master plan of education and their locations.

Possible Site Assessment Methods:

- Review of master plan of education
- Interview with program director
- Interviews with faculty

<table>
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<tr>
<th>Level of Effort</th>
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</table>

The Master Plan of Education will be available for review by the site visitors. Please see exhibit 4.1 for the Table of Contents.
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1. Course Descriptions
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9. Program Policies and Procedures
10. Assessment of Program Effectiveness
4.2 Does the program follow a JRCERT recognized and accepted curriculum that prepares the student to practice in the professional discipline?

**Explanation:**

At a minimum, the curriculum must include the latest American Society of Radiologic Technologists (ASRT) professional curriculum or any other professional curriculum formally adopted by the JRCERT for the appropriate discipline. Expansion of the curricular content beyond the minimum is at the discretion of the program. The curriculum must be comprehensive and include current information.

**Rationale:**

Use of a standard curriculum promotes consistency in radiologic sciences education.

**Compliance May Be Demonstrated by:**

Providing evidence that the ASRT or another JRCERT adopted curriculum is followed.

**Possible Site Assessment Methods:**

- Review of course descriptions, outlines, syllabi, lesson plans
- Review of analysis of employer, graduate surveys
- Interviews with faculty
- Interviews with students

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</table>

The program follows the Professional Curriculum for Radiography from the American Society of Radiologic Technologists. The objectives and outlines in each module (syllabus) are based on this curriculum.

Please see exhibit 4.2a for samples of course modules.

Please also see the JRCERT Radiography Curriculum Analysis for our program (exhibit 4.2b)

The program was changed in 2001 by moving the introductory course from the spring into the fall semester. This was the only program course in the spring semester. Moving that one course reduced the program length from 27 to 22 months. This change did not affect the relationship of the terminal degree to the program offerings. Please see the changes in exhibit 4.2c.
Introduction to Radiologic Technology and Patient Care

Prerequisite: BIOL 209, 209L, and acceptance into the Radiologic Technology Program

Course Title and Numbers: Introduction to Radiologic Technology and Patient Care, RTEC 120

Credits: 3 semester hours

Professor: Patti Ward, MEd, RT (R)

Course Description:
This course introduces the student to basic concepts of radiologic technology and patient care. Emphasized are the educational program, the profession, and the health-care delivery system. The fundamentals of patient care include ethics, professional conduct, communication, and patient management. Study of medical terminology is also included.

Required Textbooks:
- Introduction Radiologic Sciences and Patient Care, 3rd Edition, Adler, Carlton
- Mosby's Medical and Nursing Dictionary, 5th Edition

Passing Requirements:
In order to pass this course two requirements must be met (1) the cumulative score must be 75 or above; and (2) the cumulative test score must be 75 or above.

Academic Dishonesty in completing any course requirement constitutes grounds for failing the course. Academic dishonesty includes, but is not limited to (1) cheating on exams and (2) plagiarism. Plagiarism includes (a) turning in a paper someone else has written; (b) copying directly from a book, without proper documentation; (c) using material obtained via electronic sources, without proper documentation; or (d) failing to properly document quotations used in your work. Any and all of these activities will result in an F for the exam or work and could constitute grounds for failing the course. If you are uncertain as to what constitutes plagiarism, contact an instructor. See the Program Student Handbook for details about properly citing works.

Special Needs:
If you have special needs as addressed by the American with Disabilities Act and need any test or course materials in an alternative format, notify your instructor immediately. There will be reasonable efforts made to accommodate your special needs.
## CONTENTS

Assessment

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<th>Part I - Lecture</th>
<th>Outline, Objectives, Activities, &amp; Evaluation</th>
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<td>Unit 3</td>
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<td>Unit 4</td>
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**Part 2 – Medical Terminology**

<table>
<thead>
<tr>
<th>Outline, Objectives, Activities, &amp; Evaluation</th>
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**PowerPoint Handouts**

<table>
<thead>
<tr>
<th>Unit 1, Lesson 1</th>
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<tr>
<td>Unit 1, Lesson 2</td>
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RTEC 120 - Assessment of Learner Performance:

Part 1 - Lecture Section
A. Class participation
B. Unit Examinations
   Unit 1 Radiographic Terminology
   Unit 2 Infection Control and Emergencies
   Unit 3 Attitudes and Communication in Patient Care
   Unit 4 Ethics, Law, and Healthcare Systems
C. Comprehensive Final Exam
   (Units 1-4 and Medical Terminology)

Part 2 - Medical Terminology Section
Chapter Examinations
   Chapter 2
   Chapter 3
   Chapter 4
   Chapter 5
   Chapters 6 and 7
   Chapter 8
   Chapters 9 and 10
   Chapter 11
   Chapter 12

Summary of Requirements for RTEC 120

Total Points Possible for Part 1

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<th>Component</th>
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<tr>
<td>Unit Exams</td>
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Total Points Possible for Part 2

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Assessment Scale:
A = 93 - 100 %
B = 84 - 92 %
C = 75 - 83 %
F = 74% or below
Part 1 - Lecture
Course Outlines, Objectives, Activities, and Evaluations

Unit 1 - Radiographic Terminology
Outline

I. Anatomical Nomenclature
   A. Body Planes
      1. Median/midsagittal
      2. Sagittal
      3. Coronal
      4. Transverse
      5. Longitudinal
   B. Body Surfaces
      1. Posterior/dorsal
      2. Anterior/ventral
      3. Planar
      4. Dorsum Pedis
      5. Palmar

II. Standard Terminology for Positioning and Projection
    A. Standard terms
       1. Radiographic projections
       2. Radiographic positions
       3. Radiographic view
    B. Body Positioning Terminology
       1. Supine
       2. Prone
       3. Erect
       4. Recumbent
       5. Trendelenburg
       6. Sim's
    C. Specific Body Positions
       1. Lateral
       2. Oblique
       3. LPO and RPO
       4. RAO and LAO
       5. Decubitus
    D. Special Projection Terminology
       1. Axial
       2. Inferosuperior and superoinferior axial
       3. Tangential

III. Terminology of Direction and Movement
    A. Terminology of Direction
       1. Medial/lateral
       2. Proximal/distal
       3. Cephalad/caudad
B. Terminology of Movement
1. Flexion/extension (acute flexion/hyperextension)
2. Ulnar/radial deviation
3. Dorsiflexion/plantar flexion
4. Eversion/inversion
5. Medial/lateral rotation
6. Abduction/adduction
7. Supination/pronation
8. Protraction/retraction
9. Elevation/depression
10. Circumduction
11. Tilt/rotation

Unit 1- Radiographic Terminology
Objectives
1. Demonstrate where the various planes lie in relationship to the body on frontal and lateral diagrams of the human body.
2. Apply the appropriate terms that relate to direction and orientation on frontal and lateral diagrams of the human body.
3. Discuss various body surfaces.
4. Describe standard positioning terms.
5. Discuss terminology related to radiographic direction and movement.

Unit 1- Radiographic Terminology
Activities

Lessons 1 and 2:
Bontrager: Chapter 1 (pages 14-29)

Unit 1- Radiographic Terminology
Evaluation

Take home examination worth 100 points
Unit 2 - Infection Control and Medical Emergencies

Outline

I. Infectious disease
   A. Terminology
      1. Nosocomial infection
      2. Iatrogenic infection
      3. Communicable disease
      4. Infectious pathogens
   B. Cycle of infection
      1. Infectious pathogens
         a. Bacteria
         b. Viruses
         c. Fungi
         d. Parasites
      2. Reservoir
         a. Exit
         b. Entrance
      3. Transmission of disease
         a. Endogenous
         b. Exogenous
            - Direct
            - Indirect
      4. Susceptible host
   C. Bloodborne pathogens
      1. Human immunodeficiency virus (HIV)
      2. Hepatitis B virus (HBV)

II. Aseptic and nonaseptic methods of infection control
   A. Environmental control
      1. Centers for disease control and prevention (CDC)
      2. U.S. Department of Health and Human Services
      3. Occupational Safety and Health Organization (OSHA)
   B. Asepsis
      1. Surgical asepsis
         a. Definition
         b. Methods used to control microorganisms
         c. Storage of sterile materials
      2. Medical asepsis
         a. Definition
         b. Procedures
            - Handwashing
            - Chemical disinfectants
            - Skin prep for sterile procedures
            - Professional attire
            - Protective coverings
         c. Cleaning and waste disposal
   C. Standard precautions - Tier 1
   D. Transmission-based precautions - Tier 2
      1. Airborne precautions
      2. Droplet precautions
      3. Contact precautions
III. Medical Emergencies
A. Terminology
B. Emergency call systems
C. Recognizing a deteriorating condition
D. Major emergencies
   1. Shock
      a. Signs and symptoms
      b. Types
      c. Intervention
   D. Diabetic crisis
      a. Types
      b. Intervention
   E. Respiratory and cardiac failure
      1. Signs
      2. Symptoms
      3. Airway obstruction
      3. Interventions
   F. Cerebral vascular accident (stroke)
      1. Signs
      2. Symptoms
      3. Interventions
   H. Syncope and convulsive seizures
      1. Signs and symptoms
      2. Causes
      3. Interventions
I. Equipment and supplies

Unit 2 - Infection Control and Medical Emergencies
Objectives
1. Define various terms related to infection control.
2. Explain sources and modes of transmission of infections and diseases.
4. Describe the importance of Standard Precautions and Transmission-Based Precautions.
5. Define surgical asepsis and medical asepsis.
6. Identify symptoms, which manifest in various given emergencies.
7. Describe how an emergency is determined and evaluated in the radiology department.
8. Discuss acute care procedures for emergencies.
9. Discuss the use of medical emergency equipment and supplies.
10. List steps taken with regard to the treatment of seizures.

Unit 2 - Infection Control and Medical Emergencies
Activities
Lesson 1:
Adler/Carlton: Chapter 14 (183-193)
Lesson 2:
Adler/Carlton: Chapter 14 (193-200)
Lesson 3:
Adler/Carlton: Chapter 17

Unit 2 - Aspects of Patient Care
Evaluation
Examination worth 100 points
Unit 3 - Attitudes and Communication in Patient Care

Outline

I. Communication methods
   A. Patient needs
   B. Developing professional attitudes
      1. Assertive
      2. Nonjudgmental
      3. Empathetic
   C. Types
      1. Therapeutic
      2. Non-therapeutic
   D. Methods
      1. Verbal
      2. Nonverbal
         a. Paralanguage
         b. Touch
         c. Professional image
         d. Eye contact
         e. Body language
   E. Therapeutic communication
      1. Establish communication guidelines
      2. Reduce distance
      3. Therapeutic silence
      4. Respond to feeling and meaning of patient's statement
      5. Restate the main idea
      6. Reflect the main idea
      7. Make observations
   F. Communicating with family/friends
   G. Factors that impede communication
      1. Distracting behaviors
      2. Incomplete answers
      3. Judgmental statements
      4. False assurance
      5. Defending
      6. Changing subject

II. Communication challenges
   A. Age related factors
      1. Pediatric patient
      2. Adolescent patient
      3. Adult patient
      4. Geriatric patient
   C. Cultural differences
      1. Influence attitudes, behavior, and cooperation
      2. Language factors
   D. Impairments and disabilities
      1. Visual impairment
      2. Hearing impairment
      3. Impaired mental function
      4. Handicapped or disabled
      5. Altered states of consciousness
E. Terminally ill
1. Understanding death and dying
2. Grieving process
3. Stages of dying
   a. Denial
   b. Anger
   c. Bargaining
   d. Depression
   e. Acceptance
4. Response to patient in each stage
5. Patient support services

III. History taking and understanding radiographic orders and diagnostic report
A. Diagnostic orders
   1. Imaging procedures ordered
   2. Interpretation and response
B. Patient history
   1. Pertinence
   2. Objective vs. subjective
   3. Clarification
   4. Clinical information
C. Diagnostic reports
   1. Content
   2. Interpretation
D. Translation of terms into common language
   1. Verbal
   2. Written

Unit 3 - Attitudes and Communication in Patient Care

Objectives

1. Define communication.
2. Identify methods of communication and discuss how each can be utilized in patient education.
3. Explain the role of the technologist in patient education.
4. Given case studies, interact with the patient, family members, and/or friends.
5. Given clinical simulations, demonstrate explanations of radiographic examinations.
6. Identify patient communication problems and discuss how each can be overcome to provide patient education.
7. Discuss age related issues.
8. Discuss communication issues related the impaired, disabled, or handicapped patient.
9. Given clinical simulations, demonstrate explanations for patients with various communication problems.
10. Discuss communication issues related to the terminally ill
11. Discuss the perceptions of death and dying from patient and technologist viewpoints.
12. List the stages of dying and describe the characteristics of each stage.
13. Identify the support mechanisms available to the terminally ill.
14. Discuss ethical, emotional, personal, and physical aspects of death.
15. Given radiographic orders, describe the procedures to be performed.
16. Given a request for diagnostic imaging services, describe procedures and processes necessary to respond to the requested services.
17. Explain the necessity of obtaining a medical history that is pertinent to the radiographic exam ordered.
18. Differentiate objective versus subjective information.
19. Describe the value of clarification.
20. Translate medical terms into common language a patient could understand.

Unit 3 - Attitudes and Communication in Patient Care
Activities

Lesson 1:
Adler/Carlton: Chapter 9 (111-117)

Lesson 2:
Adler/Carlton: Chapter 9 (117-124)

Lesson 3:
Adler/Carlton: Chapter 10

Unit 3 - Attitudes and Communication in Patient Care
Evaluation

Group presentation worth 100 points
Unit 3 - Attitudes and Communication in Patient Care

Group Presentation Instructions

Purpose:
The purpose of this assignment is to develop skill in reflective thinking, critical thinking, problem solving, and communication. The project helps you bridge the gap between theory and practice by providing an opportunity for you to: (1) Reflect on how to apply theory to clinical practice; (2) Apply critical thinking to problem solving; and (3) Demonstrate attitudes and communication skills appropriate for the clinical setting.

Project Format:
Groups of three students create and dramatize a 15-minute hypothetical situation for the rest of the class. The project is based on an attitude or communication problem between a radiographer and a patient or a patient's relative or friend. The presentation is summarized with an explanation of the critical thinking and problem solving processes used.

The following can be used as a guideline:
1. Develop and define an attitude or communication problem that might occur between a radiographer and a patient, patient's friend, or relative.
2. Describe the setting, characters, and other relevant facts.
3. Identify alternate reactions to the problem (positive and negative).
4. Identify how attitudes can influence problem solving.
5. Reflect on the best ways to handle the problem.
6. Explain the critical thinking involved in determining the final approach to the problem.
7. Describe the verbal and nonverbal communication methods used by both parties.
8. Summarize the problem, solution, and outcome of the problem situation.

Members of Group

1. 

2. 

3. 

Evaluation criteria on the following page.
### Evaluation Criteria - RTEC 120 - Unit 3

**Attitudes and Communication in Patient Care**

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Description</th>
<th>0 No Evidence Of Criteria</th>
<th>1-5 Minimal Standard Of Evidence</th>
<th>6-9 Good Example In Evidence</th>
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<tr>
<td><strong>Creativity</strong></td>
<td>Express imaginative and original thought.</td>
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<tr>
<td><strong>Organization</strong></td>
<td>Put thoughts and presentation in order.</td>
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<tr>
<td><strong>Method</strong></td>
<td>- <strong>Verbal</strong> Dramatize verbal methods used by both parties in communication.</td>
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<tr>
<td><strong>Method</strong></td>
<td>- <strong>Nonverbal</strong> Dramatize nonverbal methods used by both parties in communication.</td>
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<tr>
<td><strong>Understanding</strong></td>
<td>Recognize and relate factors involved in the problem.</td>
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<tr>
<td><strong>Narration</strong></td>
<td>Deliver presentation that illustrates an attitude or communication problem.</td>
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<tr>
<td><strong>Investigation</strong></td>
<td>Identify, examine, and disclose all possible reactions to the problem.</td>
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<tr>
<td><strong>Conclusion</strong></td>
<td>Summarize the problem, solution, and outcome.</td>
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<tr>
<td><strong>Attitude</strong></td>
<td>Relate how attitude influences communication.</td>
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<tr>
<td><strong>Thinking</strong></td>
<td>Reflect on the best way to handle similar communication problems.</td>
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<tr>
<td><strong>Explain</strong></td>
<td>Elaborate on critical thinking involved in the determining solution.</td>
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Group member ____________________________  Total score ____________________
Unit 4 - Ethics, Law, and Healthcare Systems

Outline

I. Professional ethics, consent, and confidentiality
   A. Ethical responsibilities
      1. Definitions
         a. Moral
         b. Professional
         c. Legal
      2. Malpractice
      3. Role of values
      4. ASRT code of ethics
      5. Patient bill of rights
      6. Problem solving
   B. Ethical Theories
      1. Consequentialism and non-consequentialism
      2. Modifications
         a. Social contract theory
         b. Ethics of care
         c. Rights-based ethics
         d. Principle-based ethics
            - Beneficence
            - Nonmaleficence
            - Autonomy
            - Veracity
            - Fidelity
            - Justice
         e. Virtue-based ethics
   C. Patient consent
      1. Definition
      2. Types
      3. Conditions for valid consent
      4. Documentation of consent
   D. Confidentiality

II. Medical law
   A. Legal Responsibilities
      1. Professional liability
         a. Indirect
         b. Direct
      2. Negligence
         a. Contributory
         b. Gross
      3. Standard of care
      4. Assault/battery
      5. False imprisonment
      6. Invasion of privacy
      7. Breach of confidentiality
B. Doctrines
   1. Vicarious liability
   2. Borrowed servant
   3. Respondeat superior
   4. Res ipsa loquitur
   5. Personal liability
   6. Captain of the ship

C. Protection
   1. Individual
   2. Institutional

D. Selected responsibilities of the radiographer
   1. Correct patient identification
   2. Correct identification markings on images
   3. Accurate assessment of patient condition prior to/during radiographic examination
   4. Composition of radiographic quality

E. Forensic radiography

III. Healthcare systems
A. Healthcare organizations
   1. Hospital organization
      a. Philosophy and mission
      b. Administration services
      c. Patient services
   2. Radiology department
      a. Organization
      b. Accreditation and credentialing
   3. Professional organizations
      a. Purpose, function and activities
      b. National/international
      c. Region/state/district

B. Professional development
   1. Career mobility
      a. Employment outlook
      b. Economic return
   2. Career advancement
      a. Continuing education
      b. Specialized areas
         -Radiation therapy
         -Nuclear medicine
         -Advanced credentialing

C. Documentation and reporting
   1. Medical records
      a. Purpose
      b. Content
   2. Radiographic orders, reports, and records
      a. Documentation
      b. Confidentiality
Unit 4 - Ethics, Law, and Healthcare Systems

Objectives

1. Provide the definition of moral, legal, and professional ethics.
2. Identify and describe accepted codes or guidelines for professional ethics in their chosen health profession, and those elements therein that are similar to other health professions, and those unique to their respective disciplines.
3. Describe the ASRT Code of Ethics for radiographers.
4. Recognize and identify those situations and conditions, which give rise to ethical dilemmas in healthcare.
5. Explain the five-step problem-solving process of ethical analysis.
6. Identify and rationalize concepts of personal honesty, integrity, accountability, competence, and compassion as ethical imperatives in healthcare.
7. Define the term informed consent.
8. Describe the elements necessary for informed consent.
9. Discuss standards for disclosure relative to informed consent.
10. Describe how consent forms are utilized relative to specific radiographic procedures.
11. Identify legal/professional standards and their relationship to practice in health professions.
12. Define the following terms: direct and indirect professional liability, gross and contributory negligence, standard of care, and negligence.
13. Define the following terms: libel/slander, assault/battery, false imprisonment, invasion of privacy, breach of confidentiality.
14. Define and discuss the doctrines of: vicarious liability, borrowed servant, respondeat superior, and res ipsa loquitur.
15. Discuss the elements necessary for valid malpractice claim.
16. Discuss the institutional and professional liability protection typically available to the radiographer.
17. Discuss the legal and ethical responsibilities of the radiographer with regard to assessment of the patient’s condition and radiographic quality.
18. Define forensic radiography.
19. Explain patient services available in the radiology department.
20. Identify key personnel and discuss their function in the radiology department.
21. Identify, discuss, and appreciate the significance of accurate, complete, correct methods of medical record keeping as a legal/ethical imperative.
22. List key components of a patient medical record.
23. Identify the legal ramifications of correct patient identification, correct identification markings of the radiograph, and accurate documentation as required.
24. Differentiate between confidential and non-confidential information.
25. Discuss proper documentation and reporting of patient records.

Unit 4 - Ethics, Law, and Healthcare Systems

Activities

Lesson 1:
Adler/Carlton: Chapter 20

Lesson 2:
Adler/Carlton: Chapter 22

Lesson 3:
Adler/Carlton: Chapters 1, 2, 5, and 21

Unit 4 - Ethics, Law, and Healthcare Systems

Evaluation

Individual section - worth 50 points
Small group section - worth 50 points
Part 2 - Medical Terminology Section

Structured, independent study of medical terminology is a portion of the Introduction to Radiologic Technology and Patient Care course. You will be given the opportunity to gain fundamental knowledge of medical terminology for a career in radiology. The format for learning is a guided, self-study method. You are strongly encouraged to use the audiotape and CD included with the text. This will enhance the learning experience by providing audio pronunciations, as well as, reinforcing definitions, spelling, and comprehension through interactive study.

Medical Terminology Outline

I. Word Building Process
   A. Basic elements
      1. Word root
      2. Prefixes
      3. Suffixes
      4. Combining forms
   B. Medical Abbreviations and Symbols
      1. Abbreviations
         a. Examples
         b. Interpretations
      2. Symbols
         a. Examples
         b. Interpretations

II. Pronunciation of medical terms

Medical Terminology Objectives

1. Understand the word building process.
2. List the primary and secondary language sources of medical terms.
3. Give examples of medical terms from both the primary and secondary sources.
4. Given medical terms, operate and define each according to its basic elements.
5. Given medical terms in noun and verb forms, change each to adjective and/or adverb forms.
6. Analyze medical terms that combine prefixes and suffixes with other word elements.
7. Interpret medical abbreviations and symbols.
8. Pronounce medical terms, correctly.
Activities for each chapter:

1. Read the text, complete exercises, and compete the programmed learning section.
2. Listen to audiotape pronunciations while looking at the words in the alphabetized list. Pronounce each word.
3. Use software to review material.
4. Complete the comprehensive review exercises at the end of each chapter.

Chapter Exams: These exams give you an opportunity to demonstrate what you have learned.

Exams will consist of 30 questions; including, writing medical terms, identifying misspelled words and correctly spelling them, and multiple-choice.

Final Exam: Section four provides an excellent review prior to the final.

A portion of the final exam for RTEC 120 will include medical terminology questions, from chapters 1 to 12.
MESA STATE COLLEGE
RADIOLOGIC TECHNOLOGY

RTEC 251

RADIOGRAPHIC PATHOLOGY

FALL, 2004
Course Number: RTEC 251  
Course Title: Radiographic Pathology
Credit: Lecture - 3 credits

Instructor: Bette Schans

Prerequisites: All 100 level RTEC courses

Required Textbooks:
- Radiographic Pathology, Linn-Watson
- Textbook of Radiographic Positioning & Related Anatomy, Bontrager

References:
- Medical Terminology, Smith and Davis
- Mosby's Medical and Nursing Dictionary, Lawrence Urdang

Grading:

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Unit 1 - Pathology:
- Exam #1: 50 points
- Exam #2: 50 points
- Exam #3: 50 points
- Exam #4: 50 points
- Exam #5: 50 points
- Exam #6: 50 points
- Exam #7: 50 points

Unit 2 - Pharmacology/Venipuncture:
- Unit Exam: 50 points
- Practicum: 17 points
Course Overview

The first unit will provide the student with an introduction to basic pathology, relating radiographic procedures to various pathological conditions and provides instruction on special radiographic procedures related to the various human systems. The second unit provides the student with an introduction to basic pharmacology, usage and classification of drugs and provides the student knowledge concerning venipuncture and its application to diagnostic radiology.

Course Objectives

Upon completion of this course the learner will be able to:

Unit I – Pathology

1. Define terms related to pathology.
2. Discuss manifestations of pathological conditions and their relevance to radiographic procedures.
3. List classifications of trauma and define each.
4. Describe examples/sites, complications and prognosis for classifications of trauma.
5. Discuss radiographic diagnosis for classification of trauma.
6. List systemic classification of diseases and define each.
7. Describe etiology and examples/sites of systemic classification of diseases.
8. Discuss complications and prognosis of examples of systemic classifications of disease.
9. Describe radiographic procedures and effects on radiographic technique for examples of systemic classifications of disease.
10. Discuss causes of tissue disruption, describe the process and give examples of each.
11. Describe the healing process.
12. Discuss complications connected with the repair and replacement of tissue.
13. Discuss imaging and other equipment and supplies used in various special studies.
14. Describe special studies performed on parts of various systems.
15. Given various special studies, describe the contrast medium utilized for each study in terms of type, administration method and quantity.
16. Describe the patient preparation for various special studies.
17. Discuss various special studies in terms of general description, patient care considerations, positioning considerations and views.
18. Given various special study images, identify the specific structures visualized and functions demonstrated.
**Unit II - Pharmacology**

1. Recognize various categories of drugs.
2. Recognize common drug nomenclature and basic concepts of pharmacology.
3. Discuss specific drugs in each category.
4. Discuss each drug's expected actions, reactions, and possible interactions.
5. Discuss specific drugs for CPR procedures.
6. Discuss drugs used for premedication including recognition of initial and peak response times.

**Unit II - Venipuncture**

1. Define contrast media.
2. Differentiate between ionic and non-ionic contrast media.
3. Identify the common medications used in the Radiology Department.
4. Define the pharmacology of the common medications used in the Radiology Department.
5. Identify the indications for the use of contrast media and pertinent medications.
6. Describe the contraindications for contrast media and pertinent medications.
7. State the common dosage for contrast media and pertinent medications.
8. Prepare, for injection, contrast media/intravenous medication, utilizing aseptic technique.
9. Demonstrate knowledge of the circulatory system.
10. Identify and locate the veins most commonly used for upper extremity venipuncture.
11. State the location of the closest Code/Crash Cart.
12. State the location of the closest oxygen and suction equipment.
13. Prepare those items necessary for venipuncture to include, but not limited to, tourniquet, needles/butterflies, tape, gauze, arm board, band aid and contrast media/intravenous medication.
14. Identify the appropriate method of proper patient identification for the proper examination.
15. Obtain an allergic history, if any, from the patient.
16. Explain to the patient the examination to be performed in its entirety.
17. Practice Universal Precautions.
18. Select and prepare an appropriate site for venipuncture.
19. Apply the tourniquet at the selected site.
20. Cleanse the site with an antiseptic.
21. Insert the needle and ascertain proper venous backflow.

22. Inject, at the proper rate, the proper contrast media/intravenous medication, or connect the proper drip infusion contrast media/intravenous medication.
23. Observe the site for infiltration or extravasation.
24. Observe the patient for reactions.
25. Upon completion of the injection, withdraw the needle and apply pressure to the site.
26. State the normal values for pulse, respiration, blood pressure, oxygen therapy and heart monitoring.
27. Perform, monitor and record pulse, respiration, blood pressure and oxygen therapy on a patient.
28. Identify and define the possible complications/reactions of a contrast media/intravenous medication.
29. Know and be able to respond appropriately to either a complication/reaction to a contrast media or IV medication.
30. Respond appropriately to a complication/reaction during, or after, the administration of a contrast media or intravenous medication.
31. Document the administration of a contrast media or intravenous medication.
32. Document a complication/reaction to contrast media or intravenous medication.
Unit I: Pathology

Objectives and Content:

I. Introduction to Pathology
   A. Definitions
      1. pathology
      2. disease
         - acute
         - chronic
      3. pathogenesis
      4. etiology
      5. trauma/physical injury
         a. mechanical
         b. chemical
         c. thermal
         d. radiation
         e. other
      6. symptom
         - subjective
         - objective
      7. syndrome
      8. diagnosis
      9. prognosis
   B. Purpose of Study
      1. manifestations of pathology
      2. relevance to radiographic procedures

Learning Activities:
   Reading Assignment - Linn-Watson, Chapter 1
   Lecture
   Appendix B - Medical Terminology, Unit 1
   Appendix C - Benign and Malignant Tumors

Evaluation:
   Exam (50 points)

II. Skeletal/Muscular Systemic Classification of Disease
   A. Anatomy, Physiology and Function Review
   B. Imaging Considerations
   C. Disease Processes: Causes, Manifestations, Radiographic Signs
   D. Specialized Radiographic Procedures
Learning Activities:
Reading Assignment: Linn-Watson, Chapter 3
Reference: Bontrager, Chapters 4-13, 19
Lecture
Slides
Appendix D - Disease Processes, Unit 2
Appendix E, F - Fracture Classifications

Evaluation:
Exam (50 points)

III Hepatobiliary, Gastrointestinal Systemic Classification of Disease
A. Anatomy and Physiology Review
B. Imaging Considerations
C. Disease Processes: Causes, Manifestations, Radiographic Signs
D. Specialized Radiographic Procedures

Learning Activities:
Reading Assignment - Linn-Watson, Chapters 4 and 5
Reference: Bontrager - Chapters 14-16
Lecture
Slides
Appendix G - Disease Processes, Unit 4

Evaluation:
Exam (50 points)

IV Urinary and Reproductive Systemic Classification of Disease
A. Anatomy and Physiology Review
B. Imaging Considerations
C. Disease Processes: Causes, Manifestations, Radiographic Signs
D. Specialized Radiographic Procedures

Learning Activities:
Reading Assignment - Linn-Watson, Chapter 6 and 7
Reference: Bontrager - Chapters 17,18
Lecture
Slides
Appendix H - Medical Terminology, Unit 5
Appendix I - Disease Processes, Unit 5

Evaluation:
Exam (50 points)
V. Respiratory Systemic Classification of Disease
   A. Anatomy and Physiology Review
   B. Imaging Considerations
   C. Disease Processes; Causes, Manifestations, Radiographic Signs
   D. Specialized Radiographic Procedures

Learning Activities:
   Reading Assignment - Linn-Watson, Chapter 8
   Reference: Bontrager, Chapter 2
   Lecture
   Slides
   Appendix J - Disease Processes, Unit 3

Evaluation:
   Exam (50 points.)

VI. Circulatory and Lymph Systems - Classification of Disease
   A. Anatomy and Physiology Review
   B. Imaging Considerations
   C. Disease Processes: Causes, Manifestations, Radiographic Signs
   D. Specialized Radiographic Procedures

Learning Activities:
   Reading Assignment - Linn-Watson Chapter
   Reference: Bontrager - Chapter 23
   Lecture
   Slides
   Appendix K - Disease Processes, Unit 6
   Appendix L - Blood Flow, Unit 6

Evaluation:
   Exam (50 points)

VII. Central Nervous System Classification of Diseases
   A. Anatomy and Physiology Review
   B. Imaging Considerations
   C. Disease Processes: Causes, Manifestations, Radiographic Signs
   D. Specialized Radiographic Procedures

Learning Activities:
   Reading Assignment - Linn-Watson, Chapter 10
   Reference: Bontrager - Chapter 23
   Lecture
   Slides
   Appendix M - Disease Processes, Unit 7
Appendix N - Cranial Nerves, Unit 7
Appendix O - Ventricles, Unit 7

Evaluation:
Exam (50 points)

VIII. Endocrine/Hematopoietic System Classification of Disease
A. Anatomy and Physiology Review
B. Imaging Considerations
C. Disease Processes: Causes, Manifestations, Radiographic Signs
D. Specialized Radiographic Procedures

Learning Activities:
Reading Assignment: Linn-Watson, Chapter 11
Lecture
Appendix P Hematopoietic System
Appendix Q - Disease Process, Unit 8

Evaluation:
Exam (50 points)

UNIT II
Objectives and Content
A. Introduction
1. Definitions
2. Basic concepts
   a. Site of action
   b. Mechanism of action
   c. Receptor site
   d. Agonists and antagonists
   e. Dose-response relationships
   f. Time-response relationships
3. Drug safety
   a. Four rights
4. Drug nomenclature
5. Drug abuse
B. Biological Factors Affecting the Action of Drugs
1. Dosage forms
   a. Aqueous preparations
   b. Alcoholic preparations
   c. Solid and semisolid preparations
2. Routes of Administration
   a. Syringes
   b. Needles
3. Drug absorption
4. Drug distribution
5. Drug metabolism
6. Drug excretion
   a. Renal
   b. GI
   c. Respiratory
   d. Miscellaneous
7. Half-life
8. Blood drug levels
9. Bioavailability
10. Factors that may vary response
    a. Age
    b. Weight
    c. Sex
    d. Species differences
    e. Time
    f. Emotional factors
    g. Pre-existing disease
    h. Previous drug history
11. Drug interactions
12. Therapeutic uses of drug

C. Classification of Drugs
1. Analgesics
   a. Pain-acute/chronic
   b. Narcotics (opioid)
   c. Non-narcotic and anti-inflammatory drugs
2. Antipsychotic, antiemetic, antianxiety drugs
3. Antidepressants, psychomotor stimulants, lithium
4. Antiarrhythmic drugs
5. Antianginal agents (vasodilators)
6. Diuretics
7. Antihypertensive agents
8. Anticoagulants and coagulants
9. Antiallergic/antihistamine drugs
10. Bronchodilator drugs
11. Antiulcer Therapy
12. Adrenal steroids
13. Gonadal hormones and oral contraceptives
14. Antibacterial agents
15. Antiprotozoal drugs
16. Antiseptics and disinfectants

D. Cardio-pulmonary Resuscitation Drugs

Learning Activities:
UNIT III

Objectives and Content
A. Contrast Media
   1. Definitions
      a. Ionic
      b. Non-ionic
   2. Indications/Contraindications
   3. Dosage
   4. Preparation
B. Venous System Anatomy
   1. Upper extremity venous anatomy
   2. Most common venipuncture sites
C. Room/Patient Preparation
   1. Room equipment
      a. Code/ Crash Cart
      b. Oxygen
      c. Suction
      d. Tourniquet
      e. Needles/butterflies
      f. Alcohol wipes/ betadine
      g. Tape
      h. Gauze
      i. Arm board
      j. Bandaids
   2. Patient Preparation
      a. Proper examination identification
      b. Proper patient identification
      c. Patient allergic history
      d. Examination explanation
D. Administration/Venipuncture
   1. Universal precautions
   2. Site preparation
   3. Tourniquet
   4. Cleansing of site
   5. Needle insertion
   6. Injection/release of tourniquet
7. Patient observation
8. Needle withdrawal
9. Site pressure

E. Vital Signs
1. Pulse
2. Respiration
3. Blood pressure
4. Oxygen therapy
5. Heart monitoring

F. Complications/Reactions
1. Patient observation
2. Patient management
3. Documentation

Learning Activities:
- Lecture
- Appendix U - Infection Control/Body Fluid Precautions
- Appendix V - Vital Signs
- Appendix W - Venipuncture
- Appendix X - Venipuncture Practicum

Evaluation:
- Unit Exam (50 points)

Final Evaluation:
- Student Essay (Appendix A) 200 points
- Comprehensive Exam (Units 1 and 2) 200 points
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Radiography Curriculum Analysis

**DIRECTIONS:** Determine the course(s) in which each of the following content areas is covered and enter the course number(s) and/or title(s) into the appropriate column. For guidance in what should be covered for each content area, please refer to the Radiography Curriculum (2002) published by the American Society of Radiologic Technologists.

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<td>Legal and ethical responsibilities</td>
<td>RTEC 135</td>
<td></td>
</tr>
<tr>
<td>Units, Detection, and Measurement</td>
<td>RTEC 135, 261</td>
<td></td>
</tr>
<tr>
<td>Surveys, Regulatory/Advisory Agencies and Regulations</td>
<td>RTEC 135</td>
<td></td>
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<tr>
<td>Personnel Monitoring</td>
<td>RTEC 114, 135</td>
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<td>Application</td>
<td>RTEC 114, 135</td>
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<tr>
<td>Patient Protection</td>
<td>RTEC 114, 135</td>
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<tr>
<td>Professional Curriculum</td>
<td>Prerequisite Course(s)</td>
<td>Program Course(s)</td>
</tr>
<tr>
<td>--------------------------------------------</td>
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<tr>
<td><strong>Radiation Biology</strong></td>
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<tr>
<td><strong>Introduction</strong></td>
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<tr>
<td>Molecular bonds</td>
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<td>RTEC 135, 261</td>
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<tr>
<td>Cell biology</td>
<td></td>
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<tr>
<td>Types of ionizing radiation</td>
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<td>RTEC 122, 135, 261</td>
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<td>Sources of medical radiation exposure</td>
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<td>Biophysical Events</td>
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<td>Radiation Effects</td>
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<tr>
<td>Radiosensitivity and Response</td>
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<td>RTEC 135, 261</td>
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<tr>
<td><strong>Radiographic Pathology</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Definitions/Terminology</td>
<td></td>
<td>RTEC 251</td>
</tr>
<tr>
<td>Classifications (Definition, Examples, Sites, Complications, Prognosis)</td>
<td></td>
<td>RTEC 121, 131, 251</td>
</tr>
<tr>
<td>Trauma Diagnosis</td>
<td></td>
<td>RTEC 251</td>
</tr>
<tr>
<td>Causes of Disease (Process, Examples)</td>
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<td>RTEC 251</td>
</tr>
<tr>
<td>Radiologic Pathology (Definitions, Etiology, Examples, Sites, Complications, Prognosis, Radiographic Appearance, Procedural and Technique Considerations)</td>
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<td>RTEC 251</td>
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<tr>
<td><strong>Computers in Radiologic Sciences</strong></td>
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<td>Fundamentals</td>
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<td>RTEC 132</td>
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<td>Components</td>
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<td>RTEC 132</td>
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<td>Operations</td>
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<td>RTEC 132</td>
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<tr>
<td>Radiology Applications</td>
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<td>RTEC 132, 132L</td>
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<tr>
<td>Internet</td>
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<td>RTEC 132</td>
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<tr>
<td>Professional Curriculum</td>
<td>Prerequisite Course(s)</td>
<td>Program Course(s)</td>
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<tr>
<td>--------------------------------------------------------------</td>
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<tr>
<td><strong>Pharmacology and Drug Classification</strong></td>
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<tr>
<td>Drug Nomenclature</td>
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<td>RTEC 251</td>
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<tr>
<td>Methods of Drug Classification</td>
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<td>RTEC 251</td>
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<tr>
<td>General Pharmacologic Principles</td>
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<tr>
<td>Five Rights of Drug Safety</td>
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<td>RTEC 251</td>
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<tr>
<td>Drug Categories of Relevance to Radiography (Side Effects,</td>
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<td>RTEC 120, 131, 251</td>
</tr>
<tr>
<td>Uses, and Impacts on Medical Imaging)</td>
<td></td>
<td></td>
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<tr>
<td>Classifications of Contrast Agents</td>
<td></td>
<td>RTEC 120, 131, 251</td>
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<tr>
<td>Routes of Drug Administration</td>
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<td>RTEC 251</td>
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<tr>
<td>Intravenous Drug Therapy</td>
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<td>RTEC 251</td>
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<tr>
<td>Current Practice Status</td>
<td></td>
<td>RTEC 120 and throughout</td>
</tr>
<tr>
<td>Informed Consent</td>
<td></td>
<td>RTEC 120, 251</td>
</tr>
<tr>
<td><strong>Human Diversity</strong></td>
<td></td>
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<tr>
<td>Values</td>
<td></td>
<td>RTEC 120 and throughout</td>
</tr>
<tr>
<td>Culture, Ethnicity, and Diversity</td>
<td></td>
<td>RTEC 120 and throughout</td>
</tr>
<tr>
<td><strong>Clinical Practice</strong></td>
<td></td>
<td></td>
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<tr>
<td>Clinical Practice</td>
<td></td>
<td>RTEC 114, 124, 214, 224, 234</td>
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<tr>
<td>Code of ethics/professional behavior</td>
<td></td>
<td>&quot;</td>
</tr>
<tr>
<td>Professional communication</td>
<td></td>
<td>&quot;</td>
</tr>
<tr>
<td>Role of health care team members</td>
<td></td>
<td>&quot;</td>
</tr>
<tr>
<td>Scheduling and sequencing of exams</td>
<td></td>
<td>&quot;</td>
</tr>
</tbody>
</table>
Educational programs in radiography are encouraged rather than required to incorporate the following general education elements in their curricula. Each program is required, however, to submit information regarding which, if any, of the elements are included in its curriculum. This data will NOT be maintained for individual programs but will be used to track the degree to which the population of accredited programs is incorporating the listed general education courses.

<table>
<thead>
<tr>
<th>Professional Curriculum</th>
<th>Prerequisite Course(s)</th>
<th>Program Course(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended Post-secondary General Education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematical/Logical Reasoning</td>
<td>MATH 113</td>
<td>RTEC 122, 132L</td>
</tr>
<tr>
<td>Communication</td>
<td>SPCH 101</td>
<td>RTEC 120, 132</td>
</tr>
<tr>
<td>Arts and Humanities</td>
<td>SPCH 102</td>
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<tr>
<td>Information Systems</td>
<td>ENGL 131</td>
<td></td>
</tr>
<tr>
<td>Social/Behavioral Sciences</td>
<td>PSYC 150</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PSYC 233</td>
<td></td>
</tr>
</tbody>
</table>

Please note: Students at Mesa State College are required to take two English composition courses, choose from 13 courses in Social and Behavioral Science, Humanities or Applied Studies; and College Algebra.
MESA STATE COLLEGE  
Nursing and Radiologic Sciences  
Associate of Applied Science Degree  
Radiologic Technology  

Justification for changes to the curriculum  
November 11, 1999  

The faculty of the Radiologic Technology program has desired to change the curriculum to enhance the student's learning while at the same time continue with the high standards the program has set over the past 25 years.

The proposed changes will allow our students to complete the program within a five-semester time frame instead of the six semesters currently in place. The new curriculum will also allow the students to increase their competency levels in patient care and clinical situations on campus prior to applying their knowledge at the clinical site.

CCCOES has allowed our program to carry 78 credit hours but has always requested that radiologic technology programs in Colorado have a maximum of 75 credit hours. With the changes, we will reduce the number of program credit hours to 74.

According to the Standards for Accredited Educational Programs in Radiologic Sciences that are set by the Joint Review Committee on Education in Radiologic Technology, student learning in the clinical setting is determined by competency based education. This program will fall within the accepted amount of clinical hours as suggested by the JRCERT.

The proposed changes will also allow the faculty to be creative in increasing the number of FTE in the program. At this time, there is a paucity of registered radiologic technologists across the country. The faculty wishes to offer a better-equipped program, in a more reasonable time frame, to provide qualified practitioners to meet the demands of health care on the Western Slope as well as in this state, region and beyond.
### Radiologic Technology 2001-2002

**School of Business and Professional Studies**

**Associate of Applied Science**

The Radiologic Technology graduate is eligible to take the examination administered by the American Registry of Radiologic Technologists.

1. **Pre-requisite**
   - BIOL 141, 141L Human Anatomy and Physiology & Lab 5
     - This is a pre-requisite to the program and must be completed successfully, within the five years prior to applying to the program.

2. **Course requirements for this degree**
   - a. English Composition 6
   - b. Social or Behavioral Science (PSYC 150 General Psychology and one other Social/Behavioral or Humanities) 6
   - c. Human Performance and Wellness 2
   - d. CSCI 100 Computers in Our Society 3

3. **Program Courses**
   - RTEC 114 Radiographic Clinical Experience I 2
   - RTEC 120 Introduction to Rad Tech and Patient Care 3
   - RTEC 121, 121L Radiographic Anatomy and Positioning/Lab 3
   - RTEC 122, 122L Principles of Exposure/Lab 3
   - RTEC 124 Radiographic Clinical Experience II 4
   - RTEC 125 Radiologic Science 2
   - RTEC 131, 131L Radiographic Anatomy and Positioning II/Lab 3
   - RTEC 132, 132L Radiographic Equipment and Special Imaging/Lab 3
   - RTEC 135 Radiation Biology and Protection 2
   - RTEC 214 Radiographic Clinical Experience III 8
   - RTEC 224 Radiographic Clinical Experience IV 8
   - RTEC 234 Radiographic Clinical Experience V 8
   - RTEC 251 Radiographic Pathology 3
   - RTEC 255 Radiographic Assessment I 1
   - RTEC 261 Radiographic Review 3
   - RTEC 265 Radiographic Assessment II 1

   **Total Hours** 74

4. **Special Requirements** - There is a separate application form used for admittance to the program. Please contact the Department of Nursing and Radiologic Sciences.
**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Hours</th>
<th>Spring Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENGL 111</strong> English Composition</td>
<td>3</td>
<td><em>CSCI 100</em> Computers in our Society</td>
<td>3</td>
</tr>
<tr>
<td>--RTEC 114 Clinical I</td>
<td>2</td>
<td>--RTEC 124 Clinical II</td>
<td>4</td>
</tr>
<tr>
<td>--RTEC 120 Intro to Rad Tech I</td>
<td>3</td>
<td>--RTEC 131 A&amp;P II</td>
<td>2</td>
</tr>
<tr>
<td>--RTEC 121 Anatomy/Positioning</td>
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<td>--RTEC 131L A&amp;P II Lab</td>
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</tr>
<tr>
<td>--RTEC 121L Anatt/Positioning Lab</td>
<td>1</td>
<td>--RTEC 132 Equip &amp; Special Imaging</td>
<td>2</td>
</tr>
<tr>
<td>--RTEC 122 Principles of Exposure</td>
<td>2</td>
<td>--RTEC 132L Lab</td>
<td>1</td>
</tr>
<tr>
<td>--RTEC 122L Exposure Lab</td>
<td>1</td>
<td>--RTEC 135 Rad Bio</td>
<td>2</td>
</tr>
<tr>
<td>--RTEC 125 Rad Science</td>
<td>2</td>
<td><strong>HPWA 100</strong></td>
<td>1</td>
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<tr>
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<td></td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Summer Semester</th>
<th>Hours</th>
<th>Fall Semester</th>
<th>Hours</th>
<th>Spring Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gen Ed Social/Behavioral</td>
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<td><strong>ENGL 112</strong> English Composition</td>
<td>3</td>
<td>Gen Ed Social/Behavioral</td>
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<tr>
<td>--RTEC 243 Clinical Exp. III</td>
<td>8</td>
<td>--RTEC 224 Clinical IV</td>
<td>8</td>
<td>--RTEC 234 Clinical V</td>
<td>8</td>
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<tr>
<td></td>
<td></td>
<td>--RTEC 251 Pathology</td>
<td>3</td>
<td>--RTEC 261 Review</td>
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<td></td>
<td></td>
<td>--RTEC 255 Assessment I</td>
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<td>--RTEC 265 Assessment II</td>
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<td></td>
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</table>

**English Requirement** .............................................. 6
**Social or Behavioral Science Requirement** .......................... 6
**Human Performance and Wellness** .................................. 2
**Required Core Courses** ..................................................... 60
**TOTAL HOURS REQUIRED** .................................................. 74

*Support Course Requirement: Must be completed within a five year period prior to acceptance in the Radiologic Technology Program.*

**General Education Requirement: May be taken previously or simultaneously with program courses.**

--Radiology Program Requirement: Must be completed in sequence and may only be taken after acceptance in the Radiologic Technology program.

**BIOL 141 and 141L HUMAN ANATOMY & PHYSIOLOGY IS A PRE-REQUISITE TO THE PROGRAM. If the student is enrolled at the time of application, acceptance into the program will be based upon successful completion of this course (successful completion means achieving a grade of “C” or higher).**
The Radiologic Technology graduate is eligible to take the examination administered by the American Registry of Radiologic Technologists.

NOTE: This curriculum is undergoing revision. Contact Department of Nursing and Radiologic Sciences for program requirements.

1. Pre-requisite
   BIOL 141, 141L Human Anatomy and Physiology & Lab 5
   This is a pre-requisite to the program and must be completed, successfully, within the five years prior to applying to the program.

2. Course requirements for this degree
   a. English Composition 6
   b. Social or Behavioral Science (PSYC 150 General Psychology and one other Social/Behavioral or Humanities) 6
   c. Human Performance and Wellness 2

3. All of the following courses
   CSCI 100 Computers in our Society 3
   (must be completed, successfully, within the five (5) years prior to applying to the program)
   RADT 110 Radiologic Introduction 3
   RADT 121, 121L Radiologic Technology and Lab 3
   RADT 122, 122L Radiologic Principles I and Lab 3
   RADT 123 Clinical Experience 4
   RADT 125 Radiologic Science I 2
   RADT 131, 131L Radiologic Technology II and Lab 3
   RADT 132, 132L Radiologic Principles II and Lab 3
   RADT 133 Clinical Experience II 4
   RADT 135 Radiologic Science II 2
   RADT 243 Clinical Experience III 8
   RADT 251 Radiologic Technology III 3
   RADT 253 Clinical Experience IV 10
   RADT 261 Radiologic Technology IV 3
   RADT 263 Clinical Experience V 10

4. Special Requirements – There is a separate application form, please contact the Department of Nursing and Radiologic Sciences.
RADIOLOGIC TECHNOLOGY
School of Business and Professional Studies

Associate of Applied Science
Suggested Course Sequencing

FRESHMAN YEAR

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<thead>
<tr>
<th>Spring Sem. or Sum., if offered</th>
<th>Hours</th>
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<tr>
<td><strong>ENGL 111 English Composition</strong></td>
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<tr>
<td><em>CSCI 100 Computers in Our Society</em></td>
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<tr>
<td>--RADT 110 Radiologic Introduction</td>
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<tr>
<td><strong>PSYC 150 General Psychology</strong></td>
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<tr>
<td><strong>HPWE XXX Aerobic/Fitness Activity</strong></td>
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Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td><strong>ENGL 112 English Composition</strong></td>
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<tr>
<td>--RADT 121 Rad Tech I</td>
<td>2</td>
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<tr>
<td>RADT 121L Lab</td>
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<tr>
<td>RADT 122 Rad Principles I</td>
<td>2</td>
</tr>
<tr>
<td>RADT 122L Lab</td>
<td>1</td>
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<tr>
<td>--RADT 123 Clinical Experience</td>
<td>4</td>
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<td>--RADT 125 Radiologic Science I</td>
<td>2</td>
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<tr>
<td><strong>HPWA 100 Health &amp; Wellness</strong></td>
<td>1</td>
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SOPHOMORE YEAR

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<th>Hours</th>
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<td>--RADT 243 Clinical Exp. III</td>
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Fall Semester

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<tr>
<td>--RADT 251 Radiologic Tech. III</td>
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<td>--RADT 253 Clinical Exp. IV</td>
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Spring Semester

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</tr>
<tr>
<td>--RADT 131 Rad Tech II</td>
<td>2</td>
</tr>
<tr>
<td>RADT 131L Lab</td>
<td>1</td>
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<tr>
<td>RADT 132 Rad Princ. II</td>
<td>2</td>
</tr>
<tr>
<td>RADT 132L Lab</td>
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</tr>
<tr>
<td>--RADT 133 Clinical Exp. II</td>
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</tr>
<tr>
<td>RADT 135 Radiologic Science II</td>
<td>2</td>
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<td></td>
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English Requirement ................................................. 6
Social or Behavioral Science Requirement ...................... 6
Human Performance and Wellness .................................. 2
Required Core Courses ............................................. 64
TOTAL HOURS REQUIRED ........................................... 78

*Support Course Requirement: Must be completed within a five year period prior to acceptance in the Radiologic Technology Program.

**General Education Requirement: May be taken previously or simultaneously with program courses.

--Radiology Program Requirement: Must be completed in sequence and may only be taken after acceptance in the Radiologic Technology program.

BIOL 141 and 141L HUMAN ANATOMY & PHYSIOLOGY IS A PRE-REQUISITE TO THE PROGRAM. If the student is enrolled at the time of application, acceptance into the program will be based upon successful completion of this course (successful completion means achieving a grade of "C" or higher).
4.3 Does the program provide a curriculum that promotes professional values, life-long learning, and competency in critical thinking and problem solving skills?

Explanation:
The program's curriculum must be designed to identify and foster professional values, instill life-long learning, and promote student development of competencies in critical thinking and problem solving skills. The curriculum should also promote the development of intellectual skills such as the ability to apply fundamental theory to practice, assess situations and make appropriate judgments, interact effectively in a culturally diverse world, and increase knowledge through continuing education.

Rationale:
These qualities are necessary for students/graduates to practice competently, make good decisions, assess situations, provide appropriate patient care, and keep abreast of current advancements within the profession.

Compliance May Be Demonstrated by:
Describing how the program promotes student development of professional values and life-long learning and competencies in critical thinking and problem solving.

Possible Site Assessment Methods:
- Review of master plan of education
- Review of curriculum competencies
- Review of course descriptions, outlines, syllabi, lesson plans
- Review of analysis of student, graduate, and employer surveys
- Interviews with faculty
- Interviews with students

| Level of Effort | Attach Additional Pages If Necessary | Has Program Met Objective?
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
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<tr>
<td></td>
<td></td>
<td>Yes</td>
</tr>
</tbody>
</table>

Students are introduced to critical thinking and problem solving, as well as professional values and life-long learning in the first semester of the program. Various group exercises and role playing (exhibit 4.3a) are planned to acquaint the students with cultural diversity issues, age and gender issues, and ethical issues. Problem solving and critical thinking skills are integrated in all courses throughout the curriculum. In the clinical setting, students must interact with patients, peers and technologists, displaying an understanding of professional values. The students will use reflective journaling throughout all clinical experience to discuss various ethical, diversity, and professional issues that they encounter (exhibit 4.3b) culminating in a paper reflecting their journaling (exhibit 4.3c).

All students are encouraged to participate in state, local and national organizations. Recently, Mesa State students became a part of the Lambda Nu Honor Society. Students have not only attended conferences, they have participated in college knowledge bowls and essay competitions. The majority of graduates have remained members of the state or national societies (see assessment plan).
## Summary - Attitudes and Communication in Patient Care

### Evaluation Criteria - 2003

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Description</th>
<th>0 No Evidence of Criteria</th>
<th>1-5 Minimal Standard of Evidence</th>
<th>6-9 Good Example In Evidence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creativity</td>
<td>Express imaginative and original thought.</td>
<td></td>
<td></td>
<td>15 scored 9/9</td>
</tr>
<tr>
<td>Organization</td>
<td>Put thoughts and presentation in order.</td>
<td></td>
<td></td>
<td>3 scored 8/9</td>
</tr>
<tr>
<td>Method Verbal</td>
<td>Dramatize verbal methods used by both parties in communication.</td>
<td></td>
<td></td>
<td>18 scored 9/9</td>
</tr>
<tr>
<td>Method Nonverbal</td>
<td>Dramatize nonverbal methods used by both parties in communication.</td>
<td></td>
<td></td>
<td>18 scored 9/9</td>
</tr>
<tr>
<td>Understanding</td>
<td>Recognize and relate factors involved in the problem.</td>
<td></td>
<td></td>
<td>18 scored 9/9</td>
</tr>
<tr>
<td>Narration</td>
<td>Deliver presentation that illustrates an attitude or communication problem.</td>
<td></td>
<td></td>
<td>15 scored 9/9</td>
</tr>
<tr>
<td>Investigation</td>
<td>Identify, examine, and disclose all possible reactions to the problem.</td>
<td></td>
<td></td>
<td>3 scored 7/9</td>
</tr>
<tr>
<td>Conclusion</td>
<td>Summarize the problem, solution, and outcome.</td>
<td></td>
<td></td>
<td>18 scored 9/9</td>
</tr>
<tr>
<td>Attitude</td>
<td>Relate how attitude influences communication.</td>
<td></td>
<td></td>
<td>18 scored 9/9</td>
</tr>
<tr>
<td>Thinking</td>
<td>Reflect on the best way to handle similar communication problems.</td>
<td></td>
<td></td>
<td>18 scored 9/9</td>
</tr>
<tr>
<td>Explain</td>
<td>Elaborate on critical thinking involved in the determining solution.</td>
<td></td>
<td></td>
<td>18 scored 9/9</td>
</tr>
</tbody>
</table>

**Total score**

- **12 students = 100%**
- **3 students = 99%**
- **3 students = 98%**
ADVENTURES IN TECHNIQUE

The purpose of this activity is to have each person bring in a necessary element to the final technique to produce a quality radiograph. The class will be divided into groups of five with two students being the patient.

