

I-SHOU UNIVERSITY Department of Department of medical Laboratory Science 4-Year Curriculum for Students Admitted in Academic Year 2026

Category	Freshman Year		Sophomore Year	
GE core courses: required (16 credits)	A93A34 Academic English [2]1st A93A28 Codes in Health and Medicine [2]1st A93A35 Professional English [2] 2nd A93A20 Programming [2] 1st A93A29 Secret Codes in Intelligent Technologies [2]2nd A93A21 Civic Literacy in the Era of Globalization [2]2nd		A93A36 Chinese Literature - Speculative and Expression [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	Sophomore Year	Junior Year	Senior Year
Department-required courses (76 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 Cincial 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] A58069 English Proficiency[0] 1st A58B98 Interdisciplinary Competencies [0] 1st
Departmental electives (≥13 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] A58064 Research Thesis [2] A58102 Geriatric Physiology[2]	A58051 Environmental Toxicology[2] A58052 Journal Reading[2] A58060 Interpretation of Lab Data[2] A58096 Theory and practice of genetic detection technology[2] A58097 Analysis of microbiota in environments[2] A58082 Bioinformatics Analysis (including practice) [3] A58063 Medical Genetics [2] A58090 Precision Laboratory Medicine[2]	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] A58068 Internship in health industry [3] A58077 Implementation of new molecular detection technology platform[2] A58080 AI in Medical Laboratory Science[2]

				A58091 Cell Therapy and Regenerative Medicine[2] A58103 Geriatric Laboratory Medicine[2] A58104 General GMP Quality Management for Injectable Manufacturing[2] A58105 GMP Laboratory Management and Testing Practices[2]
GE liberal arts education	GE liberal arts education: elective, 10 credits from “Humanities and Arts”, “Nature and Technology” , “Social Science” , 2 credits from “College Humanistic Literacy Courses”.			
Cross-domain electives	Up to 15 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	135 Credits			
Note	Undergraduate students admitted to the University in or after Academic Year 2026 are required to fulfill all of the following requirements during the prescribed duration of study to be eligible for graduation: I. Earning the number of course credits required by their major department; II. Completing one required cornerstone course offered by another college and earning a passing score; the credits earned from this course may be counted toward the Liberal Arts Education category, up to a maximum of four credits; III. Fulfilling one of the University’s English proficiency requirements for graduation by submitting a valid test report recognized by the University; IV. Interdisciplinary Learning: Completing a minor or a secondary major recognized by the University, or completing an interdisciplinary credit program or micro-credit program offered by the University and obtaining a certificate of completion issued by the program;			

