

I-SHOU UNIVERSITY Department of Civil Engineering 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 A93A35 Professional English [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		A93A28 Codes in Health and Medicine [2]1st A93A20 Programming [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 (14 credits)	A83817 Calculus (I) – Digital Learning [1] 1st A83819 Calculus(I) [2] 1st A83818 Calculus(II)Digital Learning [1] 2nd A83820 Calculus(II) [2] 2nd		A83815 General Physics(I) [3] 1st A83E03 Green Permanence Cipher [2] 2nd A83809 Engineering Mathematics(I) [3] 1st	
Category	Freshman Year(2025)	Sophomore Year(2026)	Junior Year(2027)	Senior Year(2028)
Department-required courses (53 credits)	A06193 Introduction to Engineering drawing [2] 1st A06131 Surveying [3] 1st A06223 Surveying Practice(I) [1] 1st A06132 Computer Aided Design and Manufacturing Internship[1] 1st A06300 Engineering design thinking [2] 1st A06143 AI Applications In Civil Engineering [1] 1st A06224 Surveying Practice(II) [1] 2nd A06832 Statics [3] 2nd	A06834 Strength of Materials [3] 1st A06837 Construction Materials [1]1st A06838 Experimental practice of sustainable materials [1] 1st A06346 Experimental practice of Explore Geotechnical [1] 1st A06347 Rock Mechanics [3] 1st A06348 Foundation Engineering [3] 2nd A06238 Hydrology and Experiment [3] 2nd A06327 Structural Analysis [3] 2nd A06349 Structural design experiment implementation [1] 2nd	A06328 Reinforced Concrete [3] 1st A06345 Experimental practice of Zero carbon building [1] 1st A06243 Fluid Mechanics and Experiment. [3] 1st A06323 Environmental Engineering [3] 1st A06326 Traffic Engineering [3] 2nd A06241 Special topics on Construction Management [2] 2nd A06521 Engineering Statistics [3] 2nd	A06511 Independent Study [2] 1st A06420 English Proficiency Enhancement [0] 1st
Departmental electives (≥13 credits)	A06197 Introduction to Technology Applications [3] A06198 Exploration of AI Applications [2] A06617 Engineering Ecology [2] A06522 Ecological Engineering [2]	A06199 Intelligent Disaster Prevention Practice [3] A06200 Introduction to Architecture [3] A06492 Engineering Economics [3] A06491 Construction Planning and Estimating [2]	A06244 Applications of Sustainable Materials [3] A06245 Civil Engineering Technology Applications Practice [3] A06246 Intelligent Transportation Engineering [3] A06247 Rock Mechanics [3] A06415 Steel Structure Design and Construction [3] A06343 Green building [2] A06392 Construction Engineering [3] A06357 Asphalt Concrete Design [2] A06426 Building Information Modeling [3] A06688 Intermediate Structural Analysis [3] A06334 Soil and Water Conservation [3]	A06249 Construction Management [3] A06800 Engineering Management in Practice [3] A06342 Management Science [3] A06432 Dynamics of Structures [3] A06795 Seismic Assessment and Retrofit Techniques of [3] A06437 Pavement Engineering [3] A06493 Civil Engineering Regulations [3] A06468 Environmental Impact Assessment [3] A06414 Sustainable and Environmental Issues [3] A06481 Applied Foundation Engineering [3] A06336 Geographic Information Systems [3]
GE liberal arts education	GE liberal arts education: elective, 10 credits from “Humanities and Arts”, “Nature and Technology” , “Social Science”			
Cross-domain electives	Students are allowed to freely choose 20 credits from courses within or outside the department. If they exceed 15 credits, at least 6 of those credits must include courses from the "Sustainable Engineering Design and Practice" program.			
Credits required for graduation from the Department	128 Credits			
Note	<p>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.</p> <p>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.)</p>			