

University of the Philippines
COLLEGE OF EDUCATION
 Diliman, Quezon City

Certification in STEM Teaching (CST)

(Approved by the UPCEd faculty at the 04 December 2023 Special Faculty Assembly)

Student's Name _____ Student Number _____ Date Admitted/Started _____
 Highest Degree Attained _____ Email Address _____ Mobile Number _____

Cluster 1 Content Knowledge.....9 units

Choose any three of the following courses:

Course Number	Course Title	Prerequisite/Course Stipulation	Units	Semester	Academic Year	Grade
EDSC 123	Concepts and Methods for Selected Topics in Basic Education Mathematics		3			
EDSC 124	Geometry for Basic Education Teachers		3			
EDSC 213	Selected Topics in Modern Algebra and Set Theory for Elementary School Teachers	Major in Math/COI	3			
EDSC 214	Selected Topics in Geometry for Elementary School Teachers	Major in Math/COI	3			
EDSC 215 or EDSC 225	Selected Topics in Number Theory for Elementary School Teachers Selected Topics in Mathematics for Secondary School Teachers	Major in Math/COI	3			
EDSC 226	Selected Topics in Mathematics for Secondary School Science Teachers	COI	3			
EDSC 227	Selected Topics in Mathematics for Secondary School Physics Teachers	COI	3			
EDSC 244	Science for Basic Education Teachers		3			
EDSC 253	Selected Topics in Biological Science for Science Teachers	Major in science/COI	3			
EDSC 254	Biology for Secondary School Teachers	Major in Biology/COI	3			
EDSC 264	Chemistry for Secondary School Teachers I	Major in Chemistry/COI	3			
EDSC 265	Chemistry for Secondary School Teachers II	COI	3			
EDSC 274	Physics for Secondary School Teachers I	Major in Physics/COI	3			
EDSC 275	Physics for Secondary School Teachers II	Major in Physics/COI	3			
EDSC 281	Instructional Strategies, Trends, and Issues in Environmental Education		3			
EDSC 283	Selected Topics in Environmental Science for Science Teachers	Major in science/COI	3			
EDSC 293	Selected Topics in Physical Science for Science Teachers	Major in science/COI	3			

Cluster 2 STEM Pedagogies.....9 units

Required

Course Number	Course Title	Prerequisite/Course Stipulation	Units	Semester	Academic Year	Grade
EDSC 106	Teaching STEM Research in Basic Education		3			

Choose any two of the following courses:

Course Number	Course Title	Prerequisite/Course Stipulation	Units	Semester	Academic Year	Grade
EDSC 101	The Teaching of Science	EDFD 116/COI	3			
EDSC 102	Teaching and Learning Physical Science		3			
EDSC 103	Teaching and Learning Biological Science		3			
EDSC 111 or EDSC 121	Fundamental Mathematics Concepts and Methods for Elementary School Teachers The Teaching of Mathematics	EDFD 116/COI	3			
EDSC 113	Beginning Number and Science Concepts in Children		3			
EDSC 152	Teaching of High School Biology		3			
EDSC 162	Teaching of High School Chemistry		3			
EDSC 172	Teaching of High School Physics		3			
EDSC 211 or EDSC 221	Instructional Planning and Procedures for Elementary School Mathematics Instructional Planning and Procedures for Secondary School Mathematics	Major in Math/COI Major in Math/COI	3 3			
EDSC 212	Diagnosis and Remediation in Elementary School Mathematics		3			
EDSC 244.1	Laboratory Course in General Science for Basic Education		3			
EDSC 254.1	Laboratory Course in Secondary School Biology		3			
EDSC 264.1	Laboratory Course in Secondary School Chemistry		3			
EDSC 274.1	Laboratory Course in Secondary School Physics		3			
EDUC 292	Curricular and Instructional Innovations		3			
EDUC 295	Teaching Strategies for Developing Critical and Creative Thinking		3			

NOTES: (1) Taking the Certification in STEM Teaching does not fulfill the 18-unit requirement to qualify to take the LET. (2) EDSC 101, EDSC 121, EDSC 152, EDSC 162, and EDSC 172 fulfill the 3-unit LET required course under Cluster 2: Principles & Techniques of Teaching.

Total Number of Units 18 units

Prepared by:	Noted by:	Received by:
Name and Signature of Student / Date	Name and Signature of Program Adviser / Date	OSEC / Date

CONFORME:

I will only take the courses included in my program. "In consideration of my admission to the University of the Philippines and the privileges of a student in this institution, I hereby promise and pledge to abide by and comply with all the rules and regulations laid down by competent authority in the university and in the college in which I am enrolled. Refusal to take this pledge or violation of its terms shall be sufficient cause for summary dismissal or denial of admission." (Academic Information, University of the Philippines, Diliman, General Catalogue 2004-2010).

Student's Name and Signature / Date