MATHEMATICS EDUCATION (MHED) - Program for Students who Started Department in 2020

FIRST YEAR

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MATH 111	Fundamentals of Mathematics	(3-0) 3
MATH 115	Analytic Geometry	(3-0) 3
MATH 153	Calculus for Mathematics Students I	(4-2) 5
ENG 101	English for Academic Purposes I	(4-0) 4
PHYS 111	Physics I (Mechanics)	(4-2) 5

Second Semester

MATH 112	Discrete Mathematics	(3-0) 3
MATH 116	Basic Algebraic Structures	(3-0) 3
MATH 154	Calculus for Mathematics Students II	(4-2) 5
ENG 102	English for Academic Purposes II	(4-0) 4
PHYS 112	Physics II (Electricity and Magnetism)	(4-2) 5
IS 100	Introduction to Information Technology and Applications	NC

SECOND YEAR

Third Semester

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EDS 200	Introduction to Education	(3-0) 3
MATH 251	Advanced Calculus I	(4-0) 4
MATH 261	Linear Algebra I	(4-0) 4
ENG 211	Academic Oral Presentation Skills	(3-0) 3
HIST 2201	Principles of Kemal Atatürk I	NC
CENG 240	Programming with Python for Engineers	(2-2) 3

Fourth Semester

	Fourth Semester	
MSE 210	Theories of Teaching and Learning in Science and Mathematics	(3-0) 3
MATH 252	Advanced Calculus II	(3-2) 4
MATH 262	Linear Algebra 2	(4-0) 4
MATH 254	Differential Equations	(4-0) 4
HIST 2202	Principles of Kemal Atatürk II	NC
	Elective I	

THIRD YEAR

Fifth Semester

MSE 326	Curriculum Dev. and Instruction in Science and Mathematics Education	(3-0) 3
ENG 311	Advanced Communication Skills	(3-0) 3
TURK 305	Oral Communication	(2-0) 2
STAT 201	Introduction to Probability and Statistics I	(3-0) 3
MSE 321	Teaching and Learning Secondary School Mathematics I	(3-0) 3
MSE 329	Instructional Technology and Material Development	(2-2) 3

Sixth Semester

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MSE 305	Assessment of Learning in Science and Mathematics	(3-0) 3
MATH 201	Elementary Geometry	(3-0) 3
STAT 202	Introduction to Probability and Statistics II	(3-0) 3
MSE 322	Teaching and Learning Secondary School Mathematics II	(3-0) 3
TURK 306	Written Expression	(2-0) 2
MSE 288	Community Service	(1-4) 3
	Restricted Elective I	

FOURTH YEAR

Seventh Semester

MSE 417	School Experience	(1-4) 3
MSE 451	Teaching and Learning Secondary School Mathematics III	(3-0) 3
EDS 304	Classroom Management	(3-0) 3
MSE 431	Research Methods in Education	(3-0) 3
	Departmental Elective I	
	Restricted Elective II	

Eighth Semester

MSE 418	Practice Teaching	(2-6) 5
EDS 424	Guidance	(3-0) 3
MSE 452	Teaching and Learning Secondary School Mathematics IV	(3-0) 3
	Restricted Elective III	
	Departmental Elective II	
	Elective II	

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

Restricted Elective: 3xxx and 4xxx levels mathematics courses except Math 223, 321, 387, 388, 395, 396, 470, 486, 373

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