

Senior Year One Curriculum

Subject Code	Subject Title	No. of Credits	Subject Nature
CLC3231P	Chinese Communication for Construction and Environment	3	DSR
COMP1012	Programming Fundamentals and Applications	3	DSR
CSE30301	Structural Analysis	3	DSR
CSE30306	Hydraulics and Hydrology	3	DSR
CSE30310	Design of Concrete Structures	3	DSR
CSE30311	Design of Steel Structures	3	DSR
CSE30312	Transportation and Highway Engineering	3	DSR
CSE30337	Water and Waste Management	3	DSR
CSE38900	Quantitative Methods for Civil Engineering	3	DSR
CSE40403	Geotechnical Design	3	DSR
ELC3421	English for Construction and Environmental Professionals	3	DSR
CSE30323	Summer Training	4ptc	DSR
CSE1Q01	Essential Components of General Education*	0	GUR
	CAR Subject 1 (CARA – English Language)	3	GUR (CAR)
	Total:	36+4ptc	

* Essential Components of General Education:

- Academic Integrity
- Artificial Intelligence and Data Analytics
- Innovation and Entrepreneurship
- National Education

ptc: Practical training credit

Senior Year Two Curriculum

Subject Code	Subject Title	No. of Credits	Subject Nature	
CSE30331	Air and Noise Pollution Studies for Civil Engineering	3	DSR	
CSE40419	Engineers in Society	3	DSR	
CSE48904	Design Project for Civil Engineering	4	DSR	
CSE49405	Individual Project for Civil Engineering	6	DSR	
CSE40407	Design of Transport Infrastructure	3	DSR Elective Subject (choice of any three)	
CSE40408	Traffic Surveys and Transport Planning	3		
CSE40410	Advanced Geotechnical Design	3		
CSE40411	Rock Engineering	3		
CSE40418	Advanced Structural Analysis	3		
CSE40422	Infrastructure Management	3		
CSE40432	Solid and Hazardous Waste Control	3		
CSE40462	Environmental Impact Assessment – Theory and Practice	3		
CSE49400	Advanced Structural Design	3		
CSE49461	Water and Wastewater Treatment Techniques	3		
	CAR Subject 2 (Cluster Area M)	3		GUR (CAR)
	Service-learning subject#	3		GUR (SL)
	Total:	31		

Recommended Service Learning Subjects:

CSE2S02 Serving Disadvantaged Communities Suffering from Urban Decay

CSE3S01 Built Environment Enhancement for Underprivileged Communities

The offering pattern and timetable can be found at <https://www.polyu.edu.hk/ogur/GURSubjects/SL.php>.

Remarks:

Language and Communication Requirements

Students not meeting the equivalent standard of the Undergraduate Degree LCR (based on their previous studies in Associate Degree/Higher Diploma programmes and their academic performance) will be required to take degree LCR subjects on top of their normal curriculum requirement.

Students are required to fulfil the English and Chinese Reading and Writing Requirements. Waiver may be granted to students who have fulfilled the Chinese reading and writing requirements in their previous studies.

Apart from the curriculum requirement, students must fulfill the mandatory requirement of Work-Integrated Education (WIE) and complete the Online Tutorial on Academic Integrity in order to graduate.

Total No. of Credits for Senior Year curriculum: 67 credits and 4 practical training credits