



Cleveland University

KANSAS CITY

Chiropractic and Health Sciences

# Cleveland University-Kansas City

Academic Catalog Addendum

2021-2022



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# COLLEGE OF HEALTH SCIENCES

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## DEGREE PROGRAMS

ASSOCIATE OF APPLIED SCIENCE IN RADIOLOGIC TECHNOLOGY DEGREE PROGRAM: GENERAL PROGRAM INFORMATION

MASTER OF SCIENCE IN EXERCISE PHYSIOLOGY PROGRAM

## ASSOCIATE OF APPLIED SCIENCE IN RADIOLOGIC TECHNOLOGY DEGREE PROGRAM

### GENERAL PROGRAM INFORMATION

The CUKC A.A.S. in Radiologic Technology degree is 75 credit hours, including 24 credit hours of general education prerequisites and 51 credit hours of professional Radiologic Technology courses designed to be taken on a full-time status. All courses are delivered in an eight (8) week module. All courses are sequenced to ensure an optimum educational experience.

Curriculum is competency based and follows the requirements of the American Society of Radiologic Technologists (ASRT). Professional Radiologic Technology didactic courses are conducted on campus during evening hours, 6pm- 10pm. The student's clinical education occurs at affiliated medical and imaging facilities in the surrounding communities. Clinical schedules vary by assignment and may include daytime hours; evenings, and/or weekends.

Upon successful completion of Cleveland University-Kansas City's Radiologic Technology program, the student will be awarded an Associate of Applied Science in Radiologic Technology. The A.A.S. in Radiologic Technology meets the educational requirements for the American Registry of Radiologic Technologists (ARRT) primary certification and registration in Radiography.

Students must complete all General Education courses prior to enrollment in RDTC courses.

### Associate of Applied Science in Radiologic Technology Curriculum:

<b>General Education Courses (24)</b>	<b>Semester Credit Hours</b>
ENGL 101 English Composition I	3
SPCH 101 Speech	3
PSYC 110 General Psychology	3
**COMM 201 Communication and Diversity	3
*BIOL 250 Anatomy and Physiology I	4
*BIOL 251 Anatomy and Physiology II	4
*MATH 115 Math for the Natural Sciences	3
*HSCI 102 Health Science Terminology	1
Total General Education Credits	24

\*Must be completed with a "B" or better, must be completed within five years of application.

\*\*Diversity Requirement: The diversity requirement may be met with a 3-credit hour course encompassing more than one perspective in the following areas: Culture, Gender, Sexual Orientation, Social Class, Race, Age, Ethnicity, Ability or Religion.

Professional Radiologic Technology Major Courses: 51 semester credit hours

<b>Course ID</b>	<b>Course Title</b>	<b>Semester Credit</b>
RDTC 110	Introduction to Radiologic Science & Patient Care	3
RDTC 120	Basic Procedures	3
RDTC 130	Imaging Concepts	3
RDTC 140	Intermediate Procedures	3
RDTC 150	Advanced Procedures	3
RDTC 165	Contrast Procedures	3
RDTC 170	Radiographic Pathology and Trauma	3
RDTC 210	Imaging Properties	3
RDTC 220	Clinical Education	4
RDTC 245	Clinical Education	7
RDTC 250	Advanced Imaging	3
RDTC 265	Clinical Education	7
RDTC270	Radiation Protection and Modalities	3
RDTC280	Senior Seminar	3
	<b>Total Radiologic Technology Core Credit Hours</b>	<b>51</b>
	Total credit hours required for the degree	75

ADMISSIONS REQUIREMENTS

[www.cleveland.edu/radtech](http://www.cleveland.edu/radtech)

## MASTER OF SCIENCE IN EXERCISE PHYSIOLOGY PROGRAM

### GENERAL PROGRAM INFORMATION

The Master of Science in Exercise Physiology degree is designed for those who possess a background in the discipline, are inquisitive, enthusiastic, and ready to jump in with both feet. By design and focus, this intensive program maintains the expectation that students will spend equal efforts in investigation of the didactic materials and clinical education experiences as we prepare to enter a career. The 36-credit hour program offers both thesis and non-thesis options, with area of emphasis in Performance Enhancement and Injury Prevention, or Exercise is Medicine.