Each person in the group will take on a part of the technique by selecting a slip of paper with the factor written on it. The five parts of technique are: mAs, kVp, distance, grid and RS screen. Each person must present a number (i.e., 300 mA, 100 ms, 70 kVp, 48" distance, 12:1 grid, 400 RS screen) and explain their selection. Based on the number given, the group must determine what the final technique will be for the type of exam, body habitus and disease process present in the patient.

The students who are designated the patient will work with the instructor to decide what exam, what body habitus and what disease process (if any) will be presented to the groups. Each group will be given 5 minutes to determine the technique and then must present their findings on the board. We will then discuss if the technique chosen is appropriate.
Prompted Journal Guide

The purpose of this assignment is to provide the student with an opportunity to reflect on ethics, attitudes, and behaviors involved in patient care and interaction with others.

Format:
- Keep all journal entries in one notebook that has your name on the outside.
- Entries may be typed or handwritten in ink. All entries must be legible.
- Identify the prompt you have selected for each entry.
- Date each entry.
- Proper sentence structure/spelling are encouraged; however there will be no reduction for errors.

Procedure:
- Journals will remain confidential.
- 214-summer semester: One journal each week, due at the end of every two weeks to correspond to each biweekly period.
- 224-fall and 234-spring semesters: One journal due at the end of every two weeks to correspond to each biweekly period.
- Late journals will not be accepted.

Assessment:
Each journal period will be worth a possible 100 points.
Reductions:
* 1-10 points - failing to use proper format.
* 1-10 points - failing to demonstrate thoughtful reflection.

Content:
- Use experience and/or prior learning to support reflective thought.
- At least one entry per week will be required.
- Do not use real names of patients or other individuals.
- Use initials to distinguish various individuals.
- Select from the prompts below. Use a prompt only once.

Prompts:
1. Reflect on the characteristics of a "good" student in the clinical setting. Support your reason for selecting these characteristics.
2. Discuss something that has happened to you in the past (outside of your current education) that influences how you approach a patient now. Include how your experience and personal feelings might influence the care you give a patient.
3. Consider your own attitudes, ethics, and behaviors in the clinical setting. Identify your strengths and weaknesses in each of these aspects.
4. Discuss personal coping methods to deal with death and dying or traumatic situations.
5. List types of prejudice that could adversely affect patient care and interaction. Identify your own biases that influence how you care for patients.
6. Describe characteristics of a "good" radiographer. Support your reason for selecting these characteristics.
7. Describe a difficult situation in which a constructive interaction took place between you and the technologist involved. What qualities encouraged good communication and mutual respect?
7. Describe an event where you think radiation safety was compromised. Is it acceptable to compromise radiation safety in order to save time during an examination? Is it more important to protect yourself, coworkers, the general public, or the patient from radiation?

8. Describe an event where you think patient care was compromised. Is it ever right to compromise the quality of an examination? Support your reflection.

9. In the emergency room observe interactions between radiologic technologists and ER personnel. Discuss how the critical nature of the environment might influence behavior.

10. Reflect on a radiographic procedure you performed on a one to three year old toddler. Discuss modifications made by you or others in order to communicate with the child. Where these modifications appropriate for that child? Discuss why or why not.

11. Select a parent whose child is having a radiographic procedure. Observe how the parent relates to the child. Discuss how you think the parent's actions influenced the child's behavior. Reflect on different approaches a radiographer might have to enlist the support of a parent when radiographing a child.

12. Reflect on a radiographic procedure you performed on a six to ten year old child. Identify how the child verbally and nonverbally expressed their feelings. Discuss whether these expressions were age-appropriate or not. Reflect on the special needs and fears of a child in this age group.

13. Select a geriatric patient. Following a general functional assessment (vision, hearing, motor function, mental condition, and emotional state) describe how your assessment influenced how you approached the examination. Describe modifications. Discuss how age related physical deterioration affects any patient's attitude, ability to understand and communicate, remember, and maintain self worth.

14. Reflect on a procedure with an uncooperative patient. Discuss modifications in patient care made in order to complete the examination. Reflect on the outcome of the modifications. Was the patient well served? Did you learn anything from the experience that will change the way you might approach a similar situation in the future?

15. Consider a radiographic procedure you performed on a mentally compromised patient. Discuss the pros and cons of modifications made to perform the examination. Identify the special needs and fears of a mentally compromised person. Describe changes you would make in a similar situation.

16. Reflect on a radiographic procedure you performed where a handicapped patient's primary caretaker actively participated in the examination. Discuss the level of support the caretaker provided to the patient. Assess how patient care was influenced by the presence and aid of the primary caretaker.

17. Discuss communication with an unconscious or comatose patient.

18. Describe a procedure involving a paraplegic or quadriplegic patient. Discuss special care provided to a paraplegic or quadriplegic patient. Identify methods to support the patient's sense of self-worth.
19. During the surgical rotation observe interpersonal communication between surgical personnel, surgeons, and radiologic technologists. Discuss how the environment might influence communication between the parties. What qualities would help foster good communication?

20. During the CT rotation observe how the team functions. Identify qualities that improve interactions between the team members. Identify aspects of interaction that could be improved to better serve the patient.

21. During an interventional procedure observe how the interventional team functions. Identify qualities that improve interactions between the team members. Identify aspects of interaction that could be improved to better serve the patient.

22. Observe a radiologist gaining consent to perform an interventional procedure. Identify methods used by the radiologist to help the patient understand. Recognize ways the radiologist modified the approach to meet the needs of this particular patient. Describe any limitations that made modifications necessary. Describe communication skills used by the radiologist to verify the patient has understood accurately.

23. During the nuclear medicine rotation, observe how the team functions to improve patient care. Identify specific qualities needed in that area to improve patient care.

24. During the ultrasound rotation, observe how the team functions to improve patient care. Identify specific qualities needed in that area to improve patient care.

25. During the MRI rotation, observe how the team functions to improve patient care. Identify specific qualities needed in that area to improve patient care.

26. During the MRI rotation, observe how the nature of MRI procedures influences communication between the radiologic technologist and patient. Describe the similarities in and differences between interaction involved in an MRI exam and a typical diagnostic exam. What communication skills would a conscientious MRI technologist possess?

27. During the oncology rotation, observe how the team functions to improve patient care. Identify specific qualities needed in that area to improve patient care.

28. During the oncology rotation identify how team members interact with patients. Consider how intense daily/weekly interaction influences relationships.

29. Create your own topic. Include some aspect of ethics, attitude, or behaviors involved in patient care or interaction with others.
Reflection on Journaling

As I complete my last clinical rotation I want to stop for a moment and reflect on my experiences and everything I have learned along the way. Being a CNA at St. Mary's Hospital, plus volunteering as an assistant adaptive ski instructor with Colorado Discover Ability at Powderhorn Ski Area have provided me with experience working patients of all ages and with various types of disabilities, but when I began my first rotation I was extremely nervous. I try to be a perfectionist and I was initially worried that I would not do as well as I would like, but looking back I see that my fear was unjustified because all the technologists I trained with during my clinical were very patient and helpful. The important things I learned can be divided into two categories: interacting with the patients and the interactions of the teams.

Patient care begins in the waiting room when you first meet your patient and a good first impression by the patient of the technologist is very important. The patient can be nervous, apprehensive, and worried about the procedure, so the technologist should introduce herself to the patient, and any family or caregivers present, always speaking in a calm, professional, reassuring tone. Carefully explain what will happen during the procedure and describe the equipment. Another important function of the technologist is patient evaluation. Procedures are performed on all ages and disabilities and a successful procedure depends a great deal upon the technologist's ability to properly evaluate his patient. I learned that a young child will be frightened of the strange surroundings and scary equipment. I helped calm the mother and work with her to keep her child calm and reassured during the procedure. Older patients presented a different set of challenges for me; they can be: very arthritic, hard of hearing, disoriented and confused. I learned to determine the best and most comfortable way to perform the procedure.
RETEC 261

Radiographic Review

Personal Journal Reflection

April 26, 2004
During the past two years, we were given topic guidelines to provoke reflection on our experiences as students in the radiography setting. Initially, I chose those topics that required observation of professional staff interactions with co-workers, students and patients. I found that I was somewhat critical and tended to look for unprofessional interactions. This helped me to determine how I might react in similar situations in the future. It would be best served to keep in mind some of the errors to ensure that I do not fall into similar patterns. When observing in a new situation, it is relatively easy to pick out things that need improvement, however, after working in any field for vary long it is also easy to cut corners or forget the basic principles of the profession in an effort to get the job done. Of all the exams I have participated in and will do in the future, I truly hope that I never forget to look at the patient’s viewpoint. They have concerns, fears and expectations about the medical profession that can easily be overlooked as we become more comfortable with our duties.

I have also found that many of the criticisms I initially had needed to be reevaluated. As professional technologist, there are justly expectations of skill quality and proficiency of duties. There is also the human factor that plays a key roll. Everyone has their strengths, weaknesses and is sure to have a “bad day”. I’ve found that being a team player involves recognizing this and attempting to assist when and where I can to help the situation rather than using it as an opportunity for belittlement. Unfortunately, there have been those who I could have learned a great deal from, but because of their attitudes, I have become defensive. This serves no purpose. Weather or not we realize it, the patients are also impacted, as we tend to react to them based on our mood and preconceived ideas. Some hospital staff (technologists included) forgets that we are there to serve the patient’s needs and that the patient’s are not there to serve ours.
I have attempted to approach errors with learning in mind. Mistakes will occur, but hopefully they will become fewer and farther between.

As individuals, we have personal biases. Being aware of this can assist us in providing better care. I have found that I really have a soft spot for the elderly. It is important that I recognize this and use caution not to become “sympathetic”. Patients are best served with “empathy” and consideration. In fact, I had a patient this week that suffered from arthritis and had just undergone c-spine decompression. She really appreciated that I acknowledged her discomfort, even though I had to make her somewhat uncomfortable in order to obtain adequate images of her neck. My interaction with her was really positive even though the images were not perfect and difficult to get. Another patient scheduled for an IVP with nephrotomograms this week was waiting for her exam. I wanted to do the exam as tomo’s are rarely seen. The technologist informed me that the patient needed to go to the nurses station for the insertion of an IV and that I should be aware that she “wasn’t all there” and no care giver was present. I introduced myself to the young lady (mid 20’s) and asked if I could take her to the nurse’s station. She wanted to pull herself down the hall with her feet without assistance. As we began the exam, it was obvious that she was not developmentally disabled to a great extent. Her physical disability was moderate to severe with clubbing of both feet and jerky movements. The films confirmed that her pelvis was severely deformed and the tomograms displayed bilateral Hydronephrosis. The radiologist did not say that polycystic disease was present, but several technologist looking at the films thought that it was. If the cotton ball looking areas are indicative, she may have advanced disease. The technologist assisting with the exam seemed to feel badly that her first impression
of the patient was “mentally challenged”. This situation truly illustrates the reason we should be
careful when leaping to conclusions.

I really appreciated the statement you made about diagnostic radiography being a “noble
profession”. I believe this to be true and hope that I can strengthen my abilities and increase my
knowledge to elevate my job performance to this standard. I plan to work in diagnostic and
expand my experience. Cross training in CT would also provide me with professional growth.
My favorite aspect of radiography is the patient contact. At times, it can be very challenging, but
it certainly gives one the opportunity to grow and learn from others.
**4.4 Does the program provide a well-structured, competency based curriculum that supports the program’s mission and goals?**

**Explanation:**

The curriculum must be appropriately sequenced and provide for assessment of student achievement of a specified level of proficiency. Clinical and didactic education must be appropriately correlated.

**Rationale:**

A well-structured curriculum allows for effective student learning by providing a knowledge foundation prior to performance of procedures and/or competency evaluation.

**Compliance May Be Demonstrated by:**

Describing how the program’s curriculum is structured.

**Possible Site Assessment Methods:**

- Review of master plan of education
- Review of didactic and clinical curriculum sequence
- Review of course descriptions, outlines, syllabi, lesson plans
- Interviews with faculty
- Interviews with students

<table>
<thead>
<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
</tr>
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<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
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</table>

All courses are sequenced to help the students utilize the principles from one course to the next advanced course. Didactic coursework is demonstrated in labs with some courses. In particular, RTEC 121 and 131 are the positioning courses that have an accompanying lab. In the lab, the students practice positioning and are given procedure exams to prove competency there. Once the student has proven competency in the lab, they will be able to do the same procedures at the clinical site and be evaluated there. Please see the competency flow chart in exhibit 4.4a, clinical procedure observation checklist (4.4b), and the procedure competency checklist in 4.4c.
A COMPETENCY BASED CLINICAL EDUCATIONAL SYSTEM FOR RADIOGRAPHY

ANATOMY and POSITIONING LECTURE

RADIOGRAPHIC LABORATORY

RADIOGRAPHIC PROCEDURES

DEMONSTRATION → PRACTICE ➔ EVALUATION * Simulated Procedure

FAIL ➔ PRACTICE ➔ EVALUATION

PASS ➔ CLINICAL EXPERIENCE

DIRECT SUPERVISION

Supervised Procedure

Practice

FAIL ➔ CLINICAL EXPERIENCE

INDIRECT SUPERVISION

EVALUATION ➔ PRACTICE ➔ INTRODUCTION

RADIOGRAPHIC IMAGE
FIRST YEAR
CLINICAL EVALUATION

Passed Unit of Study in Lab

Radiographic Procedure Evaluations

Room and Equipment Check-Offs

Patient Care Procedure Check-Offs

Bi-Weekly Affective Evaluation

Film Critique Evaluation

Radiographic Image Evaluation

Completed Unit of Study in Lab

Cumulative Scores for Clinical Performance

Student Requests Evaluation

Practice

Fail

Pass

Evaluation
Clinical Positioning Procedure Observations

In the clinical setting, for a given examination, the student must be under the **direct supervision** of a registered technologist until each of the following has been accomplished:

1. **In the lab** the student must pass the randomly selected simulated positioning procedure for each unit of study.

2. **In the clinical setting** the student must be observed performing an acceptable procedure for each of the listed procedures.
   
a. When the student is ready, they may request any registered radiologic technologist to observe them perform an examination.
   
b. This procedure is Pass/Fail. No grade is issued.
      
      **FAIL:** If the technologist makes an adjustment that they believe would have prevented a repeat radiograph, the student is considered to have failed the procedure. They must repeat it later.
      
      **PASS:** If the technologist believes the procedure will result in an acceptable examination, the student is considered to have passed the procedure.
   
c. At the time of the observation, the technologist will sign and date the form to indicate a satisfactory examination has been observed and performed by the student. A signed exam indicates the student may now (if they choose) perform that particular procedure on a patient with indirect supervision.
   
d. The student may hand in the films from this observation for an image evaluation, or the student may use the examination as a procedure evaluation.
      
      However, remember only a **clinical instructor** can grade a procedure evaluation. The student cannot hand in both an image evaluation and a procedure evaluation on the same examination.
   
e. If a student has not had the opportunity to perform a particular examination, a mock procedure will be done with the clinical instructor at the end of the second year.

**Direct Supervision:** The actions of the student are fully supervised by a registered radiologic technologist.

**Indirect Supervision:** A registered radiologic technologist is immediately available (adjacent to the location of the student) to provide assistance.
Clinical Positioning Procedure Observations

The signature of a registered technologist indicates the technologist believes the observed procedure will result in an acceptable radiograph.

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Esophagram</th>
<th>IVP-Tomes</th>
<th>Small Bowel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abdomen-Supine &amp; Erect</td>
<td>Facial Bones</td>
<td>Knee</td>
<td>Thoracic Spine</td>
</tr>
<tr>
<td>Abdomen-Decubitus</td>
<td>Femur</td>
<td>Lower Leg</td>
<td>Thumb</td>
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<tr>
<td>Ankle</td>
<td></td>
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<td>Barium Enema</td>
<td>Finger</td>
<td>Lumbar Spine</td>
<td>Toe</td>
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<tr>
<td>Cervical Spine</td>
<td>Foot</td>
<td>MRI Orbits</td>
<td>Upper GI</td>
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<tr>
<td>Chest-Routine</td>
<td>Forearm</td>
<td>Nasal Bones</td>
<td>Wrist</td>
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<tr>
<td>2-View</td>
<td></td>
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<tr>
<td>Chest-age 6 or younger</td>
<td>Hand</td>
<td>Patella</td>
<td>Trauma Extremity</td>
</tr>
<tr>
<td>Hip-Trauma</td>
<td>Hip</td>
<td>Pelvis</td>
<td>Portable Abdomen</td>
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<tr>
<td>Cystogram</td>
<td>Humerus</td>
<td>Shoulder</td>
<td>Portable Chest</td>
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<tr>
<td>IVP-Stone</td>
<td>Sinuses</td>
<td></td>
<td>Portable Orthopedics</td>
</tr>
</tbody>
</table>
INTRODUCTION

AMERICAN REGISTRY OF RADIOLOGIC TECHNOLOGISTS

RADIOGRAPHY

CLINICAL COMPETENCY REQUIREMENTS

There are core clinical competencies that all individuals must demonstrate to establish eligibility for ARRT certification. These requirements are in addition to graduation from an educational program accredited by a mechanism acceptable to the ARRT. The requirements listed are the minimum core clinical competencies necessary to establish eligibility for participation in the ARRT Radiography Examination.

Students must demonstrate competency in all 39 mandatory Radiological Procedures. At least 35 of the 39 mandatory competencies must be demonstrated on patients (not phantoms or simulated). Students must demonstrate competency in at least 10 of the 23 elective Radiological Procedures. Electives may be demonstrated on patients or phantoms, or as simulations.

ARRT recommends that educational programs include a mechanism of continuing and terminal competency evaluations to assure that students maintain proficiency during the course of the program. To meet this recommendation, students will record all exams performed during the eight, four-week diagnostic rotations. Limited studies may not be used for image or procedure evaluation.

There are several pages in this manual which are to be used to record all exams performed on a daily basis within the four-week period of diagnostic rotations. The instructor may ask for these records at any time during the rotation. The instructor will select three films and the student will select two from the exams recorded for image evaluations.

Each list will be reviewed at the end of the four-week rotation. There must also be a summary sheet attached that has been verified by the instructor. This information will be placed in the student’s file at the end of the clinical experience.
The college clinical instructor must verify the record after examining the procedure evaluation and recording the grade in the grade book.

<table>
<thead>
<tr>
<th>THORAX</th>
<th>Mandatory</th>
<th>Elective</th>
<th>Date Completed</th>
<th>Patient or Simulated</th>
<th>Verified by</th>
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</thead>
<tbody>
<tr>
<td>Chest, Routine</td>
<td>X</td>
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<tr>
<td>Chest, age 6 years or younger</td>
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<tr>
<td>Chest, wheelchair or stretcher</td>
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<td>Ribs</td>
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<td>Chest, decubitus</td>
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<td>Sternum</td>
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<td>Shoulder</td>
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<td>Foot</td>
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<td>Ankle</td>
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<tr>
<td>Tibia and Fibula</td>
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<td>Knee (AP, oblique, lateral)</td>
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<tr>
<td>Knee with patella (sunrise)</td>
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<tr>
<td>Femur</td>
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<tr>
<td>Trauma Extremity</td>
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<tr>
<td>Extremity, age 6 years or less</td>
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<td>Scapula</td>
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<td>Acromioclavicular Joints</td>
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<td>Trauma Shoulder</td>
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<td>X</td>
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<td>Toes</td>
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<td>Orbits</td>
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<td>SPINE AND PELVIS</td>
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<tr>
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<td>X</td>
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<tr>
<td>Trauma C Spine with cross table lat</td>
<td>X</td>
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<tr>
<td>Thoracic Spine</td>
<td>X</td>
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<tr>
<td>Lumbosacral Spine</td>
<td>X</td>
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<tr>
<td>Pelvis with unilateral hip</td>
<td>X</td>
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<tr>
<td>Pelvis with bilateral hip</td>
<td>X</td>
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<tr>
<td>Trauma Hip with cross table lat.</td>
<td>X</td>
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<tr>
<td>Scoliosis Series</td>
<td>X</td>
<td></td>
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<tr>
<td>Sacrum and/or Coccyx</td>
<td>X</td>
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<tr>
<td>Sacroiliac Joints</td>
<td>X</td>
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<tr>
<td>ABDOMEN AND GI TRACT</td>
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<tr>
<td>Esophagram</td>
<td>X</td>
<td></td>
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<tr>
<td>Abdomen, Supine and Upright</td>
<td>X</td>
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<tr>
<td>Abdomen, decubitus</td>
<td>X</td>
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<tr>
<td>Upper G.I. Series</td>
<td>X</td>
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<tr>
<td>Small Bowel Series</td>
<td>X</td>
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<tr>
<td>Barium Enema (single or double)</td>
<td>X</td>
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<tr>
<td>OTHER</td>
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<tr>
<td>Intravenous Urography</td>
<td>X</td>
<td></td>
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<tr>
<td>Myelography</td>
<td></td>
<td>X</td>
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<tr>
<td>Cystourethrography</td>
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<td>X</td>
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<tr>
<td>Digital Fluoroscopy</td>
<td>X</td>
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<tr>
<td>Digital Radiography</td>
<td>X</td>
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<tr>
<td>MOBILE</td>
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<tr>
<td>Portable Chest</td>
<td>X</td>
<td></td>
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<tr>
<td>Portable Abdomen</td>
<td>X</td>
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<td>Portable Orthopedics</td>
<td>X</td>
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<tr>
<td>SURGICAL</td>
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<tr>
<td>C-Arm Procedure (Surgical)</td>
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<tr>
<td>Operative Cholangiography</td>
<td>X</td>
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<tr>
<td>Retrograde Urography</td>
<td>X</td>
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</tbody>
</table>
4.5 Does the program’s curriculum reflect assessment of affective, cognitive, and psychomotor domains?

**Explanation:**
The curriculum must provide for evaluation of the extent to which students have learned desired behaviors.

**Rationale:**
Assessment of student performance is necessary to promote student achievement.

**Compliance May Be Demonstrated by:**
- Describing how the evaluation system assesses the affective, cognitive, and psychomotor domains.
- Providing examples of completed evaluation tools.

**Possible Site Assessment Methods:**
- Review of master plan of education
- Review of course descriptions, outlines, syllabi, and lesson plans
- Review of student competency evaluations
- Review of tools used for evaluation of the domains
- Review of grading policies/derivations
- Interviews with faculty
- Interviews with students

<table>
<thead>
<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>X</td>
<td>Yes or No</td>
</tr>
</tbody>
</table>

All three domains are assessed throughout the curriculum. The cognitive domain is evaluated through testing of the material presented, quizzes, reports and lab tests. The psychomotor domain is evaluated in the Anatomy and Positioning classes and labs, and then in the clinical through procedure and image evaluations. The affective domain is evaluated by using the Biweekly Evaluation of Attitude, Ethics and Behaviors in the clinical site and through attendance at classes, labs and clinical. Please see exhibits 4.5a, 4.5b and 4.5c for examples of each domain evaluations.
For each of the following multiple choice questions, select the one answer that is the most appropriate.

1. The rate at which energy is transferred from ionizing radiation to soft tissue is a definition of
   a. RBE
   b. OER
   c. LET
   d. dose-rate

2. Alpha particles and neutrons lose energy rapidly when traveling through matter, producing many ionizations in a short distance. They have
   a. low LET
   b. high LET

3. The most radiosensitive cells in the human body are
   a. muscle cells
   b. liver cells
   c. nerve cells
   d. lymphocytes

4. The interaction of radiation in cells is a matter of chance
   a. true
   b. false

5. Human cells damaged by radiation can never repair themselves.
   a. true
   b. false

6. Which of the following macromolecules has the greatest sensitivity to radiation?
   a. proteins
   b. mitochondria
   c. deoxyribonucleic acid
   d. adenosinetriphosphate

7. Which of the following is not a law of radiosensitivity?
   a. stem cells are radiosensitive
   b. the younger the cells the more radiosensitive
   c. radiosensitivity increases as the metabolic rate decreases
   d. radiosensitivity increases as cell proliferation rate and growth rate increases
14. DNA regulates cellular activity indirectly by reproducing itself in the form of _______ to carry genetic information from the cell nucleus to ribosomes located in the cytoplasm.
   a. messenger DNA
   b. messenger RNA
   c. messenger REM
   d. transfer RNA

15. Interphase consists of
   a. M, G, and S
   b. G, S and G
   c. S, G, and M
   d. G, M and G

16. The law of Bergonie and Tribondeau states that radiation damage to a cell is related to
    1. differentiation
    2. reproductive activity
    3. size and weight
   a. 1 only
   b. 3 only
   c. 1 and 2 only
   d. 2 and 3 only
   e. 1, 2 and 3

17. Which of the following is a primary cell radiosensitizer
   a. low dose rate
   b. low LET
   c. sulfahydryls
   d. oxygen

18. Which of the following would have the highest LET?
   a. x rays
   b. electrons
   c. protons
   d. alpha particles

19. The type of dose response relationship that was established for radiation protection guidelines for diagnostic imaging is:
   a. linear, non-threshold
   b. linear, threshold
   c. non-linear, threshold
   d. non-linear, non-threshold
27. Which of the following molecules is a protein?
   a. a salt
   b. water
   c. a nucleic acid
   d. an enzyme

28. In metaphase, the chromosomes
   a. split apart to form sister members
   b. line up along the equator of the cell
   c. remain dormant
   d. ooze through the cellular membrane

29. Polysaccharides are
   a. lipids
   b. nucleic acids
   c. carbohydrates
   d. proteins

30. The period of growth between division in the cell is termed
   a. anaphase
   b. prophase
   c. metaphase
   d. interphase

31. Homeostasis refers to the _________ of the body
   a. atomic composition
   b. constancy of the internal environment
   c. water content
   d. molecular composition

32. At what phase in mitosis are the chromosomes most visible?
   a. interphase
   b. anaphase
   c. prophase
   d. metaphase

33. Organic molecules
   a. are not essential for life
   b. contain nitrogen
   c. contain carbon
   d. include DNA
41. Messenger RNA moves from the _______ to the _______.
   a. cytoplasm, nucleus
   b. cytoplasm, mitochondria
   c. nucleus, mitochondria
   d. nucleus, ribosome

42. The response of tissue to radiation is principally a function of
   a. LET
   b. dose
   c. RBE
   d. fractionation

43. The law of Bergonie and Tribondeau relates to which of the following?
   a. radiocurability and tumor size
   b. radiosensitivity and cellular proliferation
   c. radiosensitivity and oxygenation
   d. radioresistance and cell lethality

44. Biologic material that is irradiated in the presence of oxygen has a higher degree of
   response to a given dose of radiation than that irradiated under reduced levels of oxygen.
   a. true
   b. false

45. When one considers the biologic factors affecting radiosensitivity:
   a. age is not a factor
   b. oxygen is not a factor
   c. chemical agents are capable of only sensitization
   d. chemical agents are capable of both sensitization and protection
46-53. Identify the four phases of mitosis and describe what happens in each phase. (8 points)

1) **Prophase** – Cell begins to swell

2) **Metaphase** – Centrioles line up at the equator

3) **Anaphase** – Two nucleus begin to form and cytoplasm starts to split

4) **Telophase** – Cells splits into two separate daughter cells

54-55. Define meiosis. (2 points)

A genetic cell goes through meiosis. It is similar to mitosis in that it goes through the Interphase and then meiosis (mitosis for somatic cell) except it skips DNA replication and produces 23 genes after going through the process twice in order to reduce the genes from 46 to 23.

56-60. Diagram the DNA chain and include all of the chemical rungs and rails on the chain. (5 points)
61-62. Name the chief functions of lipids and carbohydrates in the body. (2 points)

- Provides the energy needed by the body
- Insulation
- Structure

63-70 Identify the four dose response relationships and diagram each. (8 points)

- Linear, non-threshold
- Linear, threshold
- Non-linear, threshold
- Non-linear, non-threshold

BONUS What was the name of the structure that was created when Chernobyl was covered with cement after the nuclear accident?

[Diagram of dose response relationships]
The procedure evaluation includes positioning for any one of the following examinations (selected at random).

**Chapter 8**

1. **Cervical Spine**
   a. AP Open Mouth (Odontoid)
   b. AP Axial
   c. Bilateral Obliques
   d. Lateral

2. **Thoracic Spine**
   a. AP
   b. Lateral
   c. Cervicothoracic (Swimmers) Lateral

**Chapter 9**

1. **Lumbar Spine**
   a. AP
   b. Bilateral Obliques
   c. Lateral
   d. L5-S1 Spot

2. **Sacrum and Coccyx**
   a. AP Axial Sacrum
   b. AP Axial Coccyx
   c. Lateral Sacrum and Coccyx

| POSITION #1:    | 90   |
|POSITION #2:    | 85   |
|POSITION #3:    | 90   |
|POSITION #4:    |       |

SUBTOTAL/2, 3 OR 4: 765/3

TOTAL SCORE: 88
UNIT 1 - THORACIC SPINE

Under laboratory conditions, given a live model or phantom, the student will demonstrate the ability to perform a routine thoracic spine examination by:

**POSITION #1**

( AP Thoracic Spine )

1. Identifying the routine position. (10)
2. Selecting a high-speed screen. (7)
3. Selecting the use of a bucky or stationary grid. (7)
4. Identifying the use of medium kVp. (7)
5. Directing the central ray perpendicular to the IR. (7)
6. Directing the central ray to T-7 (approximately 1"- 2" below sternal angle). (10)
7. Centering the central ray to the IR. (7)
8. Selecting 40" SID. (7)
9. Measuring the body part at the level of the central ray. (2)
10. Selecting a 14" X 17" IR and placing it lengthwise. (6)
11. Placing the patient identification out of the area of interest. (2)
12. Demonstrating positioning by:
   a. placing the head at the anode end of the radiographic table.
   b. placing the "patient" supine with the midsagittal plane centered to the midline of the IR.
   c. flexing knees and hips.
   d. ensuring no rotation.
   e. placing arms next to body.
   f. using a compensating filter (if available) at the head end. (15)
13. Placing a side marker, lateral to the spine, within the exposure area. (4)
14. Collimating to a narrow field (4"-5" wide) side-to-side. (4)
15. Shielding the gonadal region. Breast shields appropriate for young females. (2)
16. Instructing the "patient" to suspend breathing on full expiration. (3)

SUBTOTAL, POSITION #1

26
POSITION #2  (Lateral Thoracic Spine)

1. Identifying the routine position. (10)
2. Selecting a high-speed screen. (7)
3. Selecting the use of a bucky or stationary grid. (7)
4. Identifying the use of medium kVp. (7)
5. Directing the central ray perpendicular to the IR. (7)
6. Directing the central ray to T-7. (10)
7. Centering the central ray to the IR. (7)
8. Selecting 40" SID. (7)
9. Measuring the body part at the level of the central ray. (2)
10. Selecting a 14" X 17" IR and placing it lengthwise. (6)
11. Placing the patient identification out of the area of interest. (2)
12. Demonstrating positioning by:
   a. placing the "patient" in a left lateral recumbent position.
   b. aligning the midcoronal plane perpendicular to the IR (maintaining a true lateral).
   c. flexing hips and knees.
   d. supporting waist to maintain spine parallel to IR.
   e. placing a lead shield over exposure field behind patient. (15)
13. Placing a side marker, anterior to the spine, within the exposure area. (4)
14. Collimating to a narrow field (5"- 6") side-to-side. (4)
15. Shielding the gonadal region. (2)
16. Instructing the "patient" to maintain shallow even breathing during exposure. (3)

SUBTOTAL, POSITION #2
POSITION #3  (Cervicothoracic Lateral for Thoracic Spine)

1. Identifying the routine position. (10)
2. Selecting a high-speed screen. (7)
3. Selecting the use of a bucky or stationary grid. (7)
4. Identifying the use of medium kVp. (7)
5. Directing the central ray perpendicular to the IR. (7)
6. Directing the central ray to T-2. (10)
7. Centering the central ray to the IR. (7)
8. Selecting 40" SID. (7)
9. Measuring the body part at the level of the central ray. (2)
10. Selecting an 8" X 10" IR and placing it lengthwise. (6)
11. Placing the patient identification out of the area of interest. (2)
12. Demonstrating positioning by:
   a. placing the "patient" in a left lateral recumbent position.
   b. aligning the midcoronal plane to the midline of the IR.
   c. placing arm and shoulder, nearest IR, up and forward.
   d. placing arm and shoulder, nearest x-ray tube, down and posterior.
   e. maintaining cervical and thoracic spine in as lateral a position as possible. (15)
13. Placing a side marker, anterior to the spine, within the exposure area. (4)
14. Collimating on four sides to the include C-6 to T-4. (4)
15. Shielding the gonadal region. (2)
16. Instructing the "patient" to maintain shallow, even breaths during exposure. (3)

SUBTOTAL, POSITION #3  28
MESA STATE COLLEGE
Radiologic Technology Program

CR/DR Image Evaluation

<table>
<thead>
<tr>
<th>PROJECTION/POSITION</th>
<th>TECHNIQUE (mA/ time; mAs, kVp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. AP</td>
<td>81 @ 015</td>
</tr>
<tr>
<td>2. RPO</td>
<td>81 @ 031</td>
</tr>
<tr>
<td>3. LPO</td>
<td>81 @ 031</td>
</tr>
<tr>
<td>4. LAT</td>
<td>90 @ 02e</td>
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<tr>
<td>5. L Spot</td>
<td>90 @ 0183</td>
</tr>
</tbody>
</table>

Given a patient and the necessary radiographic equipment, the student will demonstrate the ability to produce a satisfactory image that demonstrates:

<table>
<thead>
<tr>
<th>IMAGE EVALUATION</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Correct IR size and orientation to part.</td>
<td>Yes</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>2. Image free of opaque articles / removable artifacts.</td>
<td>Yes</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>3. All essential anatomical parts included.</td>
<td>Yes</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>4. Evidence of correct positioning of part.</td>
<td>Yes</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>5. Evidence of proper part-beam alignment.</td>
<td>Yes</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>6. Evidence of proper part-IR alignment.</td>
<td>Yes</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>
7. Correct usage of anatomical and accessory markers. 
   Yes ☑ ☑ ☑ ☑ ☑ ☑
   No

8. No evidence of motion. 
   Evidence of proper breathing instructions. 
   Yes ☑ ☑ ☑ ☑ ☑
   No

   Yes ☑ ☑ ☑ ☑ ☑
   No

10. Patient information clearly visible. 
    No evidence of motion. 
    Evidence of proper breathing instructions.
    Yes ☑ ☑ ☑ ☑ ☑
    No

Comments:
_________________________________________________________________
_________________________________________________________________
_________________________________________________________________

Scoring

All Yes answers awarded 1 point. 
All No answers awarded 0 points.

Total Points Awarded

Total Points Possible

EVALUATOR

SCORE

Did the student's performance result in an acceptable diagnostic exam? Yes ☑ No

If no, provide an explanation.
_________________________________________________________________
MESA STATE COLLEGE
Radiologic Technology Program
Radiographic Procedure Evaluation

Student Name: [Redacted]  Date of Examination: 10-4-04
Examination: [Redacted]  Accession / Patient X-ray Number: [Redacted]

Procedure Objective: Given a patient and the necessary radiographic equipment, the student will demonstrate the ability to:

PART I: Preparation for examination and patient considerations.

1. Evaluate requisition for procedure and patient information. YES NO
2. Prepare radiographic room (clean, orderly work area; necessary equipment). YES NO
3. Pre-set control panel for first exposure. YES NO
4. Select correct patient, assess patient's condition, and assist patient into room. YES NO
5. Introduce yourself to patient. YES NO
6. Provide proper explanation of procedure. YES NO
7. Obtain adequate clinical history, including LMP (if applicable) and record. YES NO
8. Evaluate and remove any (removable) radiopaque articles from area of interest. YES NO
9. Assist patient next to or on equipment. YES NO
10. Maintain patient's modesty. YES NO
11. Monitor and communicate with patient throughout exam. YES NO

PART II: Technical factors
All routine positions/projections should be evaluated (up to a maximum of five). Positions/projections selected by evaluator:

1. AP wt bearing
2. obi
3. lateral

1. Select appropriately size and type of IR. Yes No NA
2. Properly place IR (bucky/grid, tabletop, position of lead blockers, CW/LW). Yes No NA
3. Properly use bony landmarks. Yes No NA
4. Position true frontal/lateral or correct obliquity. Yes No NA
5. Accurately measure the patient, if applicable. Yes No NA
6. Select appropriate kVp. Yes No NA
7. Select appropriate mA. Yes No NA
8. Select appropriate time/AEC/back-up time.  
   Yes ___ ___ ___ ___ ___  
   No  ___ ___ ___ ___ ___  

9. Select correct photocell/photocells.  
   Yes ___ ___ ___ ___ ___  
   No  ___ ___ ___ ___ ___  
   NA  ___ ___ ___ ___ ___  

10. Select correct focal spot size.  
    Yes ___ ___ ___ ___ ___  
    No  ___ ___ ___ ___ ___  

11. Select appropriate SID.  
    Yes ___ ___ ___ ___ ___  
    No  ___ ___ ___ ___ ___  

12. Provide proper central ray angulation.  
    Yes ___ ___ ___ ___ ___  
    No  ___ ___ ___ ___ ___  

13. Position proper part-beam alignment.  
    Yes ___ ___ ___ ___ ___  
    No  ___ ___ ___ ___ ___  

    Yes ___ ___ ___ ___ ___  
    No  ___ ___ ___ ___ ___  

15. Provide proper collimation.  
    Yes ___ ___ ___ ___ ___  
    No  ___ ___ ___ ___ ___  

16. Mark image (prior to exposure) appropriately with R/L markers and accessory markers.  
    Yes ___ ___ ___ ___ ___  
    No  ___ ___ ___ ___ ___  

17. Provide proper gonadal shielding.  
   ___ ___ ___ ___ ___ ___  

18. Complete examination within a reasonable time.  
   ___ ___ ___ ___ ___ ___  

19. Demonstrate proper instructions for maintaining position/breathing.  
   ___ ___ ___ ___ ___ ___  

20. Make exposures while observing patient.  
    ___ ___ ___ ___ ___ ___  

    ___ ___ ___ ___ ___ ___  

22. Demonstrate image development and proper patient identification.  
    ___ ___ ___ ___ ___ ___  

23. Demonstrate proper image orientation.  
    ___ ___ ___ ___ ___ ___  

24. Perform skills with confidence and ease.  
    ___ ___ ___ ___ ___ ___  

PART III: Completing procedure

1. Dismiss patient.  
   ___ ___ ___ ___ ___ ___  

2. Organize images and records.  
   ___ ___ ___ ___ ___ ___  

3. Perform computer functions, if applicable.  
   ___ ___ ___ ___ ___ ___  

4. Clean and organize radiographic room.  
   ___ ___ ___ ___ ___ ___  

PART IV: Scoring

All Yes answers awarded 1 point.  
All No answers awarded 0 points.  

Total Points Awarded 100%  
Total Points Possible ___ ___ ___ ___ ___ ___  

EVALUATOR:  

SCORE 100%  

Did the student's performance result in an acceptable diagnostic exam?  
Yes ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___  
No  ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___  

If no, provide an explanation.  

She prefers to straight time for a more even density, also she creates new ways of completing the exam when needed! Excellent!
# Summary — Attitudes and Communication in Patient Care

## Evaluation Criteria - 2003

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Description</th>
<th>0 No Evidence Of Criteria</th>
<th>1-5 Minimal Standard Of Evidence</th>
<th>6-9 Good Example In Evidence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creativity</td>
<td>Express imaginative and original thought.</td>
<td></td>
<td></td>
<td>15 scored 9/9 3 scored 8/9</td>
</tr>
<tr>
<td>Organization</td>
<td>Put thoughts and presentation in order.</td>
<td></td>
<td></td>
<td>18 scored 9/9</td>
</tr>
<tr>
<td>Method Verbal</td>
<td>Dramatize verbal methods used by both parties in communication.</td>
<td></td>
<td></td>
<td>18 scored 9/9</td>
</tr>
<tr>
<td>Method Nonverbal</td>
<td>Dramatize nonverbal methods used by both parties in communication.</td>
<td></td>
<td></td>
<td>18 scored 9/9</td>
</tr>
<tr>
<td>Understanding</td>
<td>Recognize and relate factors involved in the problem.</td>
<td></td>
<td></td>
<td>18 scored 9/9</td>
</tr>
<tr>
<td>Narration</td>
<td>Deliver presentation that illustrates an attitude or communication problem.</td>
<td></td>
<td></td>
<td>15 scored 9/9 3 scored 7/9</td>
</tr>
<tr>
<td>Investigation</td>
<td>Identify, examine, and disclose all possible reactions to the problem.</td>
<td></td>
<td></td>
<td>18 scored 9/9</td>
</tr>
<tr>
<td>Conclusion</td>
<td>Summarize the problem, solution, and outcome.</td>
<td></td>
<td></td>
<td>18 scored 9/9</td>
</tr>
<tr>
<td>Attitude</td>
<td>Relate how attitude influences communication.</td>
<td></td>
<td></td>
<td>18 scored 9/9</td>
</tr>
<tr>
<td>Thinking</td>
<td>Reflect on the best way to handle similar communication problems.</td>
<td></td>
<td></td>
<td>18 scored 9/9</td>
</tr>
<tr>
<td>Explain</td>
<td>Elaborate on critical thinking involved in the determining solution.</td>
<td></td>
<td></td>
<td>18 scored 9/9</td>
</tr>
</tbody>
</table>

Total score 12 students = 100%
3 students = 99%
3 students = 98%
APPENDIX F

MESA STATE COLLEGE
Nursing and Radiologic Sciences
Radiologic Technology Program

Evaluation of Professional Behavior, Ethics, & Attitudes for Clinical Experience Rotations

Student: ___________________ Date: 3-9-19 Grade: 77
Clinical Site/Room: __________ Evaluator: __________

The clinical instructor uses the following index to evaluate student behavior, ethics, and attitudes based on observation.

1. **INVolVEMENT**: Commitment and active participation in assigned task.
   The student:
   - *Is available, actively participates, and completes each task. (10)
   - *Is available; but moderately participates or occasionally fails to complete task. (9)
   - *Requires prompting to remain available and moderately participates or occasionally fails to complete task. (7)
   - *Is unavailable, does not participate, or fails to complete task. (0-5)

2. **SELF-CONFIDENCE**: Assurance in oneself and in one's powers and abilities.
   The student appears:
   - *Relaxed and free from uncertainty. (10)
   - *Relaxed and occasionally anxious. (9)
   - *Tense and moderately anxious. (7)
   - *Tense and highly anxious. (0-5)

3. **INITIATIVE**: Willingness to learn, motivation, and self-governance.
   The student:
   - *Independently seeks tasks, offers assistance, and utilizes time. (10)
   - *Independently seeks tasks; but occasionally does not offer assistance or utilize time. (9)
   - *Must be prompted to seek tasks, offer assistance, or utilize time. (7)
   - *Does not seek tasks, may not offer assistance, or does not utilize time. (0-5)

4. **ACCOUNTABILITY**: Ability to assume responsibility for professional growth and accept ownership for own actions.
   The student:
   - *Encourages evaluation and correction and is responsible for own actions. (10)
   - *Accepts evaluation and correction and is responsible for own actions. (9)
   - *Argues with evaluation and correction or holds others responsible for failure. (7)
   - *Argues with evaluation and correction and holds others responsible for failure. (0-5)

5. **ADAPTABILITY**: Ability to adjust to a new environment or changing condition.
   The student:
   - *Independently adapts to a new task. (10)
   - *Requires occasional reinforcement and support in order to adapt to a new task. (9)
   - *Requires reinforcement and support in order to adapt to a new task. (7)
   - *Does not adapt to a new task. (0-5)
6. **COMMUNICATION:** Process of interaction and exchange of information with the customer (patient, physician, supervisor, technologist, personnel and involved non-personnel).

The student:

- *Demonstrates respect, diplomacy, and consideration; is able to convey information plainly; and focuses on customer while performing task.* (10)
- *Demonstrates respect, diplomacy, and consideration; but occasionally is unable to convey information plainly, or focuses primarily on task or own behavior.* (9)
- *Demonstrates respect, diplomacy, and consideration; and occasionally is unable to convey information plainly; and focuses primarily on task or own behavior.* (7)
- *Demonstrates lack of respect, diplomacy, or consideration; or is unable to convey information, or focuses entirely on task or own behavior.* (0-5)

7. **TEAMWORK:** Willingness and ability to work with others for the common good of the task.

The student:

- *Is cooperative and is an encourager of others in a common effort.* (10)
- *Is cooperative and is an active participant in a common effort.* (9)
- *Is cooperative, but not an active participant in a common effort.* (7)
- *Is uncooperative or hinders a common effort.* (0-5)

8. **JUDGMENT:** Ability to evaluate a situation utilizing discernment, comparison, and principles.

The student:

- *Independently seeks assistance when uncertain; is able to apply reasoning and logic to task.* (10)
- *Independently seeks assistance when uncertain; occasionally requires prompting in order to apply reasoning and logic to the task.* (9)
- *Independently seeks assistance when uncertain; requires prompting in order to apply reasoning and logic to task.* (7)
- *Proceeds with task when uncertain or does not apply reasoning and logic to task.* (0-5)

9. **PERSONAL APPEARANCE:** Personal grooming, cleanliness, and adherence to the dress code.

The student:

- *Presents a professional image; is well groomed and clean; and in adherence to the dress code.* (10)
- *Presents a professional image; is well groomed and clean; but is not in adherence with the dress code.* (7)
- *Presents an unprofessional image; is not properly groomed, clean, or in adherence with the dress code.* (0-5)

10. **ATTENDANCE/PUNCTUALITY:** Current attendance and punctuality.

The student is:

- *On time and in assigned area.* (10)
- *On time, but not in assigned area.* (9)
- *Tardy (less than 1 hour).* (5)
- *Absent with notification to clinical site and clinical instructor.* (2)
- *Absent without notification to clinical site and clinical instructor.* (-6) and an additional 5% off the final grade for the course.

Comments: **Never leave patient unattended.** Being sick or absent from class or assignments is on **time.**

**Subtotal Points**

- Days Tardy:
- Days Absent:
- Each tardy over one results in an additional -5 points
- Each absence over one results in an additional -8 points

**Total Points**
MESA STATE COLLEGE
Nursing and Radiologic Sciences
Radiologic Technology Program

Evaluation of Professional Behavior, Ethics, & Attitudes for Clinical Experience Rotations

Student: ______________________  Date: ____________________  Grade: _______

Clinical Site/Room: ______________________  Evaluator: ______

The clinical instructor uses the following index to evaluate student behavior, ethics, and attitudes based on observation.

1. **IN INVOLVEMENT**: Commitment and active participation in assigned task.
   The student:
   - *Is available, actively participates, and completes each task. (10)
   - *Is available; but moderately participates or occasionally fails to complete task. (9)
   - *Requires prompting to remain available; and moderately participates or occasionally fails to complete task. (7)
   - *Is unavailable, does not participate, or fails to complete task. (0-5)

2. **SELF-CONFIDENCE**: Assurance in oneself and in one's powers and abilities.
   The student appears:
   - *Relaxed and free from uncertainty. (10)
   - *Relaxed and occasionally anxious. (9)
   - *Tense and moderately anxious. (7)
   - *Tense and highly anxious. (0-5)

3. **INITIATIVE**: Willingness to learn, motivation, and self-governance.
   The student:
   - *Independently seeks tasks, offers assistance, and utilizes time. (10)
   - *Independently seeks tasks; but occasionally does not offer assistance or utilize time. (9)
   - *Must be prompted to seek tasks, offer assistance, or utilize time. (7)
   - *Does not seek tasks, may not offer assistance, or does not utilize time. (0-5)

4. **ACCOUNTABILITY**: Ability to assume responsibility for professional growth and accept ownership for own actions.
   The student:
   - *Encourages evaluation and correction and is responsible for own actions. (10)
   - *Accepts evaluation and correction and is responsible for own actions. (9)
   - *Argues with evaluation and correction or holds others responsible for failure. (7)
   - *Argues with evaluation and correction and holds others responsible for failure. (0-5)

5. **ADAPTABILITY**: Ability to adjust to a new environment or changing condition.
   The student:
   - *Independently adapts to a new task. (10)
   - *Requires occasional reinforcement and support in order to adapt to a new task. (9)
   - *Requires reinforcement and support in order to adapt to a new task. (7)
   - *Does not adapt to a new task. (0-5)
6. **COMMUNICATION**: Process of interaction and exchange of information with the customer (patient, physician, supervisor, technologist, personnel and involved non-personnel).

   The student:
   - *Demonstrates respect, diplomacy, and consideration; is able to convey information plainly; and focuses on customer while performing task.* (10)
   - *Demonstrates respect, diplomacy, and consideration; but occasionally is unable to convey information plainly, or focuses primarily on task or own behavior.* (9)
   - *Demonstrates respect, diplomacy, and consideration; and occasionally is unable to convey information plainly; and focuses primarily on task or own behavior.* (7)
   - *Demonstrates lack of respect, diplomacy, or consideration; or is unable to convey information, or focuses entirely on task or own behavior.* (0-5)

7. **TEAMWORK**: Willingness and ability to work with others for the common good of the task.

   The student:
   - *Is cooperative and is an encourager of others in a common effort.* (10)
   - *Is cooperative and is an active participant in a common effort.* (9)
   - *Is cooperative, but not an active participant in a common effort.* (7)
   - *Is uncooperative or hinders a common effort.* (0-5)

8. **JUDGMENT**: Ability to evaluate a situation utilizing discernment, comparison, and principles.

   The student:
   - *Independently seeks assistance when uncertain; is able to apply reasoning and logic to task.* (10)
   - *Independently seeks assistance when uncertain; occasionally requires prompting in order to apply reasoning and logic to the task.* (9)
   - *Independently seeks assistance when uncertain; requires prompting in order to apply reasoning and logic to task.* (7)
   - *Proceeds with task when uncertain or does not apply reasoning and logic to task.* (0-5)

9. **PERSONAL APPEARANCE**: Personal grooming, cleanliness, and adherence to the dress code.

   The student:
   - *Presents a professional image; is well groomed and clean; and in adherence to the dress code.* (10)
   - *Presents a professional image; is well groomed and clean; but is not in adherence with the dress code.* (7)
   - *Presents an unprofessional image; is not properly groomed, clean, or in adherence with the dress code.* (0-5)

10. **ATTENDANCE/PUNCTUALITY**: Current attendance and punctuality.

    The student is:
    - *On time and in assigned area.* (10)
    - *On time, but not in assigned area.* (9)
    - *Tardy (less than 1 hour).* (5)
    - *Absent with notification to clinical site and clinical instructor.* (2)
    - *Absent without notification to clinical site and clinical instructor.* (-6) and an additional 5% off the final grade for the course.

    Comments: *in doing a great job with a 500!

    Subtotal Points: 93
    - Days Tardy: [Blank]
    - Days Absent: [Blank]

    Each tardy over one results in an additional -5 points
    Each absence over one results in an additional -8 points
    Total Points: 93
Student: 

Clinical Site/Room: 
Evaluator: 

The clinical instructor uses the following index to evaluate student behavior, ethics, and attitudes based on observation.

1. **IN INVOLVEMENT**: Commitment and active participation in assigned task.
   - The student:
     - *Is available, actively participates, and completes each task. (10)
     - *Is available; but moderately participates or occasionally fails to complete task. (9)
     - *Requires prompting to remain available; and moderately participates or occasionally fails to complete task. (7)
     - *Is unavailable, does not participate, or fails to complete task. (0-5)

2. **SELF-CONFIDENCE**: Assurance in oneself and in one's powers and abilities.
   - The student appears:
     - *Relaxed and free from uncertainty. (10)
     - *Relaxed and occasionally anxious. (9)
     - *Tense and moderately anxious. (7)
     - *Tense and highly anxious. (0-5)

3. **INITIATIVE**: Willingness to learn, motivation, and self-governance.
   - The student:
     - *Independently seeks tasks, offers assistance, and utilizes time. (10)
     - *Independently seeks tasks; but occasionally does not offer assistance or utilize time. (9)
     - *Must be prompted to seek tasks, offer assistance, or utilize time. (7)
     - *Does not seek tasks, may not offer assistance, or does not utilize time. (0-5)

4. **ACCOUNTABILITY**: Ability to assume responsibility for professional growth and accept ownership for own actions.
   - The student:
     - *Encourages evaluation and correction and is responsible for own actions. (10)
     - *Accepts evaluation and correction and is responsible for own actions. (9)
     - *Argues with evaluation and correction or holds others responsible for failure. (7)
     - *Argues with evaluation and correction and holds others responsible for failure. (0-5)

5. **ADAPTABILITY**: Ability to adjust to a new environment or changing condition.
   - The student:
     - *Independently adapts to a new task. (10)
     - *Requires occasional reinforcement and support in order to adapt to a new task. (9)
     - *Requires reinforcement and support in order to adapt to a new task. (7)
     - *Does not adapt to a new task. (0-5)
6. **COMMUNICATION:** Process of interaction and exchange of information with the customer (patient, physician, supervisor, technologist, personnel and involved non-personnel).

   The student:
   
   - *Demonstrates respect, diplomacy, and consideration; is able to convey information plainly; and focuses on customer while performing task. (10)
   - *Demonstrates respect, diplomacy, and consideration; but occasionally is unable to convey information plainly, or focuses primarily on task or own behavior. (9)
   - *Demonstrates respect, diplomacy, and consideration; and occasionally is unable to convey information plainly; and focuses primarily on task or own behavior. (7)
   - *Demonstrates lack of respect, diplomacy, or consideration; or is unable to convey information, or focuses entirely on task or own behavior. (0-5)

7. **TEAMWORK:** Willingness and ability to work with others for the common good of the task.

   The student:
   
   - *Is cooperative and is an encourager of others in a common effort. (10)
   - *Is cooperative and is an active participant in a common effort. (9)
   - *Is cooperative, but not an active participant in a common effort. (7)
   - *Is uncooperative or hinders a common effort. (0-5)

8. **JUDGMENT:** Ability to evaluate a situation utilizing discernment, comparison, and principles.

   The student:
   
   - *Independently seeks assistance when uncertain; is able to apply reasoning and logic to task. (10)
   - *Independently seeks assistance when uncertain; occasionally requires prompting in order to apply reasoning and logic to task. (9)
   - *Independently seeks assistance when uncertain; requires prompting in order to apply reasoning and logic to task. (7)
   - *Proceeds with task when uncertain or does not apply reasoning and logic to task. (0-5)

9. **PERSONAL APPEARANCE:** Personal grooming, cleanliness, and adherence to the dress code.

   The student:
   
   - *Presents a professional image; is well groomed and clean; and in adherence to the dress code. (10)
   - *Presents a professional image; is well groomed and clean; but is not in adherence with the dress code. (7)
   - *Presents an unprofessional image; is not properly groomed, clean, or in adherence with the dress code. (0-5)

10. **ATTENDANCE/PUNCTUALITY:** Current attendance and punctuality.

    The student is:
    
    - *On time and in assigned area. (10)
    - *On time, but not in assigned area. (9)
    - *Tardy (less than 1 hour). (5)
    - *Absent with notification to clinical site and clinical instructor. (2)
    - *Absent without notification to clinical site and clinical instructor. (-6) and an additional 5% off the final grade for the course.

