



Ohio Institute of Allied Health

School of Integrative Healthcare

School Catalog Addendum

Limited Medical Radiography with
Medical Assisting Program (LMRMA)



Once you're in healthcare, you're always in demand!

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GENERAL PROGRAM INFORMATION

GENERAL PROGRAM INFORMATION

Program Name :	Limited Medical Radiography with Medical Assisting (LMRMA)
Credential Awarded :	Diploma
Program Length :	21 months (84 weeks instructional length)
Delivery Format :	On Campus

ALLIED HEALTH EDUCATION DEPARTMENT MISSION STATEMENT

The mission of the Allied Health Education Department is to prepare competent, ethical, and career-ready healthcare professionals who provide safe, evidence-based services within their respective scopes of practice. The department is committed to developing graduates who demonstrate technical proficiency, professional accountability, critical thinking, and compassionate client-centered care in accordance with applicable state regulations, national standards, and industry best practices.

Through rigorous instruction, hands-on laboratory experiences, supervised clinical education, and measurable learning outcomes, the department prepares graduates to meet the evolving healthcare needs of individuals, families, and communities across diverse healthcare settings. Allied health education within the department recognizes the biological, psychological, social, and cultural dimensions of patient care while emphasizing safety, quality, professionalism, effective communication, and interdisciplinary collaboration.

The department promotes lifelong learning, ethical decision-making, respect for human dignity, and continuous quality improvement to support graduates who contribute to exceptional patient care, improved healthcare outcomes, and the advancement of their respective professions.

ALLIED HEALTH EDUCATION DEPARTMENT GOVERNING VALUES

The following values govern educational practice within the Allied Health Education Department at the Ohio Institute of Allied Health. Faculty and administration ensure these values are integrated throughout the curriculum, reflected in student expectations, and serve as the professional foundation upon which graduates build their healthcare careers.

1. **Patient Safety** - The protection of patients from preventable harm is foundational. All instructional, laboratory, and clinical experiences emphasize safe practices, risk reduction, infection prevention, proper use of equipment, and adherence to established safety protocols.
2. **Evidence-Based Practice** - Educational and clinical instruction are grounded in current research, professional standards, regulatory requirements, and industry best practices to ensure graduates deliver high-quality, patient-centered care.

3. **Technical Competence and Clinical Decision-Making** – All curriculum is designed to develop the knowledge, technical skills, and critical thinking necessary for competent practice within each allied health profession. Students are expected to apply clinical knowledge accurately while recognizing the limits of their scope of practice.
4. **Professional Accountability** - Faculty and students demonstrate integrity, ethical behavior, personal responsibility, and professionalism in all academic and clinical settings. Graduates are expected to uphold the ethical standards and responsibilities of their respective professions.
5. **Respect for Human Dignity** - Patient care is delivered with compassion, cultural humility, and respect for the unique biological, psychological, social, and spiritual needs of every individual. The department fosters an inclusive learning environment that values diversity and promotes equitable healthcare.
6. **Interprofessional Collaboration** - Quality healthcare depends upon effective communication and teamwork. Students develop the skills necessary to collaborate respectfully and professionally to support optimal patient outcomes.
7. **Regulatory Compliance and Professional Standards** - The department operates in accordance with applicable federal and state laws, accrediting agency requirements, and profession-specific standards of practice.
8. **Excellence Through Continuous Quality Improvement** - The department is committed to ongoing evaluation and continuous improvement. Program effectiveness is assessed through measurable outcomes, stakeholder feedback, and data-informed decision-making to enhance student success and the quality of allied health education programs offered.

ALLIED HEALTH EDUCATION DEPARTMENT PHILOSOPHICAL FRAMEWORK

The Allied Health Education Department at the Ohio Institute of Allied Health is grounded in the belief that allied health professions dedicate themselves to providing safe, ethical, evidence-based, and patient-centered healthcare services. Allied health education prepares students to apply scientific knowledge, technical competence, critical thinking, and professional accountability in accordance with applicable state and federal regulations, profession-specific standards of practice, and established ethical principles.

