

Important Information about the University Core Curriculum for Spring 2025

I. Undergraduate students must complete 37 University Core Curriculum credits before graduation.

1. Students in General Programs and Local Students in International Programs:

Languages (9 credits total: 3 credits for Chinese & 6 credits for English), Physical Education (4 credits total), Service Learning (2 credits total), Information Technology (2 credits), and Elective General Education Core Courses (20 credits total)

2. International Students in International Programs:

Languages (9 credits total: 6 credits for Mandarin Chinese & 3 credits for Elective English or Second Foreign Languages), Physical Education (4 credits total), Service Learning (2 credits total), Information Technology (2 credits), and Elective General Education Core Courses (20 credits total)

II. Elective Core Courses

1. Students must complete 20 credits total for Elective Core Courses, including Required Elective Core Courses and Recognized Elective General Education Core Courses.

2. Required Elective Core Courses consist of the following three academic categories:

- (1) Rational Thinking
- (2) Cultural Literacy
- (3) Local Commitment

3. The remaining Elective Core Course credits may be selected from the following two kinds of “Recognized Elective General Education Core Courses”: (1) Elective General Education courses, and (2) college foundational courses or department core and specialized courses offered outside of students’ major departments*.

* For students of non-Education departments who are in the Pre-service Elementary or Secondary Education Programs, the Teacher Education credits earned from the courses offered by the Center for Teacher Education cannot be counted toward the University Core Curriculum credits unless they abandon the qualification as pre-service teachers and such abandonment is officially confirmed by the Center for Teacher Education..

4. Students in International Programs may take a maximum of 20 credits of other English-taught courses offered at NDHU to fulfill the Elective Core Course Requirement after completing all the required specialized course credits.

Note: Undergraduate students enrolled before Fall 2017 who choose to apply to a newer version of the University Core Curriculum Requirements should take at least one course from each of the three Required Elective Core Course categories and also Recognized Elective Core Courses, including (1) courses with codes beginning with "GC," and (2) college foundational courses or department core and specialized courses offered outside of students' major departments or programs to meet 20 credits of the Elective Core Course requirement. In addition, a 2-credit "Information Technology" course is required. Also, please consult the General Education regulations to make sure if a course taken can count toward the major or program course requirements; a course taken that does not count toward the University Core Curriculum course credits will still be included in the total course credits completed upon graduation. And since credits of the Pre-service Teacher Education Program for Elementary or Secondary Education from courses offered by the Center for Teacher Education do not count toward the course credit requirements for graduation, they cannot count toward the course requirements for the General Education/University Core Curriculum.

III. Service Learning

Students must complete Service Learning I and II sequentially before graduation. Service Learning I should be taken from students' major departments. Service Learning II may be taken from either students' major departments or other departments; for the latter case, students should consult with their major departments on the eligibility for credit recognition.

IV . Information Technology (2 credits)

Please refer to the National Dong Hwa University Implementation Regulations of Computer Programming Competence Requirement for Graduation for Undergraduate Students. Students who are eligible for a waiver of the required Information Technology course may submit a waiver request and be granted 2 credits

1. Based on their respective majors, undergraduate students are divided into Fundamental (students whose majors are not in Science, Engineering, or Information Management) and Advanced (students majoring in Science, Engineering, and Information management) Levels. Students may choose one Information Technology course (2 credits) according to their levels; apply for credit transfer with related courses in Information Technology taken (please see the list of recognized courses by the General Education Center); or request a course waiver and be granted the course credits (2 credits) by attending recognized competitions, certifications, or examinations (including those held by NDHU).

2. Students majoring in Science and Engineering (except for those majoring in Computer Science & Information Engineering, Electrical Engineering, Applied Mathematics, and Information Management) need to take "Intermediate Computer Programming" offered by the General Education Center or its

related courses as listed in the Attachment; “Fundamental Computer Programming” cannot count toward the University Core Curriculum credits. Students of non-Science and Engineering majors need to take “Fundamental Computer Programming” offered by the General Education Center or its related courses as listed in the Attachment. Students majoring in Computer Science & Information Engineering, Electrical Engineering, Applied Mathematics, and Information Management need to take Information Technology related courses offered by respective departments to meet the required Information Technology course credits; Computer Programming courses taken that are offered by the General Education Center cannot count toward the University Core credits.

V. Credit recognition of the taken University Core Courses related to the departments’ specialized areas will be determined by the Curriculum Committees of individual departments and colleges.

In principle, a University Core course must have a minimum of 20 students registered after the Course Add/Drop Period. Please follow the General Education Center announcements regarding additional course offering or course cancellation before or after a semester begins. Students are strongly advised to attend the first meeting of a course and read the course plan and syllabus (also the additional note) carefully. And please be prudent when arranging your course schedules. **Since Fall 2016, the General Education Center no longer accepts and approves any requests to drop courses during the Additional Course Add period.** Please check the General Education Center website and follow the Office of Academic Affairs for related information and regulations about the University Core courses.