Comments: 

**We will sure miss her. Keep up the good work.**

Subtotal Points

- Days Tardy: ____________
- Days Absent: ____________

Each tardy over one results in an additional -5 points
Each absence over one results in an additional -8 points

Total Points
MESA STATE COLLEGE
Nursing and Radiologic Sciences
Radiologic Technology Program

Evaluation of Professional Behavior, Ethics, & Attitudes for Clinical Experience Rotations

Student: ______________________ Date: _____/____/____ Grade: ______

Clinical Site/Room: ______________________ Evaluator: ______________________

The clinical instructor uses the following index to evaluate student behavior, ethics, and attitudes based on observation.

1. **INVOLVEMENT:** Commitment and active participation in assigned task.
   The student:
   - X *Is available, actively participates, and completes each task. (10)
   - ___ *Is available; but moderately participates or occasionally fails to complete task. (9)
   - ___ *Requires prompting to remain available; and moderately participates or occasionally fails to complete task. (7)
   - ___ *Is unavailable, does not participate, or fails to complete task. (0-5)

2. **SELF-CONFIDENCE:** Assurance in oneself and in one's powers and abilities.
   The student appears:
   - X *Relaxed and free from uncertainty. (10)
   - ___ *Relaxed and occasionally anxious. (9)
   - ___ *Tense and moderately anxious. (7)
   - ___ *Tense and highly anxious. (0-5)

3. **INITIATIVE:** Willingness to learn, motivation, and self-governance.
   The student:
   - X *Independently seeks tasks, offers assistance, and utilizes time. (10)
   - ___ *Independently seeks tasks; but occasionally does not offer assistance or utilize time. (9)
   - ___ *Must be prompted to seek tasks, offer assistance, or utilize time. (7)
   - ___ *Does not seek tasks, may not offer assistance, or does not utilize time. (0-5)

4. **ACCOUNTABILITY:** Ability to assume responsibility for professional growth and accept ownership for own actions.
   The student:
   - X *Encourages evaluation and correction and is responsible for own actions. (10)
   - ___ *Accepts evaluation and correction and is responsible for own actions. (9)
   - ___ *Argues with evaluation and correction or holds others responsible for failure. (7)
   - ___ *Argues with evaluation and correction and holds others responsible for failure. (0-5)

5. **ADAPTABILITY:** Ability to adjust to a new environment or changing condition.
   The student:
   - X *Independently adapts to a new task. (10)
   - ___ *Requires occasional reinforcement and support in order to adapt to a new task. (9)
   - ___ *Requires reinforcement and support in order to adapt to a new task. (7)
   - ___ *Does not adapt to a new task. (0-5)
6. **COMMUNICATION**: Process of interaction and exchange of information with the customer (patient, physician, supervisor, technologist, personnel and involved non-personnel).

   The student:
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   - *Demonstrates respect, diplomacy, and consideration; and occasionally is unable to convey information plainly; and focuses primarily on task or own behavior. (7)
   - *Demonstrates lack of respect, diplomacy, or consideration; or is unable to convey information, or focuses entirely on task or own behavior. (0-5)

7. **TEAMWORK**: Willingness and ability to work with others for the common good of the task.

   The student:
   - *Is cooperative and is an encourager of others in a common effort. (10)
   - *Is cooperative and is an active participant in a common effort. (9)
   - *Is cooperative, but not an active participant in a common effort. (7)
   - *Is uncooperative or hinders a common effort. (0-5)

8. **JUDGMENT**: Ability to evaluate a situation utilizing discernment, comparison, and principles.

   The student:
   - *Independently seeks assistance when uncertain; is able to apply reasoning and logic to task. (10)
   - *Independently seeks assistance when uncertain; occasionally requires prompting in order to apply reasoning and logic to the task. (9)
   - *Independently seeks assistance when uncertain; requires prompting in order to apply reasoning and logic to task. (7)
   - *Proceeds with task when uncertain or does not apply reasoning and logic to task. (0-5)

9. **PERSONAL APPEARANCE**: Personal grooming, cleanliness, and adherence to the dress code.

   The student:
   - *Presents a professional image; is well groomed and clean; and in adherence to the dress code. (10)
   - *Presents a professional image; is well groomed and clean; but is not in adherence with the dress code. (7)
   - *Presents an unprofessional image; is not properly groomed, clean, or in adherence with the dress code. (0-5)

10. **ATTENDANCE/PUNCTUALITY**: Current attendance and punctuality.

    The student is:
    - *On time and in assigned area. (10)
    - *On time, but not in assigned area. (9)
    - *Tardy (less than 1 hour). (5)
    - *Absent with notification to clinical site and clinical instructor. (2)
    - *Absent without notification to clinical site and clinical instructor. (-6) and an additional 5% off the final grade for the course.

    Comments: ________________________________________________________________

    94 Subtotal Points
    Days Tardy: ______________________
    Days Absent: ______________________

    Each tardy over one results in an additional -5 points
    Each absence over one results in an additional -8 points

    98 Total Points
Evaluation of Professional Behavior, Ethics, & Attitudes for Clinical Experience Rotations

Student:  
Date:  
Grade:  

Clinical Site/Room:  
Evaluator:  

The clinical instructor uses the following index to evaluate student behavior, ethics, and attitudes based on observation.

1. **IN VolvEmEnt**: Commitment and active participation in assigned task.
   The student:
   - Is available, actively participates, and completes each task. (10)
   - Requires prompting to remain available; and moderately participates or occasionally fails to complete task. (7)
   - Is unavailable, does not participate, or fails to complete task. (0-5)

2. **Self-Confidence**: Assurance in oneself and in one's powers and abilities.
   The student appears:
   - Relaxed and free from uncertainty. (10)
   - Tense and highly anxious. (0-5)

3. **Initiative**: Willingness to learn, motivation, and self-governance.
   The student:
   - Independently seeks tasks, offers assistance, and utilizes time. (10)
   - Must be prompted to seek tasks, offer assistance, or utilize time. (7)
   - Does not seek tasks, may not offer assistance, or does not utilize time. (0-5)

4. **Accountability**: Ability to assume responsibility for professional growth and accept ownership for own actions.
   The student:
   - Encourages evaluation and correction and is responsible for own actions. (10)
   - Argues with evaluation and correction or holds others responsible for failure. (7)
   - Argues with evaluation and correction and holds others responsible for failure. (0-5)

5. **Adaptability**: Ability to adjust to a new environment or changing condition.
   The student:
   - Independently adapts to a new task. (10)
   - Requires occasional reinforcement and support in order to adapt to a new task. (9)
   - Does not adapt to a new task. (0-5)
6. **COMMUNICATION:** Process of interaction and exchange of information with the customer (patient, physician, supervisor, technologist, personnel and involved non-personnel).

   The student:
   1. Demonstrates respect, diplomacy, and consideration; is able to convey information plainly; and focuses on customer while performing task. (10)
   2. Demonstrates respect, diplomacy, and consideration; but occasionally is unable to convey information plainly, or focuses primarily on task or own behavior. (9)
   3. Demonstrates respect, diplomacy, and consideration; and occasionally is unable to convey information plainly; and focuses primarily on task or own behavior. (7)
   4. Demonstrates lack of respect, diplomacy, or consideration; or is unable to convey information, or focuses entirely on task or own behavior. (0-5)

7. **TEAMWORK:** Willingness and ability to work with others for the common good of the task.

   The student:
   1. Is cooperative and is an encourager of others in a common effort. (10)
   2. Is cooperative and is an active participant in a common effort. (9)
   3. Is cooperative, but not an active participant in a common effort. (7)
   4. Is uncooperative or hinders a common effort. (0-5)

8. **JUDGMENT:** Ability to evaluate a situation utilizing discernment, comparison, and principles.

   The student:
   1. Independently seeks assistance when uncertain; is able to apply reasoning and logic to task. (10)
   2. Independently seeks assistance when uncertain; occasionally requires prompting in order to apply reasoning and logic to the task. (9)
   3. Independently seeks assistance when uncertain; requires prompting in order to apply reasoning and logic to task. (7)
   4. Proceeds with task when uncertain or does not apply reasoning and logic to task. (0-5)

9. **PERSONAL APPEARANCE:** Personal grooming, cleanliness, and adherence to the dress code.

   The student:
   1. Presents a professional image; is well groomed and clean; and in adherence to the dress code. (10)
   2. Presents a professional image; is well groomed and clean; but is not in adherence with the dress code. (7)
   3. Presents an unprofessional image; is not properly groomed, clean, or in adherence with the dress code. (0-5)

10. **ATTENDANCE/PUNCTUALITY:** Current attendance and punctuality.

    The student is:
    1. On time and in assigned area. (10)
    2. On time, but not in assigned area. (9)
    3. Tardy (less than 1 hour). (5)
    4. Absent with notification to clinical site and clinical instructor. (2)
    5. Absent without notification to clinical site and clinical instructor. (-6) and an additional 5% off the final grade for the course.

   **Comments:** [Handwritten note: "Great job you sweet and willing to do whatever it takes."]

   **Subtotal Points:**
   - Days Tardy: ________
   - Days Absent: ________

   Each tardy over one results in an additional -5 points
   Each absence over one results in an additional -8 points

   **Total Points:** 90
4.6 Does the program define and provide learning opportunities in current and developing imaging and/or therapeutic technologies?

Explanation:
The program must provide learning opportunities in current and developing imaging and/or therapeutic technologies. It is the program's prerogative to decide which technologies should be included in the didactic and clinical curriculum.

Rationale:
These learning opportunities provide students with knowledge about the procedures. Students also gain an awareness of potential advancements in the profession.

Compliance May Be Demonstrated by:
Describing how the program provides opportunities in developing technologies in the didactic and/or clinical curriculum.

Possible Site Assessment Methods:
- Review of master plan of education
- Review of course descriptions, outlines, syllabi, lesson plans
- Interviews with faculty
- Interviews with students

<table>
<thead>
<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No</td>
</tr>
</tbody>
</table>

Part of RTEC 132 is devoted to guest lecturers who are technologists in the various modalities. This introduces the students in the first year to the current, developing and therapeutic technologies.

We utilize the nuclear medicine, radiation oncology, ultrasound and magnetic resonance departments as clinical observation rotations for all second-year students to give them opportunities to observe advancing and other current technologies in the profession. These one-week rotations require the student to write a report on a procedure performed in the department and fill in an observation check-off list (exhibit 4.6) for the different modalities to acquaint the student with the practice in each modality. The students also do two-week observation rotations in computed tomography and interventional radiography with requirements of written reports and check-off lists. Many graduates continued education in these areas based upon the observation rotations.
APPENDIX N
Radiologic Technology Program
Special Area Rotation
Ultrasound - Clinical Objective Evaluation

Name ____________________________ Date ____________

The ultrasound department respects your presence; therefore, we expect your attention, cooperation, and interaction with patients and staff. As a student you will observe the various aspects of ultrasound including the use of equipment, computer use, and patient interaction. Each met objective is worth 10 points.

A. EXAMINATIONS
   1. Observe various ultrasound examinations
   2. Describe different types of exams performed
   3. Explain any pre-exam preparation necessary
   4. Explain use of ultrasound for guided biopsies

B. PHYSICS OF ULTRASOUND
   5. Explain difference between ultrasound waves and x-rays
   6. Describe difference between a 3 mHz and a 10 mHz transducer
   7. Explain what piezoelectric means
   8. Discuss range of audible sound waves and range of diagnostic ultrasonic waves
   9. Explain difference between diagnostic and therapeutic ultrasound

C. INSTRUMENTATION
   10. Demonstrate how to change transducers on machine
   11. Explain difference between linear array and sector transducers
   12. Describe what time gain compensation is and where it is found on the machine
   13. Explain what a footprint is on a transducer

D. POST EXAM
   14. Dismiss patient appropriately

Total possible points 140

Points scored

Percent grade

Evaluator ____________________________

38
APPENDIX M
Radiologic Technology Program
Special Area Rotation
Magnetic Resonance - Clinical Objective Evaluation

Name ___________________________________________ Date ________________

The MRI department respects your presence; therefore, we expect your attention, cooperation, and interaction with patients and staff. As a student you will observe the various aspects of MRI including use of the magnet, safety issues, computer use, and patient interaction. Each objective is worth 10 points.

A. PRE-EXAM

1. Screen patient for symptoms, problems, etc.                     YES     NO
2. Explain reason for obtaining metal history                     YES     NO
3. Explain reason for sedation                                    YES     NO
4. Type patient data into computer                                YES     NO

B. EXAM

5. Position patient for brain or lumbar spine MR                   YES     NO
6. Describe safety issues in MR                                   YES     NO
7. Explain use of various coils                                   YES     NO
8. Explain use of gadolinium in some studies                      YES     NO

C. POST EXAM

9. Dismiss patient appropriately                                  YES     NO
10. Explain how magnet interacts with protons                     YES     NO
11. Recognize difference between T1 and T2 images                 YES     NO
12. Assist technologist in displaying films on radiologist's film viewer YES     NO

Total possible points 120

Points scored __________________________

Percent grade _________________________

Evaluator ____________________________________________
APPENDIX O
Specialized Areas - Radiation Oncology
Grading Procedure for Case Study

Name ____________________________________________ Date ______________________

This report will be graded according to the following criteria:

A. Patient information
   (1) Patient's x-ray # (only) 0 5
   (2) Patient's age and sex 0 5
   (3) Admitting Diagnosis 0 5
   (4) Clinical History 0 5 10

B. Treatment Plan
   (1) Anatomical location and size of tumor/cancer 0 10 20
   (2) Method of localizing treated area 0 5 10
   (3) Any critical structures located within tumor volume 0 5 10
   (4) Normal organs/structures effected by treatment plan 0 10 20
   (5) Dosage required for treatment
      a. type of radiation 0 5 10
      b. prescribed # of treatments 0 5 10
      c. daily dose of radiation 0 5 10

C. Structure of report
   (1) Neatness, organization, and grammar 0 5 10
   (2) Submitted on/or before deadline 0 20
   (3) Correct length 0 10

Total points possible 155
Points scored __________________
Percent grade __________________
Evaluator ______________________

*Deadline for this report is one week following last day of rotation.
APPENDIX O
Specialized Areas - Nuclear Medicine
Grading Procedure for Case Study

This report will be graded according to the following criteria:

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**A. Patient Information**

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(1) Patient's x-ray # (only) 0 5
(2) Patient's age and sex 0 5
(3) Admitting diagnosis 0 5
(4) Clinical history 0 5 10

**B. Explanation of procedure**

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(1) Type of exam 0 5
(2) Patient preparation 0 5
(3) Type and amount of radioisotope 0 5 10
(4) Positioning of patient
a. Routine positions 0 5 10
b. Additional/optional positions selected 0 5 10
c. Length of time for each position 0 5 10
d. Length of time for total exam 0 5 10

**C. Evaluation of images**

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(1) Routine anatomy/structures demonstrated 0 5 10
(2) Abnormalities demonstrated 0 5 10
(3) Resulting diagnosis 0 5 10

**D. Structure of report**

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(1) Neatness, organization, and grammar 0 5 10
(2) Submitted on/or before deadline 0 20
(3) Correct length 0 10

Total possible points 155

Points scored __________________________

Percent grade __________________________

*Deadline for this report is one week following last day of rotation.*
4.7 Does the program provide equitable learning opportunities for all students?

Explanation:
The program must provide equitable learning opportunities for all students. For example, if an objective is for students to perform breast imaging and/or therapeutic procedures, then both genders must be provided the same opportunities to attain the requirement.

Rationale:
The provision of equitable learning activities promotes fair and impartial education and reduces institutional and/or program liability.

Compliance May Be Demonstrated by:
Describing how the program assures equitable learning opportunities.

Possible Site Assessment Methods:
- Review of master plan of education
- Review of performance objectives
- Review of published program materials
- Review of student clinical assignment schedules
- Interviews with faculty
- Interviews with students

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<th>Has Program Met Objective?</th>
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All students are provided with equitable learning opportunities. First year students will do rotations at the three hospitals in Grand Junction. Second year students will rotate through the major clinical site, St. Mary’s Hospital, for portable, trauma and surgery rotations. Additionally, all students do observation rotations at St. Mary’s or an equivalent medical site. The second year includes one distant rotation and all students are required to do this rotation. Please see exhibit 4.7 for a clinical rotation schedule for first and second year students.

Because the male students are not allowed to do a mammography rotation no students go through a clinical mammography rotation. Instead, we have a mammographer come to the college and demonstrate positioning with the breast phantom and the mammography unit in Medesy 150. All students are required to demonstrate positioning of a CC or MLO projection of the breast. We also have a mammographer give a lecture on breast images and mammography in RTEC 132.
|                | Jan  | Jan  | Feb  | Feb  | Feb  | Feb  | Mar  | Mar  | Mar  | Mar  | Mar  | Apr  | Apr  | Apr  | Apr  | Apr  | May  |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Wednesday 8:00-4:30 | 19   | 26   | 2    | 9    | 16   | 23   | 2    | 9    | 16   | 23   | 30   | 6    | 13   | 20   | 27   | 4    |
| Thursday 12:00-4:00  | 20   | 27   | 3    | 10   | 17   | 24   | 3    | 10   | 17   | 24   | 31   | 7    | 14   | 21   | 28   | 5    |

**St Mary's**

**Hosp 244-2552 PAV 255-7973**

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**Community**

**256-5446**

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**VA**

**242-0731 ext. 2290**

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**Community**

**256-4446**

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**St Mary's**

**Hosp 244-2552 PAV 255-7973**

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**VA**

**242-0731 ext. 2290**

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### Instructor Assignments

#### AKIN, Curtis
- MM: 8-4:30, MM: 8:30-5
- SM/PD: 7-3:30, SM/ER: 12:30-9, SM/SU2: 8-4:30
- CT/IR: 8:00-4:30

#### BANKS, Lori
- SM/ER: 12:30-9, SM/SU1: 7:30-4
- CT/IR: SA
- VA: 8:00-4:30

#### CLAYTON, Lucas
- SM/SU2: 8-4:30
- RMO: *SA
- CT/IR: C
- C: 8-4:30
- VV: 8-4:30

#### COOPER, Gina
- MM: 8:30-5, MM: 8-4:30
- IR/CT: SA
- D: 8-4:30

#### GIPSON, Vicki
- VA: 8:00-4:30
- VV: 8-4:30
- SA: 8-4:30
- IR/CT: *

#### HANES, David
- SM/PD: 7-3:30, SM/RD: 8-4:30
- SM/ER: 12:30-9
- AMP: 8-4:30
- RMO: SA

#### HARDING, Rebecca
- SM/SU3: 7-3:30, SM/ER: 12:30-9
- MM: 8-4:30
- SM/ER: 12:30-9
- CT/IR: SA

#### JENSEN, Valentina
- D: 8-4:30
- SA: IR/CT
- SM/ER: 12:30-9
- SM/SU2: 8-4:30

#### MAYDEW, Jenny
- RMO: 8-4:30
- SM/SU1: 7:30-4
- SM/RD: 8-4:30
- VV: 8-4:30
- VV: 8-4:30

#### RANDOLPH, Amber
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- D: 8-4:30
- AMP: 8-4:30
- SM/PD: 7-3:30

#### RICHARDSON, Heather
- CM: 8-4:30
- VA: 8:00-4:30
- SM/PD: 7-3:30
- SM/ER: 12:30-9

#### SCHNELL, Ross
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- SM/ER: 12:30-9
- RMO: 8-4:30

#### SCOTT-WILLARDSON, Mindy
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- RMO: SM/PD
- SM/SU3: 8-4:30

#### THOMPSON, Brooke
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- VV: 7:30-4
- RMO: SM/PD
- IR/CT: SA

#### ZUBER, Jennifer
- SM/ER: 12:30-9
- SM/PD: 7-3:30
- C: 8-4:30
- SM/SU3: 8-4:30

### Courses

- **Radiologic Technology Program**
  - RTEC 214
  - RTEC 224
  - RTEC 234

### School

MESA STATE COLLEGE
Nursing and Radiologic Sciences
Radiologic Technology Program
Clinical Experience RTEC 214, RTEC 224, RTEC 234
MESA STATE COLLEGE  
Nursing and Radiologic Sciences  
Radiologic Technology Program  

SPECIALIZED AREAS ROTATION

Monday - Wednesday  
or  
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Summary for Standard Four

1. List the major strengths of **Standard Four**, in order of importance.

2. List the major concerns of **Standard Four**, in order of importance.

3. Provide the program’s plan for addressing each concern identified.

4. Describe any progress already achieved in addressing each concern.

5. Describe any constraints in implementing improvements.

Attach additional pages if necessary.

The major strength of Standard Four is the quality of the curriculum presented to the students. As faculty, we strive to present the curriculum in various ways so all students, regardless of their learning styles or abilities, can understand the principles taught in the classroom and take that information with them to the clinical sites when performing examinations. All three domains are taught and evaluated so that the student can convey the knowledge learned and experienced into lifelong learning.

The major concern for Standard Four is the increasing flow of technology into the clinical sites and the lack of information in textbooks. We started addressing this concern five years ago with the introduction of CR and DR into the curriculum. That part of the curriculum now takes 1/3 of the semester in RTEC 132. We are discussing adding more information on CT and cross sectional anatomy to the curriculum. The problem is where to add this when nothing is being taken out to make room for this information. We are still pursuing the addition of a baccalaureate degree (2 + 2) to address the needs of those technologists wanting to continue education in the other specialties in radiology.
Standard Five: 
Resources and Student Services
5.1 Does the program provide classrooms, laboratories, clinical education settings, administrative and faculty offices, and other facilities to support its mission and goals?

Explanation:
Although a dedicated classroom and/or laboratory is not required, scheduled accessibility to facilities conducive to student learning must be assured. Faculty office space should be conducive to planning and scholarly activities.

Rationale:
Provision of appropriate learning environments and learning resources facilitates achievement of program outcomes.

Compliance May Be Demonstrated by:
Describing how classrooms, laboratories, clinical education settings, observation sites, and administrative and faculty offices support the program’s mission and goals.

Possible Site Assessment Methods:
- Tour of the didactic and clinical education settings
- Interviews with faculty
- Interviews with students

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<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
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The program has adequate learning environments to allow for student success. We utilize one classroom with sufficient space and mounted viewboxes for demonstration of films. The classroom has a computer and led projector for powerpoint presentations and access to the internet. The energized laboratory is equipped with a film system of cassettes and a processor. There is a Continental TM-30 x-ray unit with table and upright wall bucky in the energized laboratory. The room was designed to imitate an actual radiographic room at a clinical site. Additionally, there are phantoms, cassettes, an x-ray film library, quality control testing equipment, computers, a printer, charts and patient care material provided for student learning (exhibit 5.1).

The Autotutorial Lab is utilized in RTEC 114 and has patient care equipment such as beds, a stretcher, wheelchairs, mannequins, and supplies to test on oxygen, vital signs, venipuncture, etc.

We have a sufficient number of clinical sites for the number of students in the program. All but two clinical sites have digital equipment with CR or DR capabilities as of this writing. It is estimated that all sites will be digital within two years. The program has been investigating purchase of a digital processor but budget issues have constrained purchase at this time. Students are able to utilize the digital equipment at the clinical sites and, combined with the coursework given, are able to adequately understand the principles of digital radiology.

The faculty offices are conducive to advising, planning and scholarly activities. The offices are located in close proximity to the classroom and laboratory for student convenience. The program director and clinical coordinator each have an office and the clinical instructors share an office.
INSTRUCTIONAL AIDS
CLASSROOM
Computer and LCD projector for Powerpoint
CD Programs for Radiologic Science,
Principles, Anatomy and Positioning,
Radiation Protection and Biology, and Pathology
CD Rom Program for Anatomy
Videos for Patient Care
Videos for Introduction to the Profession

LABORATORY
Radiographic Film Library
Pull Down Anatomical Charts
X-ray Phantom
2 Skeletons
Disarticulated Skeleton
4 phantom skulls/heads
Chest Phantom
Darkroom with Processor and Film Bin

RADIOGRAPHIC EQUIPMENT
Energized Radiographic Equipment
Upright Chest Unit
Mobile Radiographic Unit
Disassembled x-ray tubes
Assorted cones and cylinders
Portable Grids
Assorted Cassettes
Film
10 View Boxes
Hot Light
Processor
Film Bin
Assorted lead strips
Set of lead numbers
Foot Stool
Positioning Sponges
Calipers
Angle Aligner

QUALITY ASSURANCE
Q.A. Handbook
Densitometers
Sensitometers
kVp-Wisconsin Test Cassette
Timers – Spin Top and Digital
Focal Spot Test Tool
X-ray /Light fields alignment
Wire Mesh
Victoreen “R” Meter and Charger
Dosimeters
Beam Alignment test
Penetrometers

PATIENT CARE ITEMS
Gowns
Gloves
Procedure trays
Contrast media
Barium enema prep
Sphygmomanometer
Stethoscope
Guide wires
Catheters

AUTOTUTORIAL LAB
Patient Beds
Venipuncture set up
Phantom arms
IV set up
5.2 Does the program provide clinical observation sites, as appropriate?

Explanation:
An observation site is used for student observation of the operation of equipment and/or procedures. Competencies may not be performed during observational assignments, nor may students participate in patient care. An observation site does not require JRCERT recognition.

Rationale:
These sites provide opportunities for observation of clinical procedures that may not be available at recognized clinical education settings.

Compliance May Be Demonstrated by:
Describing how observation sites, if used, enhance student clinical education.

Possible Site Assessment Methods:
- Review of student assignment schedules
- Interviews with faculty
- Interviews with students

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Mesa State College does not utilize non-recognized clinical observations sites.
5.3 Do clinical education settings provide students with a variety and volume of procedures for competency achievement?

**Explanation:**

It is the program's prerogative to identify student outcomes for competency achievement; however, clinical education settings must provide a sufficient variety and volume to allow all students to achieve required program competencies. Clinical education settings may include hospitals, clinics, specialty/imaging centers, orthopedic centers, radiation oncology facilities, and other facilities.

**Rationale:**

Students must have access to an adequate variety and volume of procedures to become competent in clinical practice.

**Compliance May Be Demonstrated by:**

Providing assurance that all students have access to a sufficient variety and volume of procedures to achieve competency.

**Possible Site Assessment Methods:**

- Review of published program materials
- Review of student clinical rotation assignments
- Review of student clinical records
- Review of surveys
- Interviews with faculty
- Interviews with clinical instructor(s)/supervisor(s)
- Interviews with clinical staff
- Interviews with students

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<th>Has Program Met Objective? (for site visitor use only)</th>
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Each clinical site has a unique feature but all provide the volume of exams necessary for student competencies. The program provides adequate rotations that no student lacks in proving competency and proficiency (exhibit 4.7). The student records the numbers and types of exams performed from each of the seven diagnostic rotations (exhibit 5.3a). Also included in exhibit 5.3b is a sample of the number of exams performed at one clinical site last year indicating volume and variety. Please see exhibit 5.3c for surveys from students and graduates of the program regarding satisfaction of competency achievement.
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Instructor verification
# EXAMINATION SUMMARY SHEET - FOUR-WEEK DIAGNOSTIC ROTATION
## RTEC 214, 224, 234

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TOTAL RAD: 40545

TOTAL EXAMS: 47863
MESA STATE COLLEGE
Radiologic Technology Program

EXIT SUMMARY FORM

NAME ______________________ DATE Apr 10, 2003

The purpose of this form is to elicit your perception of the Program's achievement of the Program Goals at the time of graduation from the Radiologic Technology Program.

Directions: Please rate the Program's effectiveness in relation to each of these statements utilizing the following scale.


Provide general education opportunities.

Provide educational opportunity to acquire the knowledge and apply the skills of an entry-level radiologic technologist.

Provide educational opportunity to acquire critical thinking and problem solving skills.

Provide educational opportunity to acquire professional attitude, behavior and ethics.

Provide qualified faculty and staff who are professional role models.

Provide educational facilities and equipment that encourages student learning.

Provide clinical education centers that afford opportunities to acquire clinical competency in radiologic technology.
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Provide qualified faculty and staff who are professional role models.

Provide educational facilities and equipment that encourages student learning.

Provide clinical education centers that afford opportunities to acquire clinical competency in radiologic technology.
MESA STATE COLLEGE
Radiologic Technology Program
EXIT SUMMARY FORM

NAME __________________________ DATE 4-23-04

The purpose of this form is to elicit your perception of the Program’s achievement of the Program Goals at the time of graduation from the Radiologic Technology Program.

Directions: Please rate the Program’s effectiveness in relation to each of these statements utilizing the following scale.


5 Provide general education opportunities.

5 Provide educational opportunity to acquire the knowledge and apply the skills of an entry-level radiologic technologist.

4 Provide educational opportunity to acquire and apply critical thinking and problem solving skills.

5 Provide educational opportunity to acquire and apply professional attitude, behavior and ethics.

5 Provide qualified faculty and staff who are professional role models.

5 Provide educational facilities and equipment that encourages student learning.

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Provide qualified faculty and staff who are professional role models.

Provide educational facilities and equipment that encourages student learning.

Provide clinical education centers that afford opportunities to acquire clinical competency in radiologic technology.
SECOND YEAR STUDENT SURVEY

Please answer each question using the following criteria:

5 = strongly agree
4 = agree
3 = neither agree or disagree
2 = disagree
1 = strongly disagree

1. The radiology technology program is meeting my expectations and I will be proud to graduate from MSC.
   5  4  3  2  1

2. I have a clear understanding of the radiologic technology field and I would choose this course of study again.
   5  4  3  2  1

3. The clinical sites are supportive of my educational needs and requirements.
   5  4  3  2  1

4. Considering the amount of clinical experience I have received thus far, I could function independently as an entry-level technologist with minimal orientation at a place of employment.
   5  4  3  2  1

5. The program is providing me with the critical thinking and problem solving skills I will need to function as an entry-level technologist.
   5  4  3  2  1

6. Educational opportunity was provided to acquire and apply professional attitudes, behavior and ethics.
   5  4  3  2  1

7. The time spent in specialized areas (CT, NM, US, MR, Radiation Therapy and CIT.) was beneficial.
   5  4  3  2  1
GRADUATE SURVEY

Please answer each question using the following criteria:

5 = strongly agree  
4 = agree  
3 = neither agree or disagree  
2 = disagree  
1 = strongly disagree

1. The program met my expectations and I am proud to be a graduate of Mesa State College.
(5 4 3 2 1)

2. I have a clear understanding of the Radiologic Technology field and would choose this profession again.
(5 4 3 2 1)

3. The clinical sites were supportive of my educational needs and requirements.
(5 4 3 2 1)

4. The amount of clinical experience I received prepared me to function independently as an entry-level technologist with minimal orientation at my place of employment.
(5 4 3 2 1)

5. The program provided me with critical thinking and problem solving skills to assist me in my duties as a technologist.
(5 4 3 2 1)

6. Educational opportunity was provided to acquire and apply professional attitudes, behaviors and ethics.
(5 4 3 2 1)

7. The time spent in specialized areas (CT, US, NM, MRI, Radiation Therapy and CIT) was beneficial.
(5 4 3 2 1)

8. I was provided adequate experience in the following areas:

General Diagnostic Radiography (5 4 3 2 1)
Fluoroscopy (5 4 3 2 1)
Surgery (5 4 3 2 1)
Trauma Radiography (5 4 3 2 1)
Portable Radiography (5 4 3 2 1)
GRADUATE SURVEY

Please answer each question using the following criteria:

5  =  strongly agree
4  =  agree
3  =  neither agree or disagree
2  =  disagree
1  =  strongly disagree

1. The program met my expectations and I am proud to be a graduate of Mesa State College.
   5  4  3  2  1

2. I have a clear understanding of the Radiologic Technology field and would choose this profession again.
   5  4  3  2  1

3. The clinical sites were supportive of my educational needs and requirements.
   5  4  3  2  1

4. The amount of clinical experience I received prepared me to function independently as an entry-level technologist with minimal orientation at my place of employment.
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   General Diagnostic Radiography  5  4  3  2  1
   Fluoroscopy  5  4  3  2  1
   Surgery  5  4  3  2  1
   Trauma Radiography  5  4  3  2  1
   Portable Radiography  5  4  3  2  1
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5 = strongly agree
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3 = neither agree or disagree
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   5 4 3 2 1

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3. The clinical sites are supportive of my educational needs and requirements.
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4. Considering the amount of clinical experience I have received thus far, I could function independently as an entry-level technologist with minimal orientation at a place of employment.
   5 4 3 2 1

5. The program is providing me with the critical thinking and problem solving skills I will need to function as an entry-level technologist.
   5 4 3 2 1

6. Educational opportunity was provided to acquire and apply professional attitudes, behavior and ethics.
   5 4 3 2 1

7. The time spent in specialized areas (CT, NM, US, MR, Radiation Therapy and CIT.) was beneficial.
   5 4 3 2 1
8. I am receiving adequate experience in the following:
   General Diagnostic Radiography
   Fluoroscopy
   Surgery
   Trauma Radiography
   Portable Radiography

   5 4 3 2 1

9. The didactic (classroom) education I am receiving is preparing me to function as an entry-level technologist.
   5 4 3 2 1

10. The classroom instruction I have received is adequately preparing me for the ARRT exam.
    5 4 3 2 1

11. I am satisfied with the general education courses I have taken at Mesa State College.
    5 4 3 2 1

12. I am satisfied with the program equipment and classroom space utilized for my educational instruction.
    5 4 3 2 1

13. If this program offered a baccalaureate degree, I would continue my education.
    5 4 3 2 1

Do you have any additional comments or ideas for the Mesa State College Radiologic Technology program?

________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
5.4 Does the program review, evaluate, and maintain learning resources to assure the achievement of student learning outcomes and program goals?

**Explanation:**

Learning resources are media and reference materials utilized to support and enhance the educational program. If a print library is a primary resource, it must have a variety of materials published within the last five years. If computers are a primary learning resource, access must be assured. The JRCERT does not endorse any specific learning resource.

**Rationale:**

The review and maintenance of learning resources assure student knowledge of current and developing imaging/therapeutic technologies.

**Compliance May Be Demonstrated by:**

- Identifying available learning resources.
- Describing the procedure for review, evaluation, and maintenance of learning resources.

**Possible Site Assessment Methods:**

- Tour of learning facilities
- Review of learning resources
- Review of surveys
- Review of outcome assessment data
- Interviews with faculty
- Interviews with students

<table>
<thead>
<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

The library provides books and journals specific to the profession as well as to health care in general (exhibit 5.4a). Online resources include indexes and databases such as Medline and Cinahl. The program has media specific to radiologic technology and has two dedicated computers with a printer in the energized laboratory. The department also has an autotutorial laboratory/library which is utilized by both the nursing and radiologic technology programs. The college provides computer laboratories for student access to the internet and for use of various programs such as Microsoft Word and PowerPoint.

The program director and clinical coordinator review new multimedia materials and make purchases if funding is available. The library is assessed on a biannual basis.

Please see exhibit 5.4b for survey from students in the program regarding satisfactions with learning resources.
## Fact Sheet 2003/2004

### Existing Resources

<table>
<thead>
<tr>
<th>Resource</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>Book Volumes</td>
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<tr>
<td>Current Journal Subscriptions</td>
<td>692</td>
</tr>
<tr>
<td>Journal Volumes</td>
<td>32,600</td>
</tr>
<tr>
<td>Online Journal Subscriptions</td>
<td>960</td>
</tr>
<tr>
<td>Journals on fiche</td>
<td>172,303</td>
</tr>
<tr>
<td>Government Documents</td>
<td>79,402</td>
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<tr>
<td>Government Documents Microforms</td>
<td>235,582</td>
</tr>
<tr>
<td>ERIC Documents</td>
<td>506,533</td>
</tr>
<tr>
<td>Media or Audiovisual Items</td>
<td>10,144</td>
</tr>
<tr>
<td>Maps</td>
<td>14,957</td>
</tr>
</tbody>
</table>

### New Resources

<table>
<thead>
<tr>
<th>Resource</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Volumes Purchased</td>
<td>1,883</td>
</tr>
<tr>
<td>New Gifts</td>
<td>1,177</td>
</tr>
</tbody>
</table>

### Electronics

<table>
<thead>
<tr>
<th>Resource</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online Databases</td>
<td>74</td>
</tr>
<tr>
<td>E-books</td>
<td>7,406</td>
</tr>
</tbody>
</table>

### Budget

<table>
<thead>
<tr>
<th>Expense</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Expenditures</td>
<td>$1,424,612</td>
</tr>
<tr>
<td>Personnel</td>
<td>$975,802</td>
</tr>
<tr>
<td>Materials/Expenses</td>
<td>$448,810</td>
</tr>
</tbody>
</table>

### Library Staff

<table>
<thead>
<tr>
<th>Type</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Librarians &amp; Media Professionals</td>
<td>8</td>
</tr>
<tr>
<td>Classified Staff</td>
<td>10</td>
</tr>
</tbody>
</table>

### Computers

<table>
<thead>
<tr>
<th>Type</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Public Stations</td>
<td>28</td>
</tr>
<tr>
<td>Staff Stations</td>
<td>33</td>
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<td>26</td>
</tr>
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<table>
<thead>
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<tbody>
<tr>
<td>Door Count</td>
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<td>Bibliographic Instruction Sessions</td>
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<td>1,911</td>
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Journal Collection
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Government Documents
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Facility
Gross Square Footage 68,793
Assignable Square Footage 48,468
Seats 549

Other Building Uses
Media Services
Center for Teaching & Learning
Student Lab (Information Technology)
Distance Education Classrooms (2)
Group Study Rooms (8)
Audio-Visual Viewing Area

Comments, questions, etc.
Last updated on 03/24/2004
# Tomlinson Library

## Mesa State - Grand Junction, Colorado

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Directions: Please rate the Program’s effectiveness in relation to each of these statements utilizing the following scale.


4  Provide general education opportunities.

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4  Provide educational opportunity to acquire and apply critical thinking and problem solving skills.

4  Provide educational opportunity to acquire and apply professional attitude, behavior and ethics.

4  Provide qualified faculty and staff who are professional role models.

5  Provide educational facilities and equipment that encourages student learning.

5  Provide clinical education centers that afford opportunities to acquire clinical competency in radiologic technology.
STUDENT SERVICES

While attending Mesa State, I have utilized the following Student Services:

- Academic Advising
- Career Counseling
- Counseling
- Financial Aid
- Health Services
- Library

Please check the number on the continuum for each item that best approximates your opinion. Additional Comments are appreciated and should be written in the blank space provided beneath each item.

<table>
<thead>
<tr>
<th>Strongly Disagree</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>Strongly Agree</th>
</tr>
</thead>
</table>

Student Services reflect the values of respect, dignity, understanding and compassion.

Student Services personnel are Responsive to my needs.

Student Services facilitates academic achievement by assisting students with decisions regarding educational/career goals.

Student Services assists students to overcome personal, academic and financial barriers to education.

Student Service programs facilitate personal and professional development.

Pre-academic advising was beneficial.
Please rate your effectiveness in relation to each item below utilizing the following scale:


<table>
<thead>
<tr>
<th>Item</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>patient management</td>
<td>4</td>
</tr>
<tr>
<td>application of communication skills</td>
<td>5</td>
</tr>
<tr>
<td>application of affective skills</td>
<td>5</td>
</tr>
<tr>
<td>application of imaging concepts</td>
<td>5</td>
</tr>
<tr>
<td>application of positioning skills</td>
<td>5</td>
</tr>
<tr>
<td>equipment operations and manipulations</td>
<td>3</td>
</tr>
<tr>
<td>application of quality assurance and quality control</td>
<td>4</td>
</tr>
<tr>
<td>principles of radiation protection</td>
<td>3</td>
</tr>
<tr>
<td>image evaluation and analysis</td>
<td>4</td>
</tr>
<tr>
<td>application of legal and ethical principles</td>
<td></td>
</tr>
<tr>
<td>Performance of radiographic procedures</td>
<td></td>
</tr>
<tr>
<td>general radiography</td>
<td>5</td>
</tr>
<tr>
<td>mobile</td>
<td>5</td>
</tr>
<tr>
<td>surgical</td>
<td>4</td>
</tr>
<tr>
<td>emergency/trauma</td>
<td>4</td>
</tr>
<tr>
<td>pediatrics</td>
<td></td>
</tr>
<tr>
<td>computer skills</td>
<td>4</td>
</tr>
<tr>
<td>critical thinking (problem solving and decision making)</td>
<td>4</td>
</tr>
<tr>
<td>writing skills</td>
<td>5</td>
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<tr>
<td>oral presentation skills</td>
<td>4</td>
</tr>
<tr>
<td>research skills</td>
<td>3</td>
</tr>
<tr>
<td>organizational skills</td>
<td>4</td>
</tr>
<tr>
<td>personal and professional development</td>
<td>5</td>
</tr>
</tbody>
</table>

Please check (3) the college, community and professional activities you have participated in while a student at Mesa State College and list your involvement (membership, committees, offices)

- [✓] class activities
- [ ] Faculty Senate Standing Committees
- [ ] MSC Student Government Association
- [ ] MSC Club Advisory Board
- [✓] MSC Radiology Club Officer **VICE PRESIDENT**
- [ ] Community Service Projects
- [ ] Community, social and/or religious organizations (please list)
Continuing Education Offerings

- Any College educational activity
- CSRT Conference
- WSSRT Seminar
- Other -

Did Mesa State College provide you with sufficient information regarding career opportunities?

√ Yes  ____ No

If you answered no, do you have any suggestions?

________________________________________________________________________

________________________________________________________________________

Would you like more activities available for career connection: activities acquainting students with job opportunities available in the area?

√ Yes  ____ No

POST GRADUATION PLANS

1. Do you plan to continue your education? Yes √ No _____

2. If you answered yes, please identify your educational goals and identify the plan of action you have utilized to attain these goals.

   Educational Goals                  Date
   ________________________________  ____________
   LAB TECH SCHOOL      01/03
   BACHELOR OF MEDICAL SCIENCE 2004

3. Which, if any, of these organizations do you plan to join or maintain membership in following graduation?

   √ CSRT
   √ ASRT
   ____ Alumni Association
   ____ Other – please identify ________________________________

56
4. Please give the following information concerning your plans for acceptance of your first RT position.

a. Do you plan to work in radiologic technology?  Yes ☑  No 

b. Have you interviewed for a radiography position?  Yes ☑  No 

c. Do you have a position as a radiographer?  Yes ☑  No 

d. If you have answered yes to the previous question, please answer the following:
   Name of the agency  ____________________________________________
   Position:  ____________________________________________
   Hours  ____________________________________________

   Reason for selection of this agency
   ___________________________________________________________
   ___________________________________________________________
   ___________________________________________________________

Do you feel that Mesa State College has prepared you to enter the health care delivery system as an entry-level radiographer?  YES ☑  NO 

What suggestions would you like to contribute for consideration toward program improvement?

GIVE A MOCK REGISTRY TEST AT THE BEGINNING OF THE SECOND YEAR
SUPPORT THE SECOND YEAR STUDENTS WHEN THEY GET PEO  BEFORE THEY GRADUATE
ADD INSTRUCTORS TO INCREASE LEARNING EXPERIENCES

What aspect(s) of your education at Mesa State did you find most effective and would like to see continued in the program?

THANK YOU FOR YOUR INPUT!
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<th>5</th>
<th>Strongly Agree</th>
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Student Services reflect the values of respect, dignity, understanding and compassion.

Student Services personnel are responsive to my needs.

Student Services facilitates academic achievement by assisting students with decisions regarding educational/career goals.

Student Services assists students to overcome personal, academic and financial barriers to education.

Student Service programs facilitate personal and professional development.

Pre-academic advising was beneficial.
Please rate your effectiveness in relation to each item below utilizing the following scale:


- 5 patient management
- 5 application of communication skills
- 5 application of affective skills
- 5 application of imaging concepts
- 5 application of positioning skills
- 5 equipment operations and manipulations
- 5 application of quality assurance and quality control
- 5 principles of radiation protection
- 5 image evaluation and analysis
- 5 application of legal and ethical principles

Performance of radiographic procedures:

- 5 general radiography
- 5 mobile
- 4 surgical
- 5 emergency/trauma
- 5 pediatrics

- 5 computer skills
- 5 critical thinking (problem solving and decision making
- 5 writing skills
- 5 oral presentation skills
- 5 research skills
- 5 organizational skills
- 5 personal and professional development

Please check (3) the college, community and professional activities you have participated in while a student at Mesa State College and list your involvement (membership, committees, offices)

- Class activities
- Faculty Senate Standing Committees
- MSC Student Government Association
- MSC Club Advisory Board
- MSC Radiology Club Officer
- Community Service Projects
- Community, social and/or religious organizations (please list)
Continuing Education Offerings

- Any College educational activity
- CSRT Conference
- WSSRT Seminar
- Other

Did Mesa State College provide you with sufficient information regarding career opportunities?

✔ Yes  No

If you answered no, do you have any suggestions?


Would you like more activities available for career connection: activities acquainting students with job opportunities available in the area?

✔ Yes  No

POST GRADUATION PLANS

1. Do you plan to continue your education? Yes ☒ No

2. If you answered yes, please identify your educational goals and identify the plan of action you have utilized to attain these goals.

   Educational Goals                      Date
   Registered in MRI                        2005
   Registered in Mammography                2006

3. Which, if any, of these organizations do you plan to join or maintain membership in following graduation?

   ✔ CSRT
   ✔ ASRT
   ☒ Alumni Association
   ☒ Other – please identify

56
4. Please give the following information concerning your plans for acceptance of your first RT position.

a. Do you plan to work in radiologic technology? Yes X No
   following graduation?

b. Have you interviewed for a radiography position? Yes X No

c. Do you have a position as a radiographer? Yes X No

If you have answered yes to the previous question, please answer the following:

   Name of the agency: Grand River Medical Center
   Position: Radiographer
   Hours: Varies

Reason for selection of this agency:
- Financial help with tuition and books
- The Radiology Department staff and radiologists
- Brand new hospital with new equipment

Do you feel that Mesa State College has prepared you to enter the health care delivery system as an entry-level radiographer? YES X NO

What suggestions would you like to contribute for consideration toward program improvement?
- I wish there was a way to be in the special areas rotation for longer than three days.
- I found it very helpful to be able to get the lecture notes off the computer prior to class, so I could listen instead of spend so much time writing. I wish this was done for all classes.

What aspect(s) of your education at Mesa State did you find most effective and would like to see continued in the program?
- I found the clinical sites very effective, it was there that I could relate what we did in the classroom to what I did during clinicals.
- I found the program very good.

THANK YOU FOR YOUR INPUT!
5.5 Does the program review, evaluate, and maintain student services to assure the achievement of student learning outcomes and program goals?

**Explanation:**

Student services are provided at the discretion of the program; however, they should be sufficient to assure that student learning outcomes and program goals are met.

**Rationale:**

The provision of appropriate student services promotes student achievement.

**Compliance May Be Demonstrated by:**

Describing the correlation between available student services and the achievement of student learning outcomes and program goals.

**Possible Site Assessment Methods:**

- Review of surveys
- Review of meeting minutes
- Review of outcome assessment data
- Interviews with faculty
- Interviews with students

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There are many services available for students on campus (exhibit 5.5a). Many students have utilized tutoring and college success courses. Counseling is provided on an as-needed basis. Financial aid is available. The program grants up to 6 scholarships per year. The college has recently added computer programming to the registrars’ office to allow the student to track courses necessary for program completion. This has made student course advising much easier.

Please see results of student surveys in exhibit 5.5b regarding satisfaction with student services.
Educational Access Services
Students with Disabilities
(Division of Advising & Academic Services)

Accommodations for students with documented disabilities. These accommodations, based upon the documentation, may include:

- alternative testing
- volunteer class note takers
- taped textbooks (8 weeks is required to complete taping a book)
- furniture accommodations in the classroom.

The student must initiate the request for the accommodations and provide documentation of the disability. Please click to read the Legal Differences between Secondary and Postsecondary for Students with Disabilities.

For information regarding these services, and how to qualify for them, contact the Educational Access Services Office at 248-1826, or stop by the office at 1020 Elm Avenue. Click here to read the recommended documentation guidelines.

Faculty

Assistive Technology

Office of Financial Aid Welcome Statement
The office of Financial Aid welcomes you to Mesa State College. Our staff is dedicated to assisting you in sorting through the various forms of student financial aid. We believe that by helping you take advantage of a variety of available resources, you will find that an education at Mesa State College is attainable.

-Curt Martin, Interim Director of Financial Aid-
Welcome to Advising & Academic Services (AAS). At Mesa State, we are proud of the numerous academic services that we offer to our students. We hope that you will take advantage of these services whenever the need arises. For more information on each division of AAS, please click on the appropriate link on this page.
Many students choose Mesa State for three reasons: hands-on learning opportunities, affordable tuition, and the location is great for skiing, mountain biking and river rafting. Mesa State truly is a unique living and learning environment.

Learn about a few professors with our faculty profiles.
Connect to every area requiring a login by using the student login button above. The Current Students page allows you to get information about the many student services available to you. Check out what's going on in the area with the Community Links button. Remember, transit is free to Mesa State students.
STUDENT SERVICES

While attending Mesa State, I have utilized the following Student Services:

- [X] Academic Advising
- [ ] Career Counseling
- [ ] Counseling
- [X] Financial Aid
- [X] Health Services
- [X] Library

Please check the number on the continuum for each item that best approximates your opinion. Additional Comments are appreciated and should be written in the blank space provided beneath each item.

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Summary for Standard Five

1. List the major strengths of Standard Five, in order of importance.

2. List the major concerns of Standard Five, in order of importance.

3. Provide the program’s plan for addressing each concern identified.

4. Describe any progress already achieved in addressing each concern.

5. Describe any constraints in implementing improvements.

Attach additional pages if necessary.

Despite the size and location of our clinical sites, the students are provided with adequate numbers of exams to not only prove competency but to achieve proficiency in the majority of those exams. Our observation rotations have also proved to be beneficial to the students with some of them pursuing continuing education in such areas as ultrasound, nuclear medicine and radiation therapy.

The student services on campus have been of benefit for those students who need help financially or academically. The library continues to increase the number of online databases for increased journal articles.

A major concern for Standard Five is the lack of CR/DR equipment on campus. It is difficult to teach the students using film when all clinical sites will be digital within two years. Our constraint in obtaining this equipment is the cost of it. We have discussed our concerns with administration and with the program advisory committee. In the near future, there will be a request for fundraising and, hopefully, a grant proposal for this equipment.
Standard Six:

*Human Resources*
6.1 Do all faculty and staff possess academic and professional qualifications appropriate for their assignments?

Explanations:
Faculty and staff must possess academic and professional qualifications appropriate for the assigned responsibility(ies).

Rationale:
Appropriate knowledge, proficiency, and certification (if appropriate) provide a foundation that promotes a sound educational environment.

Compliance May Be Demonstrated by:
Providing curricula vitae and copies of relevant professional credentials for individuals not identified in the program’s application for continuing accreditation (JRCERT Form 100).

Possible Site Assessment Methods:
- Review of published program materials
- Review of position descriptions for faculty and staff
- Interviews with faculty
- Interviews with clinical staff
- Interviews with students

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The Program Director received her PhD in Education and Human Resource Studies from Colorado State University in 2003. The Clinical Coordinator received her Masters in Education from Lesley University in 2000 and is currently enrolled in a PhD program at Colorado State University. Please see exhibit 6.1a for university degrees of the program director and clinical coordinator.

Please see exhibit 6.2 – position descriptions for program officials. All other documentation is found in the application for continuing accreditation.
Bette A. Schans, Ph.D., RT(R)
321 5th St.
Clifton, CO 81520

EDUCATION:

2003 Doctor of Philosophy in Education and Human Resource Studies, Colorado State University Fort Collins, Colorado
1992 Master of Science, Management and Organization, University of Colorado at Denver, Denver, Colorado
1984 Bachelor of Science, Health Care Management, Metropolitan State College of Denver, Denver, Colorado
1973 Associate of Applied Science, Radiologic Technology, Community College of Denver, Denver, Colorado

EXPERIENCE AND EMPLOYMENT:

1994 - Professor, Program Director, Radiologic Technology Program
       Mesa State College, Grand Junction, Colorado
       - received 8 year JRCERT accreditation status in 1997
       - maintained 8-year status in 2002
1992 to 1993 Program Director, Radiologic Technology Program
       Community College of Denver, Denver, Colorado
1973 to 1994 Swedish Medical Center Englewood, Colorado

PROFESSIONAL AFFILIATIONS:

1974 Registered by the American Registry of Radiologic Technologists
1974 Member The American Society of Radiologic Technologists
1980-82 Education Committee
1983 Task Force, Revision of PEP packets
1982-83 Book Reviewer for Radiologic Technology
1984-86 Region III Director
1986-88 Regional Director Delegate, ASRT House of Delegates
1986-88 Chairman, Commission on Professional Practice
1987-88 Member, Bylaws Committee
1988-89  Vice President
1989-90  President-Elect
1990-91  President
1991-92  Chairman of the Board of Directors
1990-92  Board Member, ASRT Educational Foundation
1992-94  Committee on International Issues
1993-96  Committee on Fellows, Chairman, 1994-96
1993-94  Task Force on Policy and Procedures
1994-96  Region III Radiography Delegate
1995-98  Committee on Past Presidents
1994-95  Reference Committee on Professional Practice
1996-98  Region III Education Chapter Delegate
1999-03  Taskforce on Governmental Re-Structure
2000-03  Baccalaureate Curriculum Project
2004-  Research and Grants Advisory Panel – Educational Foundation
2004-  Editorial Review Board, Radiologic Technology

1974  Member  Colorado Society of Radiologic Technologists
1975  Public Relations Committee
1977  Nominating Committee Chairman
1978  Treasurer, Denver District
1979  Program Chairman, Denver District
1979  Treasurer, CSRT
1980  President-Elect
1981  President
1982  Senior Board Member
1983  Board Chair
1985-90  Bylaws Committee
1987  Vice President, Denver District
1993  Vice President, CSRT
1993  Chairman, Taskforce for Incorporation and Reorganization
1994-98  Editor, Cassette Gazette
1994  Co-Chair, Conference Committee
2000-  Vice President, WSSRT

1999- Site Surveyor for the Joint Review Committee on Education in Radiologic Technology

- have conducted four site visits for the JRCERT
- have attended three site visitor workshops and two outcome assessment workshops
AWARDS:

1988   Life Member Status, Colorado Society of Radiologic Technologists
1989   Distinguished Alumna Award, Community College of Denver
1991   The Mallinckrodt Award of Excellence for Outstanding Contributions
        Awarded by the Wyoming Society of Radiologic Technologists
1992   Elected Fellow of the American Society of Radiologic Technologists
2000   Who’s Who Among America’s Teachers Award
2004   Jean I Widger Distinguished Author Award, ASRT

PUBLICATIONS:

2000   “Radiology’s Role in Emergency Trauma”, Radiology Today, Vol. 1, 3,
2004   “Radiologic Technologists and Ethical Reasoning”, Radiologic
        Technology, Vol 75, 4, March –April.

LECTURES PRESENTED:

1987   Panel discussion, “Issues in State Licensure”, CSRT Annual Conference,
        Estes Park, Colorado
1988   “The Art of Radiography”, January, Denver District, CSRT,
        September, Wyoming Society of Radiologic Technologists
1989   “Radiography in Africa”, February, Denver District, CSRT
1990   “Radiography in Africa”, May, CSRT Annual Conference,
        Grand Junction, Colorado
1991   “Radiography in a Third World Country”, April, Oklahoma Society of
        Radiologic Technologists, November, CSRT Fall Seminar
1992   “The Professional Portrait, Do We Fit the Picture?”, April, CSRT Annual
        Conference, Breckenridge, Colorado
1993   “Radiography in a Third World Country”, April, South Dakota Society of
        Radiologic Technologists, Sioux Falls, South Dakota
1993   “Professionalism” and “Radiography in a Third World Country”,
        September, New England Conference of Radiologic Technologists,
        Connecticut
1994   “Professionalism”, May, CSRT Annual Conference, Estes Park, CO
1993

1995
“Alternate Methods to Lecture”, February, Rocky Mountain Educators Regional Meeting

1995
“Trauma Radiography”, April, CSRT Annual Conference, Colorado Springs, Colorado

1996
“Communication Methods for Managers”, June, ASRT Annual Conference, Louisville, Kentucky

1996
“Communication Methods for Managers”, July and August, CSRT seminars, Grand Junction and Denver

1997
“Osteoporosis, Cause, Detection and Treatment”, May, Florida Society of Radiologic Science Professionals annual meeting, Ft. Lauderdale

1997
“Osteoporosis, Cause, Detection and Treatment”, November, CSRT Western Slope District NRTW seminar, Grand Junction

1998
“Osteoporosis, Cause, Detection and Treatment”, April, CSRT Annual Conference, Estes Park

1999

1999
“Power Point Presentations in the Classroom”, June, ASRT Annual Conference, Portland OR.