The department affirms that allied health professionals play an essential role in the delivery of quality healthcare by contributing specialized knowledge and technical expertise that support the assessment, diagnosis, treatment, rehabilitation, and ongoing care of individuals across the lifespan. Practice is informed by the biological and behavioral sciences while recognizing the psychological, social, cultural, and spiritual dimensions of health. Through this integrated perspective, graduates contribute to health promotion, disease prevention, accurate diagnosis, therapeutic intervention, and improved patient outcomes.

Contemporary allied health practice requires the ability to gather and interpret information, apply critical thinking, perform technical skills with precision, communicate effectively, and make sound decisions within the individual's defined scope of practice. The educational process emphasizes the development of clinical competence, technical proficiency, professional judgment, and collaboration with interdisciplinary healthcare teams. Classroom instruction, laboratory experiences, simulation, and supervised clinical education are intentionally integrated to prepare graduates for entry-level practice and lifelong professional growth.

The Allied Health Education Department is committed to maintaining a culture of accountability and continuous quality improvement. Program effectiveness is evaluated through systematic analysis of student learning outcomes, credentialing or certification examination performance when applicable, completion rates, graduate and employer feedback, and other established measures of program quality. Data derived from these measures guide curriculum development, instructional effectiveness, and ongoing program improvement to ensure graduates are prepared to meet the evolving needs of healthcare with competence, professionalism, and integrity.

LMRMA PROGRAM LEARNING OUTCOMES

1. Demonstrate professional behavior and healthcare workplace readiness, including accountability, teamwork, communication, time management, and ethical conduct.
2. Apply foundational medical knowledge of anatomy, physiology, and pathology to support safe and effective patient care and radiographic imaging.
3. Communicate effectively with patients and healthcare team members using professional, therapeutic, written, verbal, and electronic communication methods.
4. Demonstrate competency in medical terminology and healthcare documentation, including accurate interpretation and use of medical language in clinical settings.
5. Apply principles of patient care, safety, and infection control in all clinical and laboratory environments.
6. Demonstrate knowledge of healthcare law, ethics, HIPAA, and regulatory standards, including patient confidentiality and professional scope of practice.
7. Perform accurate medical office administrative functions, including scheduling, record management, billing processes, coding basics, and electronic health record (EHR) usage.
8. Demonstrate foundational pharmacology and medication safety knowledge, including dosage calculations, medication administration principles, and interpretation of medication labels.
9. Apply principles of radiation protection and safety to ensure safe imaging practices for patients, self, and others.

10. Demonstrate understanding of radiographic physics and equipment operation, including image production, processing, and quality assurance principles.
11. Position patients and perform radiographic imaging procedures within limited scope practice, ensuring proper technique, anatomy identification, and image evaluation.
12. Evaluate radiographic images for quality, accuracy, and diagnostic acceptability, including anatomy recognition, positioning, exposure factors, and artifacts.
13. Prepare for professional certification and workforce entry, including review of clinical competencies, exam readiness, and applied practice in healthcare settings.



CURRICULUM INFORMATION

COURSE SEQUENCING

Course name	Theory clock hours	Lab clock hours	Clinical clock hours	Total Program clock hours	Total Program credit hours
Quarter 1					
ALH 110 Success Skills	30	20	0	50	4
BIO 110 Anatomy & Physiology I	20	20	0	40	3
LMR 111 Introduction to Radiography	40	0	0	40	4
MED 110 Medical Terminology	20	0	0	20	2
MED 111 Dosage Calculation	35	0	0	35	3.5
Quarter 2					
BIO 120 Anatomy & Physiology II	20	20	0	40	3
COM 120 Professional Communication	20	0	0	20	2
ENG 120 Basic Composition	20	0	0	20	2
HOL 120 Holistic Perspectives	10	0	0	10	1
MED 120 Medical Administrative Procedures	40	0	0	40	4
MED 121 Pharmacology I	30	0	0	30	3
Quarter 3					
ENG 130 Advanced Composition	20	0	0	20	2
LMR 130 Radiographic Anatomy	40	0	0	40	4
LMR 131 Principles of Radiation	40	0	0	40	4
MED 130 Basic Arrhythmia/ECG	20	20	0	40	3
MED 131 Pharmacology II	30	0	0	30	3