Whether students complete the clinical education experiences here in Overland Park on the CUKC Campus or with a program preceptor, students will spend a great deal of time mastering the skills required to be successful in this allied health care discipline. Just as importantly, the advanced study strategy is well formatted for those wishing to seek employment or further their education.

On a full-time basis, the program is three trimesters in duration and delivered through three integrated components: remote style coursework, on-campus immersions and lab experiences, and clinical experiences. For most students, the program may be completed in two years or less, depending on the path chosen and the number of courses taken in each trimester.

### MASTER OF SCIENCE IN EXERCISE PHYSIOLOGY STUDENT LEARNING OUTCOMES

1. The student will be able to predict and interpret the physiological responses to exercise and relate it to lifestyle choices, body composition, nutrition, and physical activity in direct application to physical fitness, overall health, performance, and conditioning.
2. The student will demonstrate the abilities and skills required to assess health status, determine behavioral readiness, and conduct physiological and fitness testing to determine needs for varying populations.
3. The student will appropriately design, modify, and apply the evidence-based principles, recommendations, and design in programming for exercise prescription based upon the needs of persons from diverse populations.
4. The student will be able to compose and articulate competent communication and interpersonal skills required in the instruction and guidance of programs at the level of a practicing professional.
5. The program accepts the charge to prepare competent entry-level Applied Exercise Physiologists in the cognitive (knowledge), psychomotor (skills), and affective (abilities) learning domains.

## Master of Science in Exercise Physiology Curriculum:

### **Required Coursework (36 Credits)**

Required Courses (7 Credits)

#### Research and Evaluation

HEP 502 Research Methods in Health Sciences (3 Credits)

EXP 505 Exercise Psychology, Communication, and Education (2 Credits)

EXP 510 Exercise Testing and Prescription (2 Credits)

#### Exercise Physiology and Human Motion (12 Credits)

EXP 510 Exercise Nutrition (2 Credits)

EXP 515 Kinesiology and Human Motion (2 Credits)

EXP 520 Physiology of Exercise (2 Credits)

EXP 610 Advanced Exercise Nutrition (2 Credits)

EXP 615 Advanced Kinesiology and Human Motion (2 Credits)

EXP 620 Advanced Physiology of Exercise (2 Credits)

#### Application and Distinction (5 credits)

Emphasis - Performance Enhancement and Injury Prevention

EXP 530 Corrective Exercise in Prescription and Rehabilitation (2 Credits)

EXP 630 Corrective Exercise and Rehabilitation Program Design (3 Credits)

or

EXP 535 Current Topics in Enhanced Performance (2 Credits)

EXP 635 Performance Enhancement Program Design (3 Credits)

Emphasis – Exercise is Medicine

EXP 540 Exercise is Medicine (2 Credits)

EXP 640 Exercise is Medicine Program Design (3 Credits)

or

HEP 530 Introduction to Epidemiology (3 Credits)

ANA 514 Histology (4 Credits)

Clinical Education and Capstone Courses (12 Credits)

HEP 626 Laboratory and Field Experience (Repeatable 3 Credits)

HEP 628 Laboratory and Field Experience (3 Credits)

and

HEP 636 Independent Study in Health Sciences I (3 Credits)

HEP 638 Independent Study in Health Sciences II (3 Credits)

or

HEP 696 Thesis Research I (3 Credits)

HEP 698 Thesis Research II (3 Credits)

Students admitted to the MS Program will be advised by the Program Director and Graduate Faculty. After admission, matriculation, and enrollment, the MS student experience is organized around coursework, supervised Clinical Education Experiences and proficiency in skills, a required culminating field experience, and the required completion of a nationally recognized certification examination.