2000
“Radiology’s Role in Emergency Trauma: A Teamwork Approach”, June, ASRT Annual Conference, Albuquerque, NM, WSSRT Seminar, Grand Junction, CO

2002

2003
“Ethics in Theory and Practice: A Review”, May, CSRT Annual Conference, Breckinridge, CO.
2004  "Ethics", February, Association of Collegiate Educators in Radiologic Technology, Annual Conference, Las Vegas, NV.

"Learning Styles", Association of Collegiate Educators in Radiologic Technology, Annual Conference, Las Vegas, NV.

2004  "Breast Cancer – A Patient’s Perspective", WSSRT spring conference, Grand Junction, CO.

2005  "Ethical Reasoning in Students and Graduates of Radiologic Technology Programs", Hawaiian International Educators Conference, Honolulu, HI.

2005  "How to Publish a Research Paper” and “I’m in the Classroom, Now What Do I Do?”, Association of Collegiate Educators in Radiologic Technology Annual Conference, Las Vegas, NV.
This Executive Order of July 10th, 19XX, accords and hereby
grants under the seal of Colorado State University at Fort Collins, Colorado

Foundation for Human Resource Studies

Doctor of Philosophy

the Degree of

Ph.D. in Economics

This degree is conferred upon

The Board of Governors of the Colorado State University System,

Colorado State University
LESLEY UNIVERSITY
Established 1909
Cambridge, Massachusetts

Be it known that

L. PATRICE WARD

having satisfactorily completed the prescribed curriculum
and other requirements is, upon the recommendation of the Faculty and the
approval of the Board of Trustees, hereby granted the Degree of

MASTER OF EDUCATION

with all the rights, privileges and obligations thereto pertaining

November 17, 2000

Chairperson, Board of Trustees

President
6.2 Are the responsibilities of administrative, faculty, and clinical staff delineated and do they support the fulfillment of the program’s mission and goals?

**Explanation:**

Administrative, faculty, and clinical staff responsibilities must be clearly delineated and must support the program’s mission and goals.

**Rationale:**

The clear delineation of responsibilities facilitates accountability.

**Compliance May Be Demonstrated by:**

Providing documentation that administrative, faculty, and clinical staff positions are clearly delineated and support the program’s mission and goals.

**Possible Site Assessment Methods:**

- Review of position descriptions
- Review of handbooks
- Interviews with faculty
- Interviews with clinical instructor(s)/clinical supervisor(s)
- Interviews with clinical staff
- Interviews with students

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The Department Head oversees the operations of the department. The Program Director and Clinical Coordinator are evaluated by the Department Head. The Program Director and Clinical Coordinator work in concert to assure that didactic and clinical education are synchronized. The college Clinical Instructors and Affiliate Clinical Instructors report to the Clinical Coordinator. All positions are clearly delineated by the position descriptions (exhibit 6.2). All faculty members and clinical instructors work in concert to support the students in their endeavors to complete the program which is in line with the program’s mission and goals.
MESA STATE COLLEGE  
Nursing and Radiologic Sciences  
Radiologic Technology Program  

PROGRAM DIRECTOR  
POSITION DESCRIPTION

POSITION DESCRIPTION:  
The Program Director is responsible for the organization, administration, periodic review, continued development, and general effectiveness of the program.

DUTIES AND RESPONSIBILITIES:
1. Responsible for the Program’s Master Plan of Education.  
2. Coordinates development and revision of course descriptions, outlines and lesson plans.  
3. Coordinates didactic, laboratory, and clinical education.  
4. Instructs didactic courses.  
5. Evaluates didactic performance of students.  
6. Maintains student records.  
8. Counsels students within area(s) of teaching responsibility.  
9. Coordinates teaching responsibility with clinical education.  
10. Directs student recruitment and selection.  
11. Participates in faculty selection.  
12. Supervises and evaluates faculty.  
13. Conducts regular faculty meetings.  
14. Develops and revises position descriptions for faculty.  
15. Maintains program accreditation.  
16. Provides direct supervision during clinical assignments as necessary.  
17. Provides input to department budget.  
18. Evaluates, selects and purchases educational material and equipment.  
19. Acts as liaison between program and clinical affiliate(s).  
20. Reviews and revises affiliation agreements regularly.  
21. Conducts graduate and employer surveys to assess program effectiveness.  
22. Maintains applicant, student, graduate and faculty records.  
23. Maintains library and educational material.  
24. Conducts advisory committee meetings.  
25. Participate in Clinical Instructors Committee.  
26. Pursues ongoing continuing education in professional practice, instructional methodology and management skills.

QUALIFICATIONS:
1. Credentialed by the American Registry of Radiologic Technologists or equivalent.  
2. Valid Colorado Vocational Credential.
3. Minimum of two years experience as an instructor in an accredited radiography program.
4. Three years experience as a registered staff technologist.
5. Qualified through academic preparation and experience.
   a. Preferred degree: Masters
   b. Acceptable: Bachelors
MESA STATE COLLEGE
Nursing and Radiologic Sciences
Radiologic Technology Program

DIDACTIC FACULTY
POSITION DESCRIPTION

POSITION DESCRIPTION:
The didactic faculty member is responsible for instruction of courses in the radiologic
science curriculum, as well as evaluation and reporting of continued progress of the
students.

DUTIES AND RESPONSIBILITIES:
1. Provides outline for clinical courses as assigned.
2. Instructs didactic courses as assigned.
3. Evaluates didactic courses as assigned.
4. Maintains student records.
5. Counsels students within area(s) of teaching responsibility.
6. Cooperates with program director in review and revision of course materials.
7. Pursues ongoing continuing education in educational methodologies and
   continuing professional development.

QUALIFICATIONS:
1. Credentialed by the American Registry of Radiologic Technologists.
2. Hold valid Colorado Vocational Credential.
3. Must be qualified and effective in teaching subjects assigned.
4. Qualified through academic preparation.
   a. Preferred: Bachelors
   b. Acceptable: Associates
MESA STATE COLLEGE
Nursing and Radiologic Sciences

Radiologic Technology Program

CLINICAL COORDINATOR
POSITION DESCRIPTION

POSITION DESCRIPTION:
The clinical coordinator is responsible for coordinating clinical education with didactic education, instruction and evaluation of students, and evaluation and assurance of clinical education effectiveness.

DUTIES AND RESPONSIBILITIES:
1. Coordinates student clinical education.
2. Develops student objectives and evaluation tools for clinical education.
4. Provides input for the program’s Master Plan of Education.
5. Assists program director in coordination of didactic, laboratory, and clinical education.
6. Schedules regular visits to the clinical education center to evaluate and assure clinical education effectiveness.
7. Reports student progress to the program director.
8. Instructs didactic courses.
10. Maintains student records.
12. Counsels students within area/s of teaching responsibility.
13. Coordinates teaching responsibility with clinical education.
15. Participates in faculty meetings.
16. Provides direct supervision during clinical assignments as necessary.
17. Provides input for educational material and equipment.
18. Acts as liaison between program and clinical affiliate/s.
19. Participates in advisory committee meetings.
20. Conducts affiliate clinical instructors committee meetings.
22. Coordinates clinical instructor/s to assist affiliate clinical instructor and staff in maintaining and improving skills related to student supervision.

QUALIFICATIONS:
1. Credentialed by the American Registry of Radiologic Technologists or equivalent.
2. Valid Colorado Vocational Credential.
3. Qualified through Academic preparation and experience:
   a. Preferred Degree: Bachelor
   b. Acceptable Degree: Associate
   c. Preferred Experience:
      1) Previous instruction experience especially in a clinical situation.

4. Three years experience as a registered staff technologist.
MESA STATE COLLEGE  
Nursing and Radiologic Sciences  
Radiologic Technology Program  

CLINICAL INSTRUCTOR  
POSITION DESCRIPTION  

POSITION DESCRIPTION:  
The clinical instructor shall provide students with appropriate and adequate clinical instruction and shall evaluate student clinical competence.  

DUTIES AND RESPONSIBILITIES:  
1. Coordinates student clinical education.  
2. Assists clinical coordinator and program director with student objectives and evaluation tools for clinical education.  
3. Maintains student clinical records.  
4. Assist affiliate clinical instructor and staff in maintaining and improving skills related to student supervision.  
5. Participates in faculty meetings.  
6. Counsels students within areas of clinical education.  
7. Pursues ongoing continuing education in educational methodology and imaging techniques.  
8. Participates in Clinical Instructors Meeting.  

QUALIFICATIONS:  
1. Credentialed by the American Registry of Radiologic Technologists or equivalent.  
2. Valid Colorado vocational credential.  
3. Three years experience as a registered staff technologist.  
4. Qualified through academic preparation and experience.  
   a. Preferred: Bachelor  
   b. Acceptable: Associate  
   c. Preferred previous instruction experience in clinical environment.
MESA STATE COLLEGE  
Nursing and Radiologic Sciences  
Radiologic Technology Program  

AFFILIATE CLINICAL INSTRUCTOR  
POSITION DESCRIPTION  

POSITION SUMMARY:  
The affiliate clinical instructor position is an adjunct position designed to aid Mesa State College in the clinical training of student radiographers and to facilitate communication between the clinical site and the college faculty.  

DUTIES AND RESPONSIBILITIES:  
1. Provide instruction/supervision of the student.  
2. Maintain attendance records of the student.  
3. Evaluate the professional behavior, ethics, and attitudes of the student.  
4. Evaluate student clinical competence.  
5. Be knowledgeable of the Radiologic Technology Program goals, clinical objectives, and clinical evaluation system.  
6. Attend clinical instructor committee meetings.  
7. Communicate information concerning students to the Mesa State College Clinical Coordinator.  
8. Maintain competency in imaging, instructional, and evaluative techniques through continuing professional development.  

QUALIFICATIONS:  
1. Credentialed, in good standing, in radiography by the ARRT or the equivalent.  
2. Two years full-time professional experience as a radiographer.  
3. Competence in instructional and evaluative techniques.  
4. Full-time employment by the represented clinical site.  

APPOINTMENT:  
1. Written request for appointment made to the Mesa State College Program Director.  
2. Current resume submitted to the Mesa State College Program Director.  
3. Appointment at the discretion of the Program Director, subsequent to recommendation from the Clinical Coordinator and represented radiology department administrator.  
4. Appointment for a minimum of one year.  
10/96 a:affcipos.dsc
6.3 Does the program provide an adequate number of faculty to meet all educational, program, administrative, and accreditation requirements?

Explanation:

Faculty teaching loads must be consistent with those of comparable faculty in other health professions in the same institution. A clinical coordinator is required if the program has six or more clinical education settings or more than 30 students enrolled in the clinical component. A minimum of one clinical instructor/supervisor must be designated at each recognized clinical education setting. The radiography student to clinical staff ratio prior to student competency achievement must be 1:1. In radiation therapy the student to clinical staff ratio must always be 1:1.

Rationale:

An adequate number of faculty promotes sound educational practices.

Compliance May Be Demonstrated by:

Describing the adequacy of the number of faculty to meet identified accreditation requirements and program needs.

Possible Site Assessment Methods:

- Review of master plan of education
- Review of program’s staffing plan
- Review of position descriptions
- Interviews with faculty
- Interviews with clinical instructor(s)/clinical supervisor(s)
- Interviews with students

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Faculty teaching loads are adequate for Mesa State College. The program director and clinical coordinator teach the majority of the didactic courses and labs. Two adjunct college clinical instructors teach the first semester clinical lab and second semester clinical course. There are two affiliate clinical instructors at each hospital in Grand Junction in addition to the first year clinical instructors. There are two affiliate clinical instructors at all the other sites. The program director and clinical coordinator are responsible for second year clinical supervision. There is adequate clinical staff to provide a 1:1 ratio while the student is working toward competency in the clinical setting. Direct supervision is continually monitored by the college clinical instructors until competency is completed.
6.4 Does the program provide support services to meet all educational, program, and administrative requirements?

Explanation:
Support services necessary to assist the program in meeting educational, program, and administrative requirements of the program must be provided.

Rationale:
Support services allow faculty to focus on academic and related organizational responsibilities.

Compliance May Be Demonstrated by:
Describing the availability and use of support services.

Possible Site Assessment Methods:
- Review of program’s staffing plan
- Interviews with faculty
- Interviews with students

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<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
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</thead>
<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
<td>X</td>
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</tbody>
</table>

The department has one administrative assistant who works for both nursing and radiologic technology. Since the nursing program is larger, the majority of her attention is to that program and to the department head. She does provide adequate support for the radiologic technology program. She is very skilled in computer applications and this has been of great benefit for creating new documents and charts. She is also responsible for maintaining the web site for the program.
6.5 Does the program provide faculty with opportunities for continued professional development?

**Explanation:**
Opportunities that enhance and advance educational, technical, and professional knowledge must be available to program faculty.

**Rationale:**
Continued development results in more knowledgeable, competent, and proficient faculty.

**Compliance May Be Demonstrated by:**
Documenting that continued professional development opportunities are available to faculty.

**Possible Site Assessment Methods:**
- Review of institutional and program policies
- Review of program budget
- Review of evidence of faculty participation in professional development activities
- Interviews with administrative personnel
- Interviews with faculty

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<tbody>
<tr>
<td>Assurance</td>
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</table>

All program faculty members obtain continuing education credits from local, state and national professional conferences and publications. The college provides a small amount of money for education for full-time faculty. We were able to obtain Carl Perkins funding to provide monies for the adjunct faculty to attend the ACERT national educational conference in February of 2005.

Additionally, the clinical coordinator and program directors are officers in the local CSRT district and have conducted biannual continuing education seminars for technologists in the region.

The program also offers continuing education to the affiliate clinical instructors with the “Health Occupations Clinical Education Series for Secondary and Post-Secondary Educators” modules.

Please see exhibit 6.5 for continuing education documentation for the program director and clinical coordinator.
Dear Bette,

This copy of your current CE record lists the credits you have earned during the report period printed above your name. Please review this report.

The ASRT records only Category A credits while you are a member. If Category A credits are missing, return this report with copies of your documentation. ASRT will update your record after reviewing your submission.

If your CE start and end date are incorrect, please inform ASRT Customer Information at (800) 444-2778 (press 5).

Yellow highlighted text below indicates today's CE activity

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ILZ0101001  A  Site Visitor Workshop Conjunct w/ Outcomes Assmt Workshop  03/20/2004  9.0

ILZ0101003  A  Outcome Assessment Workshop  03/19/2004  7.0

PCL4034010  A  AUTHOR Radiologic Technologists & Ethical Reasoning  03/01/2004  10.0

Total Category A Credits: 41.0
Total Non-Evaluated Credits: 0.0
Total Credits: 41.0

Barbara A. Whitefield
Director of Continuing Education

Dear Lynda,

This copy of your current CE record lists the credits you earned during the report period printed above your name. The ASRT records only Category A credits while you are a member. If Category A credits are missing, return this report with copies of your documentation. ASRT will update your record after reviewing your submission and mail you a new report. Check your CE record anytime at www.asrt.org, under Members Only.

Electronic transfer of your CE credits to the ARRT will automatically occur when 24 or more credits are in your ASRT CE record 60 days prior to the end of your biennium. In order for the electronic transfer to occur, your Birthdate and Social Security number in the ASRT database must match the ARRT database.

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Total Category A Credits: 24.00

Total Credits: 24.00
6.6 Are didactic and clinical faculty performance regularly evaluated to assure instructional responsibilities are performed?

**Explanation:**
The performance of didactic and clinical faculty must be regularly evaluated.

**Rationale:**
Evaluation assures instructional responsibilities are performed and provides faculty and leadership with information to assess performance. Evaluation promotes proper educational methodology and increases program effectiveness.

**Compliance May Be Demonstrated by:**
Providing samples of evaluations of didactic and clinical faculty.

**Possible Site Assessment Methods:**
- Review of faculty evaluation materials
- Interviews with administrative personnel
- Interviews with faculty
- Interviews with students

<table>
<thead>
<tr>
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</table>

All college faculty members are evaluated by the students in the fall and spring semesters. Clinical facilities and faculty are evaluated by graduating students in the spring semester. Due to computer malfunctions, there are no evaluations on Susan Hudson or Donna Slothower, college clinical instructors. Evaluations will be available for the site visitors. Please see exhibit 6.6a for samples of evaluations.

The VA medical system has its own Learners Perception Survey that the students in our program fill out on line. Exhibit 6.6b is a sample of the comments from students for the affiliate clinical instructors and staff at the VA Medical Center in Grand Junction.
1. The course syllabus/outline is clear.

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</table>

2. The course assignments are clear.

<table>
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<tbody>
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</table>

3. The grading policies/procedures/criteria for this course are clear.

<table>
<thead>
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<tbody>
<tr>
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The teaching methods and techniques used by the professor are effective.

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<tbody>
<tr>
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5. Exams or critiques reflect course emphasis.

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6. The professor is well prepared for class.

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<tbody>
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7. The professor is accessible to students during office hours and/or by appointment.

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8. The professor displays a clear understanding of this subject.

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9. The professor encourages students to ask questions and/or participate in class discussions.

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10. The professor seems interested in teaching the subject.

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11. The professor has introduced new skills, points of view, and/or knowledge.

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Total Responses: 186
Total Medians: 5.00
Course:

- The

Faculty:

- What are the most effective aspects of this course?
  - Very good explanation of concepts and principals. Very good at answering questions.
  - Formulas and understanding why they work.
  - Learning what I'm doing and understanding technique-2
  - In the beginning of class when we demonstrated different things at the atomic level by going outside and doing it—that was awesome, really helped me understand!
  - The Powerpoints are nice and everything is clearly explained.
  - Review sessions held out outside of class helped.
  - The worksheets have helped me understand the formulas better-2
- What changes would you recommend for this course?
  - Review more in class
  - The professor seems either disappointed with class performance or she has become somewhat disinterested in teaching subject matter.
  - More meetings per week; a lot of information for meeting only once/week
  - More emphasis of concepts; better math review
  - I don’t think there needs to be changes; I just need to change my study habits.
  - I would like to see more hands-on activities like when in groups we demonstrated types of x-ray interaction.
- Are the classroom/laboratory facilities conducive to learning?
  - Yes-9
    - Classroom environment is either too hot or too cold; floors are grubby
- Other:
  - I find this teacher intimidating, so unapproachable; I would like to review tests in class to better understand what I don't know.
  - Thank you for being patient and understanding
1. The course syllabus/outline is clear.

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<thead>
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2. The course assignments are clear.

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<tr>
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3. The grading policies/procedures/criteria for this course are clear.

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<tr>
<td>Strongly Disagree</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Not Observed</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Median</td>
<td>5.00</td>
<td></td>
</tr>
</tbody>
</table>

The teaching methods and techniques used by the professor are effective.

<table>
<thead>
<tr>
<th></th>
<th>N</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly Agree</td>
<td>11</td>
<td>64.71%</td>
</tr>
<tr>
<td>Agree</td>
<td>5</td>
<td>29.41%</td>
</tr>
<tr>
<td>Neither Agree nor Disagree</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Disagree</td>
<td>0</td>
<td>0.00%</td>
</tr>
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5. Exams or critiques reflect course emphasis.

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<thead>
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<tbody>
<tr>
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<td>8</td>
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<tr>
<td>Agree</td>
<td>7</td>
<td>41.18%</td>
</tr>
<tr>
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<td>1</td>
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<td>1</td>
<td>5.88%</td>
</tr>
<tr>
<td>Strongly Disagree</td>
<td>0</td>
<td>0.00%</td>
</tr>
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6. The professor is well prepared for class.

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<th>N</th>
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</thead>
<tbody>
<tr>
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<td>10</td>
<td>58.82%</td>
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<tr>
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<td>5</td>
<td>29.41%</td>
</tr>
<tr>
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<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Disagree</td>
<td>0</td>
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<tbody>
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<td>12</td>
<td>70.59%</td>
</tr>
<tr>
<td>Agree</td>
<td>5</td>
<td>29.41%</td>
</tr>
<tr>
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<td>0</td>
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8. The professor displays a clear understanding of this subject.

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<tbody>
<tr>
<td>Strongly Agree</td>
<td>11</td>
<td>64.71%</td>
</tr>
<tr>
<td>Agree</td>
<td>4</td>
<td>23.53%</td>
</tr>
<tr>
<td>Neither Agree nor Disagree</td>
<td>0</td>
<td>0.00%</td>
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<tr>
<td>Disagree</td>
<td>0</td>
<td>0.00%</td>
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10. The professor seems interested in teaching the subject.

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<thead>
<tr>
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<th>N</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly Agree</td>
<td>14</td>
<td>82.35%</td>
</tr>
<tr>
<td>Agree</td>
<td>2</td>
<td>11.76%</td>
</tr>
<tr>
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<td>0</td>
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<td>0.00%</td>
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<tr>
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<td>0.00%</td>
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<tr>
<td>Median</td>
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</tr>
</tbody>
</table>

Total Responses: 178
Median of Medians: 5.00

Instructor: Schans, Bette
Course:
- The

Faculty:
- What are the most effective aspects of this course?
  - Learning different diseases
  - Lectures and knowledge of teacher
  - Being able to talk about different pathology and learn about them made it helpful in my clinical experience
  - Quizzes and class discussion
  - Powerpoint pictures and discussion
- What changes would you recommend for this course?
  - Not so much info at one time
  - Make class a little shorter
- Are the classroom/laboratory facilities conducive to learning?
  - Yes – 3
- Other:
  - Impossible, but more time to study each section in the book.
  - Great course
### CRN: 21024
#### Course: RTEC 121, 001

**Required Section**

1. **The course syllabus/outline is clear.**

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Strongly Agree</td>
<td>13</td>
<td>72.22%</td>
</tr>
<tr>
<td>Agree</td>
<td>5</td>
<td>27.78%</td>
</tr>
<tr>
<td>Neither Agree nor Disagree</td>
<td>0</td>
<td>0.00%</td>
</tr>
<tr>
<td>Disagree</td>
<td>0</td>
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<tr>
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</tbody>
</table>

2. **The course assignments are clear.**

<table>
<thead>
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3. **The grading policies/procedures/criteria for this course are clear.**

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Strongly Agree</td>
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<td>66.67%</td>
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<tr>
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4. **The teaching methods and techniques used by the professor are effective.**

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5. **Exams or critiques reflect course emphasis.**

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</tr>
<tr>
<td>Disagree</td>
<td>1</td>
<td>5.56%</td>
</tr>
<tr>
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<td>0.00%</td>
</tr>
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<td>0</td>
<td>0.00%</td>
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<tr>
<td>Agree</td>
<td>2</td>
<td>11.11%</td>
</tr>
<tr>
<td>Neither Agree nor Disagree</td>
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<tr>
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**Total Evaluations:** 18

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<td>47</td>
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<td>0.00%</td>
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<td>0.51%</td>
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**Instructor:** Ward, Lynda

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Office of Institutional Research and Planning

**Page 2**

2/1/2005 9:56 AM
MESA STATE COLLEGE
Nursing & Radiological Sciences
Comments from Mesa State College Faculty Evaluation

Fall 2004
RTEC 121 — Patti Ward — 21024

Course:

Faculty:

- What are the most effective aspects of this course?
  - Using x-rays and bones to visualize
  - Enjoyed this class a lot.
  - Powerpoint slides with lecture-2
  - Films and discussion
- What changes would you recommend for this course?
  - Worksheets not reflected on quizzes
- Are the classroom/laboratory facilities conducive to learning?
  - Yes-5
- Other:
  - Pattie is a great teacher.
  - Thank you for being patient and understanding. I am glad that I am able to come to you for help. Thanks.
Please indicate which of the following responses best indicates your experience at this clinical site.

A = Strongly Agree
B = Agree
C = No Opinion
D = Disagree
E = Strongly Disagree

1. Assistance was provided when I requested help with exams.
   [ ] A  B  C  C  E

2. I was encouraged to follow the principles of radiation protection.
   [ ] A  B  C  D  E

3. The site provided an opportunity to improve my positioning skills.
   [ ] A  B  C  D  E

4. During a procedure evaluation, the technologist directly observed and evaluated my performance.
   [ ] A  B  C  D  E

5. The staff at this site encouraged me to follow the Professional Code of Ethics.
   [ ] A  B  C  D  E

6. The staff at this site reinforced the principles of patient care.
   [ ] A  B  C  D  E

7. I was under the direct supervision of a radiographer when I repeated radiographs.
   [ ] A  B  C  D  E

8. The staff reinforced basic principles of technique.
   [ ] A  B  C  D  E
When I left this site, I felt more confident in my

9. Technical skills
   A B C D E

10. Positioning skills
    A B C D E

11. Patient Care skills
    A B C D E

12. The orientation by staff to this site was adequate.
    A B C D E

13. The staff at this site made me feel welcome.
    A B C D E

14. This site helped me to understand the importance of quality assurance in the radiology department.
    A B C D E

Please provide a short response on to the following questions.

15. What is the most important learning experience this site provided?

   It nice to work with technologists from and - 2000 they know how is positioning much better.

16. How could your experience at this site have been improved?
Please indicate which of the following responses best indicates your experience at this clinical site.

A = Strongly Agree
B = Agree
C = No Opinion
D = Disagree
E = Strongly Disagree

1. Assistance was provided when I requested help with exams.
   A B C C E

2. I was encouraged to follow the principles of radiation protection.
   A B C D E

3. The site provided an opportunity to improve my positioning skills.
   A B C D E

4. During a procedure evaluation, the technologist directly observed and evaluated my performance.
   A B C D E

5. The staff at this site encouraged me to follow the Professional Code of Ethics.
   A B C D E

6. The staff at this site reinforced the principles of patient care.
   A B C D E

7. I was under the direct supervision of a radiographer when I repeated radiographs.
   A B C D E

8. The staff reinforced basic principles of technique.
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9. Technical skills
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11. Patient Care skills
    A B C D E

12. The orientation by staff to this site was adequate.
    A B C D E

13. The staff at this site made me feel welcome.
    A B C D E

14. This site helped me to understand the importance of quality assurance in the radiology department.
    A B C D E

Please provide a short response on to the following questions.

15. What is the most important learning experience this site provided?
    transporting patients, ER/trauma, examinations and surgery rotation

16. How could your experience at this site have been improved?
    - Orientation to site more detailed
    - Technologist involvement during procedures
    - People could be a little nicer.
Please indicate which of the following responses best indicates your experience at this clinical site.

A = Strongly Agree
B = Agree
C = No Opinion
D = Disagree
E = Strongly Disagree

1. Assistance was provided when I requested help with exams.
   A B C C E

2. I was encouraged to follow the principles of radiation protection.
   A B C D E

3. The site provided an opportunity to improve my positioning skills.
   A B C D E

4. During a procedure evaluation, the technologist directly observed and evaluated my performance.
   A B C D E

5. The staff at this site encouraged me to follow the Professional Code of Ethics.
   A B C D E

6. The staff at this site reinforced the principles of patient care.
   A B C D E

7. I was under the direct supervision of a radiographer when I repeated radiographs.
   A B C D E

8. The staff reinforced basic principles of technique.
   A B C D E
When I left this site, I felt more confident in my

9. Technical skills
   A  B  C  D  E

10. Positioning skills
    A  B  C  D  E

11. Patient Care skills
    A  B  C  D  E

12. The orientation by staff to this site was adequate.
    A  B  C  D  E

13. The staff at this site made me feel welcome.
    A  B  C  D  E

14. This site helped me to understand the importance of quality assurance in the radiology department.
    A  B  C  D  E

Please provide a short response on to the following questions.

15. What is the most important learning experience this site provided?
    Working with elderly patients.

16. How could your experience at this site have been improved?
    Excellent experience.
Grand Junction VAMC

Imaging (Radiologic/Ultrasound Tech, etc.)

Working at the Grand Junction VAMC was a wonderful experience. It was such a nurturing environment and very conducive to learning. The clinical instructors were very knowledgeable, as were the rest of the employees. I always felt comfortable asking questions, and was treated with respect. I absolutely loved working with the veterans. It was truly wonderful to be able to give something back to those men and women who've served our country. All in all, it was the best clinical experience I've had in the 2 1/2 years I've been in my radiologic technology program!

BLANK and BLANK are not only the most helpful individuals that I have ever trained with, they were working in radiology because they cared deeply for the patients.

The imaging staff I encountered were all outstanding in morale, technical expertise, and patient care. The enthusiasm they displayed while helping me learn made me feel very comfortable and confident. The quality of work expected seemed higher than other non-va clinical sites I have been to and I liked that fact.
Summary for Standard Six

1. List the major strengths of Standard Six, in order of importance.

2. List the major concerns of Standard Six, in order of importance.

3. Provide the program's plan for addressing each concern identified.

4. Describe any progress already achieved in addressing each concern.

5. Describe any constraints in implementing improvements.

Attach additional pages if necessary.

The major strength of Standard Six is the excellent and dedicated program faculty at Mesa State College.

There are no concerns for Standard Six.
Standard Seven: 

*Students*
7.1 Are the program’s and institution’s recruitment and admission practices consistent with published policies of the program and sponsoring institution?

Explanation:
In considering applicants for admission, the program must follow published policies and procedures.

Rationale:
Defined admission practices facilitate objective student selection.

Compliance May Be Demonstrated by:
Providing program and institutional admission policies and describing the implementation of these policies.

Possible Site Assessment Methods:
- Review of published program materials
- Interviews with faculty
- Interviews with students

<table>
<thead>
<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
<td>X</td>
</tr>
</tbody>
</table>

Admission practices are consistent with the published material. Our program brochure (exhibit 7.1a), our application packet (exhibit 7.1b and our web site all display the course work required, the length of the program, and the application process.

The admission process for the radiologic technology program at Mesa State College is fair and equitable to all applicants. Each is required to submit the same materials for consideration (7.1c, explanation of admission process). Please see exhibit 7.1c, the Academic Selection Tool. Based on academics, the applicants with the highest scores on the criteria form are then invited to interview. Please see exhibit 7.1d, the interview form. All interviewees are asked the same questions by a panel of five interviewers. Only the program director and clinical coordinator know the score of the admission criteria form. Selection for the applicants entering the program is determined by the answers given and the demeanor of the interviewee. This past year there were 102 applicants, 53 interviewees and 18 were selected to start the program in the fall.
Thank you for your interest in the Mesa State College Radiologic Technology Program. This is a two-year, nationally accredited program that leads to an Associate of Applied Science degree.

In addition to the required courses for the program, 16 hours of general education courses and one prerequisite course are also included in the degree.

As a radiologic technologist, you will be joining the health professional team to aid physicians with diagnosis of trauma and disease. X-rays are vital in the medical world to provide information for treatment of diseases.

Along with learning the technical and procedure skills required to produce quality radiographs, students are taught all aspects of patient care, medical and legal ethics, and radiographic pathology.

Part of your education will include clinical internships at St. Mary's Hospital, Community Hospital, the Veteran's Administrative Hospital, and the Rocky Mountain Orthopaedics Clinic in Grand Junction. Additionally, hospitals and clinics in Delta, Montrose, Glenwood and Rifle are also utilized for clinical experience.

Following graduation, you will be eligible to take the national certifying examination administered by the American Registry of Radiologic Technologists. This national certification allows you to work anywhere in the country as a registered technologist. Some states do require a separate license.

Become part of a vital team. Check out our program at Mesa State College.

EVALUATION CRITERIA:

ACT SCORES
HIGH SCHOOL AND COLLEGE GPA
HIGH SCHOOL COURSE WORK:
-SCIENCE COURSES
COLLEGE COURSEWORK

APPLICATIONS MUST BE SUBMITTED TO THE RADIOLOGIC TECHNOLOGY PROGRAM DIRECTOR BY MARCH 1 OF EACH YEAR.

R.T.(R)
REGISTERED TECHNOLOGIST
(RADIOGRAPHY)

FOR FURTHER INFORMATION PLEASE CALL (970) 248-1651 OR (970) 248-1398 OR kryan@mesastate.edu
MESA STATE COLLEGE
Radiologic Technology
Application for Admission

Full legal name ____________________________________________

Last First Middle Initial Maiden Name

Application Date ___________ Soc. Sec. No. _______ / _______ / ______ College ID No. __________

Permanent home address: __________________________________________

Present mailing address: __________________________________________
(if different from above)

Email Address: __________________________________________

Phone number with area code: (_______) __________________________

Notify the Program Director of any change in address or phone number.

High School Graduate? Yes ☐ No ☐ GED? Yes ☐ No ☐

Current college or technical school __________________________

Previous college or technical school experience (list name and year(s) attended):
1. __________________________________________________________
2. __________________________________________________________
3. __________________________________________________________

Have you previously applied to this Radiologic Technology program? Yes ☐ No ☐

If so, which year(s)? __________________________________________

On a separate sheet of paper, please explain why you wish to become a Radiologic Technologist. The explanation should be one or two paragraphs in length and handwritten in black ink.

All applicants must contact the Program Director to insure that the following items have been received by March 1:

1. ACT or SAT scores
2. High school transcripts and/or GED scores
3. Previous college transcripts
4. Transcript evaluation from the Registrar's Office, if applicable
5. Completed Radiologic Technology Program Application (including handwritten explanation)

Submit to:
Bette Schans, Ph.D., R.T. (R), Program Director
Radiologic Technology Program
Mesa State College
1100 North Avenue
Grand Junction, CO 81501
Please deliver/mail this page to the Mesa State Admissions/Records Office.

Please send ALL copies of my previous transcripts (college and high school) and ACT or SAT scores to the Mesa State Radiologic Technology Office (M151) before March 1.

(If you have previously applied to the program, please request that the Admissions/Records Office send only updated transcripts from MSC or other colleges to the Radiologic Technology Office.)

Name: ____________________________________________

Please print

Social Security Number: ____ / ____ / ____

College ID# ______________

Signature: __________________________________________

NOTE TO ADMISSIONS/RECORDS:

The following items should be delivered/mailed to the Program Director for the Radiologic Technology Program. The application deadline is March 1, however, it would be of benefit to the department to have the information as soon as possible.

Please send:
Copy of high school transcript or GED;
Copies of ALL college transcripts, including Mesa transcript;
Copy of transcript evaluations, if applicable;
Copy of ACT or SAT scores.

Thank you!
RADIOLOGIC TECHNOLOGY PROGRAM

ABOUT THE PROGRAM

The current Radiologic Technology Program at Mesa State College is two years in length and includes classroom studies and clinical experience. Most of the classroom studies are during the fall and spring semesters of the first year of the program. Completing general education or required support courses before beginning the program does not decrease the length of the program. However, it does considerably decrease the semester credit hour load that will be necessary to graduate as proposed. Upon completion of the program the student receives an Associate of Applied Science degree. All classroom studies are conducted on the Mesa State campus. Clinical experience includes rotations at several of the following clinical facilities:

- St. Mary’s Hospital and Medical Center, Grand Junction
- Community Hospital, Grand Junction
- Veterans Administration Medical Center, Grand Junction
- Delta Memorial Hospital, Delta
- Montrose Memorial Hospital, Montrose
- Valley View Hospital, Glenwood Springs
- Rocky Mountain Orthopaedics, Grand Junction
- Glenwood Medical Associates, Glenwood Springs
- Grand River Medical, Rifle

The structure of the Radiologic Technology Program requires the student to attend the eight-week summer session between the first and second year of study. In addition, sometime during the second year, an eight-week rotation in Delta, Montrose, Rifle, or Glenwood Springs is required.

Following successful completion of the Radiologic Technology Program the graduate is eligible to sit for the national registry examination administered by the American Registry of Radiologic Technologists. A passing score on this examination results in the granting of a certificate of registration that allows the privilege to use the title “Registered Technologist” and to use the abbreviation RT following the graduate’s name.

MISSION STATEMENT

The Radiologic Technology Program at Mesa State College provides a foundation for excellence in professional technologist practice. It is designed to prepare the graduate, having met national certification requirements, to practice as an entry-level radiologic technologist, promoting value-based behaviors and learning as a life-long process.
PROGRAM GOALS

Fulfillment of the program’s missions is assessed by the degree to which the program achieves the following goals:

1. Utilize knowledge gained from liberal education courses as the base for Radiologic technology education.
2. Ensure the utilization of broad-based knowledge and skills as a requisite for the competent entry-level technologist.
3. Facilitate the development of applied skills in communication, critical thinking and problem solving, and life-long learning in professional practice.
4. Facilitate the development of value-based behaviors as the foundation for professional practice.

ABOUT THE PROFESSION

The registered radiologic technologist plays an important role on the medical team by providing quality radiographs for a physician or radiologist (a physician who specializes in interpretation of diagnostic radiologic images). As a professional assistant, the radiologic technologist functions to aid in the diagnosis of various abnormalities including fractures, tumors, and malfunctioning body systems.

Responsibilities of the radiologic technologist include adjusting radiographic equipment for specific examinations, placing the patient into the correct position, making the required exposure, and processing the radiographs. In some cases, mobile radiographic equipment must be used in the emergency room, in surgery, or at the patient’s bedside. Responsibilities may also include performing quality assurance procedures, keeping records of patient radiographs and reports, ordering supplies, and maintaining radiographic and processing equipment.

The major responsibility of the radiologic technologist, however, is compassionate care of the patient. In a profession driven by technical advances, caring for the needs of the patient remains the primary objective. Compassionate care includes proficiency in communication, respecting individual rights, and maintaining safety.

MORE INFORMATION

For more information concerning the program, course requirements, and course descriptions please visit Mesa State’s website at www.mesastate.edu, click on “Academics and Majors” and select “Radiologic Technology” from the alphabetical list of links, refer to the Mesa State College catalog, or email us at kryan@mesastate.edu.
RADIOLOGIC TECHNOLOGY

DEGREE:

The Radiologic Technology program is accredited by the Joint Review Committee on Education in Radiologic Technology. Upon completion of the prescribed course of study, the graduate receives an Associate of Applied Science degree and is eligible to take the examination administered by the American Registry of Radiologic Technologists.

Applications must be received by March 1st for each academic year. Admissions are limited because of the number of clinical facilities in the area. This field of study requires a math and science background and effective communication skills. Students are selected on the basis of academic preparation, ACT scores, aptitude for service within the field, and positions available in the program. It is recommended that applicants complete high school courses in each of these areas: biology, physics, chemistry, algebra/geometry, or their college equivalent. Applicants continuing in the program must maintain a 2.0 average each semester and receive no grade lower than a “C” (2.0) in Radiologic Technology courses.

EMPLOYMENT OPPORTUNITIES:

The radiologic technologist plays an important role on the medical team. As a professional assistant, the radiologic technologist functions to aid the radiologist in the diagnosis of broken bones, ulcers, tumors, and various disease processes. A variety of career opportunities are available. A registered technologist is qualified to work in hospitals, doctor's offices, and public health facilities.

Radiologic Technology is a dynamic career with technological advances foreseen on the horizon. This field affords many opportunities for professional growth. An Associate of Applied Science degree in Radiologic Technology serves as a stepping stone for advancement into magnetic resonance imaging (MRI), computerized tomography (CT), nuclear medicine (NM), mammography (M), cardiovascular interventional technology (CIT), ultrasound imaging (US), angiography and interventional procedures, radiation oncology, and the field of education.

COUNSELING, HOUSING, FINANCIAL AID, AND SCHOLARSHIPS

Please refer to the Mesa State College website, www.mesastate.edu, or the current Mesa State College catalog, for information concerning career counseling, housing, financial aid, and scholarships.

FOR FURTHER INFORMATION:

Please consult our website at www.mesastate.edu, or Ryan at kryan@mesastate.edu, or call the department at (970) 248-1398.

SEE OTHER SIDE FOR COURSE REQUIREMENTS
COURSE REQUIREMENTS

1. Pre-requisite

BIOL 209, 209L  Human Anatomy and Physiology I & Lab  

**THIS COURSE IS A PRE-REQUISITE TO THE PROGRAM. Completion of this course is not required to apply to the program. However, acceptance into the program will be based upon successful completion of this course (successful completion means achieving a grade of “C” or higher). This course must be completed within the five years prior to entering the program.**

2. Course requirements for this degree

a. English Composition (ENGL 111 and 112)  6
b. Two Social/Behavioral Sciences/Applied Science/Humanities  6
c. Human Performance and Wellness (HPWA 100 & 1 Aerobic Activity)  2
d. MATH 113-College Algebra (or) UTEC 107-Mathematics for Technology  4

These General Education Requirements may be taken previously to or simultaneously with program courses.

3. Program Courses (a total of 57 credits)

**Fall Semester**

RTEC 114  Radiographic Clinical Experience I  2
RTEC 120  Introduction to Radiologic Tech and Patient Care  3
RTEC 121, 121L  Radiographic Anatomy and Positioning/Lab  3
RTEC 122, 122L  Principles of Exposure/Lab  3
RTEC 125  Radiologic Science  2

**Spring Semester**

RTEC 124  Radiographic Clinical Experience II  4
RTEC 131, 131L  Radiographic Anatomy and Positioning II/Lab  3
RTEC 132, 132L  Radiographic Equipment and Special Imaging/Lab  3
RTEC 135  Radiation Biology and Protection  2

**Summer Session**

RTEC 214  Radiographic Clinical Experience III  8

**Fall Semester**

RTEC 224  Radiographic Clinical Experience IV  8
RTEC 251  Radiographic Pathology  3
RTEC 255  Radiographic Assessment I  1

**Spring Semester**

RTEC 234  Radiographic Clinical Experience V  8
RTEC 261  Radiographic Review  3
RTEC 265  Radiographic Assessment II  1

**Total Hours**  75

Radiology Program Requirements must be completed in sequence and may only be taken after acceptance in the Radiologic Technology program.

4. **Special Requirements**—There is a separate application form used for admittance to the program. You may download it from www.mesastate.edu, click on “Academics and Majors” and select “Radiologic Technology” from the alphabetical list of links, or contact the Department of Nursing and Radiologic Sciences at (970) 248-1398.

Revised 4/02, 8/03, 11/03, 10/04
Common Questions & Answers about the Radiologic Technology Program  
(F.A.Q.s)

Please read all application materials and the section of the catalog that pertains to your program of interest. Many of your questions may be answered there.

Does everything have to be in to the NARS (Nursing and Radiologic Sciences) Office before the deadline?  
Yes, all college transcripts, transcript evaluation (if necessary), and program application must be in prior to the deadline.

Does Radiologic Technology have an admission fee?  
No, but the Admissions Department for the College does.

Should I take any courses prior to being accepted into the Radiologic Technology program?  
Yes, you should take the general education coursework required and the pre-requisite course of BIOL 209, 209L—Human Anatomy and Physiology and it’s Lab, This pre-requisite must be completed with a grade of “C” or better prior to beginning the program. It is to your benefit to have most, if not all, of the general education courses done prior to submitting your application.

Are there any scholarships specifically for students?  
Yes, but these are for students already in the program. The applications for scholarships awarded by the department faculty are processed during the spring semester to assist the students in paying for the next academic year. Please contact the Financial Aid Department for further aid information.

Do I have to be accepted into the College before I can be accepted into the nursing program?  
Yes.

When does the Radiologic Technology program start?  
Radiologic Technology courses begin in the fall semester. The courses are offered in sequence and must be taken in order.

How long is the Radiologic Technology program?  
The AAS program is 5 consecutive semesters of Radiologic Technology courses with generally 2 semesters of general education and pre-requisite courses. The student is typically in school 3 years, assuming they get accepted into the Radiologic Technology program the first time they apply.

How many students are accepted into the program each year?  
We accept a limited number of students into the nursing program each year. It should be noted that we ordinarily have 4-5 applicants for each available slot. We will be accepting approximately 18 students once per year.

How much does the Radiologic Technology program cost?  
Tuition and fee information can be obtained from the Admissions Department. Books cost for the first semester of the program is approximately $500 and then less in subsequent semesters. There is also the added cost of uniforms, paper, etc.

Should I apply before I ask for the transcript to be sent?  
You may turn in the application form before you ask other schools to send transcripts. As long as your file is complete before the deadline, we do not care in what order things arrive. (It is your responsibility to make sure we receive everything needed for your file before the deadline.) Contact the Registrar’s Office at www.mcesastate.edu or 248-1977 to have transfer credits evaluated for possible acceptance at Mesa State College.
Should I speak to an advisor before I sign up for classes?
While the College rules do not require you to be advised before you sign up for classes, it is a good idea to come to our office and talk to someone, rather than signing up for any class that sounds good. For those of you who are first-time Mesa State students, please contact Ryan at kryan@mesastate.edu or 248-1398 for help with registration. Radiologic Technology courses may only be taken after acceptance into the Radiologic Technology program.

Do students have to do clinical work?
Yes, there is much clinical work involved. The student will experience approximately 1300 hours of clinical education.

Can I go part time?
While you are doing your general education, you can go part time, but once you start the Radiologic Technology program, coursework is completed only on a full-time basis.

How do you choose candidates?
We look at your grade point average from any previous college courses you have taken, the coursework in high school, ACT scores, and how many of the required general education courses you have completed. The applicants with the highest scores are selected for interviews. Candidates are chosen based on the interview.

Do you use a waiting list?
No, we do not. If an applicant is turned down one year and wishes to be considered for the next year, they must reapply.

How much does a credit hour cost?
For spring of 2003, in-state tuition and fees per credit hour came to $130.25. Out-of-state tuition is higher.

Can I work while I take classes?
We do have students who are working while they take their classes. It is difficult for them and we do not recommend it for most students, but it can be done. You should consider that ordinarily you need to spend 2 hours of study and preparation for every hour of class and clinical. We recommend limiting work to less than 20 hours per week.

What classes can I take to fulfill general education requirements?
You should refer to the Graduation Requirements for the AAS degree section in the Mesa State College Catalog. The selected 100 and 200 level classes listed in this section are acceptable for fulfilling general education requirements.

Do I need my own computer?
Many courses include computer and Internet-based assignments. Having your own computer give you more freedom in completing course assignments. Computer labs are available on campus for student use. As a student, you receive free access from home to the Internet and an email address.
Associate of Applied Science (A.A.S.) Degree Requirements

A.A.S. degree programs are intended to prepare individuals to enter skilled and/or para-professional occupations or to upgrade/stabilize their employment. These programs are not intended for transfer to baccalaureate degree programs; however, certain courses may be accepted toward a baccalaureate degree at some institutions. The A.A.S. degrees available at Mesa State College, along with the courses required to complete each degree, are listed under the Programs of Study section in this catalog.

Students are urged to consult with a faculty advisor and to obtain from the advisor a program sheet for the degree sought.

1. General Education Requirements for the A.A.S. Degree include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Group</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A)</strong> 4 semester hours of Mathematics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UTEC 107 Mathematics for Technology</td>
<td>4</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>MATH 111 College Algebra</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>B)</strong> 6 semester hours of English</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ENGL 111 English Composition</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 112 English Composition</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td><strong>C)</strong> 6 semester hours selected from: Social and Behavioral Science, Humanities, and Applied Studies</td>
<td></td>
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<td>6</td>
</tr>
</tbody>
</table>

Social and Behavioral Science
- ANTH 201 Cultural Anthropology
- ANTH 222 World Prehistory
- ECON 201 Principles of Macroeconomics
- ECON 202 Principles of Microeconomics
- GEOG 103 World Regional Geography
- HIST 101, 102 Western Civilizations
- HIST 131, 132 United States History
- POLS 101 American Government
- PSYC 150 General Psychology
- PSYC 233 Human Growth and Development

Humanities
- ENGL 131, 132 World Literature I and II

Applied Studies
- SFCH 101 Interpersonal Communications
- SFCH 102 Speechmaking

2. Human Performance and Wellness Requirement

**HPWA 100** Health and Wellness
**HPWE XXX** Aerobic/Fitness Activity Course

All courses designated with an * are transferable to the A.S. and A.A. degrees.
All courses designated with an # are transferable to the B.A. and B.S. degrees.

3. The remaining requirements and electives are found under the specific program in the Programs of Study section in this catalog.

4. Additional requirements apply for some degrees. For specific requirements see the program sheet.
HPWE/DANC Aerobic/Fitness Activity Courses
HPWE 101 Beginning Swimming  
HPWE 102 Intermediate Swimming  
HPWE 104 Water Polo  
HPWE 105 Water Aerobics  
HPWE 112 Hiking  
HPWE 121 Beginning Tennis  
HPWE 122 Intermediate Tennis  
HPWE 123 Racquetball  
HPWE 124 Intermediate Racquetball  
HPWE 125 Handball  
HPWE 126 Fitness Walking  
HPWE 127 Physical Conditioning  
HPWE 128 Intermediate Weight Training  
HPWE 129 Weight Training  
HPWE 130 Fitness  
HPWE 131 Low-Impact Aerobics  
HPWE 132 High-Impact Aerobics  
HPWE 133 Downhill Skiing  
HPWE 134 Snowboarding  
HPWE 135 Telemark Skiing  
HPWE 136 Body Shaping  
HPWE 138 Step Aerobics  
HPWE 139 In-Line Skating  
HPWE 140 Snowshoeing  
HPWE 141 Mountain Biking  
HPWE 145 Wrestling  
HPWE 147 Track and Field  
HPWE 150 Adaptive Aquatics  
HPWE 151 Adaptive Physical Activity  
HPWE 153 Adaptive Aquatics II  
HPWE 156 Soccer  
HPWE 157 Adaptive Physical Activity II  
HPWE 158 Speedball  
HPWE 160 Field Hockey  
HPWE 164 Beginning Basketball  
HPWE 165 Intermediate Basketball  
HPWE 166 Flag Football  
HPWE 179 Dance Performance Group  
HPWE 180 Varsity Football  
HPWE 181 Varsity Basketball  
HPWE 182 Varsity Baseball  
HPWE 184 Varsity Tennis  
HPWE 185 Varsity Volleyball  
HPWE 186 Varsity Softball  
HPWE 187 Varsity Soccer  
HPWE 188 Varsity Golf  
HPWE 189 Varsity Cross Country  
DANC 174 Beginning Jazz Dance  
DANC 177 Beginning Tap Dance

HPWE/DANC Lifetime Activity Courses
HPWE 103 Diving  
HPWE 106 Scuba I  
HPWE 107 Scuba II  
HPWE 108 Canoeing  
HPWE 109 Kayaking  
HPWE 110 River Rafting  
HPWE 111 Rock Climbing  
HPWE 113 Beginning Bowling  
HPWE 114 Intermediate Bowling  
HPWE 115 Beginning Golf  
HPWE 116 Intermediate Golf  
HPWE 117 Badminton  
HPWE 119 Archery  
HPWE 137 Horseback Riding  
HPWE 143 Orienteering  
HPWE 149 Gymnastics  
HPWE 152 Softball  
HPWE 154 Beginning Baseball  
HPWE 155 Intermediate Baseball  
HPWE 159 Aikido  
HPWE 161 Two-Person Outdoor Volleyball  
HPWE 162 Volleyball  
HPWE 163 Intermediate Volleyball  
HPWE 167 T'ai Chi  
HPWE 168 Hatha Yoga & Relaxation I  
HPWE 169 Hatha Yoga & Relaxation II  
HPWE 172 Square Dance  
HPWE 173 Folk Dance  
HPWE 174 Social Dance  
DANC 160 Beginning Ballet  
DANC 169 Beginning Modern Dance
**Guide to Challenge Exams for Rad Tech Candidates**

This document is to aid the radiologic technology in discovering when, where and how different courses might be challenged for credit. For a more extensive list, and additional information, please go to [www.mesastate.edu](http://www.mesastate.edu) and search for CLEP.

<table>
<thead>
<tr>
<th>CLEP Subject Exam</th>
<th>Course for which Credit is Granted</th>
<th>Minimum Passing Score</th>
<th>Semester Credit Hours Allowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math College Algebra</td>
<td>MATH 113</td>
<td>50</td>
<td>4</td>
</tr>
<tr>
<td>English College Composition</td>
<td>ENGL 111</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>Humanities American History I</td>
<td>HIST 131</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>American History II</td>
<td>HIST 132</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Sciences</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to Macroeconomics I</td>
<td>ECON 201</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Macroeconomics II</td>
<td>ECON 202</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>American Government</td>
<td>POLS 101</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>Human Growth &amp; Development</td>
<td>PSYC 233</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to (General) Psychology</td>
<td>PSYC 150</td>
<td>50</td>
<td>3</td>
</tr>
</tbody>
</table>

Document revised 12/95, 10/29/03
1. All applicants are required to submit copies of ACT scores, high school transcripts and college transcripts regardless of how old they are, if they have a previous degree, or if they are right out of high school.

2. The criteria used in determining a score are the composite ACT score, the HS gpa, if they took biology, chemistry or physics in high school or college, the college gpa and what degree-required general education courses they have taken. We give separate scores for math and A &P. We also give points for the letter they submit with the application based on neatness and content. Please see the attached Academic Selection Tool.

3. Once all scores are compiled, Patti and I establish a cut-off score that indicates who are academically qualified candidates. This year the cut-off was 75 points and 52 applicants qualified for interviews based on those criteria.

4. We hold a 10 minute interview with each applicant. Prior to the applicant coming in, we read the letter submitted with the application. There are three members of the interview committee that have not seen the academic scores for the applicant so the only information they can go by is the applicant letter. The same questions are asked of all interviewees. Each committee member will write down their impressions of the answers given. Applicants are also scored on personality, appearance and communication. Please see the attached interview sheet.

5. Once all interviews are over, each name is reviewed with committee members voting yes, no or maybe to the applicant being admitted. In general, there are approximately 5 applicants that all committee members vote yes and approximately 5 that all vote no. The rest of the applicants are selected by consensus of the committee. In addition to the 18 selected to enter the program, between 4 -6 applicants are put on the alternate list.

6. All interviewees are then notified within 3 – 5 days of the interviews of the selections made.
# MESA STATE COLLEGE
Radiologic Technology Program
Academic Selection Tool

<table>
<thead>
<tr>
<th>Applicant: ___________________________</th>
<th>Student ID# ________________________</th>
<th>Date ______________</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior Application? Yes</td>
<td></td>
<td>Points Awarded</td>
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</table>

## ACT/SAT – Composite of Standard Score

### High school or GED preparation

<table>
<thead>
<tr>
<th>High school cumulative GPA</th>
<th>3.5 to 4.0</th>
<th>30 points</th>
<th>3.0 to 3.49</th>
<th>20 points</th>
<th>2.5 to 2.99</th>
<th>10 points</th>
<th>2.0 to 2.5</th>
<th>5 points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GED standard score</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>55 to 60</td>
<td>30 points</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45 to 54</td>
<td>20 points</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### High school coursework (minimum course grade-B or college credit applied with minimum course grade-C)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>5</td>
</tr>
<tr>
<td>Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>Physics</td>
<td>5</td>
</tr>
</tbody>
</table>

### College preparation

<table>
<thead>
<tr>
<th>College cumulative GPA</th>
<th>3.5 to 4.0</th>
<th>30 points</th>
<th>3.0 to 3.49</th>
<th>20 points</th>
<th>2.5 to 2.99</th>
<th>10 points</th>
<th>2.0 to 2.5</th>
<th>5 points</th>
</tr>
</thead>
<tbody>
<tr>
<td>General education</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 112</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soc Beh/Hum/Ap Studies</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soc Beh/Hum/Ap Studies</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

### GPA general education (final grade or midterm if enrolled)

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113 or UTEC 107</td>
<td></td>
</tr>
<tr>
<td>BIOL 209</td>
<td></td>
</tr>
<tr>
<td>BIOL 209L</td>
<td></td>
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</table>

### Handwritten essay

<table>
<thead>
<tr>
<th>Category</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neatness</td>
<td>0-2</td>
</tr>
<tr>
<td>Content</td>
<td>0-5</td>
</tr>
</tbody>
</table>

Total Points ________
NAME _____________________________________________ DATE ____________

1. How did you become interested in the field of radiography?

2. Describe the workday of a radiographer.

3. Tell us about yourself.

4. Describe a past challenge you’ve faced in your life. How did you overcome it?

5. What motivates you?

6. Radiographers consider themselves to be professionals. What does professionalism mean to you?

7. Any questions for us?

Personality (expression, sense of humor, attitude) 1 2 3 4 5
Appearance (cleanliness, neatness, overall impression) 1 2 3 4 5
Communication (clarity of speech, organization of thought) 1 2 3 4 5

TOTAL _______________
### 7.2 Does the program assure that student recruitment and admission practices are non-discriminatory with respect to any legally protected status such as race, color, religion, gender, age, disability, and national origin?