Quarter 4					
ALH 140 Medical Law & Ethics	20	0	0	20	2
LMR 140 Radiographic Positioning I	0	40	0	40	2
MED 140 Clinical Procedures I	10	0	30	40	2
MED 141 Lab Procedures I	10	30	0	40	2.5
PSY 140 General Psychology	30	0	0	30	3

Quarter 5					
ALH 150 Professional Development	40	0	0	40	4
LMR 150 Radiographic Imaging	40	0	0	40	4
MED 150 Clinical Procedures II	10	0	45	55	2.5
MED 151 Lab Procedures II	10	40	0	50	3
Quarter 6					
CLN 160 Externship	0	0	180	180	6
LMR 160 Radiographic Positioning II	0	40	0	40	2
MED 160 Medical Assistant Certification Review	40	0	0	40	4
Quarter 7					
CLN 170 Limited Radiography Clinical	0	0	90	90	3
CLN 171 Advanced Radiography Clinical	0	0	180	180	6
LMR 170 LXMO Review	40	0	0	40	4
TOTALS (Program)	685	230	525	1440	97.5

COURSE DESCRIPTIONS

ALH 110 Success Skills

30 theory hours / 20 lab hours / 4 credit hours

Course Description: This course supports the development of self-reliance through understanding and utilizing the concepts of self-esteem, self-efficacy, goal setting, and accountability. Includes development of study skills, including library utilization, test taking, note taking, time management and critical thinking. This course also teaches introductory Microsoft Word 2013 and Microsoft Office Excel 2013 skills and how to apply them in a medical office setting. As a participant, you will become more prepared for your career as a Medical Professional in learning how to successfully support the front or back office of a clinic or hospital. This course covers the development of basic keyboarding skills to improve speed and accuracy.

ALH 140 Medical Law & Ethics

20 theory hours / 2 credit hours

Course Description: This course highlights legal considerations for professional practice in the changing healthcare environment. The course reviews the role of ethics in clinical judgment and decision-making. Students will explore the importance and implications of consistent positive and professional interdisciplinary interaction and communication.

ALH 150 Professional Development

40 theory hours / 4 credit hours

Course Description: This course is designed to assist the student in developing skills necessary to gain employment. It also covers a wide range of job-seeking skills, including the development of an effective résumé. Interviewing skills, referral letters, cover letters and other professional areas will be discussed. In addition, it covers professionalism in the workplace and the importance of the externship.

BIO 110 Anatomy & Physiology I

20 theory hours / 20 lab hours / 3 credit hours

Course Description: This course introduces the structure and function of major human body systems. The course will discuss the relationship of individual body systems to the overall perception of wellness. Students will visualize major anatomical structures and develop an understanding of integrative function.

BIO 120 Anatomy & Physiology II

20 theory hours / 20 lab hours / 3 credit hours

Course Description: This course introduces the structure and function of major human body systems. The course will discuss the relationship of individual body systems to the overall perception of wellness. Students will visualize major anatomical structures and develop an understanding of integrative function.

CLN 160 Externship

180 clinical hours / 6 credit hours

Course Description: Externship provides the student with an opportunity to visit and work in a medical office environment. The student will be exposed to day-to-day operations of the medical office that may include management functions, personnel administration, record keeping and medical office equipment. The student will be graded by the work site as they apply skills learned in the classroom in a practical environment.

CLN 170 Limited Radiography Clinical

90 clinical hours / 3 credit hours

Course Description: This competency based course for Limited Radiography students covers the radiographic evaluation in a clinical setting, of the chest, extremities, shoulder girdle, pelvic girdle, spine, skull, and thorax, under the direct supervision of a state certified radiation operator. The student will be assigned to a clinical site to complete a total of 80 hours of clinical experience.

CLN 171 Advanced Radiography Clinical

180 clinical hours / 6 credit hours

Course Description: This competency based course for Limited Radiography students covers the radiographic evaluation in a clinical setting, of the chest, extremities, shoulder girdle, pelvic girdle, spine, skull, and thorax, under the direct supervision of a state certified radiation operator. The student will be assigned to a clinical site to complete a total of 80 hours of clinical experience.

