

Recommended Program Template

| FIRST YEAR | | | |
|------------------------------------|---|-----------------|--------------|
| First Semester | | Second Semester | |
| MJC 100 | Majors: Informative Course | 0 | 1 |
| ENG 101 | Freshman English I | 3 | 3 |
| HIST 191 | The Making of Modern Turkey I | 2 | 3 |
| MATH 101 | Functions: Discrete and Continuous I | 3 | 6 |
| NS 101 | Science of Nature I | 4 | 6 |
| SPS 101 | Humanity and Society I | 3 | 6 |
| TLL 101 | Turkish Language and Literature I | 2 | 3 |
| CIP 101 | Civic Involvement Projects I | 0 | 2 |
| Total Credit | | 17 | 30 |
| SECOND YEAR | | | |
| Third Semester | | Fourth Semester | |
| CS 201 | Introduction to Computing | 3 | 6 |
| ENS 205 | Introduction to Materials Science | 3 | 6 |
| ENS 202 | Thermodynamics | 3 | 6 |
| MATH 203 / 201 | Intro. To Prob. & Stat./ Linear Algebra | 3 | 6 |
| Elective | | 3/4 | 6-7 |
| Total Credit | | 15/16 | 30-31 |
| THIRD YEAR | | | |
| Fifth Semester | | Sixth Semester | |
| MAT 312 | Materials Characterization | 4 | 7 |
| MAT 314 | Mechanical Properties of Materials | 3 | 5 |
| MATH 203 / 201 | Intro. To Prob. & Stat./ Linear Algebra | 3 | 6 |
| MAT 305 | Polymer Engineering I | 3 | 5 |
| Elective | | 3/4 | 6-7 |
| Total Credit | | 16/17 | 29-30 |
| PROJ 302 Summer Project 0 5 | | | |
| FOURTH YEAR | | | |
| Seventh Semester | | Eight Semester | |
| ENS 491 | Graduation Project (Design) | 1 | 2 |
| SPS 303 | Law and Ethics | 3 | 5 |
| MAT 408 | Introduction to Ceramics | 3 | 5 |
| Elective | | 3 | 5-6 |
| Elective | | 3 | 5-6 |
| Elective | | 3/4 | 6-7 |
| Total Credit | | 16/18 | 28-31 |
| Total Credit | | 15/17 | 27+ |

University Courses Shown in Green

Required Courses shown in Bold

Must take focus area courses in red bold

Other recommended courses in the faculty with nano content

ENS 413 Experimental Methods in Nanoscience I

ENS 414 Experimental Methods in Nanoscience II

MAT 401 Surface Science

MAT 416 Biomaterials Science and Biocompatibility

MAT 404 Polymer Physics

ME 435 Scaling in Engineering Systems

PHYS 492 Modern Topics in Condensed Matter Physics

ME 402 Plasmonics