**Explanation:**
If statistical information such as age, race, etc., is collected, it must be done in such a way that students' right to non-discriminatory practices is not violated.

**Rationale:**
Non-discriminatory practices assure applicants have equal opportunity for admission.

**Compliance May Be Demonstrated by:**
Describing how students' right to non-discriminatory admission practices is assured.

**Possible Site Assessment Methods:**
- Review of published program materials
- Review of students records
- Interviews with faculty
- Interviews with students

<table>
<thead>
<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
<td>Yes</td>
</tr>
<tr>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The program does not collect any statistical information about the applicant of a discriminatory nature. An applicant's invitation to interview is based solely on academic scores. The majority of applicants are unknown to the selection committee (unless they were previously interviewed) until they arrive for the interview. Again, the selection from the interview is based on the person's responses to the questions and his/her demeanor during the interview.
7.3 Does the program make available to prospective students accurate information about admission policies, transfer credit, tuition and fees, refund policies, academic calendars, academic policies, graduation requirements, and student services?

**Explanation:**

The institutional and program policies must be published and distributed to program applicants.

**Rationale:**

Publication and distribution assure applicants are adequately informed.

**Compliance May Be Demonstrated by:**

Describing how program and institutional policies are made known to applicants.

**Possible Site Assessment Methods:**

- Review of institutional materials
- Review of published program materials
- Interviews with faculty
- Interviews with students

<table>
<thead>
<tr>
<th>Level of Effort</th>
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<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Institutional policies are distributed through the written catalog and are online at www.mesastate.edu. In addition to the information in the catalog, the program has an application packet describing the program and the requirements for admission. The academic calendars, tuition and class schedules are published in the course schedule published twice per year. All incoming students (freshmen) are required to attend a SOAR (Student Orientation, Advising, and Registration) program (exhibit 7.3) which tells new students about the college and helps register them for classes. New transfer students are also encouraged to attend. Transfer students are informed of requirements through the program information, in the college catalog, or at the college web site. Student services are listed on the web site for potential students to purview. The college does have an advising center for help with general education courses for the degree the student is seeking.

Both the program director and clinical coordinator receive numerous phone calls, emails and visits from students interested in the program. Once the person has declared a pre-major, they are assigned an advisor from the program.
Confirmation Form to tell us that their plans are taking them elsewhere. The Confirmation Form also requests that a $50 deposit be submitted towards tuition. The deposit can be waived in cases of extreme hardship by making a formal written request and submitting it with the Confirmation Form. The deposit is refundable if requested and submitted in writing to the Admissions Office, Director of Admissions, prior to the start of class for the semester for which the student had planned to enroll. Deposit will be refunded provided the student has also withdrawn from any courses for which they had also registered.

**Student Orientation, Advising and Registration (SOAR)**

All new degree-seeking incoming freshmen are required to attend a SOAR (Student Orientation, Advising and Registration) program in order to register for their first semester courses. Although not required, new degree-seeking transfer students are strongly encouraged to attend as well. Information regarding SOAR will be mailed to students after notification of acceptance. SOAR information may also be found on the website. Students must be admitted in order to attend SOAR. For further information, students may call the SOAR hotline at (970) 248-1405.

In general, first-time freshmen take the Accuplacer Assessment, a self-paced, adaptive, computerized placement assessment designed to provide additional information about the student’s academic levels in English, mathematics and reading. Results are used for course placement. Through, the SOAR registration process, students are notified if they need to take Accuplacer. Please contact the Testing and Assessment Center at (970) 255-2650 for further Accuplacer information.

**Admission Procedures by Student Classifications**

Specific admission procedures for high school students, GED certificate students, home school students, transfer students, non-traditional students, and other student classifications are as follows:

**High School Students**

1. Obtain and complete an application for admission to Mesa State College or apply online at www.mesastate.edu.
2. Request that a high school counselor complete and sign the high school information section of the application.
3. Submit the completed application along with a non-refundable $30 application fee.
4. Request that the high school counselor forward official transcripts directly to the Mesa State College Admissions Office. Mesa State College requires a final high school transcript showing a graduation date.
5. Take either the American College Test (ACT) or Scholastic Aptitude Test (SAT) and have the results sent directly to Mesa State College.

**General Educational Development (GED) Certificate Students**

1. Obtain and complete an application for admission to Mesa State College.
2. Submit the application along with a non-refundable $30 application fee.
3. Submit a copy of the GED test scores.
4. Take the American College Test (ACT) or Scholastic Aptitude Test (SAT) and have the results sent directly to Mesa State College. (Students who are 23 years of age or older are not required to submit ACT or SAT scores.)

Applicants who successfully complete the GED with a minimum score of 450 and appropriate ACT or SAT test scores may be admitted to Mesa State College. Admission to particular programs is contingent on meeting specific admission requirements for those programs.

**Home Schooled Students**

1. Obtain and complete an application for admission to Mesa State College.
2. Submit the application and non-refundable $30 application fee.
3. Submit copies of all nationally standardized test results (achievement tests), if available.
4. Provide outline or transcript evaluation form, available in the Admissions Office, of all courses taken at the high school level. Students may also submit a portfolio to describe their high school education. Please submit transcripts of any courses taken at a traditional high school.
5. Take either the American College Test (ACT) or Scholastic Aptitude Test (SAT) and have the results sent directly to Mesa State College.

**Non-Traditional Students**

Students who are 23 years of age or older when applying for admission are not required to submit an ACT or SAT score for admission. However, if the student did complete the ACT or SAT, we can utilize that score even if the test was not completed in recent years. Students who do not complete the ACT or SAT will be considered for admission to a 2-year associate degree program.

If the ACT or SAT is more than three years old, or no ACT or SAT is submitted, the student will be required to complete the Accuplacer assessment for math placement and English placement. Accuplacer is administered by the Testing and Assessment Center.
7.4 Does the program make available to enrolled students accurate information about admission policies, transfer credit, tuition and fees, refund policies, academic calendars, academic policies, grading policies, graduation requirements, and student services?

**Explanation:**
The institutional and program policies must be published and distributed to students enrolled in the program. Policy changes must be made known to students in a timely fashion.

**Rationale:**
Making information available to enrolled students assures that they are adequately informed.

**Compliance May Be Demonstrated by:**
Describing how program and institutional policies are made known to enrolled students.

**Possible Site Assessment Methods:**
- Review of institutional materials
- Review of published program materials
- Interviews with faculty
- Interviews with students

<table>
<thead>
<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yes</td>
</tr>
</tbody>
</table>

Institutional policies are distributed through the written catalog (exhibit 7.4a) and are found on the student handbook CD (in the master plan of education notebook) or online at www.mesastate.edu. In addition to the information in the catalog, the program has a student handbook listing all program policies (exhibit 1.1). Students are required to read the program handbook and submit signed acknowledgment that they agree to the policies stated (exhibit 7.4b). The academic calendars, tuition and class schedules are published in the course schedule published twice per year. Student services are listed on the web site for enrolled students to purview.
EXPENSES AT MESA STATE COLLEGE

Mesa State College reserves the right to adjust any and all charges, including fees, tuition, and room and board, at any time deemed necessary by the Trustees.

**Determination of Residence Status for Tuition Purposes**

Residency for tuition classification in the State of Colorado is governed by Sections 23-7-101 to 104 and 23-7-105 of the Colorado Revised Statutes. Mesa State College must apply the rules set forth in the Residency Statute, and is not free to make exceptions except as specifically permitted under the Statute. Although an individual may be considered a state resident for voting and other legal purposes after being in the state for a short period of time, the tuition law specifies additional requirements for classification as "in-state" for tuition purposes. The Colorado Commission on Higher Education (CCHE) has prepared an information brochure that is available via the World Wide Web at www.state.co.us/cche_dir/he che.html.

Initially, the Admissions Office classifies all new students as in-state or out-of-state residents for tuition purposes based on information provided on an admission application. New students who feel their classification is incorrect must submit the Petition for In-State Tuition Classification and supporting documentation in order to have their status changed.

Continuing Mesa State students who feel they have met residency requirements under Colorado Statute must also submit the Petition for In-State Tuition Classification with supporting documentation; a change in classification is not automatic. Petitions and supporting documentation must be submitted to the Admissions and Enrollment Management Office, Attention Tuition Classification Officer, Mesa State College, 1100 North Avenue, Grand Junction, CO 81501-3122 according to the following deadlines:

<table>
<thead>
<tr>
<th>PETITION DEADLINES</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMESTER</td>
</tr>
<tr>
<td>Summer 2004 Session</td>
</tr>
<tr>
<td>Fall 2004 Semester</td>
</tr>
<tr>
<td>Spring 2005 Semester</td>
</tr>
<tr>
<td>Summer 2005 Session</td>
</tr>
</tbody>
</table>

* Qualifying Cut-off Date: The date by which the 12-month physical presence period must have expired in order to possibly be classified in-state for the specified term. The 12-month period begins after a student has completed their move to the State of Colorado and has severed ties to their previous state of legal domicile, not merely when a student arrives in Colorado.

** Petition Deadline: The Tuition Classification Officer in the Admissions and Enrollment Management Office must receive fully completed petitions by this date in order to be considered for the semester in question. Petitions received after this date will not be considered for the semester in question. Because a 12-month physical presence period must be proven, petitions will not be reviewed prior to the "No Earlier Than" date listed above.

According to Colorado Statute, individuals at least 22 years of age are eligible to establish domicile in Colorado. Physical presence and intent must be established for 12 months prior to the first day of class for the semester in which an individual will meet the requirements of the law no sooner than his/her 23rd birthday. The domicile of an individual determines residency for any student prior to the age of 23 (22 years of age if the student first matriculated at a college or university prior to September 1, 1996), unless the student can establish that he/she is emancipated.

- Emancipation may be established if a student is married, financially independent, or is a single parent. To prove emancipation, then the student must complete the Petition for In-State Tuition Classification and submitting supporting documentation when requested.
- If a student has not yet reached the age of 23 and is not emancipated (or has turned 23 within the past 12 months and was not previously emancipated), the parent or court appointed legal guardian of the student must complete the Petition for In-State Residency Classification and attach their supporting documentation when requested.

- If a student has a court appointed legal guardian, the guardian must attach: 1) a copy of the court decree or letters of guardianship, whichever is appropriate; 2) a statement from the court that the parents, if living, do not provide support to the minor child; and 3) a statement from the court that appointed guardianship which certifies that the primary purpose of such appointment is not to qualify the student as a resident for tuition purposes.

- Should circumstances change that would affect the tuition status requested by a Petition for In-State Residency Classification, a student must notify the Tuition Classification Officer in writing within 15 days after such change.

**Residency Appeals**

If you do not agree with the decision of tuition classification as provided to you after review of a petition, you may appeal the decision. Appeals must be made in writing and directed to the Tuition Classification Officer no later than 15 days from the date the denial decision letter was mailed to the student. The decision of the Residency Appeals Committee is the final College determination. For further residency-related questions, you may reach the Tuition Classification Officer at (970) 248-1458.

**Tuition and Fees**

Tuition and fees for the 2004-2005 academic year had not been determined when this catalog was printed. Students are invited to write for the most current rates, available in June each year. The following schedule reflects rates for 2003-2004.

### Tuition and Fee Schedule

<table>
<thead>
<tr>
<th></th>
<th>Semester</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Full-Time Students, Regular Undergraduate</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colorado Residents (enrolled in 10 or more hours)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuition</td>
<td>$927.70</td>
<td>$1,855.40</td>
</tr>
<tr>
<td>General Purpose Student Fees</td>
<td>330.00</td>
<td>660.00</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$1,257.70</td>
<td>$2,515.40</td>
</tr>
<tr>
<td>Non-Colorado Residents (enrolled in 10 or more hours)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuition</td>
<td>$3,754.00</td>
<td>$7,508.00</td>
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<tr>
<td>General Purpose Student Fees</td>
<td>330.00</td>
<td>660.00</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$4,084.00</td>
<td>$8,168.00</td>
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<tr>
<td><strong>Part-Time Students, Regular Undergraduate</strong></td>
<td></td>
<td></td>
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<tr>
<td>Colorado Residents (enrolled in 9 or fewer hours)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuition per credit hour</td>
<td>$92.77</td>
<td></td>
</tr>
<tr>
<td>*General Purpose Student Fees</td>
<td>37.53</td>
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<tr>
<td>TOTAL PER CREDIT HOUR</td>
<td>$130.30</td>
<td></td>
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<tr>
<td>Non-Colorado Residents (enrolled in 9 or fewer hours)</td>
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<td></td>
</tr>
<tr>
<td>Tuition per credit hour</td>
<td>$375.40</td>
<td></td>
</tr>
<tr>
<td>*General Purpose Student Fees</td>
<td>37.53</td>
<td></td>
</tr>
<tr>
<td>TOTAL PER CREDIT HOUR</td>
<td>$412.93</td>
<td></td>
</tr>
<tr>
<td><strong>Graduate Level Students</strong></td>
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<tr>
<td>Colorado Residents</td>
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<td></td>
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<tr>
<td>Tuition per credit hour</td>
<td>$115.44</td>
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</tr>
<tr>
<td>*General Purpose Student Fees</td>
<td>37.53</td>
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<tr>
<td>TOTAL PER CREDIT HOUR</td>
<td>$152.97</td>
<td></td>
</tr>
<tr>
<td>Non-Colorado Residents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuition per credit hour</td>
<td>$412.78</td>
<td></td>
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<tr>
<td>*Student Services Fees</td>
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<tr>
<td>TOTAL PER CREDIT HOUR</td>
<td>$450.31</td>
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</tbody>
</table>
Financial aid at Mesa State College consists of a balanced program of self help, scholarships, and grants-in-aid awarded for outstanding academic achievement or outstanding performance in special skill areas including vocational skills, athletics, drama, music, etc. Mesa State College also participates in federal and state programs of grants, loans, and student employment, the awarding of which is based primarily on need as determined by a needs analysis system approved by the federal government. The application used to determine need is the Free Application for Federal Student Aid.

Financial aid awards that are based on the needs analysis system consider family resources as the primary source of funding for education, with federal and state sources considered secondary and supplemental. Because prospective students always apply for more financial aid than there is money available, the following priority order is used:

1. The student, as the beneficiary of the educational experience, is the next most responsible person for payment of educational expenses.
2. The last resort is federal and state financial aid programs. There has never been enough funding to assist all needy students. Therefore, students should make every effort to obtain assistance at one of the three levels listed above.

Accurate and timely information from the student and parents to the Financial Aid office is the responsibility of the student. Failure on the part of the student to supply all required information on the application may result in reduction or total loss of aid.

Tuition Payment Plan
Mesa State College provides a payment program designed to meet the specific needs of students and parents. Annual tuition, fees and institutional room and board can be paid in ten monthly installments, beginning July 1 and ending April 1. There is an annual non-refundable application fee, due at the time of enrollment. Contact the Office of Financial Aid for more information.

Colorado Student-Aid Programs
Available to full-time, half-time and part-time students with priority given to full-time students.
1. Colorado Grants - Grants are awarded to Colorado resident students on the basis of documented financial need. Financial aid packages which include Colorado Grants may not exceed the documented financial need of the student.
2. Colorado Work-Study - The Work-Study program is designed to provide employment on campus for students with documented need and who meet the residency requirement for tuition purposes.
3. Colorado Leveraging Education Assistance Program (CLEAP) - This is a program wherein a portion of the grant to a student is provided by the State of Colorado and the other portion by the federal government. Awards are made only to Colorado resident students with need.
4. Diversity Grant - Available to resident, full-time undergraduate students with financial need who are members of an underrepresented population at Mesa State College.
5. Colorado Graduate Grants (CGG) - Grants are awarded to Colorado resident students enrolled in a graduate program based on financial need.
6. Governor's Opportunity Scholarship Program - Scholarships offered to Colorado resident students who otherwise could not pursue a college degree due to financial reasons.
7. Supplemental Leveraging Educational Assistance Program - This is a program wherein a portion of the grant to a student is provided by the State of Colorado and the other portion by the Federal government. Awards are made only to Colorado residents seeking a teaching degree. Priority is given to students with documented need and who are completing their internship.

Mesa State College Foundation Programs
The Mesa State College Foundation is a non-profit organization governed by a Board of Directors. The board is comprised of talented and successful business and community leaders who recognize the College's pivotal role in the future of our state and wish to aid deserving students at Mesa State College. This group, which functions independently of the College, raises funds for scholarships, student loans, and a variety of programs that enhance opportunities provided by the College. In addition, the Foundation serves as a receiving and distribution agency for many established scholarships available to the students at Mesa State.
1. Private Scholarships - In addition to institutional scholarships, many scholarships and awards have been established by students of the College by individuals and organizations who recognize the importance of Mesa State to the community.
and have a connection to the College. The amounts of the awards vary, but all are designed to apply toward tuition and fees. Contact the Foundation at (970) 248-1295 for additional information.

2. Student Loans — Students may borrow emergency short-term loan funds provided by the Mesa State College Foundation to help meet obligations due to unforeseen situations. By definition, short-term loans are repayable within 90 days or by the end of the semester, whichever comes first. Inquire at the Financial Aid Office for applications and additional information.

Scholarships

Scholarships represent an effort by the state of Colorado and Mesa State College to recognize resident and non-resident students for outstanding achievement in academic and talent areas. The awards will vary. Need is not a factor in determining recipients. However, students who receive scholarships are also encouraged to submit a financial aid application. For more detailed information on scholarships, please call the Admissions Office at (970) 248-1875.

Non-Resident Scholarship

In an effort to encourage outstanding students from states other than Colorado to attend Mesa State College, a non-resident scholarship valued from $500-$3000 may be available to students who have achieved a cumulative minimum grade point average of at least 3.2. Students will be required to live in Mesa State College housing in order to qualify for one of these awards unless permission is granted to live off campus by the Director of Housing and Residence Life.

The grade point average achieved while in high school will be used to determine eligibility if the applicant is a first time college student. If the applicant is a transfer student, the cumulative grade point average of all college hours completed will be used to determine eligibility. After the first semester, eligibility is determined by MSC cumulative grade point average.

Western Undergraduate Exchange (WUE)

Western Undergraduate Exchange is a program which allows students from 13 western states to attend Mesa State College at a reduced tuition rate. Students who are residents from the states of Alaska, Arizona, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington and Wyoming may apply for the award; acceptance into this highly competitive program is not automatic. To be considered for this award, students must:

- Be admitted to the College as a new freshman or transfer degree-seeking student in a certificate, associate, or baccalaureate program;
- Complete a Mesa State College New Student Scholarship Application indicating your desire to be considered for WUE and attach a copy of your current state driver’s license;
- Register in a minimum of 12 credit hours each consecutive fall and spring semester;
- Maintain a minimum 2.5 cumulative Mesa State College GPA each semester, excluding the summer session; and
- Complete the WUE re-application process through the Admissions Office prior to each fall semester.

WUE is granted to students starting classes at Mesa State College with the fall semesters; spring starts are ineligible. WUE is not available to students during the summer session. Time accrued while receiving the WUE award will not contribute toward the length of time required for establishing Colorado residency status. For more information, please contact the Admissions Office at (970) 248-1458.

Federal Student-Aid Programs

1. Federal Pell Grant Program — This is a grant program available to needy students enrolling in an eligible institution of post-secondary education. Application forms are available from high schools or the financial aid office at any eligible post-secondary institution. The student applies by completing a Free Application for Federal Student Aid (FAFSA) and submitting it to an approved analysis agency. The information is electronically provided to the college. The Pell Grant Program is the base program for financial aid at Mesa State College.

2. College Based Programs — Mesa State College participates in many other federal student-aid programs. These include the (1) Federal Perkins Loan Program, (2) Federal Supplemental Educational Opportunity Grant Program, (3) Federal College Work Study Program, and (4) Federal Family Educational Loan Program (formerly the Guaranteed Student Loan Program) consisting of the Federal Stafford Student Loan Program, the Unsubsidized Federal Stafford Student Loan Program, and the Federal Parent Loan for Undergraduate Students (PLUS). Details concerning these programs may be obtained from the Financial Aid office.

General Guidelines

Financial need for educational expenses is an essential requirement to qualify for assistance from most programs. Students who must have financial aid in order to secure a college education are encouraged to contact the Financial Aid Office of the College for necessary information and application forms. Both full-time and less than full-time students will receive consideration.
STUDENT SERVICES

Mesa State College has an environment that encourages and allows students to develop socially as well as educationally. Learning is not confined to the classroom and the library. Student Services provides quality opportunities for students to increase skills and competencies in academic and vocational areas as well as areas related to developing and improving self-understanding, interpersonal relations, realistic decision-making, value clarification abilities, and the establishment of life goals.

Academic Services Department
(Main office located at Houston Hall 110, 248-1392)

The Academic Services Department (ASD) houses a variety of programs that are designed to assist students in their academic endeavors. The ASD programs and services are located in various offices and buildings around campus. The addresses and telephone numbers for these offices can be found in the following descriptions of the services:

College Success Courses (Houston Hall 110, 248-1913 and 248-1144)
College Preparatory Reading (SUPP 090) – This course is designed to assist the student in his or her quest to get the most out of college-level reading.
Introduction to Higher Education (SUPP 101) – This class introduces students to the resources of Mesa State College and helps them understand the academic skills essential to succeed in college. For more information about either of these college success courses, stop by the Academic Services office at Houston Hall 110 or call 248-1913.

Educational Access Services (1020 Elm Avenue, 248-1801 or 248-1826)
Support services for students with documented disabilities are available through Educational Access Services, a division of Academic Services. Several services are available, depending upon the documented disability. Services can include but are not limited to volunteer note takers, monitored testing, and taped textbooks (eight weeks notice required). Prospective students are encouraged to contact the office of the Coordinator of Educational Access Services to discuss special needs.

Peer Tutoring Program (Houston Hall 110, 248-1392)
The Peer Tutoring Program provides tutoring in a group setting for students who need extra help in a course that is difficult for them. Qualified tutors, recommended by faculty, are trained to work with groups of students in a particular course or general subject area. Tutors sometimes operate open study sessions (i.e., math, chemistry) where students can attend as often as they wish. These sessions are available at various times and locations throughout the semester.
Math Lab is an open study area operated by special peer tutors who have backgrounds in various levels of mathematics. This is a walk-in location that is open to all MSC students; appointments are not necessary. The Math Lab is generally open all day and during select hours in the evening, during each semester. The Math Lab is located at 1325 College Place. For information, call 248-1392.

Mentors and study skills tutors are available to work one-to-one with students on specific study strategies. For more information call 248-1878.

Theory and Practice of Peer Tutoring (SUPP 201). This course trains peer tutors for international tutor certification by the College Reading and Learning Association. For more information call 248-1878.

Testing and Assessment (UTEC Campus, 2508 Blichmann Avenue, 255-2750)
The Testing and Assessment Center services include, but are not limited to, examinations required for admission to graduate and professional schools, examinations for proficiency and certification in nursing and teaching, and the credit by examination program. Assessment of academic skills in college level English and mathematics are provided through the Testing and Assessment Center for potential students, as well as those who have already been admitted.

Advising and Career Center (Lowell Heiny Hall 127, 248-1177)
The Advising and Career Center is here to assist students and alumni in attaining their career and educational goals. In addition, the Center assists employers in implementing their recruitment strategies and Mesa State faculty and staff with needs that may arise for them, as well as providing information for parents. The Center is located at 1319 North 12th Street in Lowell Heiny Hall, Room 127. Office hours are Monday through Friday, 8:00 am to 5:00 pm.
The following services are free of charge to students and alumni. We encourage you to take advantage of all services offered.
• Academic Advising
  o New incoming freshman students
  o Non-degree seeking students
Each spring the Advising and Career Center hosts a career fair featuring over 60 employers. The "Showcase 2004" Career Fair is scheduled for March 10, 2004. Additional details may be found on the Advising and Career Center web site. An annual teacher education fair co-hosted with Adams State College and Western State College is offered each spring. As information about the fair becomes available, it will be posted to the Advising and Career Center Web Site at www.mesastate.edu/slavacc. Advising and Career Center actively invites selected companies to visit Mesa State to conduct campus recruiting. Information regarding companies scheduled to recruit on campus will be advertised with posters, flyers, and class announcements.

Counseling Services
- Counseling services are contracted by PsycHealth Associates, P.C. located at 2004 N. 12th Street, Suite 47, telephone number (970) 241-6500.
- All students paying student fees are eligible for six free counseling sessions per academic year.
- Referrals are made through the office of Student Affairs and Enrollment Management, the Advising and Career Center, the Housing and Resident Life office and/or students may contact PsycHealth directly for an appointment.
- All sessions are confidential and students dealing with personal problems affecting their academic life are encouraged to talk with a professional counselor.

Alcohol/Drug Education (AWARE Program)
- Counseling services, in partnership with PsycHealth Center, provides alcohol and drug education presentations for staff, faculty and students. The AWARE program staff is available to make presentations to student groups, classes, and faculty or departments, on topics related to substance abuse.

Welcome Week
New students to Mesa State may participate in one of the welcome week programs offered at the beginning of fall and spring semester. The program is designed to introduce new students to the campus, fellow classmates, and the College’s programs and facilities. Parents of graduating high school students are encouraged to attend the orientation program. Upon acceptance to Mesa State College, students will receive further details of the welcome week being held for them. For more information contact the Student Activities Office.

Faculty Advisors
Faculty Advisors provide academic advising to students that have started classes or are transferring in with more than 24 semester hours. Each major is associated with one of the following schools: School of Applied Technology, School of Humanities and Social Sciences, School of Natural Sciences and Math, or the School of Business and Professional Studies. The secretary for each school is available to aid students in filling out the proper paperwork. (Refer to the Program Index of this catalog to identify major and school.)

- Students who know their major may obtain a faculty advisor in the associated school.
- Students who have limited their major choices to a specific area may request a faculty advisor with the associated school.
- Students who need assistance with advising or choosing a major may use the Advising and Career Center.

Faculty advisors provide the student with a program sheet which details the requirements of the degree or certificate program that student is working toward. The student should work closely with the faculty advisor throughout enrollment at...
Mesa State, updating the program sheet each semester. Working with a faculty advisor will assist in the process of degree completion, but the student is solely responsible for meeting degree requirements.

**Non-Traditional Students**

Potential Mesa State College students who do not fit the traditional college student mode – those who have been away from school three or more years, or are older than the "typical" college student, or are employed full or part time, or are married, or a single parent, or who have other non-typical life circumstances – may wish to investigate taking evening courses through our non-traditional student program known as Mesa@Night. For more information, contact our staff at (970) 248-1916.

**John U. Tomlinson Library**

The John U. Tomlinson Library supports the educational mission of the College by providing a diverse collection of materials for use by the students and faculty.

The library collection contains over 300,000 items, which includes books, periodicals, nonprint materials, maps, newspapers, audio and visual media, software and other items. More than 50 on-line databases are available through the Library's web pages. The library is a selected depository for federal government documents and also contains special collections in the areas of western Colorado history and other subjects.

Services provided by the library include reference and information desk assistance, group study rooms, photocopy and microform machines, and library instruction to classes. The Media Center provides instruction materials consultation, equipment distribution, and media production services to students and faculty.

Access to the collection is through the on-line catalog, which is composed of the holdings of the Tomlinson Library, and includes holdings in other libraries throughout Colorado and the United States. Should materials not be available locally, the Interlibrary Loan Department and Prospector Program obtains needed materials for students and faculty from other libraries. Library and informational resources are available via the web at www.mesastate.edu/library.

**Writing Center**

Students can improve their writing skills through one-on-one assistance from the staff of the Writing Center. For further information, contact the Writing Center at 248-1831 or Dr. William Wright at 248-1101.

**Little Mavericks Learning Center**

Childcare is available for children of Mesa State College students. The age limit is 1 year and walking up to 5 years. For further information, contact the Center Director at (970) 248-1318.

**Student Activities**

Many student clubs and organizations exist at Mesa State College. Student clubs include professional and academic clubs as well as social clubs. Currently Mesa State College has over 50 active clubs on campus including club sports, religious clubs, and support groups, which allow students to meet other students who share similar interests. A list of current active clubs and organizations can be viewed on the Mesa State College web site, are listed in the Student Handbook, or available at the College Center Information Desk.

There are also a number of student fee funded organizations that are administered by Mesa State students including the following:

- **Associated Student Government (ASG):** ASG is the representative body and official voice of the students. The ASG operates through the General Assembly, a legislative body composed of students elected by the student body. Students involved in ASG have an opportunity to gain leadership skills by representing student opinions to the Mesa State administration and the College's Board of Trustees, and they are responsible for reviewing and administering student fee requests.

- **Mesa State Activities Council (MSAC):** MSAC is responsible for organizing entertainment activities including concerts, films, speakers, and dances. Events have included musicians, comedians, hypnotists, and speakers.

- **Fine Arts Organizations:** All Mesa State students are encouraged to audition to join a musical group, participate in theatre or be part of a dance performance. Performances in the arts are highly regarded at Mesa State and are well attended by students and the community.

- **Media Organizations:** These organizations include the student newspaper *The Criterion*, the student radio station KMSA 91.3 FM, the literary and art publication *Literary Review*, and *The Journal of the Western Slope*. Each of these groups is professionally advised by faculty members and utilizes the latest equipment employed in their fields.

- **Outdoor Program:** This student group organizes trips and classes including whitewater rafting, rock climbing, and skiing. The rental center, located in the College Center, rents mountain bikes, canoes, kayaks, cross-country skis, backpacks and other gear.
Emergency Care Center at Community Hospital. Immediate emergency help should be obtained by dialing 911.

The Student Health Center provides a source of basic medical assistance for the student who is away from home. Outpatient health services are provided for registered fee-paying students who have a valid student I.D. card regardless of the number of credit hours carried or insurance status. Students are required to pay a $5.00 co-pay for all services received at the Student Health Center. The primary services provided are: first aid, dispensing of simple medications, assessment and referral to specialty physicians and dentists, providing counsel for personal health problems, simple physicals, and limited lab tests for a nominal fee.

Services include a full-time registered nurse, with a part-time physician and practitioner providing a complement of health care, Monday-Friday. The physician/practitioner provides students with an initial health assessment and evaluation, treats minor illnesses, and refers students for hospitalization or specialized treatment as needed. A registered nurse is available to answer questions and provide medical information. The Student Health Center is a contracted service with an off-campus provider. The Center is located within easy walking distance at 1060 Orchard Avenue, Suite O. The telephone number is (970) 256-6345.

For emergency illnesses or accidents which occur after the Center’s hours, or on weekends, students should report to the Emergency Care Center at Community Hospital. Immediate emergency help should be obtained by dialing 911.

Cultural Diversity Board (CDB): This student organization offers leadership experiences for students and organizes programs to educate students regarding multicultural concerns and issues. Member groups include the Black Student Alliances (BSA), the Native American Council, the International Student Union, M.E.Ch.A., Ho‘Olokahi, and PRIDE.

Campus Recreation Services

Campus Recreation Services is established to provide varied programs and services that will contribute to the health and well being of the students of Mesa State College. It is our mission to educate participants in the responsible use of leisure time by providing an atmosphere that fosters the development of lifelong patterns of recreational activities and opportunities for participation in such activities regardless of age, sex, race, or motor ability. To do so, we develop and maintain facilities and resources designed to provide appropriate environments for our participants. This mission is realized by:

- Offering structured competitive and social opportunities in a variety of individual and team sports (Intramural Sports Program and Club Sports). Intramural sports include flag football, softball, volleyball, basketball, indoor and outdoor soccer, ultimate Frisbee, disc golf, badminton, tennis, racquetball, and swimming. Club sports include cycling, rodeo, rugby, and track.
- Providing access to recreation facilities, equipment, and activities for convenient, informal participation (Open Recreation Program). These facilities include a multi-sport gymnasium, cardio machines, weight training circuit machines, a free weight room, indoor track, racquetball courts, climbing wall, and swimming pool.
- Offering structured and non-structured opportunities for improving and maintaining physical fitness (Fitness/Wellness Program). These opportunities include aerobics classes, a fitness club, fitness assessments, and exercise program prescription.
- Offering students significant opportunities for career development, including the acquisition of leadership, management, and technical skills in all areas of Campus Recreation Services (Student Employment Program).

It is our hope that you will take advantage of the many recreational opportunities that are available to you. Any suggestions as to how we can better serve the students of Mesa State College are encouraged and welcome.

The College Center

The W.W. Campbell College Center, located on the Mesa State College campus, is dedicated to serving the campus community. We are a facility that provides a wide variety of programs and services in a learning environment that promotes the open exchange of thoughts and ideas, celebrates diversity and fosters community. The staff of the College Center, both student and professional, is dedicated to providing quality customer service to our students, faculty, staff, alumni and guests.

The College Center houses the Bookstore, Johnson art gallery, Outdoor Program, student government offices, MAVCard office, KMSA - radio station, Criterion - school paper, Game Room, Bookcliff Cafe, Information Desk, Dining Hall, student lounges, Student Health Center, Wells Fargo Customer Service branch, and meeting rooms. The Game Room includes pool tables, electronic darts, foosball, and general student computers to be used to check e-mail or access the internet between classes. Lifff Auditorium is the location of many of the entertainment programs organized by the student-run Activities Council.

Student organizations may arrange for the use of the College Center meeting room facilities with the College Center Conference Coordinator, 248-1414.

Student Health Center

Good health, both physical and emotional, is an important factor in successful college work. It is the goal of the Mesa State College Student Health Center to provide competent, accessible medical care. Similar to the family physician, the Student Health Center provides a source of basic medical assistance for the student who is away from home.

Outpatient health services are provided for registered fee-paying students who have a valid student I.D. card regardless of the number of credit hours carried or insurance status. Students are required to pay a $5.00 co-pay for all services received at the Student Health Center. The primary services provided are: first aid, dispensing of simple medications, assessment and referral to specialty physicians and dentists, providing counsel for personal health problems, simple physicals, and limited lab tests for a nominal fee.

Services include a full-time registered nurse, with a part-time physician and practitioner providing a complement of health care, Monday-Friday. The physician/practitioner provides students with an initial health assessment and evaluation, treats minor illnesses, and refers students for hospitalization or specialized treatment as needed. A registered nurse is available to answer questions and provide medical information. The Student Health Center is a contracted service with an off-campus provider. The Center is located within easy walking distance at 1060 Orchard Avenue, Suite O. The telephone number is (970) 256-6345.

For emergency illnesses or accidents which occur after the Center’s hours, or on weekends, students should report to the Emergency Care Center at Community Hospital. Immediate emergency help should be obtained by dialing 911.
Emergency Contact Services

The Office of Student Affairs and Enrollment Management, located in LHH 109, is the referral point for emergencies encountered by students. Issues such as messaging for emergencies while a student is in class are determined on a case-by-case basis. It is important to note that the office cannot guarantee a contact with any student due to their highly mobile behavior, but a good faith effort will be made. This service is not for non-emergency situations. The telephone number is (970) 248-1366.

MAVCard Student I.D.

The Mesa State MAVCard is your key to campus services at Mesa State College. The MAVcard can be used at Tomlinson Library, the student recreation center, the dining hall, Bookcliff Café, campus student photocopy machines, vending machines, and for access to residence halls and athletic events. The MAVcard can also be linked to a free Wells Fargo® checking account, with a customer service branch right on campus.

Campus Parking

Students and College staff members who wish to park on campus may purchase parking permits for designated areas. A parking permit does not guarantee a parking space, but permits on-campus parking when such space is available.
The faculty of the Radiologic Technology Program welcomes you to Mesa State College. The educational program in which you are enrolled will require a great deal of effort and commitment from you as you seek to achieve your goal of becoming an excellent radiographer. The material in this booklet is designed to help you understand the guidelines required concerning your conduct in the program.

The faculty is available to help you achieve this goal. They can help by answering questions or assisting you in addressing problems directly related to your academic pursuit.

WELCOME TO THE MESA STATE COLLEGE
RADIOLOGIC TECHNOLOGY PROGRAM

I have read and understand the Mesa State College Radiologic Technology Program policies as stated in this Student Handbook. I agree to adhere to the policies that are stated in the Handbook.

[Signature]
Student Signature

[Date]
10-2-03
Date
Faculty of the Radiologic Technology Program welcome you. The material in this handbook will help you understand the guidelines and expectations for professional conduct while in the program. This educational program will require a great deal of effort and commitment from you as you seek to achieve your goal of becoming an excellent radiographer.

Faculty are available to help you achieve this goal. They can help by answering questions or assisting you in addressing problems directly related to your academic pursuit.

WELCOME TO THE MESA STATE COLLEGE
RADIOLOGIC TECHNOLOGY PROGRAM!

I have read and understood the Mesa State College Radiologic Technology Program policies as stated in this student handbook. I agree to adhere to the policies stated in the handbook.

[Signature]  [Date]
Student Signature  October 2004
7.5 Are enrolled students provided timely and supportive academic, behavioral, and clinical advisement?

Explanation:
Student advisement should be both formative and summative.

Rationale:
Appropriate advisement promotes student achievement.

Compliance May Be Demonstrated by:
- Describing procedures for advisement.
- Providing sample records of student advisement.

Possible Site Assessment Methods:
- Review of students records
- Interviews with faculty
- Interviews with students

Level of Effort | Attach Additional Pages If Necessary | Has Program Met Objective? (for site visitor use only)
---|---|---
Assurance | Narrative | Yes | No
X | X |  

Academic advising is commonly carried out on an informal basis. If a student has difficulty understanding the material, informal review sessions are held by all faculty members. If the student continues to struggle, more formal sessions are held to determine the reason (exhibit 7.5a). Tutoring or attending test anxiety classes are recommended for the student. If a student is failing, he/she knows about it long before the end of the semester.

In terms of behavioral advisement, again most advising is handled on an informal basis. If the situation worsens, the student is given a verbal warning, then a written warning, and then a contract is established between the student and the program. If behavioral issues stem from psychological reasons, the student is advised to make an appointment for counseling services that are offered through the college (exhibit 7.5b).

Advisement of clinical issues again starts with the clinical instructor speaking with the student and marking the student down on the biweekly evaluation of behavior, attitudes and ethics. If behavior problems continue, the student meets with the clinical coordinator and/or the program director and is warned about the consequences of continued bad behavior. If the problems continue, a contract is established between the student and the program. Any further violations result in suspension or dismissal from the program (7.5c).
MESA STATE COLLEGE  
Nursing and Radiologic Sciences  
Radiologic Technology Program  

First Year Student – Midterm Conference  

Student: (redacted)  
Date: 10-26-2000  Patti Ward  

Midterm Class Averages:  
Radiologic Technology I  73.6  
Radiologic Technology I Lab  72  
Radiologic Principles I  (redacted)  
Radiologic Principles I Lab  (redacted)  
Radiologic Science  82.5  

Academic Assessment:  
and I discussed her failing grades. This is the second time we have talked. She is saying the same thing - that she needs to get a new job and be able to spend more time studying. Again, I offered tutoring, but time seems to be the issue rather than lack of ability.  

Clinical Experience Assessment:  (redacted)  

Student Concerns:  
She feels she has adjusted to the clinical environment, although the first few weeks were difficult.  

Instructor Concerns:  
I am concerned with her level of anxiety, lack of sleep, and poor performance.
Counseling Services

Our award-winning Counseling Services Program at Mesa State College is one of only a handful of counseling programs of this type in the nation. The Student Assistance Program (SAP) was formed based on the belief that a cost-effective approach to providing comprehensive counseling services was necessary.

What is a SAP?

The business community has utilized the Employee Assistance Programs (EAP) for the past two decades. The goals of EAP's are to provide information, resources, assessment and short-term counseling in order for employees to become better equipped to deal with those personal problems that may be impacting their work performance. Our SAP is based upon that model. Referrals are made by staff located in the Advising & Career Center located in the Lowell Heiny Hall, Room 127. Upon the mutual agreement of the student and the counselor, a referral is made to a counselor with an off-campus provider, PsychHealth Associates, P.C.

How many sessions do I get?

Every enrolled Mesa State College student, assessed to be appropriate for this brief-therapy model, is entitled to six (6) hours of counseling with a master's level counselor, per academic year. If the need arises for a student to see a psychologist, one hour of that professional's time equals two hours with a master's trained professional. Two group sessions equal one hour with a master's trained professional.

What is an academic year?

The college year begins on July 1 and ends on June 30 of the next calendar year. Eligibility must be established every academic year, and unused hours cannot be used in succeeding academic years.

About PsychHealth

Located two blocks from campus, PsychHealth Associates, P.C., 2004 N. 12th, 241-8500, is a group of mental health professionals, in private practice. Once a student becomes eligible for referral, she/he will be asked to sign a referral agreement, and will then be given the name and phone number of a counselor at PsychHealth. The student calls the counselor to arrange the initial appointment. Additional counseling, beyond the 6-hours provided by MSC, may, at the discretion of the PsychHealth Counselor, be arranged on a sliding fee basis.
Behavioral Expectations

1. Shadow a technologists to see how they treat patients and family members.
   A. Practice direction and terminology.
   B. Try to control your nervousness.
2. Answer questions with short, concise answers.
3. Treat patient and family with respect.
4. Use yes and no answers as much as possible.
5. DO NOT use hip phrases to talk with patients.

Susan,

Here is a copy of what I gave him. We talked and I told him we would check on this weekly. I explained that this would make him an exceptional tech rather than just an so-so tech.

Thanks,
Dena

P.S. If you see Patty would you give her the other copy.
Evaluation of Professional Behavior, Ethics, & Attitudes for Clinical Experience Rotations

Student: ______________________ Date: 2-11 to 3-20 Grade: ____________

Clinical Site/Room: __________ Room __________ Evaluator: ____________

The clinical instructor uses the following index to evaluate student behavior, ethics, and attitudes based on observation.

1. **INVOLVEMENT**: Commitment and active participation in assigned task.
   The student:
   - *Is available, actively participates, and completes each task. (10)
   - *Is available; but moderately participates or occasionally fails to complete task. (9)
   - *Requires prompting to remain available; and moderately participates or occasionally fails to complete task. (7)
   - *Is unavailable, does not participate, or fails to complete task. (0-5)

2. **SELF-CONFIDENCE**: Assurance in oneself and in one's powers and abilities.
   The student appears:
   - *Relaxed and free from uncertainty. (10)
   - *Relaxed and occasionally anxious. (9)
   - *Tense and moderately anxious. (7)
   - *Tense and highly anxious. (0-5)

3. **INITIATIVE**: Willingness to learn, motivation, and self-governance.
   The student:
   - *Independently seeks tasks, offers assistance, and utilizes time. (10)
   - *Independently seeks tasks; but occasionally does not offer assistance or utilize time. (9)
   - *Must be prompted to seek tasks, offer assistance, or utilize time. (7)
   - *Does not seek tasks, may not offer assistance, or does not utilize time. (0-5)

4. **ACCOUNTABILITY**: Ability to assume responsibility for professional growth and accept ownership for own actions.
   The student:
   - *Encourages evaluation and correction and is responsible for own actions. (10)
   - *Accepts evaluation and correction and is responsible for own actions. (9)
   - *Argues with evaluation and correction or holds others responsible for failure. (7)
   - *Argues with evaluation and correction and holds others responsible for failure. (0-5)

5. **ADAPTABILITY**: Ability to adjust to a new environment or changing condition.
   The student:
   - *Independently adapts to a new task. (10)
   - *Requires occasional reinforcement and support in order to adapt to a new task. (9)
   - *Requires reinforcement and support in order to adapt to a new task. (7)
   - *Does not adapt to a new task. (0-5)
6. **COMMUNICATION**: Process of interaction and exchange of information with the customer (patient, physician, supervisor, technologist, personnel and involved non-personnel).
   The student:
   - *Demonstrates respect, diplomacy, and consideration; is able to convey information plainly; and focuses on customer while performing task. (10)
   - *Demonstrates respect, diplomacy, and consideration; but occasionally is unable to convey information plainly, or focuses primarily on task or own behavior. (9)
   - *Demonstrates respect, diplomacy, and consideration; and occasionally is unable to convey information plainly; and focuses primarily on task or own behavior. (7)
   - *Demonstrates lack of respect, diplomacy, or consideration; or is unable to convey information, or focuses entirely on task or own behavior. (0-5)

7. **TEAMWORK**: Willingness and ability to work with others for the common good of the task.
   The student:
   - *Is cooperative and is an encourager of others in a common effort. (10)
   - *Is cooperative and is an active participant in a common effort. (9)
   - *Is cooperative, but not an active participant in a common effort. (7)
   - *Is uncooperative or hinders a common effort. (0-5)

8. **JUDGMENT**: Ability to evaluate a situation utilizing discernment, comparison, and principles.
   The student:
   - *Independently seeks assistance when uncertain; is able to apply reasoning and logic to task. (10)
   - *Independently seeks assistance when uncertain; occasionally requires prompting in order to apply reasoning and logic to the task. (9)
   - *Independently seeks assistance when uncertain; requires prompting in order to apply reasoning and logic to task. (7)
   - *Proceeds with task when uncertain or does not apply reasoning and logic to task. (0-5)

9. **PERSONAL APPEARANCE**: Personal grooming, cleanliness, and adherence to the dress code.
   The student:
   - *Presents a professional image; is well groomed and clean; and in adherence to the dress code. (10)
   - *Presents a professional image; is well groomed and clean; but is not in adherence with the dress code. (7)
   - *Presents an unprofessional image; is not properly groomed, clean, or in adherence with the dress code. (0-5)

10. **ATTENDANCE/PUNCTUALITY**: Current attendance and punctuality.
    The student is:
    - *On time and in assigned area. (10)
    - *On time, but not in assigned area. (9)
    - *Tardy (less than 1 hour). (5)
    - *Absent with notification to clinical site and clinical instructor. (2)
    - *Absent without notification to clinical site and clinical instructor. (-6) and an additional 5% off the final grade for the course.

Comments: [Students' comments are not visible in the image.]

**Subtotal Points**

| Days Tardy: | 0 |
| Days Absent: | 0 |

Each tardy over one results in an additional -5 points

Each absence over one results in an additional -8 points

**Total Points**
02-11-04

I spoke with     today about an incident reported to me by Bette Schans.

confirmed that on Wednesday, February 10 he left an ER patient in the Traumex room alone, on a cart with the rails down. He stated that the technologist left him to perform the procedure, but he did not return to check his images. Therefore, left the area to “quickly” get the images checked.

I asked     to think about other choices he could have made that would have insured patient safety. He suggested he could have called the department or waited for someone to return.

was aware that the department was very busy and his primary concern seemed to be that his images were reviewed. After some discussion, I indicated to     that there is always the option to return the patient to ER and then get the images checked.

     understands that patient safety is the first priority. He is aware that this incident is being noted in his permanent record and that any further concerns would jeopardize him being able to continue in the clinical setting.

Patti Ward

\[Signature\]
APPENDIX F

MESA STATE COLLEGE
Nursing and Radiologic Sciences
Radiologic Technology Program

Evaluation of Professional Behavior, Ethics, & Attitudes for Clinical Experience Rotations

Student: __________________________ Date: 3-9 3-19 Grade: ___

Clinical Site/Room: ______________ Evaluator: ________________________

The clinical instructor uses the following index to evaluate student behavior, ethics, and attitudes based on observation.

1. **INVOLVEMENT**: Commitment and active participation in assigned task.
   The student:
   - *(Is available, actively participates, and completes each task. (10)
   - *(Is available; but moderately participates or occasionally fails to complete task. (9)
   - *(Requires prompting to remain available; and moderately participates or occasionally fails to complete task. (7)
   - *(Is unavailable, does not participate, or fails to complete task. (0-5)
   
2. **SELF-CONFIDENCE**: Assurance in oneself and in one’s powers and abilities.
   The student appears:
   - *(Relaxed and free from uncertainty. (10)
   - *(Relaxed and occasionally anxious. (9)
   - *(Tense and moderately anxious. (7)
   - *(Tense and highly anxious. (0-5)
   
3. **INITIATIVE**: Willingness to learn, motivation, and self-governance.
   The student:
   - *(Independently seeks tasks, offers assistance, and utilizes time. (10)
   - *(Independently seeks tasks; but occasionally does not offer assistance or utilize time. (9)
   - *(Must be prompted to seek tasks, offer assistance, or utilize time. (7)
   - *(Does not seek tasks, may not offer assistance, or does not utilize time. (0-5)
   
4. **ACCOUNTABILITY**: Ability to assume responsibility for professional growth and accept ownership for own actions.
   The student:
   - *(Encourages evaluation and correction and is responsible for own actions. (10)
   - *(Accepts evaluation and correction and is responsible for own actions. (9)
   - *(Argues with evaluation and correction or holds others responsible for failure. (7)
   - *(Argues with evaluation and correction and holds others responsible for failure. (0-5)
   
5. **ADAPTABILITY**: Ability to adjust to a new environment or changing condition.
   The student:
   - *(Independently adapts to a new task. (10)
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   - *(Requires reinforcement and support in order to adapt to a new task. (7)
   - *(Does not adapt to a new task. (0-5)
6. **COMMUNICATION**: Process of interaction and exchange of information with the customer (patient, physician, supervisor, technologist, personnel and involved non-personnel).
   The student:
   - *Demonstrates respect, diplomacy, and consideration; is able to convey information plainly; and focuses on customer while performing task. (10)
   - *Demonstrates respect, diplomacy, and consideration; but occasionally is unable to convey information plainly, or focuses primarily on task or own behavior. (9)
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   The student:
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    - *On time and in assigned area. (10)
    - *On time, but not in assigned area. (9)
    - *Tardy (less than 1 hour). (5)
    - *Absent with notification to clinical site and clinical instructor. (2)
    - *Absent without notification to clinical site and clinical instructor. (-6) and an additional 5% off the final grade for the course.

Comments: No patient left unattended. Being absent from class or assignments in class.

Subtotal Points

<table>
<thead>
<tr>
<th>Days Tardy:</th>
<th>Days Absent:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each tardy over one results in an additional -5 points</td>
<td>Each absence over one results in an additional -8 points</td>
</tr>
</tbody>
</table>

Total Points
TO: 

FROM: Bette Schans, PhD, RTR

DATE: March 29, 2004

RE: Necessary Standard of Performance as a Radiologic Technology Student to Continue in the Program

Over the past month, there have been serious breaches of student performance noted by Susan Hudson with regard to specific incidences. The first incident in which you were involved was leaving a patient with chest pain unattended in the trauma room with the side rails down on the cart in order to find Susan in the radiology department to approve your films (constituting negligence as discussed in RTEC 114 and RTEC 120).

The second incident involves a breach of confidentiality on your part by taking patient information home with you instead of recording the necessary information on your examination log and discarding the patient information at the hospital. See the Radiologic Technology Student Handbook page 21.

Additionally, you have not been coming to clinical prepared with the necessary paperwork for procedure and image evaluations. You stated that you had lost your attendance sheet which is an important document for clinical grade. You were also instructed by Susan to bring the patient information cards along with your clinical notebook to Donna Slothower on Friday, March 26, 2004. You failed to do this.

Consequently, Patti Ward and I have reached a decision regarding your continuing in the clinical setting and continuing in the radiologic technology program. The following is an agreement on your part to continue your education in this program.
Contract
March 29, 2004

CONTRACT

1. All patient information slips will be returned to Susan on Wednesday morning, March 31, 2004, along with your completed patient examination log. You will also bring in your clinical notebook with all required documents kept in orderly fashion. If you do not bring the patient slips, you will be dismissed from clinical for the week and given an unexcused absence which will affect your grade in clinical.

2. If there are any further infractions of this serious a nature, you will be dismissed from the program.

I agree to the above statements.

Date
3/29/04

Date
3/29/04

Bette Schans, PhD, RTR
Program Director
7.6 Does the program assure that student academic and clinical activities are educationally valid and support attainment of student learning outcomes?

Explanation:
Student activities must be supported by objectives consistent with the program's stated outcomes. If students participate in clinical education during evenings and weekends, the program must have a plan for such assignments that includes objectives correlated with an assessment tool. Activities that have minimal educational value must be limited in scope.

Rationale:
Requiring educational validity for student activities assures that there is a meaningful plan for student education and prevents the use of students as replacements for employees.

Compliance May Be Demonstrated by:
Describing how academic and clinical activities support the attainment of student learning outcomes.

Possible Site Assessment Methods:
- Review of published program materials
- Review of student assignment records
- Interviews with faculty
- Interviews with clinical instructor(s)/clinical supervisor(s)
- Interviews with clinical staff
- Interviews with students

<table>
<thead>
<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective? (for site visitor use only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td></td>
<td>Yes No</td>
</tr>
</tbody>
</table>

Each course has separate objectives but all courses are sequenced to help the students utilize the principles from one course to the next advanced course. Didactic coursework is demonstrated in labs with some courses. In particular, RTEC 121 and 131 are the positioning courses that have an accompanying lab. In the lab, the students practice positioning and are given procedure exams to prove competency there. Once the student has proven competency in the lab, they will be able to do the same procedures at the clinical site and be evaluated there. Please see the competency flow chart (7.6a), the procedure observation documentation (7.6b), and the procedure checklist (7.7c). RTEC 114 is an introduction to clinical practice and includes 7 weeks in the laboratory reviewing aspects of clinical work such as patient care, body mechanics, vital signs and patient transfer. The students then complete the semester with 9 weeks of clinical education feeling better prepared to enter the clinical setting than they would have if starting clinical the first week.

The program does have one evening clinical trauma rotation that gives the students an opportunity to complete the objectives and competencies of trauma work. While trauma work is not limited to evenings only, this gives the students more opportunity to participate in more trauma exams than during the daytime. All second year students complete this rotation.
A COMPETENCY BASED CLINICAL EDUCATIONAL SYSTEM FOR RADIOGRAPHY

ANATOMY and POSITIONING LECTURE

RADIOGRAPHIC LABORATORY

RADIOGRAPHIC PROCEDURES

DEMONSTRATION  PRACTICE  EVALUATION - Simulated Procedure

FAIL  PASS

CLINICAL EXPERIENCE

DIRECT SUPERVISION

Supervised Procedure

Practice

FAIL  PASS

CLINICAL EXPERIENCE

INDIRECT SUPERVISION

EVALUATION  PRACTICE  INTRODUCTION

RADIOGRAPHIC IMAGE
FIRST YEAR
CLINICAL EVALUATION

Passed Unit of Study in Lab

Radiographic Procedure Evaluations

Room and Equipment Check-Offs

Patient Care Procedure Check-Offs

Bi-Weekly Affective Evaluation

Film Critique Evaluation

Completed Unit of Study in Lab

Cumulative Scores for Clinical Performance

Practice

Fail

Pass

Evaluation

Student Requests Evaluation

Radiographic Image Evaluation
Clinical Positioning Procedure Observations

In the clinical setting, for a given examination, the student must be under the direct supervision of a registered technologist until each of the following has been accomplished:

1. **In the lab** the student must pass the randomly selected simulated positioning procedure for each unit of study.

2. **In the clinical setting** the student must be observed performing an acceptable procedure for each of the listed procedures.
   a. When the student is ready, they may request any registered radiologic technologist to observe them perform an examination.
   b. This procedure is Pass/Fail. No grade is issued.
      
      **FAIL:** If the technologist makes an adjustment that they believe would have prevented a repeat radiograph, the student is considered to have failed the procedure. They must repeat it later.
      