COM 120 Professional Communication

20 theory hours / 2 credit hours

Course Description: This course outlines the key components of therapeutic communication and explores practical approaches and applications. Students will learn how to utilize the electronic health record to communicate information to clients and the interdisciplinary team. Students will practice basic principles of neuro-linguistic programming.

ENG 120 Basic Composition

20 theory hours / 2 credit hours

Course Description: This course reviews the rules and conventions of writing including grammar, sentence structure, paragraph development, and essay construction. The course prepares students to read critically, summarize, analyze, and interpret texts. Students will identify and appraise information sources and learn to format writing in the current edition of APA style.

ENG 130 Advanced Composition

20 theory hours / 2 credit hours

Course Description: This course reviews essay development, paper construction, and current APA edition formatting. The course allows students the opportunity to appraise evidence, synthesize findings, and produce research-supported papers.

HOL 120 Holistic Perspectives

10 theory hours / 1 credit hours

Course Description: This course reviews holism and integrative practice modalities. The course introduces concepts of holistic leadership, evidence-based holistic nursing practices, and opportunities and challenges in integrative medicine. Students will engage in reflection and metacognitive practices to enhance self-awareness. Students will explore advanced holistic pharmacotherapeutics, cognitive-affective strategies to promote resilience, and integrative approaches to substance use recovery. Students will investigate sacred medicine and the global impact of holistic nursing.

LMR 111 Introduction to Radiography **40 theory hours / 4 credit hours**

Course Description: This introductory course provides the student with general information about the profession of the limited medical radiographer and introduces basic radiographic imaging principles and radiation protection. Special emphasis is also placed on medical ethics and professional conduct as well as patient care techniques.

LMR 130 Radiographic Anatomy **40 theory hours / 4 credit hours**

Course Description: This course for limited radiography students builds upon the basic understanding of the human anatomy and provides the student with in-depth identification of specific bone landmarks and bone markings that are to be identifiable on the x-ray image by the student.

LMR 131 Principles of Radiation **40 theory hours / 4 credit hours**

Course Description: This course gives the student an understanding of the importance of radiation protection and radiation's effects on the human body. Students will also be familiarized with the regulatory agencies and the agency's guidelines as they govern and pertain to radiation.

LMR 140 Radiographic Positioning I **40 lab hours / 2 credit hours**

Course Description: This course for limited radiography students offers laboratory experience to develop competency in performing x-ray examinations of the upper and lower extremities, shoulder girdle, pelvic girdle, chest, and abdomen. Attention is also directed toward the organization of the radiology department examination priorities, patient preparation, processing and archiving x-ray images, etc. A combination of lectures, demonstration, and laboratory simulation are utilized to prepare students to perform these x-ray examinations.

LMR 150 Radiographic Imaging **40 theory hours / 4 credit hours**

Course Description: This course presents additional concepts of x-ray physics and their relationship to the quality of the resultant radiograph. The properties of density, contrast, detail and distortion are analyzed extensively with emphasis on the factors that control and influence them. This includes such topics as digital imaging, grid usage, effects of collimation, processing, etc. The role these factors play in radiation exposure and protection is also emphasized.

LMR 160 Radiographic Positioning II **40 lab hours / 2 credit hours**

Course Description: This course for limited radiography students offers additional laboratory experience to develop competency in performing x-ray examinations of the thorax, skull, sinuses, facial bones and the abdomen. Attention is also directed toward the organization of the radiology department — examination priorities, patient preparation, processing and archiving of x-ray images, etc. A combination of lecture, demonstration, and laboratory simulation are utilized to prepare students to perform these x-ray examinations.

LMR 170 LXMO Review

40 theory hours / 4 credit hours

Course Description: This course for limited radiography students is designed to prepare the students to take the ARRT Limited Scope Radiography exam. This course includes review over patient care, radiographic procedures, equipment operation, image production and evaluation, radiation protection, anatomy and test taking skills.

MED 110 Medical Terminology

20 theory hours / 2 credit hours

Course Description: This course introduces basic medical terminology and the central functions of the electronic health record. Students learn to recognize the parts of medical terms that can assist in identifying meanings and definitions. Students discuss the components of a medical chart and practice introductory charting.

