

Common Core Course List (Last update: 21 April 2026)

(30-credit Common Core Program for Students Admitted from 2022-23 Onward)

Common Core Course with Subject Area Prefix from 2023-24 ²	Course Title	Credit	Common Core Area	Remarks	Previous Common Core Course Code with "CORE" Prefix In 2022-23 ¹			
					Fall 2022-23	Winter 2022-23	Spring 2022-23	Summer 2022-23
Courses in Broadening Group								
BIEN 1610	Engineering Life: Synthetic Biology and Innovations for Human Health	3	S, T	This is a common core course with effect from 2025-26 Fall.	--			
BIEN 1620	Revolutionizing Health: Biomedical Innovations in Everyday Life	3	S, T	This is a common core course with effect from 2025-26 Summer.	--			
CENG 1800	Introduction to Food Science and Technology	3	S, T		--		CORE 1212	
CIVL 1100	Discovering Civil and Environmental Engineering	3	T	This is a common core course with effect from 2026-27 Fall.	--			
CIVL 1140	Environment and Society: Sustainable Development Goals and Carbon Neutrality	3	T	This is a common core course with effect from 2024-25 Spring.	--			
			SUS	From 2025-26 Fall for 2025-26 and 2026-27 cohorts.				
			S	From 2024-25 Spring to 2024-25 Summer.				
CIVL 1161	Building the Future: Civil Engineering Challenges & Solutions	3	T	This is a common core course with effect from 2025-26 Spring.	--			
CIVL 1180	Monitoring Changing Climate from Space	3	S, T		--			
CIVL 1190	Climate Change, Big History and Sustainability	3	S		--		CORE 1223	
			SUS	From 2025-26 Fall for 2025-26 and 2026-27 cohorts.	--			
			T	From 2022-23 Spring to 2024-25 Summer.	--		CORE 1223	
CIVL 1210	Fundamental of Green Buildings	3	T, SUS	- This is a common core course with effect from 2025-26 Spring. - SUS area is for 2025-26 and 2026-27 cohorts.	--			
CIVL 1220	Big Data for Smarter Cities	3	T		--			
COMP 1001	Exploring Multimedia and Internet Computing	3	T		--		CORE 1231	
COMP 1942	Exploring and Visualizing Data	3	T		--		CORE 1232	
COMP 1943	Creative Sound and Video Design	3	A, T		--		CORE 1233	
COMP 1945	Artificial Intelligence for Everyone: From Data to Applications	3	T	This is a common core course with effect from 2025-26 Spring.	--			
ELEC 1010	Electronic and Information Technology	3	T		--		CORE 1240	
ELEC 1150	Information Technology Revolution: Past, Present and Future	3	T	The course code was ENGG 1150 on or before 2024-25 Summer.	--		CORE 1203	
EMIA 1901	Introduction to Smart City Development	3	T	This is a common core course with effect from 2025-26 Fall.	--			
ENGG 1110	Engineering Solutions to Grand Challenges of the 21st Century	3	T		--		CORE 1202	
ENGG 1200	Engineering Team Design Experience	3	T		--		CORE 1200	
ENGG 1300	Design Thinking for Health Innovation	3	T		--		CORE 1201	
ENGG 1500	Technological Innovation: From Concept to Reality	3	S, T	This is a common core course with effect from 2025-26 Summer.	--			