      **PASS:** If the technologist believes the procedure will result in an acceptable examination, the student is considered to have passed the procedure.
   c. At the time of the observation, the technologist will sign and date the form to indicate a satisfactory examination has been observed and performed by the student. A signed exam indicates the student may now (if they choose) perform that particular procedure on a patient with indirect supervision.
   d. The student may hand in the films from this observation for an image evaluation, or the student may use the examination as a procedure evaluation.
      
      However, remember only a **clinical instructor** can grade a procedure evaluation. The student cannot hand in both an image evaluation and a procedure evaluation on the same examination.
   e. If a student has not had the opportunity to perform a particular examination, a mock procedure will be done with the clinical instructor at the end of the second year.

**Direct Supervision:** The actions of the student are fully supervised by a registered radiologic technologist.

**Indirect Supervision:** A registered radiologic technologist is immediately available (adjacent to the location of the student) to provide assistance.
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abdomen-Supine &amp; Erect</td>
<td>6/4/03</td>
</tr>
<tr>
<td>Abdomen-Decubitus</td>
<td>6/3/03</td>
</tr>
<tr>
<td>Facial Bones</td>
<td>6/2/03</td>
</tr>
<tr>
<td>Knee</td>
<td>6/1/03</td>
</tr>
<tr>
<td>Thoracic Spine</td>
<td>5/30/03</td>
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<tr>
<td>Ankle</td>
<td>5/20/03</td>
</tr>
<tr>
<td>Femur</td>
<td>5/10/03</td>
</tr>
<tr>
<td>Lower Leg</td>
<td>5/7/03</td>
</tr>
<tr>
<td>Thumb</td>
<td>5/1/03</td>
</tr>
<tr>
<td>Barium Enema</td>
<td>4/12/03</td>
</tr>
<tr>
<td>Finger</td>
<td>4/12/03</td>
</tr>
<tr>
<td>Lumbar Spine</td>
<td>4/28/03</td>
</tr>
<tr>
<td>Toe</td>
<td>4/28/03</td>
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<td>Cervical Spine</td>
<td>4/18/03</td>
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<tr>
<td>Foot</td>
<td>4/12/03</td>
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<tr>
<td>MRI Orbits</td>
<td>4/12/03</td>
</tr>
<tr>
<td>Upper GI</td>
<td>4/12/03</td>
</tr>
<tr>
<td>Chest-Routine 2-View</td>
<td>4/11/03</td>
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<tr>
<td>Forearm</td>
<td>4/12/03</td>
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<td>Nasal Bones</td>
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<td>Wrist</td>
<td>4/12/03</td>
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<tr>
<td>Chest-age 6 or younger</td>
<td>4/12/03</td>
</tr>
<tr>
<td>Hand</td>
<td>4/12/03</td>
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<tr>
<td>Fatella</td>
<td>4/12/03</td>
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<tr>
<td>Trauma Extremity</td>
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<tr>
<td>Chest-Wheelchair CMC</td>
<td>4/25/03</td>
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<tr>
<td>Hip</td>
<td>4/12/03</td>
</tr>
<tr>
<td>Pelvic</td>
<td>4/12/03</td>
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<tr>
<td>Portable Abdominal</td>
<td>4/12/03</td>
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<tr>
<td>Clavicle</td>
<td>4/12/03</td>
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<td>Hip-Trauma</td>
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<td>1/4/03</td>
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<td>Portable Chest-CMC</td>
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<td>Elbow</td>
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<tr>
<td>IVF-Stone</td>
<td>1/2/03</td>
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<tr>
<td>Sinuses</td>
<td>1/2/03</td>
</tr>
<tr>
<td>Portable Orthopedics</td>
<td>1/30/03</td>
</tr>
</tbody>
</table>

*The signature of a registered technologist indicates the technologist believes the observed procedure will result in an acceptable radiograph.*

Please Sign and Date

Name of Student: **Brooke Thompson**

Clinical Positioning Procedure Observations
INTRODUCTION

AMERICAN REGISTRY OF RADIOLOGIC TECHNOLOGISTS

RADIOGRAPHY

CLINICAL COMPETENCY REQUIREMENTS

There are core clinical competencies that all individuals must demonstrate to establish eligibility for ARRT certification. These requirements are in addition to graduation from an educational program accredited by a mechanism acceptable to the ARRT. The requirements listed are the minimum core clinical competencies necessary to establish eligibility for participation in the ARRT Radiography Examination.

Students must demonstrate competency in all 39 mandatory Radiological Procedures. At least 35 of the 39 mandatory competencies must be demonstrated on patients (not phantoms or simulated). Students must demonstrate competency in at least 10 of the 23 elective Radiological Procedures. Electives may be demonstrated on patients or phantoms, or as simulations.

ARRT recommends that educational programs include a mechanism of continuing and terminal competency evaluations to assure that students maintain proficiency during the course of the program. To meet this recommendation, students will record all exams performed during the eight, four-week diagnostic rotations. Limited studies may not be used for image or procedure evaluation.

There are several pages in this manual which are to be used to record all exams performed on a daily basis within the four-week period of diagnostic rotations. The instructor may ask for these records at any time during the rotation. The instructor will select three films and the student will select two from the exams recorded for image evaluations.

Each list will be reviewed at the end of the four-week rotation. There must also be a summary sheet attached that has been verified by the instructor. This information will be placed in the student’s file at the end of the clinical experience.
**RADIOLOGICAL PROCEDURE COMPETENCY RECORD**
RTEC 214, 224, 234

<table>
<thead>
<tr>
<th>SPINE AND PELVIS</th>
<th>Mandatory</th>
<th>Elective</th>
<th>Date Completed</th>
<th>Patient or Simulated</th>
<th>Verified by</th>
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<tr>
<td>Cervical Spine</td>
<td>X</td>
<td></td>
<td>4-19-04</td>
<td>Patient</td>
<td>PW</td>
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<tr>
<td>Trauma C Spine with cross table lat</td>
<td>X</td>
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<td>1-26-04</td>
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<tr>
<td>Pelvis with unilateral hip</td>
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<td>9-3-03</td>
<td>Patient</td>
<td>PW</td>
</tr>
<tr>
<td>Pelvis with bilateral hip</td>
<td>X</td>
<td></td>
<td>1-20-04</td>
<td>Patient</td>
<td>PW</td>
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<tr>
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<td>X</td>
<td></td>
<td>5-5-04</td>
<td>Patient or Simulated</td>
<td>PW</td>
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<tr>
<td>Scoliosis Series</td>
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<tr>
<td>Sacrum and/or Coccyx</td>
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<td>10-16-03</td>
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<td>PW</td>
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<tr>
<td>Sacroiliac Joints</td>
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</table>

<table>
<thead>
<tr>
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<td>Abdomen, Supine and Upright</td>
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<td>Upper GI. Series</td>
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<td>Small Bowel Series</td>
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<table>
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<tr>
<th>MOBILE</th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Mobile Chest</td>
<td>X</td>
<td></td>
<td>9-20-03</td>
<td>Patient</td>
<td>PW</td>
</tr>
<tr>
<td>Mobile Abdomen</td>
<td>X</td>
<td></td>
<td>1-24-03</td>
<td>Patient</td>
<td>PW</td>
</tr>
<tr>
<td>Mobile Orthopedics</td>
<td>X</td>
<td></td>
<td>9-29-03</td>
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<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>C-Arm Procedure (Surgical)</td>
<td>X</td>
<td></td>
<td>9-24-04</td>
<td>Patient</td>
<td>PW</td>
</tr>
<tr>
<td>Operative Cholangiography</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Retrograde Urography</td>
<td>X</td>
<td></td>
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</tr>
</tbody>
</table>

*The college clinical instructor must verify the record after examining the procedure evaluation and recording the grade in the grade book.*
# RADIOLOGICAL PROCEDURE COMPETENCY RECORD

**RTEC 214, 224, 234**

**NAME**

## SPINE AND PELVIS

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Mandatory</th>
<th>Elective</th>
<th>Date Completed</th>
<th>Patient or Simulated</th>
<th>Verified by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cervical Spine</td>
<td>X</td>
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<td>9-19-04</td>
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<tr>
<td>Trauma C Spine with cross table lat</td>
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<td>1-24-04</td>
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</tr>
<tr>
<td>Thoracic Spine</td>
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</tr>
<tr>
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<td>8-27-03</td>
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</tr>
<tr>
<td>Pelvis with unilateral hip</td>
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</tr>
<tr>
<td>Pelvis with bilateral hip</td>
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<td>1-20-03</td>
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<td>PW</td>
</tr>
<tr>
<td>Trauma Hip with cross table lat.</td>
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<td></td>
<td>5-5-04</td>
<td>IVCE</td>
<td>PW</td>
</tr>
<tr>
<td>Scoliosis Series</td>
<td>X</td>
<td></td>
<td>7-17-03</td>
<td>Patient</td>
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</tr>
<tr>
<td>Sacrum and/or Coccyx</td>
<td>X</td>
<td></td>
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<td>Sacroiliac Joints</td>
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<td>4-5-04</td>
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## ABDOMEN AND GI TRACT

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Mandatory</th>
<th>Elective</th>
<th>Date Completed</th>
<th>Patient or Simulated</th>
<th>Verified by</th>
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<tbody>
<tr>
<td>Esophagram</td>
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</tr>
<tr>
<td>Abdomen, Supine and Upright</td>
<td>X</td>
<td></td>
<td>3-31-01</td>
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<td>PW</td>
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<tr>
<td>Abdomen, decubitus</td>
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<td></td>
<td>4-5-01</td>
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<tr>
<td>Upper GI Series</td>
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<td></td>
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<tr>
<td>Small Bowel Series</td>
<td>X</td>
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<td>1-20-04</td>
<td>Patient</td>
<td></td>
</tr>
<tr>
<td>Barium Enema (single or double)</td>
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<td></td>
<td>9-17-03</td>
<td>Patient</td>
<td>AMT</td>
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## OTHER

<table>
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<tr>
<th>Procedure</th>
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<th>Elective</th>
<th>Date Completed</th>
<th>Patient or Simulated</th>
<th>Verified by</th>
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</thead>
<tbody>
<tr>
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<td>10-07-03</td>
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</tr>
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<td>Myelography</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Cystourethrography</td>
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<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Digital Fluoroscopy</td>
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<td>X</td>
<td>7-14-03</td>
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<td></td>
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<tr>
<td>Digital Radiography</td>
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<td>X</td>
<td>6-2-01</td>
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## MOBILE

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<thead>
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<th>Mandatory</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Mobile Chest</td>
<td>X</td>
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<td>Patient</td>
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<tr>
<td>Mobile Abdomen</td>
<td>X</td>
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<td>Patient</td>
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</tr>
<tr>
<td>Mobile Orthopedics</td>
<td>X</td>
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<td>9-27-03</td>
<td>Patient</td>
<td></td>
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</table>

## SURGICAL

<table>
<thead>
<tr>
<th>Procedure</th>
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<tbody>
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<tr>
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<tr>
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<td>X</td>
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</tbody>
</table>

*The college clinical instructor must verify the record after examining the procedure evaluation and recording the grade in the grade book.*
7.7 Does the program assure the health and safety of students associated with educational activities through implemented policies and procedures in regard to workplace hazards, harassment, communicable diseases, and substance abuse?

**Explanation:**

Policies and procedures should meet federal and/or state requirements as applicable. Enrolled students must be informed of policies and procedures.

**Rationale:**

Appropriate policies and procedures assure that students are aware of and protected from workplace hazards, harassment, communicable disease, and substance abuse.

**Compliance May Be Demonstrated by:**

Providing program policies that safeguard the health and safety of students.

**Possible Site Assessment Methods:**

- Review of published program materials
- Review of student records
- Interviews with faculty
- Interviews with students

<table>
<thead>
<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective? (for site visitor use only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
<td>X</td>
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<tr>
<td></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No</td>
</tr>
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</table>

Issues of workplace hazards, communicable disease and substance abuse are addressed, in part, in the student handbook (exhibit 7.7a). The college also addresses substance abuse in the catalog; and harassment the student handbook (exhibit 7.7b). Signs are posted in every building regarding the drug free workplace. Material safety data sheets of the chemistry used in the lab are posted on the wall in the darkroom. Students go through an orientation at the clinical sites which includes all safety issues at the facility (7.7c).

Safety issues and policies are introduced in RTEC 114. Items such as universal precautions, hand washing, infection control, HIV/Hepatitis and AIDS are reviewed and tested on in the clinical lab. Workplace safety and harassment issues are also discussed in RTEC 114. The class time just prior to starting clinical rotations is spent at the hospitals in orientation sessions where HIPAA, safety issues and MRI safety are reviewed. Journaling in the clinical setting is required and the first journal entry is a review of the safety and hazards of the clinical site where the students are placed.
VII. CLINICAL EXPERIENCE

A. Student Accountability
   Unlike most formal educational settings, the student in a clinical facility is accountable for working well with others and responsible for direct patient care. It is vital that the student understands the value of honesty, the necessity of critical thinking, and the need to self-regulate behavior.

   During clinical experience, the student will be directly responsible to the supervisory technologist and/or clinical instructor at the assigned facility. The student should be present during the entire clinical experience shift. Personal appointments should not interfere with clinical experience time. The student must present proof of course registration to the supervisory technologist and/or clinical instructor on the first clinical day of the semester. The student not registered for the clinical course cannot be in the clinical setting.

   While in the clinical setting, the student encounters ill and debilitated patients. Therefore, it is critical to the patient's well being that exposure to communicable disease be kept to a minimum. The student with any communicable disease may not be in the clinical environment. The program director or clinical coordinator may remove the student from a clinical facility if they suspect they have a communicable disease. In order to confirm or deny a disease process, appropriate diagnostic testing may be required.

   The student technologist must meet the same level of physical ability that is required of a radiologic technologist. Again, it is essential that there is no compromise in patient care. The student must notify the program director of any apparatus, medication, or surgical procedure that results in impairment (physical or mental) or necessitates physical restrictions.

B. Attendance
   The student will observe the Mesa State College calendar. The student will not be present in the clinical facility during breaks observed by the college.

   The student is expected to be on time to an assigned clinical rotation. The student who is often late or is frequently absent may be considered for withdrawal from the program. **The student will notify the program director when an absence is due to circumstance other than minor illness.**

   The student will be considered tardy when they arrive at the clinical site (i.e. assigned room):
   - between one minute and 15 minutes after the beginning of the shift
   OR
   - within the hour following the beginning of the shift when accompanied by a phone call to the assigned clinical instructor.

   **It is necessary that the supervisor of the clinical facility and the college clinical instructor know when the student is absent.**

   The student will be considered absent when they miss more than one hour of any part of a shift. Unusual situations will be handled on a case-by-case basis.
XIII. JRCERT STANDARDS

The Joint Review Committee on Education in Radiologic Technology accredits the Radiologic Technology Program at Mesa State College. We adhere to the high standards and policies set by the JRCERT with regard to didactic and clinical education. Any violation of the standards will not be permitted. Complaints of violation will be investigated to resolution. A copy of the JRCERT Standards for an Accredited Program in Radiologic Sciences is located in the Program Director’s office.

Any student has the right to access the JRCERT regarding non-compliance of the Standards by the Mesa State College Radiologic Technology Program. Send signed complaints or allegations to:

the JRCERT
20 N. Wacker Drive, Suite 900
Chicago, IL 60606

XIV. PROFESSIONAL CONDUCT

Both academically and clinically, the expectation is for the student to demonstrate honesty. Cheating or indiscretion in profession or social conduct may result in dismissal. If the student appears mentally, physically, or socially disqualified for meeting the requirements to be a professional practitioner, they may be considered for dismissal.

As per the Mesa State College Student Handbook, the student must comply with state and federal laws concerning dangerous drugs. Offenses may result in prosecution by civil authorities and disciplinary action by the college. The student is responsible for coming to the clinical areas mentally alert and physically capable to care for assigned patients. If an instructor suspects that a student has taken any mind-altering substance that may interfere with safe clinical performance, the student will be asked to leave the clinical area. This will be an unexcused absence. A follow-up conference will be scheduled with the student, Program Director, and Chair of the Department of Nursing and Radiologic Sciences.

Code of Conduct: Refer to Mesa State College Student Handbook.

XV. PROGRESSION and DUE PROCESS

To remain in the program, a minimum 2.0 grade point average (each semester) must be maintained. The following standards will be used for all RTEC courses.

- 100 - 93 = A (4.0)
- 92 - 84 = B (3.0)
- 83 - 75 = C (2.0)
- 74 or below = F

Grades for all required general education credits and related course work must be a "C" or higher to fulfill graduation requirements. A grade of "F" in RTEC coursework could result in removal of the student from the program.

A student removed from the program for either didactic or clinical standing may:

1. Apply for re-entry into the program by contacting the program director, filing the necessary application, and verifying remedial action.
2. Grieve a didactic or clinical evaluation by following the due process policy and procedure as outlined in the "Mesa State College Student Handbook".
XI.

MESA STATE COLLEGE
Nursing and Radiologic Sciences
Radiologic Technology Program

POLICY

Injury/Exposure to Blood and Body Fluids/Infectious Disease

Purpose:
To provide a protocol for students in the Radiologic Technology Program who are injured or exposed to blood and body fluids, which may be the mode of transmission of infectious diseases in clinical settings.

Acute Injury or Blood and Body Fluid Exposure Procedure:
(exposures may occur by needle stick or cut, exposure to body fluids on open or abraded skin, or exposure to mucous membrane via splash to eyes or mouth)

1. Immediately, notify the college clinical instructor (if available) or the affiliate clinical instructor.
2. Be escorted to the emergency room of the clinical facility by the college or affiliate clinical instructor.
3. Comply with the facility’s policy regarding student injuries.
4. Complete the clinical facility incident documentation.
5. As soon as possible, report the incident to the Mesa State College Radiologic Technology Program Director (248-1651).
6. As soon as possible, report the incident to the Mesa State College Human Resources Department (248-1820).
7. In any event, notify the MSC Radiologic Technology Program Director and the MSC Human Resources Department by the end of the next business day.
8. Within four days of the incident complete a Worker’s Compensation form in the MSC Human Resources Department.

Exposure to Subsequently Reported Infectious Disease Procedure:
(tuberculosis, hepatitis, varicella)

1. The Mesa State College Radiologic Technology Program’s director or clinical coordinator will notify the student of potential exposure to an infectious disease.
2. The student will immediately report the notification of potential exposure to the Mesa State College Human Resources Department (248-1820).
3. The student will complete a Worker’s Compensation form with the MSC Human Resources Department within four days of notification of the potential exposure.
MESA STATE COLLEGE
1100 North Avenue
Grand Junction, Colorado 81501-3122

CATALOG
2004-2005

NEED MORE INFORMATION?

Please feel free to contact Mesa State College for any additional information.
For assistance in specific areas, write or telephone:

Admission Office ................................................................. (970) 248-1875
Athletics ................................................................. Toll Free 1-800-982 MESA (6372)
Billing Information (tuition, fees, etc.) ........................................... (970) 248-1503
Office of the Registrar ............................................................. (970) 248-1661
Financial Aid Office (scholarships, loans, grants) ......................... (970) 248-1396
Housing ........................................................................... (970) 248-1536
UTECH, 2508 Blichmann Avenue, Grand Junction, CO 81505 ................. (970) 255-2600

Address: MESA STATE COLLEGE, 1100 North Avenue, Grand Junction, CO 81501-3122
Telephone: (970) 248-1020

Mesa State College is committed to providing admission or access to, or treatment or employment in, its educational endeavors, consonant with applicable laws and without regard to race, creed, color, religion, sex, disability, age, national origin or Vietnam era veteran status.

Inquiries may be made to the Affirmative Action Office at Mesa State College, Houston Hall Room 204, Grand Junction, Colorado.

Mesa State College is a Drug-Free Workplace. All employees and students of the College agree to abide by the requirements in the Federal Drug-Free Workplace Act and the policies stated in the brochure entitled "Drug-Free Schools, Campuses and Workplaces, State Colleges in Colorado, Drug Use and Alcohol Abuse Prevention Program." All employees and students are provided with copies.

As required by the Campus Security Act, Mesa State College publishes campus safety policies and statistics annually. Copies of the annual report are available upon request.
State of Colorado A Drug-Free Workplace

The State of Colorado has a vital interest in maintaining a safe, healthful and efficient working environment for its employees, clients and the public. Employees impaired by alcohol or other drugs during work hours may pose safety and health risks, not only to themselves, but to others.

Therefore, to ensure a safe working environment, it is the policy of the State of Colorado that use of alcohol, other drugs or controlled substances is prohibited. Likewise, it is the policy of the State of Colorado that illegal possession, manufacture, use or sale or transfer of controlled substances on state property or during work hours by its employees is prohibited.

Violations of this policy will be just cause for management/supervisor intervention that may result in referral to mandatory treatment and/or corrective or disciplinary actions, up to and including termination.
times. This includes out of town friends, family and other Mesa State students who live off campus or in a different residence hall.

**OVERNIGHT STAY** – Mesa State Housing allows same sex guests to stay in your room/apartment for a period not to exceed two consecutive nights per month and no more than two guests are allowed to stay overnight in your room/apartment at a time. It is your responsibility to inform your guests that they are not allowed to sleep in the common areas or lounges and that the community bathrooms are not to be used by the opposite sex under any circumstances. Overnight guests must be registered with the Resident Director. Registration is required to aid in locating guest(s) in the event of an emergency and to distinguish between invited and non-invited guests. You will inform both the Resident Director and the Resident Assistant where the guest will be staying, if the guest is not of the same sex.

**RESPONSIBILITY TO GUEST AND HOUSING** –
A guest is any person who does not live on campus or in your residence hall/apartment and is visiting you. You are ultimately responsible for your guest’s actions and it is also your responsibility to inform your guest(s) of any and all housing policies and procedures. You will also explain to your guest(s) that they must adhere to all federal, state, local laws and Mesa State policies or they will be asked to leave the residence halls/apartments immediately. You can also be held responsible for any and all violations that are allegedly committed by a guest or visitor. If you are in the room when a violation occurs, you may be held responsible for the violation even if you are not directly involved in the perpetration of the infraction.

**COHABITATION** - Cohabitation is not allowed in any of the rooms and/or apartments. "Cohabitation is to live together as if a married couple." (Webster Dictionary) If you decide to participate in cohabitation with another person, both of you will be subject to judicial action.

**Halogen Lamps**
Halogen lamps are allowed on campus; however, you could be held responsible for any damages that this lamp may cause if it is faulty or subjected to extreme heat or flammable materials. Housing and Residence Life issues a stern warning about the use and care of halogen lamps. Only UL listed halogen lamps will be allowed in our residence halls and apartments.

**Harassment (Discrimination, Intimidation, Racial, etc.)**
Mesa State prohibits behavior based upon another’s status that has the purpose or effect of creating an intimidating, hostile, or offensive working or educational environment. Status refers to race, color, national origin, religion, age, disability, or veteran status. Sometimes discriminatory harassment is intentional and meant to be offensive. Often it is less obvious, yet equally offensive. Behaviors that may constitute discriminatory harassment include, but are not limited to:

1. Racial, ethnic, or other slurs
2. Malicious name calling
3. Anonymous notes or phone calls
4. Derogatory graffiti
5. Stereotyping the experiences, background, and skills of individuals or groups
6. Threatening members of diverse groups
7. Making inconsiderate or mean spirited jokes
8. Imitating stereotypes in speech or mannerisms
9. Preventing access to any College resource or activity
10. Attributing objections to any of the above to "hypersensitivity" of the targeted individual or group

All members of the college community can raise concerns and/or complaints to Residence Life Staff, Housing and Residence Life Administration, the Affirmative Action Officer, and the Office of the Dean of Students.

Harassment (Fighting, Pranks, Practical Jokes, Criminal Mischief, etc.)
Harassment can be construed from any intimidating behavior to individuals feeling uncomfortable with behaviors of others. Any harassment that is harmful to other individuals is prohibited on campus. Fighting, pranks of a harassing nature, practical jokes of a harassing nature, or criminal mischief will result in judicial action.

Harassment (Sexual Assault, Rape, Date Rape, etc.)
Mesa State Housing and Residence Life is committed to providing a living environment in which students can live, work, and study free from sexual harassment, sexual intimidation, and sexual exploitation. In order to fulfill our obligation, Mesa State will quickly activate the judicial process should sexual harassment reports be given. All matters of the incident(s) will be held confidential.

Sexual Harassment can be defined as unwelcome sexual advances, requests for sexual favors, and other verbal, visual, or physical conduct of a sexual nature, made by someone from or in the work or educational setting, under any of the following circumstances:
- Coercion of sexual activity by threat of punishment, either implicit or explicit;
- Solicitation of sexual activity or other sexually oriented behavior by promise of reward;
- Offensive and unwelcome invitations to sexual activity not accompanied by threat of punishment or promise of reward; or
- Verbal abuse of a sexual nature including graphic commentaries about an individual's body and/or sexually degrading words used to describe an individual; unwelcome and offensive sexual flirtations, advances, propositions; and the display in the classroom, office or work place of sexually suggestive objects or pictures for other than an educational purpose.
The behavior must satisfy these three (3) legal requirements. The behavior must be:

1. Unwanted;
2. Unsolicited (prior behavior and dress are not indications or solicitations);
3. Deliberate (it is important to understand that sexual harassment need not be repeated. A one time only offense may constitute harassment).

Sexual assault is defined as engaging in any sexual contact other than intercourse with another person without that person’s consent or cognizance.

**Rape/Date Rape** is defined as engaging in sexual intercourse (oral, anal, or vaginal) with another person without that person’s consent or cognizance. Rape may be accomplished by forcing or coercing the victim to have sexual intercourse against his or her will, including the use or threat of physical force, or any behavior that is designed to intimidate and induce fear in the victim. Rape can also occur when a victim is under the influence of alcohol, or other drugs, is undergoing physical or emotional trauma, or is incapable of denying or giving consent, or being in a state of unconsciousness.

**Reporting Sexual Harassment**

All of the members in our community should be aware that Mesa State Housing and Residence Life will take actions to prevent and to eliminate inappropriate behavior of this nature. In the event that sexual harassment has occurred, immediately seek the assistance of a Residence Life Staff member, Human Resources, or contact the Grand Junction Police Department. File an incident report and submit it to a Residence Life Staff member, who in turn will make the incident known to the Housing Administration. A judicial hearing will be scheduled at the earliest date possible. **Individuals will be subject to judicial action, and if found responsible will be subject to contract termination from Housing and Dining contract.**

**Health and Safety**

**Cleaning**

For the health and safety of the residents, it is important to keep the residence hall rooms, hallways, apartments and balconies clean. This would include removing waste regularly and maintaining reasonable sanitation and safety standards (i.e. taking out trash, keeping food off floor, etc.). For Walnut Ridge residents, this would include keeping the kitchen and bathrooms sanitary; for Monument Hall residents, keeping the bathrooms clean. It is important for residents to live in an environment free from trash and insects.

**Class Projects**

If for any reason you are required to bring a project home for a class, you will seek permission from your Resident Director who will confirm: the class, the project and the type of container the project will be held in. This would include but not be limited to biological, chemical, and environmental projects (e.g. animal
State also supervises the access to and/or release of educational records of its students. FERPA also provides students the right to inspect, review, and challenge their educational records. FERPA covers enrolled and former students, including deceased students, who have matriculated at Mesa State. Students who are not accepted to Mesa State have no rights under FERPA.

Electronic Mail
Whenever you send electronic mail, your name and user ID are included in each mail message. You are responsible for all electronic mail messages originating from your user ID. Therefore:
1. Forgery (or attempted forgery) of electronic mail messages is prohibited.
2. Attempts to read, delete, copy, or modify the electronic mail of other users are prohibited.
3. Attempts at sending harassing, obscene and/or other threatening e-mail to another user are prohibited.
4. Attempts at sending unsolicited junk mail; "for-profit" messages or chain letters is prohibited.
5. Displaying sexually explicit, graphically disturbing, or sexually harassing images or text in a public computer facility or location that can potentially be in view of other individuals is prohibited.

Immunization Policy for Measles, Mumps, and Rubella
Colorado State Immunization Law states that after July 1, 1992 all college students born since January 1, 1957 must have two (2) measles, two (2) mumps, and two (2) rubella doses. If the student received a second measles dose prior to July 1, 1992 the second mumps and rubella are not required. Written evidence of titers (blood test) showing immunity to measles, mumps, and rubella is acceptable. If the student completes an exemption form and an outbreak occurs, the student will be subject to exclusion from the school. Students must prove compliance within 60 days from the beginning of the first semester of their attendance, or they will not be allowed to register for the next semester.

Mesa State Computer Use Policy
Mesa State is responsible for securing its network and computing system in a reasonable and economically feasible manner against unauthorized access and/or abuse, while making them accessible for authorized and legitimate users. This responsibility includes informing users of expected standards of conduct and the punitive measures for not adhering to them. Any attempt to violate the provisions of this policy will result in disciplinary action, which may include revocation of user accounts. Violations of the Mesa State Computer Use Policy are considered infractions of student behavior. Suspected violations will be handled by the Associate Director of Computing and Network Systems. Students who violate this
Suggestions for Student Orientation

1. General tour of facility
2. Tour of radiology department
3. Introductions to staff and radiologists
4. Facility safety regulations, policies, and procedures
   - Core
   - Abduction
   - Fire
   - Hazardous waste
5. Radiology procedure protocols
6. Radiology equipment
7. Patient process
8. Computer system
9. Filing system, if applicable
7.8 Does the program limit required clinical and academic involvement for students to not more than 40 hours per week?

**Explanation:**
Combined assigned clinical and academic hours cannot exceed forty (40) hours per week. Make-up time cannot be scheduled in a manner that would require more than forty (40) contact hours per week unless such scheduling is voluntary on the student's part.

**Rationale:**
This limitation helps assure that students are treated ethically and do not take the place of professional staff.

**Compliance May Be Demonstrated by:**
Providing documentation that required student clinical and academic involvement in the program does not exceed forty (40) hours per week.

**Possible Site Assessment Methods:**
- Review of master plan of education
- Review of published program materials
- Review of student schedules
- Interviews with faculty
- Interviews with clinical instructor(s)/supervisor(s)
- Interviews with clinical staff
- Interviews with students

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<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
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<tr>
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<td>Narrative</td>
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<td>Yes</td>
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The scheduling of didactic courses and clinical courses are spread out over the week. No student is allowed to exceed the 40 hour per week rule. This includes students who make up time in second year clinical. Second year students will be in clinical for 40 hours during the summer rotation. All other semesters, the students have a maximum of 28 hours in class and clinical during the week with the exception of one transfer student who is currently in class/clinical for 32 hours. In the fall and spring semesters, second year students are in clinical for 24 hours and in class for 4 hours.

Please see exhibit 7.8 for class and clinical schedules.
### Fall Schedule for First Year Students

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
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<tbody>
<tr>
<td>8 to 10 am</td>
<td>121 lecture</td>
<td>121 lab</td>
<td>122 lab</td>
<td>122 lab</td>
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<tr>
<td>10 to 12 noon</td>
<td>121 lab</td>
<td>122 lab</td>
<td>121 lab</td>
<td>121 lab</td>
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<tr>
<td>1 to 3 pm</td>
<td>120 (lecture) or 125 (lecture) 8 wk courses</td>
<td>122 lecture</td>
<td>120 or 125</td>
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<td></td>
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<tr>
<td>8 to 12 noon first 8 weeks and 8-4:30 last 8 weeks</td>
<td>114 clinical lab</td>
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<tr>
<td>Time</td>
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</tr>
<tr>
<td>8 to 10 am</td>
<td>131 lecture</td>
<td>131 lab Clinical A only</td>
<td>132 lab Clinical B only</td>
<td>8-430 124 Clinical Section 001 (Clinical A)</td>
<td>Clinical B 8-12</td>
</tr>
<tr>
<td>10 to 12 noon</td>
<td>131 lab Clinical A only</td>
<td>132 lecture</td>
<td>131 lab Clinical B only</td>
<td></td>
<td></td>
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<tr>
<td>1 to 3 pm</td>
<td>135 lecture</td>
<td>132 lab</td>
<td>131 lab</td>
<td></td>
<td>Clinical A 12-4</td>
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<td>3 Clinical A</td>
<td>3 Clinical B</td>
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<tr>
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<td>16</td>
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<tr>
<td>Thursday 12:00-4:00</td>
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<td>3</td>
<td>10</td>
<td>17</td>
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**St Mary's**  
Hosp 244-2552  PAV 255-7973

| Yvonne Deslongchamp | 6   | 6   | PAV | PAV | PT  | PT  | 1   | 1   | 3   | 3   | 4   | 6   | PT  | 1   |
| Becky Newman        | PAV | PAV | PT  | PT  | 1   | 1   | 3   | 3   | 4   | 6   | PAV | PAV | PT  | 1   |
| Rachel Meyer        | PT  | PT  | 1   | 1   | 3   | 3   | 4   | 4   | 6   | 6   | PAV | PAV | 1   | 3   |
| Megan Thye          | 1   | 1   | 3   | 3   | PAV | PAV | PT  | PT  | 3   | 4   | 6   | 4   | 6   |

**Community**  
256-6446

| Jeff Cook           | C2  | C2  | C2  | C3  | C3  | C2  | C2  | C2  | C3  | C3  | C2  | C2  | C2  | C3  |
| Erin Sterkel        | C3  | C3  | C3  | C2  | C2  | C3  | C3  | C3  | C2  | C2  | C3  | C3  | C3  |
| Rikkea Nelson       | VA1 | VA1 | VA1 | VA1 | VA1 | VA1 | VA1 | VA1 | VA2 | VA2 | VA2 | VA2 | VA1 | VA1 |
| Rana Schnell        | VA2 | VA2 | VA2 | VA1 | VA1 | VA2 | VA2 | VA2 | VA2 | VA2 | VA2 | VA2 | VA2 |
| Susan               |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 8:00 - 8:45 Wednesday | VA | C   | VA | C   | VA | C   | VA | C   | VA | C   | VA | C   | VA | C   | VA |
| 3:30 - 4:20 Wednesday | C  | VA  | C  | VA  | C  | VA  | C  | VA  | C  | VA  | C  | VA  | C  | VA  | C  |

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**St Mary's**  
Hosp 244-2552  PAV 255-7973

| Cicely Allen        | 6   | 6   | PAV | PAV | PT  | PT  | 1   | 1   | 3   | 3   | 4   | 6   | PT  | 1   |
| Donna Durham        | PAV | PAV | PT  | PT  | 1   | 1   | 3   | 3   | 4   | 4   | 6   | PAV | PAV | 1   |
| John Fredrick       | PAV | PAV | PT  | PT  | 1   | 1   | 3   | 3   | 4   | 4   | 6   | PAV | PAV | 1   |
| Angie Lopez-Stevenson | PT  | PT  | 1   | 1   | 3   | 3   | 4   | 4   | 6   | PAV | PAV | 1   | 3   | 4   |
| Christi Merchant    | 1   | 1   | 3   | 3   | 4   | 4   | 6   | 6   | PAV | PAV | PT  | PT  | 3   | 4   | 6   |

**Community**  
256-6446

| TJ Steely           | C2  | C2  | C2  | C3  | C3  | C2  | C2  | C2  | C3  | C3  | C2  | C2  | C2  |
| Bethany Wertz       | C3  | C3  | C3  | C2  | C2  | C3  | C3  | C3  | C2  | C2  | C3  | C3  |
| VA                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| VA                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

**Community**  
256-6446

| VA                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

| Donna               |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

8:00-8:45 Friday  
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The major strength of Standard Seven is the application process and progression of the didactic and clinical courses throughout the two years. The majority of students have to work to pay tuition and the way the clock hours are scheduled, the students have sufficient time for studying and work as well.

There are no concerns for Standard Seven.
Standard Eight:
Radiation Safety
8.1 Does the program assure the health and safety of students associated with educational activities through the implementation of published policies and procedures that are in compliance with Nuclear Regulatory Commission regulations and state law as applicable?

**Explanation:**

The program must maintain and monitor student radiation exposure data. The program must have a protocol for incidents in which dose limits are exceeded.

**Rationale:**

Appropriate policies and procedures help assure that student radiation exposure is kept as low as reasonably achievable (ALARA).

**Compliance May Be Demonstrated by:**

- Providing copies of appropriate policies.
- Describing how the policies are made known to accepted and enrolled students.

**Possible Site Assessment Methods:**

- Review of published program materials
- Review of student records
- Review of student dosimetry reports
- Interviews with faculty
- Interviews with students

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<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
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<tr>
<td>Assurance</td>
<td>Narrative</td>
<td>Yes</td>
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Radiation safety policies are written in the student handbook. Policies regarding radiation monitoring badges and dosimetry reports are discussed in RTEC 114 (exhibit 8.1a) prior to the student entering the clinical setting. There is also discussion of badges and reports in RTEC 135, Radiation Biology and Safety. Please see exhibit 8.1b for radiation safety policies and exhibit 8.1c for radiation records.
Unit 6 - Basic Radiation Protection and Radiographic Film Identification

Outline

I. Radiation Protection
   A. Time
   B. Distance
   C. Shielding

II. Radiation Monitoring
   A. Radiation dosimeters
   B. Radiology Program system

III. Radiographic Image Identification
   A. Permanent markers
      1. Side markers
      2. Accessory markers
   B. Patient identification

Objectives

1. Identify the need to minimize unproductive radiation exposure to humans.
2. Identify ways to protect the patient from overexposure to radiation.
3. Identify ways to protect a radiation worker from overexposure to radiation.
4. Discuss forms of radiation monitoring for occupational workers.
5. Discuss how the Radiologic Technology Program monitors radiation exposure.
6. Discuss the importance of using permanent markers on radiographic images.
7. Discuss the importance of providing permanent patient identification information on a radiographic image.

Evaluation

Written quiz #6
G. Transportation of Patients  
First year students are restricted from transporting patients without the direct supervision of a registered technologist or transporter employed by the facility.  
Second year students may transport patients without supervision.

H. Radiation Monitoring  
A dosimeter and dosimeter holder will be issued to the student prior to the first clinical day. The dosimeter must be worn at all times when present in a radiation area. Dosimeters are in effect from the 10th of the month, through the 9th of the following month. As required by federal law, exchange requirements must be strictly followed. The dosimeter must be exchanged by the 10th of each month at the clinical coordinator’s office. Failure to do so will result in a reduction in the biweekly grade.

The student will be required to pay $4.00 (price subject to change) for each dosimeter that is not returned. Upon termination or graduation from the program the dosimeter and holder must be returned.

The radiation report is posted by the clinical coordinator’s office each month. Each student will be issued a code number to check individual radiation dose equivalent accumulations.

I. The Professional Image  
A professional image must be maintained while in the clinical setting. The professional image for a radiologic technologist presents a conservative, moderate style.

Professional appearance is a subjective issue and is therefore, open to interpretation. The following information is designed to guide the student in identifying those qualities that characterize the image of a professional radiologic technologist. Please refer any questions or concerns regarding professional appearance to the clinical coordinator.

General Professional Standards:

Personal Hygiene and Appearance:

1. The hair, body, and mouth must be clean and free from offensive odor.
2. Hair may either be worn short or arranged in a controlled manner. Hair must be restrained in such a way that it does not fall into the eyes or face. Hair longer than chin length must be pulled back off the face.
3. Male facial hair may be clean-shaven or neatly trimmed.
4. Fingernails must be clean and neatly manicured. Women may wear clear or pale, neutral nail polish. Artificial nails are prohibited.
5. Subtle personal fragrances may be worn.
6. Females may wear tastefully applied, conservative makeup. Neutral eye, lip, and cheek color may be worn in a shade that compliments the natural skin color.
7. A watch, wedding bands and a maximum of 2 pair small, plain, post-style ear studs may be worn.
8. Clothing must cover all body art.
## Radiation Dosimetry Report

**Participant Number** | **Name** | **DOSIMETER** | **Use** | **Radiation Quality** | **Dose Equivalent (MREM)**
--- | --- | --- | --- | --- | ---
| ID Number | Birth Date | Sex | Deep DDE | Eye LDE | Shallow SDE | Deep DDE | Eye LDE | Shallow SDE | Deep DDE | Eye LDE | Shallow SDE | Deep DDE | Eye LDE | Shallow SDE |
| 00432 | 11/10/04 - 12/09/04 | QTR 4 | 2004 |

**For Monitoring Period:**

### Control

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**Account No**: 65540  
**Series Code**: 0436280138  
**Analytical Work Code**: 01/05/05  
**Report Date**: 12/27/04  
**Gosimeter RECEIVED**: 6  
**Report Time in Work Days**: 0  
**Page No**: 1  
**LANLauer**: Landauer, Inc.  
2 Science Road  
Glenwood, Illinois 60425-1586  
Telephone: (708) 755-7000  
Facsimile: (708) 755-7016  
www.landauerinc.com
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8.2 Does the program have a published pregnancy policy that contains the following elements and is made known to accepted and enrolled female students?

- is consistent with applicable federal regulations and state laws
- includes notice of voluntary disclosure
- provides options for student continuance in the program

**Explanation:**

The policy must include appropriate information regarding radiation safety for the student and her fetus.

**Rationale:**

Appropriate radiation safety practices help assure that radiation exposure to the student and her fetus are kept as low as reasonably achievable. Options for continuance provide equitable opportunities for the student to complete the program.

**Compliance May Be Demonstrated by:**

- Providing a copy of the program’s pregnancy policy.
- Describing how the pregnancy policy is made known to accepted and enrolled students.

**Possible Site Assessment Methods:**

- Review of published program materials
- Review of student records
- Interviews with faculty
- Interviews with students

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The declared pregnancy policy is printed in the student handbook which is reviewed in RTEC 120 in the first semester. Please see exhibit 8.2a demonstrating the policy. After a student declares pregnancy (8.2b), a fetal monitor is issued to the student for the duration of the pregnancy (8.2c). Students are given the opportunity to complete the clinical portion of the program in the summer semester and then graduate. All students who have been pregnant during the program were able to complete didactic coursework in the semester they delivered.
D. Leave of Absence

For certain circumstances the program director may approve a leave of absence from clinical experience. Penalty grade reductions on the "Evaluation of Professional Behavior, Ethics, and Attitudes" or final semester grade may be waived if a leave is granted. Examples of circumstances considered for a leave of absence include:

1. Emergency medical situations: Emergency medical situations will be evaluated on an individual basis and must be supported by a physician's statement.

2. Death of an immediate family member: (i.e. sibling, parent, grandparent, spouse, child, parent-in-law, grandparent-in-law).

3. Maternity leave.

Other circumstances will be determined on an individual case basis by the program director. In all cases, the program director will determine the number of eligible leave days.

E. Declared Pregnant Student

According to the Nuclear Regulatory Commission and JRCERT standards, a student must voluntarily declare a pregnancy. Once declared and recognizing the sensitivity of the human fetus to damage by ionizing radiation, the Colorado State Regulations require that fetal exposure during the entire nine-month gestation period be limited so as not to exceed 0.5 rem. In accordance with ALARA (as low as reasonably achievable) limits recommended by the National Council on Radiation Protection (NCRP), the following policy is adopted:

1. No general restriction will be placed on pregnant students.

2. If the student strongly suspects or verifies a pregnancy, she will voluntarily notify the program director in writing. The program director will document the notification in the student's records and notify the clinical coordinator. Until notification is received, the pregnancy will not be acknowledged or acted on.

3. The student will be issued both a collar dosimeter and a total body dosimeter. The total body dosimeter will be called the "fetal dose monitor". This dosimeter will be worn at all times of clinical experience at the waist under any protective apparel that might be worn. The total body dose equivalent, added to the collar dose equivalent (from the period of time of conception to the time the fetal dose monitor became available), shall represent the fetal exposure. The fetal dose monitor and dose equivalent analysis will be provided at the student’s expense.

4. The program director will counsel the pregnant student with respect to work habits, use of protective apparel and work assignments. In the event the fetal dose equivalent approaches the maximum dose limit, the student will again be counseled.
5. The pregnant student will be responsible to use protective apparel to keep the fetal radiation exposure within the limits. If the fetal dose equivalent indicates that the 0.5 rem limit has been reached, the student will be removed from the radiation environment. This may require the student to be placed on a leave of absence until delivery.

6. Under no circumstances will a pregnant student participate in the Nuclear Medicine rotation nor participate in any direct contact radiation therapy treatment. Any Nuclear Medicine rotation will be rescheduled following delivery.

F. Clinical Supervision of Students

Until the student has:

1. Completed and passed the simulated positioning procedure for a given unit
2. Performed an acceptable procedure in the clinical setting for each exam

all clinical assignments shall be carried out under the DIRECT SUPERVISION of a qualified radiographer.

The parameters of direct supervision are:

1. A qualified radiographer reviews the request for examination in relation to the student's achievement;
2. A qualified radiographer evaluates the condition of the patient in relation to the student’s knowledge;
3. A qualified radiographer is present during the conduct of the examination;
4. A qualified radiographer reviews and approves the images.

Once competency has been documented, the student may perform procedures with INDIRECT SUPERVISION.

The parameters of indirect supervision are:

1. A qualified radiographer is immediately available to assist the student regardless of the level of student achievement. ("immediately available" means the qualified radiographer is adjacent to the location where the procedure is taking place).
2. A qualified radiographer reviews and approves the images.

Repeat Images

A qualified radiographer must review any image made by a student to determine if it is of optimal quality. Under no circumstance is a student to repeat an image without direct order from a qualified radiographer. All unsatisfactory images shall be repeated in the presence of a qualified radiographer, regardless of the student's level of competency.

The process of a repeat image is:

1. A qualified radiographer determines the necessity of a repeat image;
2. The student, under DIRECT SUPERVISION, produces another image;
3. The qualified radiographer reviews and approves the image.

Documentation

It is the responsibility of the student to document the registered technologist who reviewed and approved the images.

QUALIFIED RADIOGRAPHER: Credentialed, in good standing, in radiography by the American Registry of Radiologic Technologists.
Jan. 12, 2004

Grand Junction, CO 81501

Radiology Program
1100 North Ave.
Grand Junction, CO 81501-3122

Dear Program Director:

I would like to declare to the Mesa State College Radiologic Technology Program that I am pregnant. The conception date was approximately December 24, 2003 and the expected due date is September 15, 2004.

Sincerely,

[Signature]
January 14, 2004

In regards to my declared pregnancy, Patti Ward has counseled me concerning my work habits. I understand the policy of the Radiologic Technology Program in the Student Handbook Section VII, E. In particular, I recognize I am to wear a collar dosimeter (on the collar) and a total body dose dosimeter at the waist (under any protective apparel). I understand this will apply anytime I am in a clinical area or in the energized lab when radiation exposure is likely. I will not participate in the nuclear medicine rotation until after delivery. I also understand I will be responsible for costs involved in the fetal dose monitor and dose equivalent analysis.

[signature]

Date: 01-21-04

Due Date: Aug 28, 2004
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**FOR MONITORING PERIOD:**
08/10/04 - 07/09/04
QTR 2
2004

**M**: MINIMAL REPORTING SERVICE OF 1 MREM
**QUALITY CONTROL RELEASE**: JAS

**TEST CONCEPTION TO DECLARATION**: NOT SUPPLIED
**TOTAL DECLARATION TO CURRENT**: 1 DEEP

**ACCOUNT NO**: 65540 **SERIES CODE**: 0419760019 **REPORT DATE**: 07/23/04 **DOSSIER RECEIVED**: 07/15/04 **REPORT TIME IN WORK DAYS**: 6 **PAGE NO**: 1 OF 1
8.3 Does the program assure that students use equipment and accessories, employ techniques, and perform procedures in accordance with accepted equipment use and radiation safety practices to minimize radiation exposure to patients, selves, and others?

Explanation:
Students must understand basic radiation safety practices prior to assignment to the clinical education setting. As students progress in the program, they must become knowledgeable of practices to minimize radiation exposure.

Rationale:
These practices assure radiation exposure to patients, students, and others is kept as low as reasonably achievable (ALARA).

Compliance May Be Demonstrated by:
Describing the curriculum sequence and content as it relates to preparing students for safe clinical practice.

Possible Site Assessment Methods:
- Review of program curriculum
- Review of student records
- Review of student dosimetry reports
- Interviews with faculty
- Interviews with clinical instructor(s)/supervisor(s)
- Interviews with clinical staff
- Interviews with students

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The program begins discussion of ALARA and radiation safety practices in RTEC 114 prior to the student entering the clinical setting. These discussions are reinforced in RTEC 121 and 122 in the first semester. RTEC 135 (Radiation Biology and Safety) is taught in the second semester of the program and the principles are again reinforced in the other courses that semester. Radiation safety is emphasized in the clinical setting in all rotations. It is again discussed in RTEC 251, 255, and 265 as part of the courses. All of radiation biology and safety is reviewed in RTEC 261, the last course of the program.

One area of concern that has occurred recently is the lack of radiation safety practice by technologists in the clinical setting. Students are concerned not only for themselves but for the safety of the patients. We have addressed this issue by reviewing radiation safety practices with the students, reminding them that it is their right to protect themselves and the patients. We have also discussed safe practices with individual technologists who have not been good examples to the students. We also have discussed these problems with department directors and asked that they raise the issue with staff at meetings.
8.4 Are all radiation therapy procedures performed under the **direct supervision** of a **qualified practitioner**?

**Explanation:**

Radiation therapy procedures requiring direct supervision include brachytherapy, simulation, and treatment. The JRCERT defines direct supervision as supervision by a qualified practitioner who: reviews the procedure in relation to the student's achievement; evaluates the condition of the patient in relation to the student’s knowledge; is present during the conduct of the procedure; and reviews and approves the procedure.

**Rationale:**

Direct supervision assures patient safety and proper educational practices.

**Compliance May Be Demonstrated by:**

Describing how the program’s direct supervision requirement is monitored and enforced in the clinical education setting.

**Possible Site Assessment Methods:**

- Review of published program materials
- Review of student records
- Interviews with faculty
- Interviews with clinical supervisor(s)
- Interviews with clinical staff
- Interviews with students

**Level of Effort**

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Not applicable
8.5 Are all medical imaging procedures performed under the direct supervision of a qualified practitioner until a radiography student achieves competency?

**Explanation:**

The JRCERT defines direct supervision as student supervision by a qualified practitioner who: reviews the procedure in relation to the student's achievement; evaluates the condition of the patient in relation to the student's knowledge; is present during the conduct of the procedure; and reviews and approves the procedure and/or image. Students must be directly supervised until competency is achieved.

**Rationale:**

Direct supervision assures patient safety and proper educational practices.

**Compliance May Be Demonstrated by:**

Describing how the program's direct supervision requirement is monitored and enforced in the clinical education setting.

**Possible Site Assessment Methods:**

- Review of published program materials
- Review of student records
- Interviews with faculty
- Interviews with clinical instructor(s)
- Interviews with clinical staff
- Interviews with students

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The direct supervision policy is listed in the student handbook (exhibit 8.5a), reinforced at the beginning of the semester in student clinical meetings and during the semester at the clinical sites. The policy is also reinforced at program advisory and clinical instructor meetings (8.5b). We have also reinforced the policy at staff meetings at the clinical site. The students also are quizzed in the classroom as to what the policy is and how it is carried out. Their answers are then discussed in class and the policies of direct, indirect supervision and repeats are reviewed. Please see exhibit 8.5c for examples of the quiz and answers.
5. The pregnant student will be responsible to use protective apparel to keep the fetal radiation exposure within the limits. If the fetal dose equivalent indicates that the 0.5 rem limit has been reached, the student will be removed from the radiation environment. This may require the student to be placed on a leave of absence until delivery.

6. Under no circumstances will a pregnant student participate in the Nuclear Medicine rotation nor participate in any direct contact radiation therapy treatment. Any Nuclear Medicine rotation will be rescheduled following delivery.

F. Clinical Supervision of Students

Until the student has:
1. Completed and passed the simulated positioning procedure for a given unit
2. Performed an acceptable procedure in the clinical setting for each exam

All clinical assignments shall be carried out under the **DIRECT SUPERVISION** of a qualified radiographer.

The parameters of direct supervision are:
1. A qualified radiographer reviews the request for examination in relation to the student's achievement;
2. A qualified radiographer evaluates the condition of the patient in relation to the student’s knowledge;
3. A qualified radiographer is present during the conduct of the examination;
4. A qualified radiographer reviews and approves the images.

Once competency has been documented, the student may perform procedures with **INDIRECT SUPERVISION**.

The parameters of indirect supervision are:
1. A qualified radiographer is immediately available to assist the student regardless of the level of student achievement. ("immediately available" means the qualified radiographer is adjacent to the location where the procedure is taking place).
2. A qualified radiographer reviews and approves the images.

**Repeat Images**

A qualified radiographer must review any image made by a student to determine if it is of optimal quality. Under no circumstance is a student to repeat an image without direct order from a qualified radiographer. All unsatisfactory images shall be repeated in the presence of a qualified radiographer, regardless of the student's level of competency.

The process of a repeat image is:
1. A qualified radiographer determines the necessity of a repeat image;
2. The student, under **DIRECT SUPERVISION**, produces another image;
3. The qualified radiographer reviews and approves the image.

**Documentation**

It is the responsibility of the student to document the registered technologist who reviewed and approved the images.

**QUALIFIED RADIOGRAPHER:** Credentialed, in good standing, in radiography by the American Registry of Radiologic Technologists.
MESA STATE COLLEGE
Radiologic Technology Program
Program Advisory Committee and Clinical Instructor Meeting
April 27, 2004

Present: Dale Miller, Joanne Hunter, Toni Colby, Marsha Ross, Dawn Eichert, Pat Gimbel, Susie Mallory, Mariann Howell, Donna Slothower, Susan Hudson, Dan Ishida, Patti Ward, Bette Schans

1. Everyone was welcomed and introduced.

2. The minutes of the October 16, 2003 minutes were reviewed and approved.

3. Program Update
   a. There will be 14 students graduating this year.
   b. There are 17 first year students continuing on to second year.
   c. The bachelor's degree proposal has been shelved until funding becomes available.
   d. The accreditation self study will be written this summer and a committee will be formed to review the document prior to sending it to JRC.
   e. The budget at Mesa State is still wobbly.

4. New Business
   a. There were 102 applicants with 52 interviews for 18 positions. We have about equal numbers of younger and older students with 14 females and 4 males. We offered a spot to a male applicant who decided he couldn't enter at this time so the position was filled by a female applicant.
   b. We will be revising the assessment and evaluation plan this year and looking for new items to assess.
   c. We have a new president at Mesa State. Tim Foster has taken the position.

5. Clinical Issues
   a. The Direct/Indirect Supervision policy was reviewed. Students can perform mobile examinations with direct or indirect supervision. The key remains: indirect supervision means the technologist is readily available to the student.
   b. Each new student to a clinical facility needs to be orientated to the site. Suggested orientation topics were distributed.
   c. Affiliate clinical instructors were asked to encourage technologists to allow students to make their own corrections (with direction supervision), as opposed to the technologist making the corrections for the student.
   d. Ideas were requested for ways to enhance the learning experience for mobile and surgical procedures. Suggestions included allowing first year students to go to surgery and for second year students to be able to go to surgery during other
rotations. At this time first year students will not be allowed to go to surgery, but when it is not busy in diagnostic, second year students would be encouraged to go to surgery.

c. Ideas were requested for ways to help get biweekly evaluations done in a more timely manner.

d. The schedule for first year students, during the second semester, will change in spring 2005. Students will be in clinical for one eight-hour and one four-hour time period, instead of two 6 hour days. First year students will be at clinical sites on Wednesday to Friday from 8:00 a.m. until 4:30 p.m.

g. Concern have been expressed that students are not comfortable with some of the ancillary equipment. This issue will be addressed by adding more content to the patient care class and including some “hand-on” training in the clinical setting.

The meeting was adjourned at 5:15 pm.

Submitted

Bette Schans
Patti Ward
March 20, 2002

Susan Hudson
P.O. Box 302
Ouray, CO 81427

Dear Susan,

At our last advisory committee meeting we discussed the policy regarding direct and indirect supervision, and the policy regarding students repeating radiographs.

