

SSME-CHEMISTRY EDUCATION

| First Semester | | | Second Semester | | |
|----------------|---|--------|-----------------|---|--------|
| Chem 105 | General Chemistry I | (4-4)6 | Chem 106 | General Chemistry II | (4-4)6 |
| Math 117 | Calculus I | (4-2)5 | Math 118 | Calculus II | (4-2)5 |
| Phys111 | Physics I (Mechanics) | (4-2)5 | Phys112 | Physics II (Electrics and Mag)) | (4-2)5 |
| ENG101 | Development of Reading and Writing Skills I | (4-0)4 | ENG102 | Development of Reading and Writing Skills I | (4-0)4 |
| | | | IS 100 | Introduction to Information Technologies and Applications | NC |
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| Third Semester | | | Fourth Semester | | |
|----------------|-----------------------------------|--------|-----------------|---|--------|
| Chem 221 | Analytical Chemistry I | (4-0)4 | Chem 234 | Organic Chemistry I | (4-0)4 |
| Chem 223 | Analytical Chemistry Lab I | (0-6)3 | Chem 236 | Organic Chemistry Lab I | (0-4)2 |
| Chem 233 | Introduction to Organic Chemistry | (2-0)2 | Chem 252 | Physical Chemistry I | (4-0)4 |
| Chem 257 | Mathematics for Chemists | (4-0)4 | Chem 254 | Physical Chemistry Lab I | (0-4)2 |
| EDS200 | Introduction to Education | (3-0)3 | SSME210 | Theories and Approaches in Teaching & Learning of Sci./Math | (3-0)3 |
| History 2201 | Principles of Kemal Atatürk II | NC | Eng 211 | Academic Oral Presentation Skills | (3-0)3 |
| Elective | | (3-0)3 | History 2202 | Principles of Kemal Atatürk II | NC |
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| Fifth Semester | | | Sixth Semester | | |
|----------------|---|--------|----------------|---|--------|
| Chem 301 | Organic Chemistry II | (4-0)4 | Chem 322 | Analytical Chemistry II | (4-0)4 |
| Chem 353 | Physical Chemistry II | (4-0)4 | Chem 324 | Analytical Chemistry Lab II | (0-6)3 |
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| Chem 361 | Inorganic Chemistry I | (4-0)4 | SSME302 | Measurement and Evaluation in Sci./Math Educ. | (3-0)3 |
| SSME301 | Curriculum Development & Instruction in Sci./Math Educ. | (3-0)3 | SSME310 | Methods of Science/ Mathematics Teaching I | (2-2)3 |
| Chem 400 | Colloquium in Chemistry II | NC | ENG311 | Advanced Communication Skills | (3-0)3 |
| TURK 305 | Oral Communication | (2-0)2 | TURK 306 | Written Expression | (2-0)2 |
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| Seventh Semester | | | Eighth Semester | | |
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| SSME411 | Methods of Science/Mathematics Teaching II | (2-2)3 | SSME446 | Practice Teaching in Science/ Mathematics Education | (2-6)5 |
| SSME417 | Instructional Technology and Material Development | (2-2)3 | EDS424 | Guidance | (3-0)3 |
| SSME433 | School Experience in Science/ Mathematics Education | (1-4)3 | Departmental Elective | | (3-0)3 |
| SSME 403 | Laboratory Experiments in Science Education | (3-0)3 | Restricted Elective | | (3-0)3 |
| EDS304 | Classroom Management | (2-2)3 | | | |
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- Elective: Courses offered by any department
- Restricted Elective: Chem 362 Inorganic Chemistry II or Chem 350 Quantum Chemistry, offered by Department of Chemistry