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ENTR 1001	Entrepreneurship 1001: Designing Your Future	3	T		--			CORE 1001
ENVR 1030	Environment and Health	3	T		--			
			SUS	From 2025-26 Fall for 2025-26 and 2026-27 cohorts.				
ENVR 2070	Smart Buildings for a Warming Planet	3	T		--			CORE 2944 [#]
			SUS	From 2025-26 Fall for 2025-26 and 2026-27 cohorts.	--			
HUMA 1678	Introduction to Digital Humanities & AI	3	H, T	This is a common core course with effect from 2025-26 Spring.	--			
IEDA 1250	Optimizing Decisions for Personal and Business Development	3	S, T		--			CORE 1251
IEDA 1280	Decision Analytics for Modern Society	3	T	This is a common core course with effect from 2025-26 Spring.	--			
ISDN 1120	Bring AI to Your Side	3	T	This is a common core course with effect from 2025-26 Fall.	--			
ISDN 1200	Design Thinking for Technological Innovations	3	T	This is a common core course with effect from 2025-26 Fall.	--			
ISDN 2000	What is Design and Why Design?	3	T		--			CORE 2261 [#]
			SUS	From 2025-26 Fall for 2025-26 and 2026-27 cohorts.	--			
ISOM 1090	Social Media: Collective Intelligence & Creativity	3	SA		--			CORE 1341 [#]
			T	From 2025-26 Summer.				
ISOM 1380	Technology and Innovation: Social and Business Perspectives	3	SA		--			CORE 1340 [#]
			T	From 2025-26 Summer.				
ISOM 1400	Digital Philanthropy: Harnessing Technology for Social Changes and Beyond	3	T, SA	This is a common core course with effect from 2024-25 Summer.	--			
ISOM 2310	Fundamentals of E-Commerce: Business, Technology, and the Society	3	SA		--			CORE 1343 [#]
			T	From 2025-26 Summer.				
ISOM 2400	Global Information Infrastructure and Policy	3	T, SA	This is a common core course with effect from 2023-24 Winter.	--			
MECH 1905	Buildings for Contemporary Living	3	S, T		--			CORE 1270
MECH 1908	Exploration of Mechanical Design and Engineering	3	T	This is a common core course with effect from 2024-25 Spring.	--			
RMBI 1020	Business Intelligence for Data-Driven Decisions	3	T		--			
SUST 1010	Introduction to Sustainability	3	SUS	From 2025-26 Fall for 2025-26 and 2026-27 cohorts.	--			
			T, SA	From 2022-23 Spring to 2024-25 Summer.	--			CORE 1940

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Notes:

- In 2022-23, all common core courses for the 30-credit Common Core Program were assigned a "CORE" prefix. Starting from 2023-24, this prefix has been removed, and common core courses have been coded according to their subject area code (e.g., "ACCT" for Accounting). Students should pay attention to the following for study plan and before enrolling in classes:
 - Students who took any "CORE" courses in 2022-23 can still use them to fulfill the corresponding common core area requirements. However, they cannot retake the same course with the corresponding subject area code. For example, if students completed CORE 1240 Electronic and Information Technology in 2022-23, they can use it to fulfill the Technology (T) area requirement; but they cannot retake the same course using the subject area code ELEC 1010 Electronic and Information Technology in subsequent terms.
 - If students took a course in 2022-23 that does not have a "CORE" prefix, they cannot use it to fulfill any common core requirements. For example, credits earned from SOSC 1850 Understanding Society in 2022-23 cannot count toward the Social Analysis (SA) area requirement.
 - Students can use the "CORE" course to fulfill EITHER common core OR School/major requirements, but not both.

Remarks:

The subject area codes are the alternate code of the CORE codes. For example, HUMA 1150 is the alternate code for CORE 1660. In 2022-23, students cannot use courses with subject area prefix (e.g., HUMA 1150) to fulfill any common core requirements. However, starting from 2023-24, students can use subject area-coded course (e.g., HUMA 1150) to fulfill EITHER the common core requirement OR the School/major requirement, but not both.

- It is important to note that certain major/minor programs may include common core courses as required or elective courses. While these courses can fulfill relevant major/minor requirements, students should be aware of the credit reuse rules specified by individual programs. Credits from some of these common core courses may only be used to fulfill EITHER the common core requirements OR the major/minor requirements, but not both. Please refer to the program catalog or consult your major/minor departments for details.

Common Core Areas

HAIC: Human-AI Co-Creation and Data Literacy (for 2026-27 cohort); CTDL: Critical Thinking and Data Literacy; HMW: Habits, Mindsets, and Wellness; E-Comm: English Communication; C-Comm: Chinese Communication; A: Arts; H: Humanities; S: Science; T: Technology; SA: Social Analysis; SUS: Sustainability (from 2025-26 cohort); UxOP: Undergraduate experiential Opportunities Programs