It has come to our attention that, at times, the students or the radiographers at the clinical sites do not follow these policies. I am sending you this letter as a reminder of these crucial policies, and of the accreditation issues that are at stake if violations continued to be reported.

I have enclosed a letter from the JRCERT regarding supervision during mobile radiography and a copy of the policies regarding direct and indirect supervision, and repeat radiographs. Please note that the JRCERT requires indirect supervision for portable, surgical and mobile trauma examinations regardless of the student's level of competency. Indirect supervision requires the radiographer to be immediately available (in or adjacent to the room). We do, however, encourage the staff technologist accompanying the student to allow as much of the exam as possible to be completed by the student.

What is at stake here is the issue of liability. A student performing radiographs without supervision is at risk with regard to patient and personal safety. As long as they are in the program, they are students to the day of graduation. Although no incidents have occurred, it only takes one time to create a libelous situation.

I am asking you to remind your staff technologists of these policies either through written or verbal communication. For our part, we discuss these policies on a regular basis with all of our students and clinical instructors. Together I know that we can assure continuing quality patient care as well as quality educational opportunities for the students.

Thank you for your attention to this matter.

Sincerely,

Bette Schans, MS, RT(R)
Program Director
To reiterate, the required policies, based on the standards of the Joint Review Committee on Education in Radiologic Technology, state:

1. Until the student has completed and passed the simulated positioning procedure for a unit of study and has performed an acceptable procedure for each exam, all clinical assignments shall be carried out under the direct supervision of a qualified radiographer.
2. Once competency has been documented, the student may perform procedures with indirect supervision.
3. Any film taken on an x-ray examination must be reviewed by a qualified radiographer to determine the necessity of a repeat radiograph prior to repeating the films. All unsatisfactory radiographs shall be repeated only in the presence of a qualified radiographer, regardless of the student's level of competency.
4. All mobile, surgical and mobile trauma examinations must be performed under indirect supervision (with a radiographer immediately available).

The parameters of direct supervision are:
1. A qualified radiographer reviews the request for examination in relation to the student's achievement.
2. A qualified radiographer evaluates the condition of the patient in relation to the student's knowledge.
3. A qualified radiographer is present during the conduct of the examination.
4. A qualified radiographer reviews and approves the radiographs.

The parameters of indirect supervision are:
1. A qualified radiographer is immediately available to assist the student regardless of the level of student achievement. "Immediately available" means that the qualified radiographer is adjacent to the room or location.
2. A qualified radiographer reviews and approves the radiographs.

The parameters of repeat radiographs are:
1. A qualified radiographer determines the necessity of a repeat radiograph.
2. The student, under direct supervision, repeats the radiograph.
3. A qualified radiographer reviews and approves the radiograph.
First Year Student Repeat Questions and Answers 2001

1. What is the policy, in the student handbook, regarding repeat radiographs?
   a. Must have a tech present
   b. A technologist must be in the room for the repeat
   c. A RT must be present when a student is taking a repeat
   d. A tech must be present when a repeat x-ray is done
   e. You have to have a tech with you in the room before you take a repeat
   f. Always have technologist with you when repeating
   g. Must have a tech present for repeats
   h. A registered tech has to be present
   i. Registered technologist must be present when you do the retake
   j. To repeat you must have a registered tech in the room. You can’t repeat unless the tech tells you
   k. A registered tech must be with you in the room when the repeat is being done
   l. A tech must be present (in room) to take a repeat

2. Why was this policy established?
   a. Because you can’t take a repeat without a tech (same as question 1, just because it’s a good idea.) Also the accrediting people said you have to.
   b. So that you get the exam right and minimize patient exposure
   c. To reduce the number of retakes
   d. So there are no unnecessary films taken and so you know what you did wrong and how to fix it.
   e. To reduce the patient dose. Having tech in the room to assist in making sure exam is done correctly to limit any additional repeats
   f. JRCERT requires it; so students don’t make same mistake twice
   g. To prevent unnecessary patient dosage
   h. So that an unnecessary number of repeats would not be taken
   i. For the safety of our patients
   j. So your mistake is corrected the first time and other repeats are not taken. Basically to decrease patient dose
   k. To make sure the repeat was done right to cut down on patient exposure
   l. So we don’t have to take another repeat and they can correct us to prevent this.

3. Who is responsible for assuring compliance with the policy?
   a. We are responsible for getting a tech during a repeat
   b. Students and the floor supervisor
   c. The students
   d. The students and instructors
   e. The students
   f. We are and the clinical instructors
   g. The student, clinical instructors and program director
h. Student
i. Student, Patti, clinical instructor but mostly me
j. The student
k. The students
l. Patti and Bette

4. What assurance is there of compliance with the policy

a. Student honesty and willingness to admit fault; also, all radiographs are to be “ok’d” by the technologist
b. They don’t know that it is being followed, unless you enforce it
c. Through the honor of the student as being a part of the program and agreeing to comply. Also through correct supervision of the on-site clinical instructors
d. Students word; tech’s word
e. You don’t unless you’re there, but I guess you could ask techs if we ask them to be present or not
f. An RT must check all films??
g. We should all be responsible for our own actions and be sure that the policy is being followed
h. Not sure
i. By printed reports
j. Since the instructor is not present at all times and may not see that a tech was present, the student must work on the honor system. Unless a method is created to track this. Currently, the tech who ok’s the film is not necessarily the tech who was with you during the repeat.
k. I don’t know
l. By feedback from clinical instructors and techs

5. What measures should be taken for non-compliance of the policy?

a. Points taken off bi-weekly and/or reduction in “final” overall grade. Severe reprimand (3 warnings)
b. They will get in trouble, don’t really know
c. Warning and if continues on a regular basis maybe points off biweekly (5 points)
d. The student should be reminded, if it continues drop the biweekly grade
e. Discussion with the student and instructor by the program director as to what confusion with the policy may be. Any additional instances are cause for dismissal from the program.
f. Warning for the first time; then put on period where tech must always be present for the student to do anything
g. It should be made known to the clinical instructor and dealt with on a personal basis depending on the situation
h. A warning should be given
i. A stern warning the first three times it happens. After than a 2% reduction in the clinical grade every time it happens
I don’t know since I think the instructors don’t always see who is the tech with you during the retake. Until a method for tracking is devised, unknown.

Points taken off their grade

Depending on the degree of the rule broken, they should first be dropped grade-wise; they were warned by reading and signing the handbook. 2nd – removed from the program

6. What is the definition of “direct supervision”?

a. Direct supervision – having someone (clinical instructor) personally watching

b. Technologist in the room with you while you are doing the exam

c. Direct supervision – someone with you at all times

d. A supervisor is present at all times

e. Having a technologist in the room watching you throughout the whole exam

f. Having a tech in the room with you

g. Tech in room while the exam is being done

h. In the exam room with the student at the time of the exam

i. An RT in the room with the student

j. Someone directly supervising you

k. The person or tech has to be in the room with you at all times

l. Technologist in the room with you
1) technologist must 
be present to assist in repeats

2) so we don't have so many more
repeats. - patient protection

3) the person taking the radiograph -
Student

4) have a tech sign us off for exams
done w/o repeat - if repeated
needed then tech & will know.
(you sign) paperwork!

5) something - but I
don't know what it should be

6) Direct: Supervision with a registered
Tech watching our every move.
- direct assistance

Indirect: Supervision: however not
so closely watched, exam performed
then check w/ Tech to for approval

7) effective until -
forever! - until we aren't
students anymore -
2004
First year student responses to questions on supervision.

1. What is the policy in the student handbook regarding repeat radiographs?
   a. Technologist must be present for repeats
   b. Have a registered technologist present for repeats making sure technique and positioning are right
   c. A technologist must be present on a repeat done by a student
   d. Have a registered technologist in the room with you when repeating film so won’t have to repeat again – they also need to check all films
   e. If film is unreadable either by inadequate positioning or technique
   f. Get a technologist first, explain why it was repeated, re do with their approval
   g. Have an RT approve or disapprove the initial film, then help with repeat
   h. Repeats must be taken by radiology technologist’s assistance
   i. A RT or clinical instructor must be present when doing a repeat radiograph
   j. A registered technologist must be present in the exam room
   k. Student can’t repeat without an RT present
   l. You have to have a technologist with you any time you have to repeat a radiograph
   m. Has to be under 10% limit as much as possible
   n. Grab a technologist to DIRECT supervision on the repeat
   o. 10%
   p. Get a registered tech to do the second exposure.

2. Why was this policy established?
   a. ALARA – keep patient dose to minimum
   b. Liability and for to make sure done right to reduce patient dose
   c. To protect the patient from more repeats and so the student can see what they did wrong
   d. Because you don’t want to irradiate patient again, all because you can’t get it right
   e. To keep patient dose at a minimum ALARA, reduce dose to ourselves as well
   f. To avoid another repeat
   g. A RT is allowed to accept or not accept quality radiographs
   h. To protect the patient from overexposure and protect program from any legalities
   i. To protect the patient from excess radiation and to help us learn
   j. To minimize the possibility of overexposure to the patient
   k. Because the RT should be able to see what the student had done wrong and could help avoid another repeat
   l. So that you can correct the first time and not have to radiation the patient a third time – also so we can learn what we did wrong
   m. For better patient care, to reduce patient dose
   n. Protect patient from even more extra exposure
   o. To avoid as much repeat as possible and get knowledge
   p. To reduce patient exposure and remain professional. It is a guideline for students
3. Who is responsible for assuring compliance with the policy?
   a. Student
   b. All radiology technologists
   c. The student
   d. The students, technologists, clinical supervisors, mostly students
   e. We are, but if in doubt ask a Radiologist
   f. We (students) are responsible
   g. Both students and techs are responsible
   h. The students and technologists
   i. We are as students. We have to go get the RT or clinical instructor.
   j. We, the students
   k. The student
   l. The student
   m. All technologists
   n. I am
   o. The student
   p. You, it is the student’s responsibility to make sure a REGISTERED tech is there during the repeat

4. What assurance is there of compliance with the policy?
   a. Must depend on the student
   b. Communication with department and students and school coordinators. Documentation
   c. By making every tech at the clinical site aware of this
   d. Make sure students, and everyone working with them understand the policy and follow it
   e. Look at our repeat rate, require questionnaire be filled out by tech post exam
   f. Allow only techs to approve or disapprove quality of films.
   g. Ensurance of this policy is written on the order that goes with the film to the radiologist
   h. By continuing to quiz the students on their knowledge
   i. Go get the RT or clinical instructor. Don’t continue exam until they can get there
   j. By instilling good practices and consciousness of radiation protection procedures into the students
   k. By trust and integrity on the student’s part
   l. Expect honesty on the part of the students
   m. By testing, keeping track of exams and figuring out percentage of repeats
   n. ?
   o. observing, evaluating the number of repeats
   p. we can make sure this policy is enforced by watching each other and helping each other
5. What measures should be taken for non-compliance of the policy?
   a. Verbal reprimand first time, progressive reprimands
   b. Counseling of those involved, student and technologist
   c. The student should sit down with Bette and Patti
   d. The students and technologists should be talked with by clinical instructor and then still not followed should be punished from clinical site for a matter of time
   e. We should be warned, and then action should be taken. All of us will have and need repeats but not excess
   f. Explanation of why it is wrong to do so
   g. If the policy is violated, first council the techs and student
   h. Don't know
   i. Radiograph should not be available for a grade
   j. Continued violation = dismissal
   k. Find out why it was violated
   l. Student should be talked to and given a warning
   m. Have a meeting with technologists and inform them of the problem. Make a goal to reduce percentage by a certain time
   n. Review policy
   o. Talk with the student and make sure they understand the policy
   p. The commander of the department is notified, then the supervisor of the department discusses with the student the violation

6. What is the difference between direct and indirect supervision?
   a. Don't know difference
   b. Direct is in room supervision of exam. Indirect is adjacent to room exam is being done in (knowing what’s going on)
   c. Indirect does not require an RT to be present during a procedure. Direct requires an RT to be present during a procedure
   d. Indirect supervision is having a registered technologist outside the room but nearby. Direct is having tech or instructor in the room supervising. Indirect also has tech check films
   e. Indirect – student must show radiographs to supervisor – direct – student is given authority to perform exams alone but radiographs must still be checked
   f. Direct – in the room, indirect – within immediate parameters
   g. Direct = RT in room with the student Indirect = RT is immediately available outside the room
   h. Direct supervision means tech is in the room directly assisting. Indirect supervision means tech is within earshot if help is needed.
   i. Direct supervision if unexperienced on exam and indirect if experience and signed off as competent to do exam safe
   j. Direct supervision – technologist must be in the exam room with the student. Indirect – technologist must be in the adjacent spaces and easily available to the student
k. Be responsible, ask for help when needed, shouldn’t need to be babysat

l. Direct supervision until student has passed a competency test from a technologist. The tech must be in the room with the student. Indirect supervision – a tech must be available in an adjacent room.

m. A student can perform an exam under direct supervision after being tested in class. A student can perform an exam under indirect supervision after being tested, the sign-off sheet is signed and if they feel comfortable.

n. Direct – when a student is not checked off from an RT to do a certain exam, you need direct supervision. Indirect – RT is present but not holding your hand.

o. A registered tech should be with student when she/he is taking radiograph. The instructor should evaluate the student exam.

p. Direct supervision requires that a registered tech is with the student during the exam. Indirect allows the student to complete the exam but requires the RT to accept or decline the exposure.
1. Student can't repeat without an RT present.
2. Because the RT should be able to see what the student had done wrong + could help avoid yet another repeat.
3. The student.
4. By trust + integrity on the student's part.
5. Find out why it was violated.
6. Be responsible, ask for help when needed, shouldn't need to be babysat.
8.6 Are all medical imaging procedures performed under the indirect supervision of a qualified practitioner after a radiography student achieves competency?

**Explanation:**

For radiography, the JRCERT defines indirect supervision as that supervision provided by a qualified practitioner immediately available to assist students regardless of the level of student achievement. Immediately available is interpreted as the physical presence of a qualified practitioner adjacent to the room or location where a radiographic procedure is being performed. This availability applies to all areas where ionizing radiation equipment is in use.

**Rationale:**

Indirect supervision promotes patient safety and proper educational practices.

**Compliance May Be Demonstrated by:**

Describing how the program’s indirect supervision requirement is monitored and enforced in the clinical education setting.

**Possible Site Assessment Methods:**

- Review of published program materials
- Review of student records
- Interviews with faculty
- Interviews with clinical instructor(s)
- Interviews with clinical staff
- Interviews with students

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The indirect supervision policy is listed in the student handbook (exhibit 8.6a) and reinforced at the beginning of the semester in student clinical meetings and during the semester at the clinical sites. The policy is also reinforced at program advisory (exhibit 8.5b) and clinical instructor meetings. We have also reinforced the policy at clinical staff meetings. The students also are quizzed in the classroom as to what the policy is and how it is carried out (exhibit 8.5c).
5. The pregnant student will be responsible to use protective apparel to keep the fetal radiation exposure within the limits. If the fetal dose equivalent indicates that the 0.5 rem limit has been reached, the student will be removed from the radiation environment. This may require the student to be placed on a leave of absence until delivery.

6. Under no circumstances will a pregnant student participate in the Nuclear Medicine rotation nor participate in any direct contact radiation therapy treatment. Any Nuclear Medicine rotation will be rescheduled following delivery.

F. Clinical Supervision of Students

Until the student has:
1. Completed and passed the simulated positioning procedure for a given unit
2. Performed an acceptable procedure in the clinical setting for each exam

All clinical assignments shall be carried out under the **DIRECT SUPERVISION** of a qualified radiographer.

The parameters of direct supervision are:
1. A qualified radiographer reviews the request for examination in relation to the student's achievement;
2. A qualified radiographer evaluates the condition of the patient in relation to the student's knowledge;
3. A qualified radiographer is present during the conduct of the examination;
4. A qualified radiographer reviews and approves the images.

Once competency has been documented, the student may perform procedures with **INDIRECT SUPERVISION**.

The parameters of indirect supervision are:
1. A qualified radiographer is immediately available to assist the student regardless of the level of student achievement. ("immediately available" means the qualified radiographer is adjacent to the location where the procedure is taking place).
2. A qualified radiographer reviews and approves the images.

**Repeat Images**

A qualified radiographer must review any image made by a student to determine if it is of optimal quality. Under no circumstance is a student to repeat an image without direct order from a qualified radiographer. All unsatisfactory images shall be repeated in the presence of a qualified radiographer, regardless of the student's level of competency.

The process of a repeat image is:
1. A qualified radiographer determines the necessity of a repeat image;
2. The student, under **DIRECT SUPERVISION**, produces another image;
3. The qualified radiographer reviews and approves the image.

**Documentation**

It is the responsibility of the student to document the registered technologist who reviewed and approved the images.

**QUALIFIED RADIOGRAPHER**: Credentialed, in good standing, in radiography by the American Registry of Radiologic Technologists.
8.7 Are all unsatisfactory radiographs repeated by students performed under the direct supervision of a qualified practitioner?

**Explanation:**
A qualified practitioner must be present during the conduct of a repeat radiograph.

**Rationale:**
The presence of a qualified radiographer during the repeat of an unsatisfactory radiograph assures patient safety and proper educational practices.

**Compliance May Be Demonstrated by:**
Describing how the program’s direct supervision requirement for repeat radiographs is monitored and enforced in the clinical education setting.

**Possible Site Assessment Methods:**
- Review of published program materials
- Review of student records
- Interviews with faculty
- Interviews with clinical instructor(s)
- Interviews with clinical staff
- Interviews with students

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The repeat policy is listed in the student handbook (exhibit 8.7a) and reinforced at the beginning of the semester in student clinical meetings and during the semester at the clinical sites. The policy is also reinforced at program advisory and clinical instructor meetings (exhibit 8.5b). We have also reinforced the policy at clinical staff meetings. The students also are quizzed in the classroom as to what the policy is and how it is carried out (exhibit 8.5c).
5. The pregnant student will be responsible to use protective apparel to keep the fetal radiation exposure within the limits. If the fetal dose equivalent indicates that the 0.5 rem limit has been reached, the student will be removed from the radiation environment. This may require the student to be placed on a leave of absence until delivery.

6. Under no circumstances will a pregnant student participate in the Nuclear Medicine rotation nor participate in any direct contact radiation therapy treatment. Any Nuclear Medicine rotation will be rescheduled following delivery.

F. Clinical Supervision of Students

Until the student has:
1. Completed and passed the simulated positioning procedure for a given unit
2. Performed an acceptable procedure in the clinical setting for each exam

all clinical assignments shall be carried out under the DIRECT SUPERVISION of a qualified radiographer.

The parameters of direct supervision are:
1. A qualified radiographer reviews the request for examination in relation to the student's achievement;
2. A qualified radiographer evaluates the condition of the patient in relation to the student's knowledge;
3. A qualified radiographer is present during the conduct of the examination;
4. A qualified radiographer reviews and approves the images.

Once competency has been documented, the student may perform procedures with INDIRECT SUPERVISION.

The parameters of indirect supervision are:
1. A qualified radiographer is immediately available to assist the student regardless of the level of student achievement. ("immediately available" means the qualified radiographer is adjacent to the location where the procedure is taking place).
2. A qualified radiographer reviews and approves the images.

Repeat Images

A qualified radiographer must review any image made by a student to determine if it is of optimal quality. Under no circumstance is a student to repeat an image without direct order from a qualified radiographer. All unsatisfactory images shall be repeated in the presence of a qualified radiographer, regardless of the student's level of competency.

The process of a repeat image is:
1. A qualified radiographer determines the necessity of a repeat image;
2. The student, under DIRECT SUPERVISION, produces another image;
3. The qualified radiographer reviews and approves the image.

Documentation

It is the responsibility of the student to document the registered technologist who reviewed and approved the images.

QUALIFIED RADIOGRAPHER: Credentialed, in good standing, in radiography by the American Registry of Radiologic Technologists.
Are all clinical education settings and energized laboratories in compliance with applicable state and federal radiation safety laws?

Explanation:
Records of compliance (JCAHO, state, or equivalent) must be maintained for clinical education settings and energized laboratories.

Rationale:
Compliance with applicable laws promotes a safe environment for patients, students, and others.

Compliance May Be Demonstrated by:
Providing certificates and/or letters documenting learning environments’ compliance with state and federal radiation safety laws.

Possible Site Assessment Methods:
- Review of certificates and/or letters

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Please see exhibit 8.8 for documentation of compliance with state and federal radiation safety laws.
**USE BALLPOINT-PRESS FIRMLY**

### SECTION I General Information

<table>
<thead>
<tr>
<th>Facility Reg. No.</th>
<th>REGISTRANT / LEGAL OWNER</th>
<th>Facility Name (if/for)</th>
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<tr>
<td>89949</td>
<td>MESA STATE COLLEGE</td>
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<tr>
<td></td>
<td>CO</td>
<td>81502</td>
<td>(970) 248-1651</td>
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</table>

### SECTION II Machine NONCOMPLIANCE

1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. **UNSAFE FOR HUMAN USE LABEL #:**

2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

   - A. 
   - B. 
   - C. 
   - D. 
   - E. 
   - F. 

3. Misc. Information:

4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2. (Notification must be made immediately upon determination.)

   - Name of Registrant (or Registrant's Agent) Contacted (PRINT): 
   - Title: 
   - Date: 

5. PRINTED NAME OF INSPECTOR / QI NUMBER / SIGNATURE: DATE: 

   (If necessary, Tier 1 Reviewer Signature and GI Number)

### SECTION III Registrant's Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

2. PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE: DATE: 

   Signature of Registrant (or Agent)

### MACHINE COMPLIANCE

1. This machine meets conditions of compliance according to Parts 2 & 6.

2. PRINTED NAME OF INSPECTOR / QI NUMBER / SIGNATURE: DATE: 

   (If necessary, Tier 1 Reviewer Signature and GI Number)

RCD 59-1 CE REPORT - July/1994 (This supersedes all previous forms)

GREEN COPY: Page 2 - (FACILITY REGISTRANT'S FILE COPY)
COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT

SECTION I General Information

REASON FOR INSPECTION: [ ] Routine Inspection [ ] Component Replacement [ ] New Machine [ ] Other

Facility Reg. No.: 57030
REGISTRANT / LEGAL OWNER: St. Mary's Hospital & Medical Center

Address: 2635 N. 7th Street, Grand Junction, CO 81502
City: Grand Junction
State: CO
Zip: 81502
Phone Number: (719) 244-2130

Machine Category (check or circle): [ ] Radiographic [ ] Mobile [ ] Fluoroscopic [ ] Mammographic
[ ] Computed Tomography [ ] Dental Intraoral [ ] Panoramic [ ] Cephalometric [ ] Veterinary [ ] Other

Machine NOT initially in Compliance (Complete Section II): [ ] Old Label Number: [ ] Old Expiration Date:

Date of Inspection: 6/20/04

CHECK ONE: [ ] Machine NOT initially in Compliance (Complete Section II) [ ] Old Label Number: [ ] Old Expiration Date:

Machine initially in Compliance (Complete Section IV): [ ] Old Label Number: [ ] Old Expiration Date:

MACHINE CERTIFICATION EVALUATION REPORT

Date (Month/Day/Year): 6/20/04

SECTION II Machine NONCOMPLIANCE

THIS IS A NOTICE OF NONCOMPLIANCE. THIS MUST BE POSTED TO PERMIT INDIVIDUALS TO OBSERVE IT ON THE WAY TO OR FROM ANY REGISTERED ACTIVITY LOCATION TO WHICH THIS DOCUMENT APPLIES.

☐ 1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL:

☐ 2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

☐ A. [ ]

☐ B. [ ]

☐ C. [ ]

☐ D. [ ]

☐ E. [ ]

☐ F. [ ]

3. Misc. Information:

☐ 4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2.

☐ Notification must be made immediately upon determination.

☐ Name of Registrant (or Registrant's Agent) Contacted (PRINT):

☐ Date:

☐ Title:

☐ PRINTED NAME OF INSPECTOR / DR. NUMBER / SIGNATURE

☐ DATE (If necessary, Tier I Reviewer Signature and GI Number)

SECTION III Registrant's Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

☐ PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE

☐ DATE

☐ Signature of Registrant (or Agent)

SERVICE REPAIR CERTIFICATION

I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy - Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

☐ PRINTED Name of Service Person, Service Company, and Registration Number

☐ DATE

☐ Signature of Service Person

SECTION IV Machine COMPLIANCE

1. This machine meets conditions of compliance according to Parts 2 & 6.

☐ PRINTED Name of Inspector / GI Number / SIGNATURE

☐ DATE (If necessary, Tier I Reviewer Signature and GI Number)

New Label Number: 75780
Expiration Date: May-2005

RCD 58-1 CE REPORT July/1994 (This supersedes all previous forms)
GREEN COPY: Page 2 - (FACILITY REGISTRANT'S FILE COPY)
COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT

SECTION I  General Information

<table>
<thead>
<tr>
<th>Reason for Inspection</th>
<th>Component</th>
<th>New Machine</th>
<th>Other</th>
<th>Facility Reg. No.</th>
<th>Registrant / Legal Owner</th>
<th>Facility Name (d/b/a)</th>
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<tbody>
<tr>
<td>Routine Inspection</td>
<td></td>
<td></td>
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<td>57030</td>
<td>St Mary's Hospital</td>
<td></td>
</tr>
</tbody>
</table>

Address: 2635 N 7th Ave Grand Junction CO 81501 Phone Number: 072-244-2140

SECTION II  Machine NONCOMPLIANCE

1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL:

2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

   A.
   B.
   C.
   D.
   E.
   F.

3. Misc. Information:

4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2. (Notification must be made immediately upon determination.)

   Name of Registrant (or Registrant's Agent) Contacted (PRINT):

5. PRINTED NAME OF INSPECTOR /GI NUMBER / SIGNATURE

   DATE (If necessary, Tier / Reviewer Signature and GI Number)

SECTION III  Registrant's Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

2. PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE

   DATE, Signature of Registrant (or Agent)

SERVICE REPAIR CERTIFICATION

Check appropriate box:

☐ I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

☐ Because of conditions noted on the attached Service Repair Order (SRO), I was NOT able to repair this equipment (Note to Service Co: SRO MUST BE ATTACHED TO THIS CE).

3. PRINTED Name of Service Person, Service Company, and Registration Number

   DATE, Signature of Service Person

SECTION IV  Machine COMPLIANCE

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<td>11/05</td>
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(Note to Service Co: SRO MUST BE ATTACHED TO THIS CE)
**COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION**

**X-RAY MACHINE CERTIFICATION EVALUATION REPORT**

**SECTION I General Information**

<table>
<thead>
<tr>
<th>REASON FOR INSPECTION:</th>
<th>Routine Inspection</th>
<th>☑</th>
<th>Component Replacement</th>
<th>☑</th>
<th>New Machine</th>
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<th>Other</th>
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<td>REGISTRANT / LEGAL OWNER:</td>
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<td>Machine Category (check or circle):</td>
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</table>

**SECTION II Machine NONCOMPLIANCE**

This is a notice of noncompliance. This must be posted to permit individuals to observe it on the way to or from any registered activity location to which this document applies.

- **1.** The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL #:

- **2.** The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

| A. | | | | |
| B. | | | | |
| C. | | | | |
| D. | | | | |
| E. | | | | |
| F. | | | | |

3. Misc. Information:

- **4.** I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2.

   (Notification must be made immediately upon determination.)

   Name of Registrant (or Registrant's Agent) Contacted (PRINT): 

   Title: 

5. PRINTED NAME OF INSPECTOR / Qi NUMBER / SIGNATURE 

   DATE (If necessary, Tier I Reviewer Signature and Qi Number)

   [Corrected At Time Of Inspection (Or Initials)]

**SECTION III Registrant's Affirmation**

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

2. PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE 

   DATE 

   Signature of Registrant (or Agent) 

**SERVICE REPAIR CERTIFICATION**

- I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy: Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

- Because of conditions noted on the attached Service Repair Order (SRO), I WAS NOT able to repair this equipment. (Note to Service Co: SRO MUST BE ATTACHED TO THIS CE).

3. PRINTED Name of Service Person, Service Company, and Registration Number 

   DATE 

   Signature of Service Person 

**SECTION IV Machine COMPLIANCE**

1. This machine meets conditions of compliance according to Parts 2 & 6.

   PRINTED NAME OF INSPECTOR / Qi NUMBER / SIGNATURE 

   DATE (If necessary, Tier I Reviewer Signature and Qi Number)

   [Corrected At Time Of Inspection (Or Initials)]

   New Label Number: ☑ |

   Expiration Date: ☑ |

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COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT

SECTION I General Information

Facility Reg. No.: 57036
REGISTRANT / LEGAL OWNER: St. Mary's Hospital & Medical Center
Address: 2635 N. 7th Street
City: Grand Junction
State: Phone Number: (970) 244-9140
ZIP: 81502

Machine Category (check or circle): ☐ Radiographic ☐ Mobile
☐ Fluoroscopic ☐ Mammographic
☐ Computed Tomography ☐ Dental Imaging
☐ Panoramic ☐ Cephalometric
☐ Veterinary ☐ Other ☐

Machine NOT Initially In Compliance (Complete Section II)

Date of Inspection: 06/19/04
CHECK ONE: ☐ Machine NOT Initially In Compliance (Complete Section II)
☐ Machine initially In Compliance (Complete Section IV)

Corrected At Time Of Inspection (if Initial)

SECTION II Machine NONCOMPLIANCE

THIS IS A NOTICE OF NONCOMPLIANCE. THIS MUST BE POSTED TO PERMIT INDIVIDUALS TO OBSERVE IT ON THE WAY TO OR FROM ANY REGISTERED ACTIVITY LOCATION TO WHICH THIS DOCUMENT APPLIES.

☐ 1. The radiation machine identified above is unsafe for human use. The machine shall not be used
         thereafter until repaired and recertified by a licensed inspector. UNSAFE FOR HUMAN USE LABEL #:

☐ 2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

☐ A. ☐ B. ☐ C. ☐ D. ☐ E. ☐ F.

☐ Misc. Information:

☐ 4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2.
             (Notification must be made immediately upon determination.)

☐ Name of Registrant (or Registrant's Agent) Contacted (PRINT): ________________________________
☐ Title:

☐ 5. PRINTED NAME OF INSPECTOR / QI NUMBER / SIGNATURE ____________________________ DATE __________________
             (if necessary, Tier I Reviewer Signature and Ql Number)

SECTION III Registrant's Affirmation

☐ 1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department. (see notes on back).

☐ 2. PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE __________________ DATE ________________

☐ Signature of Registrant (or Agent)

SERVICE REPAIR CERTIFICATION

I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations.

☐ Canary Copy: Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

☐ 3. PRINTED Name of Service Person, Service Company, and Registration Number __________________ DATE ____________

☐ Signature of Service Person

SECTION IV Machine COMPLIANCE

☐ 1. This machine meets conditions of compliance according to Parts 2 & 6.

☐ 2. PRINTED NAME OF INSPECTOR / QI NUMBER / SIGNATURE __________________ DATE ________________

☐ New Label Number: 75779

☐ Expiration Date: MAY 2005

☐ PRINTED NAME OF REGISTRANT / QI NUMBER / SIGNATURE __________________ DATE ________________

☐ Green Copy: Page 2 - (FACILITY REGISTRANT'S FILE COPY)
COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT

USE BALLPOINT-PRESS FIRMLY

SECTION I General Information

REASON FOR INSPECTION: [ ] Routine Inspection [ ] Component Replacement [ ] New Machine [ ] Other

Facility Reg. No.: [ ] REGISTRANT / LEGAL OWNER: [ ]

Address: [ ] City: [ ] State: [ ] Zip: [ ] Phone Number: [ ]

Machine Category (check or circle): [ ] Radiographic [ ] Mobile [ ]

Control Mfg. Name: [ ] Control Model Type: [ ] Control Serial No.: [ ]

Component [ ] New Machine [ ] Replacement

Tube Room #: [ ] Tube Mfg. Name: [ ] Tube Model Type: [ ] Tube Serial # (check which one): [ ]

Tube- Date of Mfg: [ ]

Date of Inspection: [ ] CHECK: [ ] Machine NOT Initially in Compliance (Complete Section II) [ ] Old Label Number: [ ]

ONE: [ ] Machine Initially in Compliance (Complete Section IV) [ ] Old Expiration Date: [ ]

SECTION II Machine NONCOMPLIANCE

THIS IS A NOTICE OF NONCOMPLIANCE. THIS MUST BE POSTED TO PERMIT INDIVIDUALS TO OBSERVE IT ON THE WAY TO OR FROM ANY REGISTERED ACTIVITY LOCATION TO WHICH THIS DOCUMENT APPLIES.

☐ 1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL #: [ ]

☐ 2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

☐ A. [ ]

☐ B. [ ]

☐ C. [ ]

☐ D. [ ]

☐ E. [ ]

☐ F. [ ]

3. Misc. Information:

☐ 4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2. (Notification must be made immediately upon determination.)

☐ Name of Registrant (or Registrant’s Agent) Contacted (PRINT): [ ]

☐ DATE: [ ]

☐ Title: [ ]

☐ If necessary, Tier I Reviewer Signature and CI Number:

SECTION III Registrant’s Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

☐ PRINTED NAME OF REGISTRANT OR REGISTRANT’S AGENT / TITLE: [ ]

☐ DATE: [ ]

☐ Signature of Registrant (or Agent):

SECTION IV Machine COMPLIANCE

1. This machine meets conditions of compliance according to Parts 2 & 6.

☐ PRINTED NAME OF INSPECTOR / QI NUMBER / SIGNATURE: [ ]

☐ DATE: [ ]

☐ Signature of Service Person:

☐ New Label Number: [ ]

☐ Expiration Date: [ ]

☐ RCD 59-1 CE REPORT July/1995 (This supersedes all previous forms)

GREEN COPY: Page 2 - (FACILITY REGISTRANT'S FILE COPY)
COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION

X-RAY MACHINE CERTIFICATION EVALUATION REPORT

SECTION I General Information

REASON FOR INSPECTION: ☑ Routine Inspection ☐ Component Replacement ☑ New Machine ☐ Other

Facility Reg. No.: 57030 St. Mary's Hospital & Medical Center

Address: 2635 N. 7th Street, Grand Junction, CO 81502 (970) 241-2146

Machine Category (check or circle):
☐ Radiographic ☑ Mobile ☐ Fluoroscopic ☑ Mammographic ☐ Computed Tomography
☐ Dental Intraoral ☐ Panoramic ☑ Cephalometric
☐ Veterinary ☐ Other

Tube Room #: A
Control Mfg. Name: GE
Control Model Type: Advantage
Control Serial No.: 67813 VPT

Machine NOT initially in Compliance (Complete Section II)

Date of Inspection: 6/20/04

SECTION II Machine NONCOMPLIANCE

THIS IS A NOTICE OF NONCOMPLIANCE. THIS MUST BE POSTED TO PERMIT INDIVIDUALS TO OBSERVE IT ON THE WAY TO OR FROM ANY REGISTERED ACTIVITY LOCATION TO WHICH THIS DOCUMENT APPLIES.

☐ 1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL #:

☐ 2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

☐ A. 

☐ B. 

☐ C. 

☐ D. 

☐ E. 

☐ F. 

☐ G. 

☐ H. 

☐ I. 

☐ J. 

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☐ N. 

☐ O. 

☐ P. 

☐ Q. 

☐ R. 

☐ S. 

☐ T. 

☐ U. 

☐ V. 

☐ W. 

☐ X. 

☐ Y. 

☐ Z. 

☐ 3. Misc. Information:

☐ 4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2.

☐ Name of Registrant (or Registrant’s Agent) Contacted (PRINT): 

☐ Title: 

☐ PRINTED NAME OF INSPECTOR / QI NUMBER / SIGNATURE: 

☐ DATE: 

If necessary, Tier I Reviewer Signature and GI Number)

SECTION III Registrant’s Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

☐ PRINTED NAME OF REGISTRANT OR REGISTRANT’S AGENT / TITLE: 

☐ DATE: 

Signature of Registrant (or Agent)

SERVICE REPAIR CERTIFICATION

I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy - Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

☐ PRINTED Name of Service Person, Service Company, and Registration Number: 

☐ DATE: 

Signature of Service Person

SECTION IV Machine COMPLIANCE

New Label Number: 75778 Expiration Date: MAY 2005

☐ PRINTED NAME OF INSPECTOR / QI NUMBER / SIGNATURE: 

☐ DATE: 

If necessary, Tier I Reviewer Signature and GI Number)

GREEN COPY: Page 2 - (FACILITY REGISTRANT'S FILE COPY)
**X-RAY MACHINE CERTIFICATION EVALUATION REPORT**

**SECTION I General Information**

- **Reason for Inspection:** [ ] Routine Inspection  [ ] Component Replacement  [ ] New Machine  [ ] Other
- **Facility Reg. No.:**
- **REGISTRANT / LEGAL OWNER:**
- **Address:**
- **City:**
- **State:**
- **Zip:**
- **Phone Number:**
- **Contact Person:**

**Date of Inspection:** 11/11/85

**Machine Category (check or circle):**
- [ ] General Radiographic
- [ ] Fluoroscopic
- [ ] Mammographic
- [ ] Computed Tomography
- [ ] Dental Introral
- [ ] Panoramic
- [ ] Cephalometric
- [ ] Veterinary
- [ ] Other

**Tube Room:**

**Control Mfg. Name:** GE

**Control Model Type:** 1694D

**Control Serial No.:** 76711E58 10/6

**Date of Mfg.:**

**Machine Not Initially In Compliance (Complete Section II)**

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<thead>
<tr>
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<th>Category</th>
<th>Mfg. Name</th>
<th>Model Type</th>
<th>Serial No.</th>
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<td>[ ] GE</td>
<td>[ ] 1694D</td>
<td>[ ] 76711E58</td>
<td>[ ] 10/6</td>
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</table>

**Date Initial/Date of Mfg.:**

**Certification Authorization (Notify Reg. or Registrar's Agent):**

**SERVICE REPAIR CERTIFICATION**

- [ ] I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations.
- [ ] The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations.

**Reason for Inspection:**

- [ ] To permit individuals to observe it on the way to or from any registered activity location to which this document applies.
- [ ] To permit individuals to observe it on the way to or from any registered activity location to which this document applies.

**Certified Authorization:**

**Name of Registrar (or Registrar's Agent):**

**Contact Person:**

**Date:** 11/11/85

**Certification Authority:**

**Registration Authority:**

**Registering Authority:**

**Date Initial/Date of Mfg.:**

**Machine Not Initially In Compliance (Complete Section II)**

**EXPIRATION DATE:**

**New Label Number:**

**Expiration Date:** 73527 11/4

**Date:** (If necessary, Tier I Reviewer Signature and Oi Number)
COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT

SECTION I General Information

[Table with columns for Reason for Inspection, Machine Category, Machine Mfg. Name, Control Model Type, Control Serial No., etc., filled in with information]

SECTION II Machine NONCOMPLIANCE

This is a notice of noncompliance. This must be posted to permit individuals to observe it on the way to or from any registered activity location to which this document applies.

☐ 1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL:

☐ 2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

A. [Inspected Date]
   [Deficiency Description]

B. [Deficiency Description]

C. [Deficiency Description]

D. [Deficiency Description]

E. [Deficiency Description]

F. [Deficiency Description]

3. Misc. Information:

☐ I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2. (Notification must be made immediately upon determination.)

Name of Registrant (or Agent) Contacted

☐ 5. PRINTED NAME OF INSPECTOR 7TH NUMBER / SIGNATURE
   [Name]
   [Signature]
   [DATE]

SECTION III Registrant's Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

☐ 2. PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE
   [Name]
   [Title]
   [DATE]
   [Signature]

SERVICE REPAIR CERTIFICATION

☐ I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified in a manner to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy-Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

☐ Because of conditions noted on the attached Service Repair Order (SRO), I was NOT able to repair this equipment (Note: Service Co. SRO MUST BE ATTACHED TO THIS CE).

☐ 3. PRINTED Name of Service Person, Service Company, and Registration Number
   [Name]
   [Company]
   [Registration Number]
   [DATE]
   [Signature]

SECTION IV Machine COMPLIANCE

1. This machine meets conditions of compliance according to Parts 2 & 6.

☐ 2. PRINTED NAME OF INSPECTOR / CN NUMBER / SIGNATURE
   [Name]
   [Signature]
   [DATE]

NEW LABEL NUMBER: 
[New Label Number]
EXPIRATION DATE: 
[Expiration Date]

[Signature]
[Date]

RCDD/ CE REPORT July/1995 (This supersedes all previous forms)
GREEN COPY: Page 2 - (FACILITY REGISTRANT'S FILE COPY)
**COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION**

**X-RAY MACHINE CERTIFICATION EVALUATION REPORT**

### SECTION I General Information

- **Facility Reg. No.:** 57020
- **Facility Name (abbr.):** ST MARY'S HOSPITAL & MEDICAL CENTER
- **Contact Person:** DAVID THOMPSON

#### Machine Information

<table>
<thead>
<tr>
<th>Machine Category</th>
<th>Tube Room</th>
<th>Control Mfg. Name</th>
<th>Control Model Type</th>
<th>Control Serial No.</th>
<th>Correct Date of Mfg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-Ray Fluoroscopic</td>
<td>CTSTO</td>
<td>Cysto Ops</td>
<td>OEC</td>
<td>UROVIEW 2600</td>
<td>W20247</td>
</tr>
</tbody>
</table>

**Address:** 2635 NITH STREET, GRAND JUNCTION, CO 81502- (970)244-2140

**City:** State: Zip: Phone Number: 

### SECTION II Machine NONCOMPLIANCE

1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. **UNSAFE FOR HUMAN USE LABEL #:**

2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

   - [ ] A.
   - [ ] B.
   - [ ] C.
   - [ ] D.
   - [ ] E.
   - [ ] F.

### SECTION III Registrant's Affirmation

1. **Certification:** I affirm that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

   - Printed Name of Registrant or Registrant's Agent: **Title:**

   - Date: **Signature:**

### SECTION IV Machine COMPLIANCE

1. **New Label Number:** 76933

2. **Expiry Date:** 8/05

**RCD 59-1 CE REPORT July/1994** (This supersedes all previous forms)
COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT

SECTION I General Information

REASON FOR INSPECTION:

Facility E#: 57030
REGISTRANT/LEGAL OWNER:

Address:

City:

State:

Zip:

Phone Number:

Machine Category (check or circle):

Tube Room #:

Control Mfg. Name:

Control Model Type:

Control Serial No.:

Date of Inspection:

CHECK: ONE: Machine NOT Initially In Compliance (Complete Section II) OR Machine initially in Compliance (Complete Section IV)

SECTION II Machine NONCOMPLIANCE

1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL:

☐ A. 

☐ B. 

☐ C. 

☐ D. 

☐ E. 

☐ F.

3. Misc. Information:

☐ 4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2. (Notification must be made immediately upon determination.)

Name of Registrant or Registrant's Agent Contacted (PRINT)

Date:

SECTION III Registrant's Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

2. PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT/TITLE

DATE

Signature of Registrant (or Agent)

SERVICE REPAIR CERTIFICATION

☐ Check appropriate box:

☐ I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy: Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

☐ Because of conditions noted on the attached Service Repair Order (SRO), I was NOT able to repair this equipment. (Note to Service Co: SRO MUST BE ATTACHED TO THIS CE).

3. PRINTED Name of Service Person, Service Company, and Registration Number

DATE

Signature of Service Person

SECTION IV Machine COMPLIANCE

1. This machine meets conditions of compliance according to Parts 2 & 6.

2. PRINTED NAME OF INSPECTOR / # NUMBER / SIGNATURE

DATE

Signature of Inspector

New Label Number:

Expiration Date:

RCD 59- CE REPORT July/95 (This supersedes all previous forms)
GREEN COPY: Page 2 - (FACILITY REGISTRANT'S FILE COPY)
COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION

X-RAY MACHINE CERTIFICATION EVALUATION REPORT

USE BALLPOINT- PRESS FIRMLY

SECTION I - General Information

Reason for Inspection: [ ] Routine [ ] Component Replacement [ ] New Machine [ ] Other

Contact Person: DAVID THOMPSON

Facility Name: ST MARY'S HOSPITAL & MEDICAL CENTER

Address: 57030 STMARY'S HOSPITAL & MEDICAL CENTER

City: GRAND JUNCTION

State: CO

Zip: 81501

Phone Number:

Machine Category (check or circle): [ ] Radiographic [ ] Mobile
[ ] Fluoroscopic [ ] Mammographic
[ ] Computed Tomography

Machine NOT Initially in Compliance (Complete Section II)

Old Label Number: 76912

Old Expiration Date: 7/10/2004

Control Mfg. Name: OEC

Control Model Type: 9800

Control Serial No.: 82-1154

Control Date of Mfg.: 01-Jun-01

Tube Room #: C-6

Tube Mfg. Name: VARIAN

Tube Model Type: RAD 98

Tube Serial #: 37629-1G

Tube Date of Mfg.: 01-Jun-01

Date of Inspection: 7/26/01

SECTION II - Machine NONCOMPLIANCE

This is a notice of noncompliance. This must be posted to permit individuals to observe it on the way to or from any registered activity location to which this document applies.

☐ 1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and re-certified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL #: -------------

☐ 2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

☐ A.

☐ B.

☐ C.

☐ D.

☐ E.

☐ F.

☐ Misc. Information:

☐ 4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2.

☐ (Notification must be made immediately upon determination.)

Name of Registrant (or Registrant's Agent) Contacted (PRINT): ____________________________

Title: ____________________________

☐ 5. PRINTED NAME OF INSPECTOR / QI NUMBER / SIGNATURE ____________________________

DATE 7/26/01 (If necessary, Tier I Reviewer Signature and QI Number)

SECTION III - Registrant's Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

☐ 2. PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE ____________________________

Signature of Registrant (or Agent) ____________________________

DATE 7/26/01

SERVICE REPAIR CERTIFICATION

I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy - Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

☐ 3. PRINTED Name of Service Person, Service Company, and Registration Number ____________________________

Signature of Service Person ____________________________

DATE 7/26/01

SECTION IV - Machine COMPLIANCE

☐ 1. This machine meets conditions of compliance according to Parts 2 & 6.

☐ 2. PRINTED NAME OF INSPECTOR / QI NUMBER / SIGNATURE ____________________________

Signature of Inspector ____________________________

DATE 7/26/01 (If necessary, Tier I Reviewer Signature and QI Number)

New Label Number: 76912

Expiration Date: 7/10/2004

GREEN COPY: Page 2 - (FACILITY REGISTRANT'S FILE COPY)

RCD 59-1 CE REPORT July/1994

This supersedes all previous forms

76912
COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT

SECTION I General Information

REASON FOR INSPECTION: [ ] Routine Inspection [ ] Componental Replacement [ ] New Machine [ ] Other

Contact Person:

Facility Reg. No.:

REGISTRANT / LEGAL OWNER:

Facility Name (if any):

Address:

City:

State:

Zip:

Phone Number:

Machine Category (check or circle):

- [ ] Radiographic
- [ ] Mobile
- [ ] Fluoroscopic
- [ ] Mammographic
- [ ] Computed Tomography
- [ ] Dental Intracranial
- [ ] Panoramic
- [ ] Cephalometric
- [ ] Veterinary
- [ ] Other

Tube Room #:

Control Mfg. Name:

Control Model Type:

Control Serial No.:

Cnti-Date of Mfg:

Date of Inspection:

CHECK [ ] Machine NOT initially in Compliance (Complete Section II)

SECTION II Machine NONCOMPLIANCE

THIS IS A NOTICE OF NONCOMPLIANCE. THIS MUST BE POSTED TO PERMIT INDIVIDUALS TO OBSERVE IT ON THE WAY TO OR FROM ANY REGISTERED ACTIVITY LOCATION TO WHICH THIS DOCUMENT APPLIES.

☐ 1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL #:

☐ 2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

☐ A.

☐ B.

☐ C.

☐ D.

☐ E.

☐ F.

☐ 3. Misc. Information:

☐ 4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2.

☐ Notification must be made immediately upon determination.

☐ Name of Registrant (or Registrant's Agent) Contacted (PRINT):

☐ 5. PRINTED NAME OF INSPECTOR 7 QI NUMBER / SIGNATURE DATE (if necessary, Tier I Reviewer Signature and Qi Number)

SECTION III Registrant's Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the items(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

☐ 2. PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE DATE Signature of Registrant (or Agent)

SERVICE REPAIR CERTIFICATION

☐ I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Cabal Copy - Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

☐ Because of conditions noted on the attached Service Repair Order (SRO), I was NOT able to repair this equipment (Note to Service Co: SRO MUST BE ATTACHED TO THIS CE).

☐ 3. PRINTED Name of Service Person, Service Company, and Registration Number DATE Signature of Service Person

SECTION IV Machine COMPLIANCE

☐ 1. This machine meets conditions of compliance according to Parts 2 & 6.

☐ 2. PRINTED NAME OF INSPECTOR / QI NUMBER / SIGNATURE DATE (if necessary, Tier I Reviewer Signature and Qi Number)

RCD 59-1 CE REPORT July 1995 (This supersedes all previous forms)

GREEN COPY: Page 2 - (FACILITY REGISTRANT'S FILE COPY)
**COLOMDO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION**

**X-RAY MACHINE CERTIFICATION EVALUATION REPORT**

**SECTION I** General Information

<table>
<thead>
<tr>
<th>Reason for Inspection</th>
<th>Machine Category (check or circle)</th>
<th>Machine NOT initially in Compliance (Complete Section II)</th>
<th>Machine initially in Compliance (Complete Section IV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routine Inspection</td>
<td>Radiographic</td>
<td>A.</td>
<td></td>
</tr>
<tr>
<td>Composition</td>
<td>Mobile</td>
<td>B.</td>
<td></td>
</tr>
<tr>
<td>New Machine</td>
<td>Cephalometric</td>
<td>C.</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>Dental Intraoral</td>
<td>D.</td>
<td></td>
</tr>
<tr>
<td>Facility Reg. No.</td>
<td>Oral</td>
<td>E.</td>
<td></td>
</tr>
<tr>
<td>REGISTRANT / LEGAL OWNER:</td>
<td>ORC 9600</td>
<td>F.</td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td>Serial Number:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td>Control Mfg. Name:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>State:</td>
<td>Control Model Type:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zip:</td>
<td>Control Serial No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td>Contributing Date of Mfg:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date of Inspection:</td>
<td>Machine Name:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SECTION II** Machine NONCOMPLIANCE

**THIS IS A NOTICE OF NONCOMPLIANCE. THIS MUST BE POSTED TO PERMIT INDIVIDUALS TO OBSERVE IT ON THE WAY TO OR FROM ANY REGISTERED ACTIVITY LOCATION TO WHICH THIS DOCUMENT APPLIES.**

- The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. **UNSAFE FOR HUMAN USE LABEL #:**

- The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

- **A.**
- **B.**
- **C.**
- **D.**
- **E.**
- **F.**

**3. Misc. information:**

4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2. (Notification must be made immediately upon determination.)

**Name of Registrant (or Registrant's Agent) Contacted (PRINT):**

5. **PRINTED NAME OF INSPECTOR / OR NUMBER / SIGNATURE**

**SECTION III** Registrant's Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

2. **PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE**

**DATE**

**Signature of Registrant (or Agent):**

**SERVICE REPAIR CERTIFICATION**

- I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified and adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy- Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

- Because of conditions noted on the attached Service Repair Order (SRO), I was NOT able to repair this equipment. (Note to Service Co: SRO MUST BE ATTACHED TO THIS CE).

3. **PRINTED NAME of Service Person, Service Company, and Registration Number**

**DATE**

**Signature of Service Person:**

**SECTION IV** Machine COMPLIANCE

1. This machine meets conditions of compliance according to Parts 2 & 6.

2. **PRINTED NAME OF INSPECTOR / OR NUMBER / SIGNATURE**

**DATE**

**Signature of Inspector:**

RCD 59-1 CE REPORT July/1995 (This supercedes all previous forms)

GREEN COPY: Page 2 - (FACILITY REGISTRANT'S FILE COPY)
USE BALLPOINT-PRESS FIRMLY

COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT

SECTION I General Information

REASON FOR INSPECTION: [ ] Routine Inspection [ ] Component Replacement [ ] New Machine [ ] Other

Facility Reg. No.: 57030
REGISTRANT / LEGAL OWNER: St. Mary's Hospital & Medical Center

Facility Name: [ ] City: [ ] State: [ ] Zip: [ ] Phone Number: 81502 (970) 244-2140

Address: 2655 W. 7th Street, Grand Junction
Machine Category (check or circle): [ ] Radiographic [ ] Mobile [ ] Other

[ ] Fluoroscopic [ ] Mammographic [ ] Computed Tomography

[ ] Dental Intrarad [ ] Panoramic [ ] Cephalometric [ ] Veterinary

[ ] Tube Room # [ ] Control Mfg. Name: GE [ ] Control Model Type: Precision 500D

[ ] Control Serial No.: BRX 2M R [ ] Control Date of Mfg.: 3/03

Date of Inspection: 6/19/04

CHECK: [ ] Machine NOT initially in Compliance (Complete Section II) [ ] Machine initially in Compliance (Complete Section III)

Old Label Number: 68543 Old Expiration Date: MAY 2005

SECTION II Machine NONCOMPLIANCE

THIS IS A NOTICE OF NONCOMPLIANCE. THIS MUST BE POSTED TO PERMIT INDIVIDUALS TO OBSERVE IT ON THE WAY TO OR FROM ANY REGISTERED ACTIVITY LOCATION TO WHICH THIS DOCUMENT APPLIES.

☐ 1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL #:

☐ 2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.


☐ 3. Misc. Information:

☐ 4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2. (Notification must be made immediately upon determination.)

Name of Registrant (or Registrant's Agent) Contacted (PRINT):

☐ Signature (or Agent) DATE

SECTION III Registrant's Affirmation

☐ 1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

☐ PRINTED NAME OF REGISTRANT OR REGISTRANT’S AGENT / TITLE DATE

SECTION IV Machine COMPLIANCE

☐ 1. This machine meets conditions of compliance according to Parts 2 & 6.

☐ 2. PRINTED NAME OF SERVICE PERSON, SERVICE COMPANY, AND REGISTRATION NUMBER DATE

SERVICE REPAIR CERTIFICATION

I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy - Page 3 (Service Report) shall be maintained in the service company’s records for department review upon request.

☐ PRINTED Name of Service Person, Service Company, and Registration Number DATE

SECTION V Machine COMPLIANCE

☐ New Label Number: 75781 Expiration Date: MAY 2005

RCD 591 - CE REPORT July/1994 (This supersedes all previous forms)

GREEN COPY: Page 2 - (FACILITY REGISTRANT'S FILE COPY)
COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT

USE BALLPOINT - PRESS FIRMLY

SECTION I General Information

Reason for Inspection: [ ] Routine Inspection [ ] Component Replacement [ ] New Machine [ ] Other

Certification Division: [ ] Facility Name (e.g., Hospital)

Contact Person: DAVID THOMPSON

Address: 2635 N 7TH STREET

City: GRAND JUNCTION

State: CO

Zip: 81502

Phone Number: (970) 244-2140

Date of Inspection: 8/24/04

Machine NOT Initially in Compliance (Complete Section II)

Machine initially in Compliance (Complete Section IV)

Old Label Number: 66342

Old Expiration Date: 8/1/04

SECTION II Machine NONCOMPLIANCE

This is a NOTICE OF NONCOMPLIANCE. This MUST be posted to permit individuals to observe it on the way to or from any registered activity location to which this document applies.

☐ 1. The radiation machine identified above is unsafe for human use. The machine shall not be used until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL:

☐ 2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

☐ A.

☐ B.

☐ C.

☐ D.

☐ E.

☐ F.

3. More Information:

☐ 4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and recommendations as specified in Section II 1 & 2.

☐ Notification must be made immediately upon determination.

