ELEMENTARY SCIENCE EDUCATION (ESE) – Program for Students who Started Department in 2018

FIRST YEAR

First Semester	Second Semester

That betheater		
PHYS 181	Basic Physics I	(4-2)5
MATH 117	Calculus I	(4-2)5
CHEM 111	General Chemistry I	(3-2)4
EDS 115	Introduction to Education	(2-0)2
ENG 101	English for Academic Purposes I	(4-1)4
EDS 255	Educational Philosophy	(2-0)2
HIST 2201	Principles of Kemal Atatürk I	NC
CEIT 105	Information Technology in Education	(3-0)3

PHYS 182	Basic Physics II	(4-2)5
MATH 118	Calculus II	(4-2)5
CHEM 112	General Chemistry II	(3-2)4
ENG 102	English for Academic Purposes II	(4-1)4
EDS 125	Educational Psychology	(2-0)2
BIO 140	Biology I	(2-2)3
EDS 240	Educational Sociology	(2-0)2
HIST 2202	Principles of Kemal Atatürk II	NC

SECOND YEAR

Third Semester Fourth Semester

Third Serriester		
PHYS 283	Optics and Modern Physics	(4-0)4
CHEM 282	Fund.of Anal.and Inorg.Chemistry	(3-0)3
BIO 241	Biology II	(2-2)3
EDS 212	Instructional Principles and Methods	(2-0)2
MSE 201	Approaches to Teaching and Learning Science	(2-0)2
EDS 214	Research Methods in Education	(2-0)2
Free Elective I*	ENG 211 Academic Oral Presentation Skills	
	Elective I	
	Educational Elective I	

Fourth Semester		
GEO 231	Elements of Geology	(3-0)3
BIO 242	Biology III	(2-2)3
MSE 288	Community Service	(1-2)2
EDS 266	Instructional Technologies	(2-0)2
MSE 202	Middle School Science Curricula	(2-0)2
EDS 213	History of Turkish Education	(2-0)2
	Free Elective II*	
	Elective II	
	Educational Elective II	

THIRD YEAR

Fifth Semester

MSE 309	Statistical Applications in Education	(2-2)3
MSE 301	Methods of Science Teaching in Middle Schools I	(2-2)3
TURK 305	Oral Communication	(3-0)2
TURK 311	Advanced Communication Skills	(3-1)3
	Departmental Elective I	

Sixth Semester

MSE 305	Assessment of Learning in Science and Mathematics	(3-0)3
MSE 302	Methods of Science Teaching in Middle Schools II	(2-2)3
TURK 306	Written Communication	(2-0)2
EDS 304	Classroom Management	(3-0)3
ASTR 200	Introductory Astronomy	(3-0)3
MSE 303	Laboratory Applications in Science Teaching I	(2-2)3

FOURTH YEAR

Seventh Semester Eighth Semester

MSE 487	Environmental Science	(2-2)3
MSE 417	School Experience	(1-4)3
MSE 401	Interdisciplinary Science Teaching	(2-2)3
	Elective III	

MSE 418	Practice Teaching	(2-6)5
EDS 416	Turkish Educational System and School Management	(3-0)3
EDS 424	Guidance	(3-0)3
	Departmental Elective II	
	Elective IV	

Electives must be at least 3 METU credits and 5 ECTS credits each.

Departmental Elective: Courses offered by Department of Mathematics and Science Education (either with MSE, ELE or SSME codes)

^{* 30} Temmuz 2019 tarihli Üniversite Senato Kararı'na (Toplantı No: 2019/7; Karar No:1) göre Free Elective kategorisindeki derslerden biri 6390211 Academic Oral Presentation Skills dersi olmalıdır.