

I-SHOU UNIVERSITY Department of Medical Imaging and Radiological Sciences
4-Year Curriculum for Students Admitted in Academic Year 2025

Category	Freshman Year(2025)		Sophomore Year(2026)	
GE core courses: required (18 credits)	A93A34 Academic English [2]1st A93A28 Codes in Health and Medicine [2]1st A93A35 Professional English [2] 2nd A93A20 Programming [2]2nd A93A29 Secret Codes in Intelligent Technologies [2]2nd A93A21 Civic Literacy in the Era of Globalization [2]2nd A93A22 Chinese Literature 1.0- Reading, Narration and communication [2] 2nd		A93A23 Chinese Literature 2.0- Critical thinking and creativity in writing [2]1st A93A15 Physical Education (I) [1]1st A93A16 Physical Education (II) [1]2nd	
College-required courses (3 credits)	A8E201 General Chemistry [2]1st A8EE01 Introduction to fundamental medicine [1]2st			
Category	Freshman Year(2025)	Sophomore Year(2026)	Junior Year(2027)	Senior Year(2028)
Department-required courses (98 credits)	A53123 General Physics(I) [2] 1st A53135 Calculus(I) [2] 1st A53137 Practice in Calculus (I) [1] 1st A53139 General Biology [2] 1st A53141 Working Capability and Occupational Ethics [2] 1st A53124 General Physics(II) [2] 2nd A53136 Calculus(II) [2] 2nd A53138 Practice in Calculus (II) [1] 2nd A53134 Advanced Chemistry [2] 2nd A53133 Medical Image Processing [2] 2nd A53154 Preliminary investigation of Medical Imaging and Radiological Sciences [1] 2nd	A53236 Basic Physiology [2] 1st A53205 Applied Mathematics(I) [3] 1st A53207 General Anatomy(I) [2] 1st A53231 General Anatomy and Laboratory(I) [1] 1st A53120 Radiation Physics(I) [3] 1st A53219 Radiochemistry & Laboratory(I) [2] 1st A53223 Ultra Sound Diagnostic Technology [2] 1st A53229 Ultra Sound Diagnostic Technology Laboratory [1] 1st A53273 Advanced Physiology [2] 2nd A53206 General Anatomy(II) [2] 2nd A53232 General Anatomy and Laboratory(II) [1] 2nd A53210 Radiation Biology [2] 2nd A53211 Radiation Physics(II) [3] 2nd A53220 Radiochemistry & Laboratory(II) [2] 2nd A53311 Magnetic Resonance Imaging(I) [3] 2nd	A53332 Instrumentation for Diagnostic Radiology(I) [2] 1st A53334 Radiation Diagnostic Technology(I) [2] 1st A53340 Radiation Diagnostic Technology and Laboratory(I) [1] 1st A53313 Clinical Radiation Therapy Technology(I) [1] 1st A53347 Clinical Radiation Therapy Technology and Laboratory(I) [1] 1st A53337 Radio Pharmacology [1] 1st A53309 Instrumentation for Radiation Therapy [2] 1st A53307 Instrumentation for Nuclear Medicine [2] 1st A53225 Radiation Dosimetry [2] 1st A53338 Radioimmunoassay [1] 1st A53333 Instrumentation for Diagnostic Radiology (II) [2] 2nd A53304 Clinical Radiation Therapy Technology(II) [2] 2nd A53341 Radiation Diagnostic Technology and Laboratory(II) [1] 2nd A53312 Clinical Radiation Therapy Technology(II) [1] 2nd A53346 Clinical Radiation Therapy Technology and Laboratory(II) [1] 2nd A53301 Pathology [2] 2nd A53306 Clinical Nuclear Medicine Technology [2] 2nd A53350 Clinical Nuclear Medicine Technology Laboratory [1] 2nd A53339 Radiation Treatment Planning [2] 2nd A53226 Radiation Dosimetry and Health Physical Laboratory [1] 2nd	A53401 Ultrasonography Practice [1] 1st A53402 Clinical Radiation Therapy Technology Practice [1] 1st A53403 Computed Tomography Practice [1] 1st A53404 Radiation Dosimetry Practice [1] 1st A53405 Magnetic Resonance Practice [1] 1st A53406 Radiation therapy Planning Practice [1] 1st A53407 General X-Ray Diagnostic Practice [1] 1st A53408 Mold Room Technique and Simulation Practice [1] 1st A53409 Special X-Ray Diagnostic Practice [1] 1st A53411 Nuclear Medicine Imaging Technology Practice [1] 1st A53413 Radioimmunoassay and Nuclear Medicine in-vitro Analysis Practice [1] 1st A53414 Radioisotope Therapy Practice [1] 1st A53415 Cardiac Catheterization Practice [1] 1st A53424 A Summary in Nuclear Medicine Diagnosis Principle and Technology [1] 2nd A53419 Radiodiagnosis Principle and Technology [1] 2nd A53420 Radiotherapy Principle and Technology [1] 2nd A53426 A Summary in Medicine Physics and Radiation Safety [1] 2nd A53427 A Summary in Radioactive Rays Equipment [1] 2nd A53423 English Proficiency [0]
Departmental electives (≥14 credits)	A53435 Introduction to Radiological [2] A53153 Applied Biostatistics [2] A53132 Medical Electronics [3] A53392 Introduction of AI Application on Medical Images [2]	A53291 Electrical Engineering [3] A53237 Apprentice of Diagnostic Radiology(I) [1] A53235 Terminology of Radiological [2] A53238 Generative AI medical applications [2]	A53342 Apprentice of Radiology Medical Image [2] A53343 Medical Image Processing and Archiving System [2] A53310 Radiation Safety and Protection [2] A53387 Seminar(I) [2] A53385 Apprentice of Diagnostic Radiology(II) [1] A53380 Computed tomography: technology and principle [2] A53384 Magnetic Resonance Imaging(II) [3] A53393 Dental Radiology [1] A53230 Special Photographic [1]	A53445 A Summary in Foundation Medicine [1] A53446 Quality Assurance for Radiotherapy Technology [1] A53360 Medical Image Analysis [2] A53361 Cell Biology [2] A53388 Seminar(II) [2]
GE liberal arts education	GE liberal arts education: elective, 10 credits from “Humanities and Arts”, “Nature and Technology” , “Social Science”			
Cross-domain electives	Students can choose “A53238 Generative AI medical applications” or electives courses set up by Department of Medical Imaging and Radiological Sciences			
Credits required for graduation from the Department	143 Credits			
Note	1. Students are required to meet the requirements set by the Department for “English Proficiency,” in addition to earning the required number of credits to be eligible for graduation. 2. Before graduation, students are required to take at least one required cornerstone course offered by another college. The credits earned from such courses may be recognized as part of the credits under the category of Liberal Arts Education, but only a maximum of four credits will be recognized accordingly. (For more details about required cornerstone course offered by different colleges, please refer to the announcement on the website of the Curriculum Section.)			