Name of Registrant (or Registrant's Agent) Contacted (PRINT):

☐ 5. PRINTED NAME OF INSPECTOR / GI NUMBER / SIGNATURE

DATE

(Fill in initials)

SECTION III Registrant's Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notice on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

☐ 2. PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE

DATE

Signature of Registrant (or Agent)

SERVICE REPAIR CERTIFICATION

I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy: Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

☐ 3. PRINTED NAME OF SERVICE PERSON, SERVICE COMPANY, AND REGISTRATION NUMBER

DATE

Signature of Service Person

SECTION IV Machine COMPLIANCE

1. This machine meets conditions of compliance according to Parts 2 & 6.

☐ 2. PRINTED NAME OF INSPECTOR / GI NUMBER / SIGNATURE

DATE

(Fill in initials)

NEW LABEL NUMBER:

EXPIRATION DATE:

RCD 58-1 CE REPORT July 1994 (This supersedes all previous forms)

GREEN COPY: Page 2 of FACILITY REGISTRANT'S FILE COPY

76911

Signature of Service Person

76911
SECTION I General Information

Reason for Inspection: 

Component Replacement

New Machine

Other

Contact Person: 

DAVID THOMPSON

Facility Name (Station): 

57030

ST MARY'S HOSPITAL PROVILLION

Address: 

750 WELLINGTON AVE

GRAND JUNCTION, CO 81501

City: 

State: 

Zip: 

Phone Number: 

SECTION II Machine NONCOMPLIANCE

THIS IS A NOTICE OF NONCOMPLIANCE. MUST BE POSTED TO PERMIT INDIVIDUALS TO OBSERVE IT ON THE WAY TO OR FROM ANY REGISTERED ACTIVITY LOCATION TO WHICH THIS DOCUMENT APPLIES.

1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL #:

2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

A. 

B. 

C. 

D. 

E. 

F. 

3. Misc. Information:

4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2. (Notification must be made immediately upon determination.)

Name of Registrant (or Registrant's Agent) Contacted (PRINT): 

Title: 

PRINTED NAME OF INSPECTOR / GI NUMBER / SIGNATURE DATE (If necessary, Tier I Reviewer Signature and GI Number)

SECTION III Registrant's Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE DATE Signature of Registrant (or Agent)

SERVICE REPAIR CERTIFICATION

I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy: Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

PRINTED Name of Service Person, Service Company, and Registration Number DATE Signature of Service Person

SECTION IV Machine COMPLIANCE

1. This machine meets conditions of compliance according to Parts 2 & 6.

PRINTED NAME OF INSPECTOR / GI NUMBER / SIGNATURE DATE (If necessary, Tier I Reviewer Signature and GI Number)

New Label Number: 

Expiration Date: 

GREEN COPY: Page 2 - (FACILITY REGISTRANT'S FILE COPY)
COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT

SECTION I General Information

REASON FOR INSPECTION: Routine Inspection
Component Replacement
New Machine
Other

Contact Person:
DAVID THOMPSON

Facility Reg. No.:
REGISTRANT / LEGAL OWNER:
57030
ST MARY'S HOSPITAL PROVIIION

Address:
City:
State:
Zip:
Phone Number:

SECTION II Machine NONCOMPLIANCE

1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL #:

2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

A. 
B. 
C. 
D. 
E. 
F. 

3. Misc. Information:

4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II, 1 & 2.

Name of Registrant (or Registrant's Agent) Contacted (PRINT): 
Title: 

5. PRINTED NAME OF INSPECTOR / GI NUMBER / SIGNATURE 
DATE: 

(If necessary, Tier I Reviewer Signature and GI Number)

SECTION III Registrant's Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

2. PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE 
DATE: 

Signature of Registrant (or Agent)

SERVICE REPAIR CERTIFICATION

I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy - Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

3. PRINTED Name of Service Person, Service Company, and Registration Number 
DATE: 

Signature of Service Person

SECTION IV Machine COMPLIANCE

1. This machine meets conditions of compliance according to Parts 2 & 6.

New Label Number: 
Expiration Date: 

2. PRINTED NAME OF INSPECTOR / GI NUMBER / SIGNATURE 
DATE: 

(If necessary, Tier I Reviewer Signature and GI Number)
COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT

SECTION I  General Information

REASON FOR INSPECTION:

☐ Routine Inspection ☐ Component Replacement ☐ New Machine ☐ Other

Facility Reg. No.:

57030

ST MARY'S HOSPITAL PROVILLION

Address:

750 WELLINGTON AVE

City:

GRAND JUNCTION

State:

CO

Zip:

81502

Phone Number:

(970) 244-2140

Date of Inspection:

8/24/04

SECTION II Machine NONCOMPLIANCE

THIS IS A NOTICE OF NONCOMPLIANCE. THIS MUST BE POSTED TO PERMIT INDIVIDUALS TO OBSERVE IT ON THE WAY TO OR FROM ANY REGISTERED ACTIVITY LOCATION TO WHICH THIS DOCUMENT APPLIES.

☐ 1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL #:

☐ 2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

☐ A. Inspected Later 3

☐ B. Inspected Later 2

☐ C. Inspected Later 1

☐ D. Inspected Later 4

☐ E. Inspected Later 5

☐ F. Inspected Later 6

☐ 3. Issue Information:

☐ 4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2. (Notification must be made immediately upon determination.)

Name of Registrant (or Registrant's Agent) Contacted (PRINT):

Title:

☑ 5. PRINTED NAME OF INSPECTOR / GI NUMBER / SIGNATURE

☐ Date

☐ Title

☐ If necessary, Tier II Reviewer Signature and GI Number

SECTION III Registrant's Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the Item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the Item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

☐ 2. PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE

Date

Signature of Registrant (or Agent)

SECTION IV Machine COMPLIANCE

1. This machine meets conditions of compliance according to Parts 2 & 6.

☐ 2. PRINTED NAME OF INSPECTOR / GI NUMBER / SIGNATURE

Date

If necessary, Tier II Reviewer Signature and GI Number

COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT
COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION

X-RAY MACHINE CERTIFICATION EVALUATION REPORT

USE BALLPOINT- PRESS FIRMLY

SECTION I General Information

REASON FOR INSPECTION: [ ] Routine Inspection [ ] Component Replacement [ ] New Machine [ ] Other

Facility Reg. No.: 57030
REGISTRANT / LEGAL OWNER: ST MARY'S HOSPITAL PROVILLION

Address: 50 WELLINGTON AVE
City: GRAND JUNCTION
State: CO
Zip: 81502

Contact Person: DAVID THOMPSON
Contact Number: (970)244-2140

Machine Category (check or circle): [ ] Radiography [ ] Mobile

Machine Identification:

Tube Room #: Control Mfg. Name: Control Model Type: Control Model No.: CONTR- Date of Mfg:
2111 GE 228299 BRC2MU 01-Jan-03

Date of Inspection: 01-Nov-02

SECTION II Machine NONCOMPLIANCE

This is a Notice of Noncompliance. This Must be Posted to Permit Individuals to Observe it on the Way to or from Any Registered Activity Location to Which This Document Applies.

☐ 1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL.

☐ 2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

A. 
B. 
C. 
D. 
E. 
F. 

☐ 3. Misc. Information:

4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2. (Notification must be made immediately upon determination.)

Name of Registrant (or Registrant's Agent Contacted): PRINTED NAME OF INSPECTOR / GI NUMBER / SIGNATURE

DATE (If necessary, Tier I Reviewer Signature and GI Number)

SECTION III Registrant's Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE

DATE Signature of Registrant (or Agent)

SECTION IV Machine COMPLIANCE

1. This machine meets conditions of compliance according to Parts 2 & 6.

PRINTED NAME OF INSPECTOR / GI NUMBER / SIGNATURE

DATE (If necessary, Tier I Reviewer Signature and GI Number)

New Label Number: 56893 Expiration Date: 7/1/05

SERVICE REPAIR CERTIFICATION

I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy: Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

3. PRINTED NAME OF SERVICE PERSON, SERVICE COMPANY, AND REGISTRATION NUMBER

DATE Signature of Service Person

RC0 59-1 CE REPORT July/1994 (This supersedes all previous forms)

GREEN COPY: Page 2 - (FACILITY REGISTRANT'S FILE COPY)
COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT

This report details findings of the qualified inspector regarding your compliance with the requirements of the Colorado Rules and Regulations Pertaining to Radiation Control (Regulations).

SECTION I  GENERAL INFORMATION

Reg No: 42008  Tube ID: 1  Registrant: Paul Salmen MD
Facility Name: Glenwood Medical Associates  Contact Person: Mary Brennan

Address: 1830 Blake Avenue  City: Glenwood Springs  State: CO  Zip: 81602

Room Number:  Machine Manufacturer: Sedecal  Machine Model Type: SHF-520RF
Control Serial No: G-13581  Manufacture Date: October 2000

Machine Category: Radiographic  Tube Manufacturer: Varian  Tube Model Type: RAD 60
Tube Serial No: 18981-0U  Manufacture Date: October 2001

Date of Inspection: 6-24-04  Reason for Inspection: Initial Machine Compliance Status: INS COMPLIANCE
Old Label Number: 71392  Old Expiration Date: May 2004

SECTION II  MACHINE NONCOMPLIANCE INFORMATION

APPLICABLE

THIS IS A NOTICE OF NON-COMPLIANCE. THIS REPORT MUST BE POSTED TO PERMIT INDIVIDUALS TO OBSERVE IT ON THE WAY TO OR FROM ANY REGISTERED ACTIVITY LOCATION TO WHICH THIS DOCUMENT APPLIES.

THE RADIATION MACHINE IDENTIFIED ABOVE IS UNSAFE FOR HUMAN USE. THE MACHINE SHALL NOT BE USED HEREAFTER UNTIL REPAIRED AND RECERTIFIED BY A QUALIFIED INSPECTOR.

UNSAFE FOR HUMAN USE LABEL NUMBER: N/A

THE FOLLOWING DEFICIENCIES / VIOLATIONS WERE IDENTIFIED DURING THIS INSPECTION (A-F):

A. B. C. D. E. F.

CHECK MARK INDICATES REPEAT VIOLATION.

INSPECTOR'S AFFIRMATION

I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II. (Notification must be made immediately upon determination.)

Signed: Inspector: John Goddard Ph.D.  QI Number: Q1011  Date:

SECTION III  REGISTRANT'S (OR AGENT'S) AND SERVICE PERSON'S AFFIRMATION

REGISTRANT'S (OR AGENT'S) AFFIRMATION

Affirmation is made that I have reviewed this Certificate Evaluation Report, including the RCD 59-1 Machine CE Instructions, and that I have thirty (30) days to correct the item(s) of non-compliance and report to the Department. I understand that a failure to correct the item(s) of noncompliance within thirty (30) days may result in a Department enforcement inspection.

Signed: Registrant/Agent:  Print Name:  Date:

SERVICE PERSON'S AFFIRMATION (Check appropriate box)

I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the regulations. A copy of this form shall be maintained in the service company's records for Department review upon request.

Because of condition noted on the attached Service Repair Order (SRO), I was not able to repair this equipment. (SRO must be attached to this CE).

Signed: Service Person:  Print Name:  Date:

Service Company:  Registration Number:

SECTION IV  MACHINE COMPLIANCE

This machine meets the conditions of compliance according to parts 2 and 6. New Label Number: FEDEX  Expiration Date: MAY 2005

Signed: Inspector: John Goddard Ph.D.  QI Number: Q1011  Date: 6-24-04

RCD 59-1 CE REPORT July 1995. For distribution see RCD 59-1 Machine CE Instructions REPORT NUMBER: 10694 FILE:RCD59A.WPS

John Goddard, Ph.D., 7375 Grant Ranch Blvd, Suite 2124, Littleton CO 80123 (303) 730-0349
COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT

This report details findings of the qualified inspector regarding your compliance with the requirements of the Colorado Rules and Regulations Pertaining to Radiation Control (Regulations).

SECTION I GENERAL INFORMATION

Reg No: 42008  
Tube ID: I  
Registrant: Paul Salmen MD  
Facility Name: Glenwood Medical Associates  
Contact Person: Mary Brennan

Address: 1830 Blake Avenue  
City: Glenwood Springs  
State: CO  
Zip: 81602  
Telephone: (970) 945-8503

Room Number:  
Machine Manufacturer: Sedecal  
Machine Model Type: SHP-520RF  
Control Serial No: G-13581  
Machine Category: Radiographic  
Tube Manufacturer: Varian  
Tube Model Type: RAD 60  
Manufacture Date: October 2000

Date of Inspection: 6-24-04  
Reason for Inspection: Initial Machine Compliance Status: Old  
Label Number: 71392  
Old Expiration Date: May 2004

SECTION II MACHINE NONCOMPLIANCE INFORMATION

APPLICABLE

- THIS IS A NOTICE OF NON-COMPLIANCE. THIS REPORT MUST BE POSTED TO PERMIT INDIVIDUALS TO OBSERVE IT ON THE WAY TO OR FROM ANY REGISTERED ACTIVITY LOCATION TO WHICH THIS DOCUMENT APPLIES.
- THE RADIATION MACHINE IDENTIFIED ABOVE IS UNSAFE FOR HUMAN USE. THE MACHINE SHALL NOT BE USED HEREAFTER UNTIL REPAIRED AND RECERTIFIED BY A QUALIFIED INSPECTOR.
- UNSAFE FOR HUMAN USE LABEL NUMBER: N/A

THE FOLLOWING DEFICIENCIES / VIOLATIONS WERE IDENTIFIED DURING THIS INSPECTION (A-F):

CHECK MARK INDICATES REPEAT VIOLATION.

A.  
B.  
C.  
D.  
E.  
F.

INSPECTOR'S AFFIRMATION

I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II. (Notification must be made immediately upon determination.)

Signed:  
Inspector: John Goddard Ph.D.  
QI Number: Q1011  
Date: 

SECTION III REGISTRANT'S (OR AGENT'S) AND SERVICE PERSON'S AFFIRMATION

REGISTRANT'S (OR AGENT'S) AFFIRMATION

Affirmation is made that I have reviewed this Certificate Evaluation Report, including the RCD 59-I Machine CE instructions, and that I have thirty (30) days to correct the item(s) of non-compliance and report to the Department. I understand that a failure to correct the item(s) of noncompliance within thirty (30) days may result in a Department enforcement inspection.

Signed: Registrant/Agent:  
Print Name:  
Date: 

SERVICE PERSON'S AFFIRMATION (Check appropriate box)

- I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the regulations. A copy of this form shall be maintained in the service company's records for Department review upon request.

Because of conditions noted on the attached Service Repair Order (SRO), I was not able to repair this equipment. (SRO must be attached to this CE).

Signed: Service Person:  
Print Name:  
Date: 

Service Company:  
Registration Number: 

SECTION IV MACHINE COMPLIANCE

This machine meets the conditions of compliance according to parts 2 and 6. New Label Number:  
Expiration Date: 

Signed:  
Inspector: John Goddard Ph.D.  
QI Number: Q1011  
Date: 6-24-04


REPORT NUMBER: 10694  
FILE: RCD59A.WPS

John Goddard, Ph.D., 7375 Grant Ranch Blvd, Suite 2124, Littleton CO 80123  
(303) 730-0349
<table>
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<th>TUBE</th>
<th>STATUS</th>
<th>DESIGNATION</th>
<th>INSPECTION DATE</th>
<th>LABEL NO</th>
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<td>75245</td>
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</tr>
</tbody>
</table>
## SECTION I: General Information

**Facility Reg. No.:** 35014  
**REGISTRANT / LEGAL OWNER:** Delta County Memorial Hospital  
**Facility Name:** (dba:)

**Address:** 1501 E 3rd St  
**City:** Delta  
**State:** CO  
**Zip:** 81416  
**Phone Number:** (970) 874-2368

**Machine Category (check or circle):**
- [ ] Mobile  
- [ ] Fluoroscopic  
- [ ] Mammographic  
- [ ] Computed Tomography  
- [ ] Dental Intraoral  
- [ ] Panoramic  
- [ ] Veterinary  
- [ ] Cephalometric  
- [ ] Other

**Machine Category:**
- [ ] Control Mfg. Name: OR  
- [ ] Control Model Type: OEC  
- [ ] Control Serial No.: 9800 Plus  
- [ ] Control Date of Mfg.: 851597  
- [ ] Control Date of Mfg.: 3/03

**Date of Inspection:** 6/15/04  
**CHECK ONE:**
- [ ] Machine NOT initially in Compliance (Complete Section II)  
- [ ] Machine initially in Compliance (Complete Section IV)

**Section III: Registrator's Affirmation**

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department. I understand that failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

2. **PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE**

3. **PRINTED NAME OF SERVICE PERSON, SERVICE COMPANY, AND REGISTRATION NUMBER**

## SECTION IV: Machine Compliance

1. **This machine meets conditions of compliance according to Parts 2 & 6.**

2. **PRINTED NAME OF INSPECTOR / QM NUMBER / SIGNATURE**
COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT

SECTION I General Information

Date of Mfg: 

REGISTRANT/LEGAL OWNER: 

REASON FOR INSPECTION:

Component Replacement

Component,E: Other

Facility Reg. No.: 

Printed Name of Registrant (or Registrant’s Agent):

Address: 

City:

State:

Zip: 

Phone Number: 

Section II Machine NONCOMPLIANCE

This is a Notice of Noncompliance. This must be posted to permit individuals to observe it on the way to or from any registered activity location to which this document applies.

1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. Unsafe for Human Use Label:

☐ A. 

☐ B. 

☐ C. 

☐ D. 

☐ E. 

☐ F. 

2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

☐ A. 

☐ B. 

☐ C. 

☐ D. 

☐ E. 

☐ F. 

3. Misc. Information:

☐ 1. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2. (Notification must be made immediately upon determination.)

☐ 2. Printed Name of Inspector / Title / Signature

☐ 3. Printed Name of Registrant or Registrant’s Agent / Title

☐ 4. Expiration Date

SECTION III Registrant’s Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

2. Printed Name of Service Person, Service Company, and Registration Number

3. Date

SECTION IV Machine COMPLIANCE

1. This machine meets conditions of compliance according to Parts 2 & 6.

2. Printed Name of Inspector / Title / Signature

☐ New Label Number: 

Expiration Date: 

RCD 59-1 CE REPORT: July 1995 (This supersedes all previous forms)

GREEN COPY: Page 2 - (FACILITY REGISTRANT’S FILE COPY)
COLOrado DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT

SECTION I General Information

REASON FOR INSPECTION: ☑ Routine ☑ Replacement ☐ New Machine ☑ Other

Facility Reg. No.: 35019
REGISTRANT / LEGAL OWNER:

Address: 100 Stafford Lane, Delta, CO 81416
City: Delta
State: CO
Zip: 81416
Phone Number:

Machine Category (check or circle):
☒ Radiographic ☑ Mobile
☒ Fluoroscopic ☑ Mammographic
☒ Computed Tomography
☒ Dental Intraoral
☒ Panoramic ☑ Cephalometric
☒ Veterinary ☑ Other

Date of Inspection: 11/7/03
CHECK ONE: ☐ Machine NOT initially in Compliance (Complete Section II)
☐ Machine initially in Compliance (Complete Section IV)

SECTION II Machine NONCOMPLIANCE

☐ 1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified Inspector. UNSAFE FOR HUMAN USE LABEL #:

☐ 2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

☐ A. ☐ B. ☐ C. ☐ D. ☐ E. ☐ F.

☐ 3. Misc. Information:

☐ 4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2.

Name of Registrant (or Agent): Contacted (PRINT):

☐ 5. PRINTED NAME OF INSPECTOR / NUMBER / SIGNATURE DATE (If necessary, Tier I Reviewer Signature and Qi Number)

SECTION III Registrant’s Affirmation

☐ 1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

☐ 2. PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE DATE Signature of Registrant (or Agent)

SERVICE REPAIR CERTIFICATION

☐ Check appropriate box:

☒ I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy - Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

☒ Because of conditions noted on the attached Service Repair Order (SRO), I WAS NOT able to repair this equipment (Note to Service Co: SRO MUST BE ATTACHED TO THIS CE).

☐ 3. PRINTED Name of Service Person, Service Company, and Registration Number DATE Signature of Service Person

SECTION IV Machine COMPLIANCE

☐ 1. This machine meets conditions of compliance according to Parts 2 & 6.

☐ 2. PRINTED NAME OF INSPECTOR / NUMBER / SIGNATURE DATE (If necessary, Tier I Reviewer Signature and Qi Number)

New Label Number: 67293
Expiration Date: 11/03

RCD 59-1 CE REPORT July/95 (This supercedes all previous forms)
GREEN COPY: Page 2 - (FACILITY REGISTRANTS FILE COPY)
**X-RAY MACHINE CERTIFICATION EVALUATION REPORT**

**SECTION I General Information**

- **Reason for Inspection:** New Machine
- **Contact Person:** Russell Cox, D1A
- **Facility Reg. No.:** 35014
- **Registrant / Legal Owner:** Delta Co Mem Hosp
- **Facility Name (dba):**
- **Address:** 1501 E 3rd St, Delta Co 81416
- **City:**
- **State:**
- **Zip:**
- **Phone Number:** 270-874-2214

**SECTION II Machine NONCOMPLIANCE**

- **This is a Notice of Noncompliance. This must be posted to permit individuals to observe it on the way to or from any registered activity location to which this document applies.**

1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. **Unsafe for Human Use Label #:**

2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

   - [ ] A.
   - [ ] B.
   - [ ] C.
   - [ ] D.
   - [ ] E.
   - [ ] F.

- **Misc. Information:**

3. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2.

   - **Name of Registrant (or Registrant's Agent) Contacted (PRINT):**
   - **Title:**
   - **Date:**

**SECTION III Registrant's Affirmation**

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

2. **PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE**

   - **Date:**
   - **Signature of Registrant (or Agent):**

**SERVICE REPAIR CERTIFICATION**

Check appropriate box:

- I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy - Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

- Because of conditions noted on the attached Service Repair Order (SRO), I was NOT able to repair the equipment (Note to Service Co: SRO MUST BE ATTACHED TO THIS CE).

3. **PRINTED Name of Service Person, Service Company, and Registration Number**

   - **Date:**
   - **Signature of Service Person:**

**SECTION IV Machine COMPLIANCE**

1. This machine meets conditions of compliance according to Parts 2 & 6.

2. **PRINTED NAME OF INSPECTOR / GI NUMBER / SIGNATURE**

   - **Date:**
   - **Signature of Inspector:**

---

**NOTE:**

- This supersedes all previous forms.
- Green Copy: Page 2 - (Facility Registrant's File Copy)
COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION

X-RAY MACHINE CERTIFICATION EVALUATION REPORT

SECTION I - General Information

REASON FOR INSPECTION: [ ] Routine [ ] Component Replacement [ ] New Machine [ ] Other [ ]

Facility Reg. #: 35014  [ ]

REGISTRANT / LEGAL OWNER: [ ]

Facility Name (DBA): [ ]

Address: 1501 E 3rd St [ ]

City: Delta [ ]

State: CO [ ]

Zip: 81416 [ ]

Phone Number: 970 874 2744 [ ]

Date of Inspection: 6 / 16 / 04 [ ]

Date of Photo: [ ]

Contact Person: Russell Cox [ ]

Note: This is a NOTICE OF NONCOMPLIANCE. THIS MUST BE POSTED TO PERMIT INDIVIDUALS TO OBSERVE IT ON THE WAY TO OR FROM ANY REGISTERED ACTIVITY LOCATION TO WHICH THIS DOCUMENT APPLIES.

1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL #: [ ]

2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

   A. [ ]
   B. [ ]
   C. [ ]
   D. [ ]
   E. [ ]
   F. [ ]

3. Misc. Information:

   1. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2. (Notification must be made immediately upon determination.)

   Name of Registrant (or Registrant's Agent) Contacted (PRINT): [ ]

   Title: [ ]

   Date: [ ]

4. PRINTED NAME OF INSPECTOR TOI NUMBER / SIGNATURE: [ ]

   DATE (If necessary, Tier I Reviewer Signature and CI Number)

SECTION III - Registrant's Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

   PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE: [ ]

   DATE: [ ]

   Signature of Registrant (or Agent)

   Check appropriate box:

   [ ] I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was repaired or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The copy of the Service Report shall be maintained in the service company's records for department review upon request.

   [ ] Because of conditions noted on the attached Service Repair Order (SRO), I was NOT able to repair this equipment. (Note to Service Co. SRO MUST BE ATTACHED TO THIS CE.)

2. PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE: [ ]

   DATE: [ ]

   Signature of Service Person

SECTION IV - Machine Compliance

1. This machine meets conditions of compliance according to Parts 2 & 5.

   PRINTED NAME OF INSPECTOR / CI NUMBER / SIGNATURE: [ ]

   DATE: [ ]

   (If necessary, Tier I Reviewer Signature and CI Number)

   & RCD 59-1 CE REPORT July/1995 (This supersedes all previous forms)

   GREEN COPY: Page 2 - (FACILITY REGISTRANT'S FILE COPY)
To: Paula Kogle, Dir, X-Ray  
From: Richard McKeown MS ABR  
1/21/05  
Re: Physicist services

CAMP provides Medical Physicist support to Montrose Memorial Hospital. As needed and on a regular basis the following tasks are completed:

CAMP provides radiation shielding design and scatter survey for newly installed radiographic equipment, within 90 days of patient start-up. This also addresses acceptance tests on newly installed radiographic equipment.

CAMP provides routine inspection of Diagnostic Radiological equipment including fixed and mobile X-Ray, CT, Fluoroscopy and other imaging modes as required by state law. Inspections will be done within the month due, determined from the anniversary date of installation or major component replacement. If inspection must be done late, the state will be notified. Physics will follow-up on items of non-compliance.

CAMP provides FDA Mammography Physicist inspection and program audit. Per FDA, inspections will be done within a +/- 30-day period from the anniversary date of installation or major component replacement. Physics will follow-up on items of non-compliance.

CAMP reviews staff radiation exposure with recommendations for limits when needed.

CAMP provides NRC required tests in Nuclear Medicine.

Please call 719-337-1988, if you have questions.

Sincerely

REM  
1.24.05

All imaging equipment is currently in compliance with State regulations. Certifications are available for review at Montrose Memorial Hospital.

Paula Krull, RT (R)  
Medical Imaging Director  
Montrose Memorial Hospital  
800 S. 3rd. St.  
Montrose, Colorado 81401  
970.240.7138
Radiographic Equipment Survey Report

Location: comm hosp
2120 n 12 st
Grand Junction, Co, 81501

Date: 13-Oct-04
Room: port
Registration Number: 57061
Previous Sticker#: 72486
Previous Sticker Date: Nov-04
New Sticker #: 79726 repaired
Expiration Date: Oct-05

Contact: Dale Miller RT
Phone: 970-256-6440

Machine: ge
Model: amx4
Control SN: 246112wk7
Manufacture Sep-89
Phase: battery

Tube: ge
Model: hrt
Housing SN: 234031tu3
Manufacture Date: Aug-89
Small Focal Spot: 1 mm
Large Focal Spot: 2 mm

comments: fails state reg
field size indicator
broken off

Tube/collimator lock broken off the control console housing. Needs repair

Physicist:
Richard McKeown MS ABR
Q133
COLORADO ASSOCIATES in MEDICAL PHYSICS
1121 Terrace Road, Colorado Springs, CO 80904
719-471-7425
Radiographic Equipment Survey Report

<table>
<thead>
<tr>
<th>Location: Comm Hosp Grand Junction</th>
<th>Date: 10/13/2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>2120 n 12th</td>
<td>Room: 2 old</td>
</tr>
<tr>
<td>grand jun, co, 81501</td>
<td>Registration Number: 57061</td>
</tr>
<tr>
<td>Contact: dale miller</td>
<td>Previous Sticker# 72487</td>
</tr>
<tr>
<td>970-256-6440</td>
<td>Previous Sticker Date: Nov-04</td>
</tr>
</tbody>
</table>

Machine: Toshiba, Model: DC625a
Control SN: 6612161, Phase: 3
Manufacture Date: Nov-86

Tube: Varian, Model: A192
Housing SN: 80477-S04
Manufacture Date: Jun-94

Expiration Date: Oct-05

Previous Sticker# 76727
fails for PBL table

Mechanical Attributes:

- SID Indicator Accuracy: ACCEPTABLE
- Automatic Collimation Accuracy: wall bucky PBL inoperative 11/03
- Field Size Indicator Accuracy: ACCEPTABLE
- Collimator Centering: ACCEPTABLE
- Light Field Illuminance: ACCEPTABLE
- Radiation Field/Light Field Congruence: ACCEPTABLE

Radiation Field Attributes:

- mA(s) linearity: ACCEPTABLE
- Exposure Reproducibility: ACCEPTABLE
- Half Value Layer: ACCEPTABLE
- kVp Accuracy: ACCEPTABLE
- Timer Accuracy: ACCEPTABLE
- Focal Spot Size: ACCEPTABLE
- Phototimer Operation: wall bucky phototiming inoperative 11/0
- not ACCEPTABLE
- Environmental Exposure Rates: ACCEPTABLE

Physicist: R McKeown MS
Q133

COLORADO ASSOCIATES IN MEDICAL PHYSICS
330 A W. Uintah, #288
Colorado Springs, Colorado 80905
(719) 636-0556
# Radiographic Equipment Survey Report

<table>
<thead>
<tr>
<th>Location:</th>
<th>Comm Hosp of Grand Junction 2120 n 12th grand junction, co, 81501</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact:</td>
<td>Dale Miller 970-256-6440</td>
</tr>
<tr>
<td>Machine:</td>
<td>Manufacturer: Siemens</td>
</tr>
<tr>
<td></td>
<td>Model: multix</td>
</tr>
<tr>
<td></td>
<td>Control SN: 1555</td>
</tr>
<tr>
<td></td>
<td>Manufacture Date: Sep-02</td>
</tr>
<tr>
<td></td>
<td>Phase: 3</td>
</tr>
<tr>
<td>Collimator:</td>
<td>Cert</td>
</tr>
<tr>
<td>Table:</td>
<td>Cert</td>
</tr>
<tr>
<td>Upright Film Holder:</td>
<td>Cert</td>
</tr>
</tbody>
</table>

| Machine:  | siemens                                                   |
| Tube:     | siemens                                                   |
|           | Model: opti-150                                           |
|           | Housing SN: 378516                                         |
|           | Manufacture Date: Nov-02                                  |
|           | Small Focal Spot: 0.6 mm                                   |
|           | Large Focal Spot: 1 mm                                     |

**Mechanical Attributes:**
- SID Indicator Accuracy: ACCEPTABLE
- Automatic Collimation Accuracy: ACCEPTABLE
- Field Size Indicator Accuracy: ACCEPTABLE
- Collimator Centering: ACCEPTABLE
- Light Field Illuminance: ACCEPTABLE
- Radiation Field/Light Field Congruence: ACCEPTABLE

**Radiation Field Attributes:**
- mA(s) linearity: ACCEPTABLE
- Exposure Reproducibility: ACCEPTABLE
- Half Value Layer: ACCEPTABLE
- kVp Accuracy: ACCEPTABLE
- Timer Accuracy: ACCEPTABLE
- Focal Spot Size: ACCEPTABLE
- Phototimer Operation: ACCEPTABLE
- Environmental Exposure Rates: ACCEPTABLE

**Physicist:**
- R McKeown MS Q133

---

COLORADO ASSOCIATES IN MEDICAL PHYSICS
330 A W. Uintah, #288
Colorado Springs, Colorado 80905
(719) 636-0556
# Fluoroscopic Equipment Survey Report

<table>
<thead>
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<th>Date</th>
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<tbody>
<tr>
<td>connm hosp</td>
<td>10/13/04</td>
</tr>
<tr>
<td>2120 n 12th</td>
<td></td>
</tr>
<tr>
<td>grand jun, co, 81501</td>
<td></td>
</tr>
<tr>
<td>Contact: dale miller</td>
<td></td>
</tr>
<tr>
<td>970-256-6440</td>
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</tr>
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</table>

<table>
<thead>
<tr>
<th>Registration Number</th>
<th>Previous Sticker#</th>
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</thead>
<tbody>
<tr>
<td>Room:</td>
<td>57061</td>
</tr>
<tr>
<td>Phase:</td>
<td>Nov-04</td>
</tr>
<tr>
<td>Expiration Date:</td>
<td>Oct-05</td>
</tr>
</tbody>
</table>

## Machine

<table>
<thead>
<tr>
<th>Manufacturer:</th>
<th>Siemens</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model:</td>
<td>Sirius</td>
</tr>
<tr>
<td>Control SN:</td>
<td>4939</td>
</tr>
<tr>
<td>Manufacture Date:</td>
<td>Mar-00</td>
</tr>
<tr>
<td>Phase:</td>
<td></td>
</tr>
</tbody>
</table>

| Collimator: | Cert |
| Table:      | Cert |
| Upright Film Holder: | Cert |

## Tube

| Manufacturer: | Siemens |
| Model:        | Opl-150 |
| Control SN:   |         |
| Manufacture Date: | Nov |
| Small Focal Spot: | 0.6 mm |
| Large Focal Spot: | 1 mm |

- X-ray Production Limited to Presence of Primary Barrier (RH 6.5.1.1.2): **ACCEPTABLE**
- Collimation Limits X-Ray Field to Image Field Within 3% of SID (RH 6.5.1.2.2): **ACCEPTABLE**
- Collimation Has Stepless Adjustment of Field Size (RH 6.5.1.2.2.1): **ACCEPTABLE**
- Spot Film Device Appropriately Limits Field Size Before Patient (RH 6.5.1.2.3.1): **ACCEPTABLE**
- X-ray Production Limited by "Dead Man" Switch (RH 6.5.2): **ACCEPTABLE**
- Minimum SSD Appropriate for Use (RH 6.5.5): **ACCEPTABLE**
- Fluoroscopic Timer Present (RH 6.5.6): **ACCEPTABLE**
- Radiation Field Attributes: **ACCEPTABLE**
  - Entrance Exposure Rate Limits (RH 6.5.3.1): **ACCEPTABLE**
  - Primary Barrier Transmission (RH 6.5.4): **ACCEPTABLE**
  - Scattered Radiation Barriers (RH 6.5.8): **ACCEPTABLE**
  - Half Value Layer (RH 6.4.5.1): **ACCEPTABLE**

**Physicist:** Richard McKeown MS  
**Medical Physicist**

**COLORADO ASSOCIATES in MEDICAL PHYSICS**  
1121 Terrace Road  
Colorado Springs, Colorado 80904  
719-471-7425
USE BALLPOINT. PRESS FIRMLY

COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT

SECTION I General Information

REASON FOR INSPECTION: Routine ☑ Component ☐ Replacement ☐ New Machine ☐ Other ☐
Contact Person: 
Facility Reg. No.: REGISTERED/LEGAL OWNER:
Facility Name (d/b/a): 
Address: City : State : Zip :

Machine Category (check or circle):
- Radiographic ☑ Mobile ☐
- Fluoroscopic ☐ Mammographic ☐
- Computed Tomography ☐
- Dental Introral ☐
- Panoramic ☐ Cephalometric ☐
- Veterinary ☐
- Other ☐

Tube Room #: Control Mfg. Name : Control Model Type : Control Serial No. : Cert. Date of Mfg. :
- 1 - 1 - Holocine HFQ-6860P - 07/4 - Nov. 2001

Date of Inspection : CHECK ☑ Machine NOT initially in Compliance (Complete Section II)
Old Label Number : Old Expiration Date :
Date of Mfg. : Dec. 2000

SECTION II Machine NONCOMPLIANCE

THIS IS A NOTICE OF NONCOMPLIANCE. THIS MUST BE POSTED TO PERMIT INDIVIDUALS TO OBSERVE IT ON THE WAY TO OR FROM ANY REGISTERED ACTIVITY LOCATION TO WHICH THIS DOCUMENT APPLIES.

1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL #: 

2. The following deficiencies or violations were identified during this inspection ( A-F ). Check appropriate circle(s) if it is a repeat violation.

- A. 
- B. 
- C. 
- D. 
- E. 
- F. 

3. Misc. Information:

4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2. (Notification must be made immediately upon determination.)

Name of Registrant (or Registrant's Agent) Contacted (PRINT) : Title: 

5. PRINTED NAME OF INSPECTOR / DI NUMBER / SIGNATURE DATE 

(If necessary, Tier I Reviewer Signature and DI Number)

SECTION III Registrant's Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

2. PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE DATE 

Signature of Registrant (or Agent)

SERVICE REPAIR CERTIFICATION

I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy- Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

3. PRINTED Name of Service Person, Service Company, and Registration Number DATE 

Signature of Service Person

SECTION IV Machine COMPLIANCE

1. This machine meets conditions of compliance according to Parts 2 & 6.

2. PRINTED NAME OF INSPECTOR / DI NUMBER / SIGNATURE DATE 

(If necessary, Tier I Reviewer Signature and DI Number)

RCD 58-1 CE REPORT July/1994 (This supersedes all previous forms)
GREEN COPY: Page 2 - (FACILITY REGISTRANT'S FILE COPY)
COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, RADIATION CONTROL DIVISION
X-RAY MACHINE CERTIFICATION EVALUATION REPORT

USE BALLPOINT-PRESS FIRMLY

SECTION I General Information

REASON FOR INSPECTION: [ ] Routine [ ] Component Replacement [ ] New Machine [ ] Other

Facility Reg. No.: [X] 95604
REGISTRANT / LEGAL OWNER: Rocky Mountain Orthopedic Associates

Address: 627-26-1/2 Road
City: Grand Junction
State: CO
Zip: 81505- ( ) (970)243-8140
Facility Name (d/b/a): Rocky Mountain Orthopedic Associates

Machine Category (check or circle): [ ] Radiographic [ ] Mobile
[ ] Fluoroscopic [ ] Mammographic
[ ] Computed Tomography
[ ] Dental Intraoral
[ ] Panoramic [ ] Cephalometric
[ ] Veterinary
[ ] Other

Tube Room #: 2
Control Mfg. Name: Hologic
Control Model Type: HFQ-8000P
Control Serial No.: 1078
Cntry/Date of Mfg.: Nov. 2001

Date of Inspection: 8/21/94

SECTION II Machine NONCOMPLIANCE

THIS IS A NOTICE OF NONCOMPLIANCE. THIS MUST BE POSTED TO PERMIT INDIVIDUALS TO OBSERVE IT ON THE WAY TO OR FROM ANY REGISTERED ACTIVITY LOCATION TO WHICH THIS DOCUMENT APPLIES.

1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL:

2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

O A.
O B.
O C.
O D.
O E.
O F.

3. Misc. Information:

4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and recommendations as specified in Sections I & II.

Name of Registrant or Registrant's Agent:

Contacted (PRINT):

Title:

SECTION III Registrant's Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

2. PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE

Signature of Registrant (or Agent)

SERVICE REPAIR CERTIFICATION

I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy, Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

3. PRINTED Name of Service Person, Service Company, and Registration Number

Signature of Service Person

SECTION IV Machine COMPLIANCE

1. This machine meets conditions of compliance according to Parts 2 & 6.

New Label Number: 74963
Expiration Date: 02-22-2005

PRINTED NAME OF INSPECTOR / QI NUMBER / SIGNATURE

Date (If necessary, Tier 1 Reviewer Signature and QI Number)

(Revision Information)

GREEN COPY: Page 2 - (FACILITY REGISTRANT'S FILE COPY)
Colorado
Associates in
Medical
Physics

Veteran's Administration
Hospital
Grand Junction
Annual Physics Compliance tests
8/2004
### Radiographic Equipment Survey Report

**Location:** VA Med Center  
**2121 North Ave**  
**Grand Junction, Co, 81501**

**Larry Raney**  
**910-242-0731**

**Date:** 2415 R/F  
**Room:**  
**Registration Number:** nv va  
**Previous Sticker#:** nv VA  
**Previous Sticker Date:** Sep-04  
**New Sticker #:** nv VA  
**Expiration Date:** Aug-05

<table>
<thead>
<tr>
<th><strong>Machine:</strong></th>
<th><strong>Tube:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Manufacturer:</strong> GE</td>
<td><strong>Manufacturer:</strong> GE</td>
</tr>
<tr>
<td><strong>Model:</strong> advantx</td>
<td><strong>Model:</strong> mx100</td>
</tr>
<tr>
<td><strong>Control SN:</strong> 456841wk6</td>
<td><strong>Housing SN:</strong> 334734tu1</td>
</tr>
<tr>
<td><strong>Manufacture Date:</strong> Jan-95</td>
<td><strong>Manufacture Date:</strong> Aug-95</td>
</tr>
</tbody>
</table>

**Collimator:**  
**Table:**  
**Upright Film Holder:**  

### Mechanical Attributes:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>SID Indicator Accuracy</td>
<td>ACCEPTABLE</td>
</tr>
<tr>
<td>Automatic Collimation Accuracy</td>
<td>ACCEPTABLE</td>
</tr>
<tr>
<td>Field Size Indicator Accuracy</td>
<td>ACCEPTABLE</td>
</tr>
<tr>
<td>Collimator Centering</td>
<td>ACCEPTABLE</td>
</tr>
<tr>
<td>Light Field Illuminance</td>
<td>ACCEPTABLE</td>
</tr>
<tr>
<td>Radiation Field/Light Field Congruence</td>
<td>ACCEPTABLE</td>
</tr>
</tbody>
</table>

**Radiation Field Attributes:**

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>mA(s) linearity</td>
<td>ACCEPTABLE</td>
</tr>
<tr>
<td>Exposure Reproducibility</td>
<td>ACCEPTABLE</td>
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<tr>
<td>Half Value Layer</td>
<td>ACCEPTABLE</td>
</tr>
<tr>
<td>kVp Accuracy</td>
<td>ACCEPTABLE</td>
</tr>
<tr>
<td>Timer Accuracy</td>
<td>ACCEPTABLE</td>
</tr>
<tr>
<td>Focal Spot Size</td>
<td>ACCEPTABLE</td>
</tr>
<tr>
<td>Phototimer Operation</td>
<td>ACCEPTABLE</td>
</tr>
<tr>
<td>Environmental Exposure Rates</td>
<td>ACCEPTABLE</td>
</tr>
</tbody>
</table>

**Physician:**  
R McKeown MS  
Certified Radiological Physicist  
COLORADO ASSOCIATES IN MEDICAL PHYSICS  
1121 Terrace Road  
Colorado Springs, Colorado 80904  
(719) 471-7425
# Radiographic Equipment Survey Report

<table>
<thead>
<tr>
<th>Location: VA Med Center</th>
<th>Date: 2405 tomo</th>
</tr>
</thead>
<tbody>
<tr>
<td>2121 North Ave</td>
<td>Room:</td>
</tr>
<tr>
<td>Grand Junction, Co, 81501</td>
<td>Registration Number: nv va</td>
</tr>
<tr>
<td></td>
<td>Previous Sticker#: nv VA</td>
</tr>
<tr>
<td>Larry Raney</td>
<td>Previous Sticker Date: Sep-04</td>
</tr>
<tr>
<td>910-242-0731</td>
<td>New Sticker #: nv VA</td>
</tr>
<tr>
<td></td>
<td>Expiration Date: Aug-05</td>
</tr>
</tbody>
</table>

**Machine:**
- Manufacturer: GE
- Model: mx100 hsg
- Housing SN: 24563ec9
- Manufacture Date: Mar-88
- Small Focal Spot: 0.6 mm
- Large Focal Spot: 1.25 mm

**Collimator:**
- Table:
- Upright Film Holder:

**Mechanical Attributes:**
- SID Indicator Accuracy: ACCEPTABLE
- Automatic Collimation Accuracy: ACCEPTABLE
- Field Size Indicator Accuracy: ACCEPTABLE
- Collimator Centering: ACCEPTABLE
- Light Field Illuminance: ACCEPTABLE
- Radiation Field/Light Field Congruence: ACCEPTABLE

**Radiation Field Attributes:**
- mA(s) linearity: ACCEPTABLE
- Exposure Reproducibility: ACCEPTABLE
- Half Value Layer: ACCEPTABLE
- kVp Accuracy: ACCEPTABLE
- Timer Accuracy: ACCEPTABLE
- Focal Spot Size: ACCEPTABLE
- Phototimer Operation: ACCEPTABLE
- Environmental Exposure Rates: ACCEPTABLE

**Physicist:**
- R McKeown MS
- Certified Radiological Physicist Q133

**COLORADO ASSOCIATES IN MEDICAL PHYSICS**
1121 Terrace Road
Colorado Springs, Colorado 80904
(719) 471-7425
Administrative Controls:

Operational Policies and Procedures: ACCEPTABLE

Operator(s) are properly trained: ACCEPTABLE

Film/ Screen system in use is Rare Earth or faster: ACCEPTABLE

Monitoring of processing conditions: ACCEPTABLE

Collimation policy is available and followed: ACCEPTABLE

Dossier of repair/calibration/inspection reports is available at machine: ACCEPTABLE
USE BALLPOINT- PRESS FIRMLY

X-RAY MACHINE CERTIFICATION EVALUATION REPORT

SECTION I General Information

REASON FOR INSPECTION: [ ] Routine [ ] Component Replacement [ ] New Machine [ ] Other
Facility Reg. No. [ ] REGISTRANT / LEGAL OWNER:
Facility Name (If/Date):

Address:
City:
State:
Zip:
Phone Number:

SECTION II Machine NONCOMPLIANCE

THIS IS A NOTICE OF NONCOMPLIANCE. THIS MUST BE POSTED TO PERMIT INDIVIDUALS TO OBSERVE IT ON THE WAY TO OR FROM ANY REGISTERED ACTIVITY LOCATION TO WHICH THIS DOCUMENT APPLIES.

☐ 1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereafter until repaired and recertified by a qualified inspector. UNSAFE FOR HUMAN USE LABEL #:

☐ 2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

☐ A. 

☐ B. 

☐ C. 

☐ D. 

☐ E. 

☐ F. 

☐ 3. Misc. Information:

☐ 4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2.

Name of Registrant (or Registrant's Agent) Contacted (PRINT):

☐ 5. PRINTED NAME OF INSPECTOR / ID NUMBER / SIGNATURE DATE (If necessary, Tier I Reviewer Signature and ID Number)

SECTION III Registrant's Affirmation

☐ 1. Affirmation is made that I have reviewed the Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the item(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

☐ 2. PRINTED NAME OF REGISTRANT OR REGISTRANT'S AGENT / TITLE DATE Signature of Registrant (or Agent)

SECTION IV Machine COMPLIANCE

☐ 1. This machine meets conditions of compliance according to Parts 2 & 6.

☐ 2. PRINTED NAME OF INSPECTOR / ID NUMBER / SIGNATURE DATE (If necessary, Tier I Reviewer Signature and ID Number)

SERVICE REPAIR CERTIFICATION

I affirm that the equipment noncompliance(s) noted above were corrected and tested by me according to the instructions provided by the manufacturer(s) and the requirements of the Regulations. The equipment was not modified to adversely affect performance and was adjusted or installed in accordance with instructions provided by the manufacturer(s) and requirements of the Regulations. The Canary Copy: Page 3 (Service Report) shall be maintained in the service company's records for department review upon request.

☐ 3. PRINTED Name of Service Person, Service Company, and Registration Number DATE Signature of Service Crescent

RCR 89-1 CE REPORT July/1994 (This supersedes all previous forms)

GREEN COPY: Page 2 - (FACILITY REGISTRANT'S FILE COPY)
## SECTION I General Information

<table>
<thead>
<tr>
<th>REASON FOR INSPECTION</th>
<th>Routine Inspection</th>
<th>Component Replacement</th>
<th>New Machine</th>
<th>Other</th>
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<tbody>
<tr>
<td>Facility Reg. No.:</td>
<td></td>
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<tr>
<td>REGISTRANT / LEGAL OWNER:</td>
<td>Grand River Hospital District</td>
<td></td>
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<tr>
<td>Address:</td>
<td>501 Aupair Road</td>
<td></td>
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<tr>
<td>City:</td>
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<tr>
<td>Phone Number:</td>
<td>(970) 625-1510</td>
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</tbody>
</table>

## SECTION II Machine NONCOMPLIANCE

**THIS IS A NOTICE OF NONCOMPLIANCE. THIS MUST BE POSTED TO PERMIT INDIVIDUALS TO OBSERVE IT ON THE WAY TO OR FROM ANY LICENSED ACTIVITY LOCATION TO WHICH THIS DOCUMENT APPLIES.**

1. The radiation machine identified above is unsafe for human use. The machine shall not be used hereby until repaired and recertified by a qualified inspector. **UNSAFE FOR HUMAN USE LABEL #:**

2. The following deficiencies or violations were identified during this inspection (A-F). Check appropriate circle(s) if it is a repeat violation.

   - A.
   - B.
   - C.
   - D.
   - E.
   - F.

3. Misc. Information:

4. I certify that I have notified the Registrant (or Agent) of all items of noncompliance and/or recommendations as specified in Section II 1 & 2.

   Notification must be made immediately upon determination.

   Name of Registrant (or Registrant's Agent) Contacted (PRINT):

   Title: ____________________________

   Date: ____________________________

   (If necessary, Tier I Reviewer Signature and GI Number)

## SECTION III Registrant’s Affirmation

1. Affirmation is made that I have reviewed this Certification Evaluation Report, including the instructions on the reverse side, and that I have thirty (30) days to correct the item(s) of noncompliance and report to the Department (see notes on back). I understand that a failure to correct the items(s) of noncompliance within the thirty (30) days may result in a Department enforcement inspection.

2. PRINTED NAME OF REGISTRANT OR REGISTRANT’S AGENT / TITLE

   Date: ____________________________

   Signature of Registrant (or Agent)

   Signature of Service Person

## SECTION IV Machine COMPLIANCE

1. This machine meets conditions of compliance according to Parts 2 & 6.

   PRINTED NAME OF INSPECTOR 7 QI NUMBER / SIGNATURE

   Date: ____________________________

   Signature of Service Person

   New Label Number: 73787

   Expiration Date: 01/01/2005

   (If necessary, Tier I Reviewer Signature and GI Number)

   GREEN COPY: Page 2 - (FACILITY REGISTRANT’S FILE COPY)

   RCD 59-1 CE REPORT July/1994 (This supersedes all previous forms)
Summary for Standard Eight

1. List the major strengths of Standard Eight, in order of importance.

2. List the major concerns of Standard Eight, in order of importance.

3. Provide the program's plan for addressing each concern identified.

4. Describe any progress already achieved in addressing each concern.

5. Describe any constraints in implementing improvements.

Attach additional pages if necessary.

The major strength of Standard Eight is the strong emphasis on radiation safety and the policies set forth by the JRCERT. Supervision rules are reviewed constantly with students, clinical instructors and staff at clinical sites. If a concern is raised regarding radiation protection, college faculty addresses it immediately with all involved. All facilities are operating equipment that has been inspected by the state radiation agency.

A constant concern is the adherence to the direct/indirect supervision policy by technologists at the clinical sites. The real problem is that the students sometimes feel intimidated if they refuse to do an exam if there is not indirect supervision. Many clinical sites hire the students as tech assistants since there is no licensure law forbidding non-registered personnel from taking x-rays in hospitals in Colorado. It is difficult for the student to transition from being independent one day to having to follow the supervision policies the next.

We have been working with the clinical sites to assure that these policies are followed. We have been reviewing the policies with the students and reminding them that it is for the patient's safety as well as their own to have a technologist available. We stress the fact that it is the student's right to request help or have a technologist in the room when they are uncomfortable or uncertain about an exam even if they have proven competency.

The second major concern is the lack of radiation safety practices by some technologists at clinical sites. We have reviewed policies with students, spoken with individual technologists violating policies, and held meetings with department directors. The next step will be to remove the students from those clinical sites who are putting students in harm's way.
Standard Nine:

Fiscal Responsibility
9.1 Does the program have sufficient on-going financial resources to support the program’s mission and goals?

Explanation:
The sponsoring institution must demonstrate on-going financial commitment to the program and its students by providing adequate human and physical resources.

Rationale:
Adequate on-going funding is necessary to accomplish the program’s stated mission and goals and to support student learning.

Compliance May Be Demonstrated by:
Providing copies of the program’s budget and/or expenditure records and describing the adequacy of financial resources.

Possible Site Assessment Methods:
- Review of program budget
- Interviews with administrative personnel
- Interviews with faculty

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<tr>
<th>Level of Effort</th>
<th>Attach Additional Pages If Necessary</th>
<th>Has Program Met Objective?</th>
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</thead>
<tbody>
<tr>
<td>Assurance</td>
<td>Narrative</td>
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<td>X</td>
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As a public college, Mesa State College receives state funding supported by the General Fund. On an annual basis, the College develops business and financial plans for these funds, including plans for capital improvement. The Department Head receives an allocated amount of funds from College administration for faculty and staff salaries in the Department of Nursing and Radiologic Sciences. The budget for the department is allocated each July by administration and the department is responsible for budgetary management. The budget is determined by the Vice President of Finance and is based on history and enrollments. Expenditure control is the primary responsibility of the Department Head with the assistance of the administrative assistant. The Department Head relies on input from the Directors of the Nursing and Radiologic Technology programs for necessary budget items and to request additional monies above and beyond the allotted funding. Currently, the College funds two full-time and two part-time Radiologic Technology faculty positions as well as a portion of the administrative assistant’s salary. The operating budget of all academic units in the College reflects a year-round operation...
The Mesa State College Foundation is a not-for-profit corporation that operates as an auxiliary organization to the College. Its purpose is to engage in activities that enhance the educational effectiveness of the University, support the mission, and supplement the services and funding provided by the State of Colorado. The Foundation administers all scholarships for the Nursing and Radiologic Science Department. In addition to funding by the College, the students are assessed fees for laboratory and clinical expenses. Distribution of these monies is the responsibility of the Radiologic Technology Program Director with the help of the administrative assistant. Any monies remaining at the end of the fiscal year are used to purchase equipment or computer software for the laboratory or the Auto Tutorial Learning Center.

We have also received monies from the Carl Perkins fund for equipment and continuing education. The budget will be available for review by the site visitors.
### 9.2 Does the program director have an opportunity to participate in the budget planning process?

**Explanation:**
An opportunity must exist for the program director to have input into budgetary decisions related to the program.

**Rationale:**
As the individual responsible for the overall effectiveness of the program, the program director is responsible for assuring that there are sufficient human and physical resources to accomplish the program's mission and goals.

**Compliance May Be Demonstrated by:**
Describing the opportunities for program director participation in the budget planning process.

**Possible Site Assessment Methods:**
- Interviews with program and institutional officials

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<tr>
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<td>Narrative</td>
<td>Yes</td>
</tr>
</tbody>
</table>

The program directors of radiologic technology and nursing meet regularly with the Department Head to review the budget and plan for the next year. While monies are limited, the program has sufficient funding to provide for student needs.

The budget will be available for review by the site visitors.
9.3 For those institutions and programs for which the JRCERT or a mixed accredits serves as gatekeeper for Title IV financial aid, does the institution and/or program maintain compliance with USDE policies and procedures?

**Explanation:**

The program must comply with USDE requirements to participate in Title IV financial aid.

**Rationale:**

If the program has elected to participate in Title IV financial aid and the JRCERT is identified as the program’s mixed accredditor, the JRCERT serves as the program’s gatekeeper and is responsible for oversight of the distribution, record keeping, and repayment of Title IV financial aid.

**Compliance May Be Demonstrated by:**

Providing evidence that Title IV financial aid is managed and distributed according to the U.S. Department of Education (USDE) regulations.

**Possible Site Assessment Methods:**

- Review of records
- Interviews with administrative personnel
- Interviews with faculty
- Interviews with students

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Not Applicable
Summary for Standard Nine

1. List the major strengths of Standard Nine, in order of importance.
2. List the major concerns of Standard Nine, in order of importance.
3. Provide the program's plan for addressing each concern identified.
4. Describe any progress already achieved in addressing each concern.
5. Describe any constraints in implementing improvements.

Attach additional pages if necessary.

The major strength of Standard Nine is the support provided by the college for our program.

At this time, there is a concern for the future and for funding of the program's needs. It is the desire of the program to have CR equipment in the lab but currently budget constraints won't allow for it. We are not the only program in Colorado with budget issues. We will continue to bring our monetary requests to administration and to the community.