

## SSME – Physics Education

1st Semester				
Code	Name	T	U	Credit
CHEM 101	General Chemistry I	4	2	5
ENG 101	English for Academic Purposes I	4	0	4
MATH 117	Calculus I	4	2	5
PHYS 111	Physics I (Mechanics)	4	2	5
<b>Total</b>		<b>16</b>	<b>6</b>	<b>19</b>

2nd Semester				
Code	Name	T	U	Credit
CHEM 102	General Chemistry II	4	2	5
ENG 102	English for Academic Purposes II	4	0	4
MATH 118	Calculus II	4	2	5
PHYS 112	Physics II (Electricity and Magnetism)	4	2	5
IS100	Introduction to Information Technologies and Applications	0	2	0
<b>Total</b>		<b>16</b>	<b>6</b>	<b>19</b>

3rd Semester				
Code	Name	T	U	Credit
HIST 201	Principles of Kemal Atatürk I	2	0	NC
PHYS 203	Introductory Electronics	3	2	4
PHYS 209	Mathematical Methods in Physics I	4	0	4
PHYS 221	Optics and Waves	4	0	4
EDS 200	Introduction to Education	3	0	3
Free Elective I		3	0	3
<b>Total</b>		<b>19</b>	<b>2</b>	<b>18</b>

4th Semester				
Code	Name	T	U	Credit
ENG 211	Academic Oral Presentation Skills	3	0	3
HIST 202	Principles of Kemal Atatürk II	2	0	NC
PHYS 202	Modern Physics	4	0	4
PHYS 210	Mathematical Methods in Physics II	4	0	4
PHYS 222	Optics and Waves Laboratory	1	4	3
SSME 210	Theories & Appr. in Teac. and Lear. of Sci./Math.	3	0	3
<b>Total</b>		<b>17</b>	<b>4</b>	<b>17</b>

5th Semester				
Code	Name	T	U	Credit
PHYS 307	Applied Modern Physics	1	4	3
PHYS 335	Classical Mechanics I	4	0	4
SSME 301	Curr. Dev. & Instr. in Sci./Math. Ed.	3	0	3
SSME 443	High School Phys. Curr. Review	3	0	3
TURK 305	Oral Communication	2	0	2
Free Elective II		3	0	3
<b>Total</b>		<b>16</b>	<b>4</b>	<b>18</b>

6th Semester				
Code	Name	T	U	Credit
ENG 311	Advanced Communication Skills	3	0	3
SSME 302	Measurement & Evaluation in Science/Mathematics Education	3	0	3
SSME 310	Methods of Science Teaching I	2	2	3
SSME 403	Laboratory Experiments in Science Ed.	2	2	3
TURK 306	Written Expression	2	0	2
Restr. Elective I		4	0	4
<b>Total</b>		<b>16</b>	<b>4</b>	<b>18</b>

7th Semester				
Code	Name	T	U	Credit
EDS 304	Classroom Management	3	0	3
SSME 411	Methods of Science Teaching II	2	2	3
SSME 417	Instr. Tech. and Material Devel.	2	2	3
SSME 433	School Experience in Sci./Math. Ed.	1	4	3
Restr. Elec. II		3	0	3
<b>Total</b>		<b>11</b>	<b>8</b>	<b>15</b>

8th Semester				
Code	Name	T	U	Credit
EDS 424	Guidance	3	0	3
SSME 446	Practice Teaching in Sci./Math. Ed.	2	6	5
Restr. Elec. III		3	0	3
Depart. Elective		3	0	3
<b>Total</b>		<b>11</b>	<b>6</b>	<b>14</b>

**Departmental, restricted and free electives must be at least 3 credits each.**

Restricted Electives must be chosen from the following courses:

PHYS 251	Properties of Matter I
PHYS 260	Physics of Sports and Games
PHYS 281 OR ASTR201	Basic Physics II OR Astronomy I
PHYS 283	Optics and Modern Physics
PHYS 300*	Quantum Physics
PHYS 312	Elementary Condensed Matter Physics

PHYS 331*	Electromagnetic Theory I
PHYS 402	Nuclear Physics I
PHYS 407	Particle Physics I
PHYS 430	Statistical Thermodynamics
PHYS 431	Quantum Mechanics
PHYS 450	Health Physics

\* At least one of these courses must be taken