MED 111 Dosage Calculation

35 theory hours / 3.5 credit hours

Course Description: This course identifies and reviews the mathematical principles and computations essential to medication administration. Students will explore practical measures to safely deliver ordered medications to clients across the lifespan.

MED 120 Medical Administrative Procedures

40 theory hours / 4 credit hours

Course Description: This course is designed to develop competencies in front office procedures, including scheduling and time management, telephone etiquette, and procedure codes. This course also familiarizes students with business procedures performed in a medical facility. Students are introduced to various electronic claims, professional fees, credit arrangements, submission, collection and data entry. Emphasis is placed on the practical application of collection procedures, patient billing and data entry and becoming proficient in the use of a practice management software program. The course is also designed to introduce the student to a variety of records and record keeping systems and the principles underlying effective management of records. It also combines technical aspects of records procedures with systems typically used in medical practices today.

MED 121 Pharmacology I

30 theory hours / 3 credit hours

Course Description: This course prepares practical nurses to safely deliver ordered medications. The course uses a prototype model to assist the learner with identification of drug class actions, indications, adverse effects, precautions, contraindications, interactions, and nursing considerations.

MED 130 Basic Arrhythmia/ECG

20 theory hours / 20 lab hours / 3 credit hours

Course Description: This course is designed to introduce the student to basic arrhythmias and function of the electrical conduction of the heart, in order to aid in proper administration of ECGs.

MED 131 Pharmacology II **30 theory hours / 3 credit hours**

Course Description: This course prepares practical nurses to safely deliver ordered medications. The course uses a prototype model to assist the learner with identification of drug class actions, indications, adverse effects, precautions, contraindications, interactions, and nursing considerations.

MED 140 Clinical Procedures I **10 theory hours / 30 clinical hours / 2 credit hours**

Course Description: This course is designed to introduce the student to the medical assistant program and to his/her role as a medical assistant. The student will be introduced to the components of the medical record, how to identify the different types of documents within the medical record and how to prepare charts. The important concepts relating to the measurement of vital signs will also be introduced and the student will have the opportunity to learn several methods of taking temperature, pulse, blood pressure, respiration and ECGs.

MED 141 Lab Procedures I **10 theory hours / 30 lab hours / 2.5 credit hours**

Course Description: This course is designed to develop student skills in a simulated laboratory and will provide the student with an opportunity to learn about laboratory testing as a diagnostic tool as well as the steps that are taken when specimens are tested at an outside laboratory. Specifically, the student will be provided an opportunity to learn about urinalysis, including the physical, chemical and microscopic analysis of urine. The student will also be provided with the opportunity to learn proper procedures of collection of various urine specimens.

MED 150 Clinical Procedures II **10 theory hours / 45 clinical hours / 2.5 credit hours**

Course Description: This course is designed to provide the student with an opportunity to learn the principles and methods used to promote tissue healing and minor surgery, how to assist the physician and patient during a gynecological examination and prenatal care. The student will also be provided with an opportunity to learn how to assist the physician during a flexible sigmoidoscopic examination. The medical assistant will learn skills to prepare and administer oral and parenteral drugs. CPR skills and basic first aid training.

MED 151 Lab Procedures II **10 theory hours / 40 lab hours / 3 credit hours**

Course Description: This course is designed to assist the student in developing skills in a simulated laboratory setting and will provide the student with an opportunity to learn and develop skills in preparing for and performing venipuncture, as well as learning about the various components of blood. The student will also be provided with an opportunity to learn the purpose and functions of various blood chemistry tests, including specimen requirements, normal values and those conditions resulting in abnormal values.

MED 160 Medical Assistant Certification Review **40 theory hours / 4 credit hours**

Course Description: This course is designed to help prepare the student to perform well on the Medical Assistant Certifying Examination (CMA) test. The principal guidelines for this course are based on the American Association of Medical Assistants (AAMA) Certification Examination

Content Outline. There are four major areas of comprehensive review: General information, administrative procedures, clinical procedures, & a practice exam.

PSY 140 General Psychology

30 theory hours / 3 credit hours

Course Description: This course explores the physical, cognitive, and psychosocial domains of clients across the lifespan. The course introduces growth and development theories and discusses practical application of psychological principles. Students will differentiate between normal and abnormal behaviors and review client adaptive patterns.