

# I-SHOU UNIVERSITY Department of medical Laboratory Science 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)	A8EE01 Introduction to fundamental medicine [1] 1st A8E201 General Chemistry[2] 1st			
Category	Freshman Year(2025)	Sophomore Year(2026)	Junior Year(2027)	Senior Year(2028)
Department-required courses (97 credits)	A58005 General Biology [3] 1st A58021 General Biology Lab[1] 1st A58075 Introduction to Medical Laboratory Science[1] 1st A58001 Anatomy & Histology (including practice) [4] 2nd A58083 Organic Chemistry[2] 2nd A58084 Analytical Chemistry[2] 2nd	A58008 Biochemistry [4] 1st A58009 Physiology[2] 1st A58010 Parasitology (including practice)[2] 1st A58023 Biochemical Lab [1] 1st A58011 Microbiology [3] 2nd A58012 Immunology [2] 2nd A58026 Microbiology Lab [1] 2nd A58081 Pathology (including histopathologic techniques) [3] 2nd A58014 Physiology[2] 2nd	A58004 Clinical Virology (including practice) [1] 1st A58099 Blood Banking[2] 1st A58019 Clinical Microbiology[2] 1st A58036 Clinical Microbiology Lab[1] 1st A58076 Clinical Serology & Immunology (including practice) [2] 1st A58087 Hematology & Blood Banking Lab[1] 1st A58092 Hematology[2] 1st A58093 Working Capability and Occupational Ethics[1] 1st A58003 Medical Molecular Diagnosis (including practice) [2] 2nd A58016 Clinical hematology[2] 2nd A58017 Clinical Microscopy[1] 2nd A58100 Clinical Biochemistry[4] 2nd A58035 Clinical Chemistry Lab[1] 2nd A58073 Clinical Microscopy Lab[1] 2nd A58094 Quality Control & Laboratory Management [2] 2nd	A58029 Histopathologic & Serodiagnosis Practice [1] A58030 Molecular Diagnosis Practice [1] A58031 Blood Bank Practice [1] A58032 Clinical Hematology Practice [3] A58033 Clinical Physiology Practice [2] A58034 Clinical Microscopy Practice [2] A58037 Clinical Chemistry Practice [2] A58038 Clinical Microbiology Practice [3] A58039 Clinical Serology & Immunology Practice [2] A58040 Clinical Virology practice [1]
Departmental electives (≥28 credits)	A58044 Cell Biology[2] A58050 Introduction to Public Health[2] A58066 Career Planning in Medical Technology[2] A58067 Basic Laboratory Technology[2] A58095 Laboratory Animal Science[2] A58098 Biostatistics[2]	A58045 Seminar(1) [1] A58046 Seminar(2) [1] A58048 Biotechnology[2] A58049 Toxicology[2] A58088 Phlebotomy (including practice) [2] A58089 Molecular Biology[2]	A58051 Environmental Toxicology[2] A58052 Journal Reading[2] A58060 Interpretation of Lab Data[2] A58077 Implementation of new molecular detection technology platform[2] A58096 Theory and practice of genetic detection technology[2] A58097 Analysis of microbiota in environments[2] A58082 Bioinformatics Analysis (including practice) [3]	A58053 Advance in Clinical Chemistry [1] A58054 Advance in Immunology & Virology [1] A58056 Advance in Molecular Diagnosis & Clinical Microscopy A58057 Advance in Physiology & Pathology [1] A58058 Advance in Microbiology [1] A58059 Advance in Hematology & Blood Banking [1] A58063 Medical Genetics [2] A58064 Research Thesis [2] A58068 Internship in health industry [3] A58080 AI in Medical Laboratory Science[2] A58090 Precision Laboratory Medicine[2] A58091 Cell Therapy and Regenerative Medicine[2]
GE liberal arts education	GE liberal arts education: elective, <b>10</b> credits from “Humanities and Arts”, “Nature and Technology” , “Social Science”			
Cross-domain electives	Up to <b>15</b> credits earned from courses, whether required or elective, offered by other departments/programs at I-Shou University or its partner universities will be recognized by the Department as credits from electives.			
Credits required for graduation from the Department	<b>135 Credits</b>			
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.)			