ADMISSIONS REQUIREMENTS

[www.cleveland.edu/admissions/admission-requirements](http://www.cleveland.edu/admissions/admission-requirements)



# COURSE DESCRIPTIONS

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## COURSE NUMBERING AND CLASSIFICATION SYSTEM

000-099	Preparatory courses (no credit allowed toward requirements for academic degrees)
100-299	Lower division courses (freshman and sophomore level)
300-499	Upper division courses (junior and senior level)
500-599	First graduate or professional year
600-699	Second graduate or professional year
700-799	Third professional year

BIOL	Biology	CLI	Clinic
BUSI	Business	DIM	Diagnostic Imaging
CHEM	Chemistry	GED	General Diagnosis
ECON	Economics	MPH	Microbiology and Public Health
ENGL	English	NMS	Neuromusculoskeletal Diagnosis
EXSC	Exercise Science	PAT	Pathology
GEDU	General Education	PHY	Physiology
GSCI	General Science	PHT	Physiotherapy
HEP	Health Promotion	PRA	Chiropractic Practice
HIST	History	PRI	Principles of Chiropractic
HSCI	Health Science		
MATH	Mathematics		
OTHA	Occupational Therapy Assistant		
PHYS	Physics		
POLS	Political Science		
PSYC	Psychology		
RDTC	Radiologic Technology		
SOCI	Sociology		
SPCH	Speech		
ACS	Associated Clinical Sciences		
ANA	Anatomy		
CHE	Chemistry		

## COURSE REQUIREMENTS AND DESCRIPTIONS

The curriculum outlined in the Catalog or other documents represents the academic programs as they were offered at the time the Catalog was issued. These programs are subject to change. Completion of courses, degree programs, or certificate programs does not constitute a guarantee of employment.

Specific questions relating to the curriculum should be directed to a Dean or Director of the degree program. Advance appointments may be required with these individuals.

The University reserves the right to limit the offering of any course based on faculty availability and/or enrollment.

## COURSE PREREQUISITES

Students must successfully complete the prerequisites for a course with a minimum grade of "C," prior to taking the associated course. Corequisites are taken prior to, or concurrent with, the corresponding corequisite course. Withdrawal from a corequisite course will result in an administrative withdrawal from the corresponding corequisite course.

## COLLEGE OF HEALTH SCIENCES COURSE DESCRIPTIONS

### MASTER OF SCIENCE IN EXERCISE PHYSIOLOGY COURSE DESCRIPTIONS

**HEP 502                      Research Methods in Health Sciences                      3 Credits**

Introduction to accessing and understanding professional health literature that includes reading and analyzing professional literature and research reporting, terminology, and statistics. Students apply basic research skills to prepare a research paper for publication in a professional journal.

**EXP 505                      Exercise Psychology, Communication, and Education                      2 Credits**

Involves in-depth study of theories of behavior change for clinical populations and the need for health education for specified populations. A further aim to develop professional skills in motivational interviewing and physical activity counseling, while preparing students to apply evidence-based intervention strategies.

**EXP 510                      Exercise Testing and Prescription                      2 Credits**

Study and application of evidence based safe and effective exercise testing and programming for people who are apparently healthy. Focus placed on the utilization of assessment information to build appropriate programs focused on established physical and behavioral needs. **Prerequisite:** EXP 505

**EXP 520                      Physiology of Exercise                      2 Credits**

Acute and chronic physiological adaptations to exercise stress. Topics include metabolic adaptations, skeletal muscle behavior, respiratory and cardiovascular function during exercise, body composition, and environmental factors related to physical activity.





**HES 638                    Independent Study in Health Sciences                    3 Credits**

Student-initiated opportunity to study and research in a specialized health promotion area of interest.  
**Prerequisite or Corequisite:** *HES 636 Independent Study in Health Science I*

**HEP 696                    Thesis Research I                    3 Credits**

Structured field experience where theory and practice are applied to prepare informed leaders in the field of health science. A quantitative research study in an area of health science is conducted, written up, and presented to Health Science students. **Prerequisites:** *Permission of Program Director or Dean of the College of Health Sciences*

**HEP 698                    Thesis Research II                    3 Credits**

Structured field experience where theory and practice are applied to prepare informed leaders in the field of health science. A quantitative research study in an area of health science is conducted, written up, and presented to Health Science students. **Prerequisites:** *Permission of Program Director or Dean of the College of Health Sciences, HES 696*