VI. Cross-campus distance courses are counted toward the Recognized Elective Core Course credits. Please refer to the latest course list provided by the General Education Center in every semester

VII. Students may decide for themselves the most applicable version of the University Core Curriculum Requirements to count course credits toward graduation in the first semester of the final study year. The selected version of requirements does not have to be of the same year as that of the course requirements of students’ majors.

VIII. The following English-taught University Core courses are NOT recognized as Additional Courses for the English Requirement for Graduation since Spring 2019. Please pay attention when choosing Additional Courses for the English Requirement for Graduation. For the list of courses eligible as Additional Courses for the English Requirement for Graduation, please consult the website of the Language Center.

Course Code	Course Title
GC__B0060	Piano Playing and Music Appreciation

GC__17900	Introduction to Finance
GC__63160	Introduction to Economic Theory
GC__64680	Introduction to Chinese Calligraphy and Practice
GC__44700	Global Change and Sustainable Development
GC__67710	Fundamentals of Climate Change Science
GC__65350	Psychology and Life

**Recognized Information Technology Related Professional & Specialized Courses
from Individual Departments (Academic Year 2024)**

Department	Course Code	Course Title	Credits/Hours	Note
Applied Mathematics	CSIE10400	Introduction to Computer Programming (I)	3/3	In collaboration with the CSIE Dept.
	AM__11600	Software Implementations and Computation	3/3	
	AM__11700	Software Implementations and Computation Experiments	1/3	
	CSIE20000	Data Structures	3/3	In collaboration with the CSIE Dept.
	CSIE10500	Introduction to Computer Programming (II)	3/3	In collaboration with the CSIE Dept.
	CSIE20500	Algorithm Design and Analysis	3/3	In collaboration with the CSIE Dept.
Physics	APH_50200	Computational Physics (I)	3/3	
	APH_51100	Computational Physics (II)	3/3	
	PHYS31100	Experimental Techniques in Physics (I)	3/3	
	PHYS21240	Physics (Python for Physics) I	3/3	
	PHYS21250	Physics (Python for Physics) II	3/3	
Chemistry	CHEM53800	Computational Chemistry	3/3	1. GE Courses: Intermediate Computer Programming courses
	CHEM21800	Introduction to Structural Bioinformatics	3/3	2. Chemistry Dept.: Computational Chemistry 3. Fundamental Program of EE and CS: Introduction to Computer Programming (I)

				4. IM Dept.: Web Programming and other Computer Programming related courses by the CSIE Dept.
Life Science	LF__33470	Bioinformatics analysis	3/3	1. GE Courses: Intermediate Computer Programming courses 2. Fundamental Program of EE and CS: Introduction to Computer Programming (I) 3. IM Dept.: Web Programming and other Computer Programming related courses by the CSIE Dept.
Electrical Engineering	CSIE10400	Introduction to Computer Programming (I)	3/3	In collaboration with the CSIE Dept.
Computer Science and Information Technology	CSIE10400	Introduction to Computer Programming (I)	3/3	General Program
	CSIEB0020	Introduction to Computer Programming (I)	3/3	International Program (English-taught course)
Opto-Electronic Engineering	OE__10390	Digital Design	3/3	
	OE__10350	Numerical analysis and calculation for Opto-electronics	3/3	
	OE__10400	Electro-Optical Engineering Digital Drawing	3/3	
Materials Science and Engineering	Students of Materials Science and Engineering should take “Intermediate Programming for Computational Materials Science” and “Intermediate Computer Programming” offered by the General Education Center.			
Information Management	IM__11200	Program Design	3/3	
	IM__11300	Advanced Program Design	3/3	
Bachelor Degree Program of Data Science	DS__10000	Introduction to Computer Programming (I)	3/3	In collaboration with the CSIE Dept.
Natural Resources and Environmental Studies	NRES__20230	Fundamental Computer Programing–R Language	3/3	

Special Education	SPE__22520	The Development and Application of SMART Communication System	2/2	
History	HIST37950	3D Modeling in Virtual Reality (II)	2/2	

Description:

1. Starting Fall 2017, undergraduate students need to take required Information Technology course (2 credits) to meet the University Core Requirements. Students of Science and Engineering (except for those of CSIE, EE, AM and DS) should take Intermediate Computer Programming courses offered by the General Education Center or other Intermediate Computer Programming-related courses in the table above; students other than Science, Engineering, and IM should take Fundamental Computer Programming courses offered by the General Education Center or other related courses in the table above. However, the Information Technology course credits fulfilled by credit transfer from any of the courses not offered by the General Education Center, as listed in the aforementioned tables, will not count toward the University Core, whose credit requirements need to be satisfied by other eligible General Education courses.

2. Students of CSIE, EE, AM,DS and IM should take required Information Technology-related courses offered by their respective departments to fulfill the Information Technology credits of the University Core Requirements; the credits fulfilled by credit transfer from such courses will not count toward the University Core, whose credit requirements need to be satisfied by other eligible General Education courses. Computer Programming courses taken that are offered by the General Education Center cannot count toward the University Core Curriculum credits.