## Materials Science and Engineering Prerequisites Flowchart YENİ First Year **Second Year Third Year Fourth Year** 2nd Semester 2nd Semester 2nd Semester 1st Semester 1st Semester 1st Semester 2nd Semester 1st Semester **MSE 402 MSE 200 MSE 300** Adv. Materials Summer Summer and Composites Training I Training II **MSE 407 MSE 302 PHYS 131 PHYS 132 MSE 408 MSE 225** MSE 226 **ME 215** Innovative Materials Innovative Physics I Physics II Int. To Mater. Engineering Engineering **Fundamentals** Processing II Engineering Design Science Materials of Thermal Analysis and and Implementation Design Systems **MSE 320** IE 230 MCS 155 Mechanical Behavior **MSE 401** MCS 156 **MSE 406** of Materials Introduction to Calculus for Design in Calculus for Science and Probability Engineering I **MSE 206 MSE 309** Materials Engineering II Engineering of and Statistics Engineering Materials Nanostructures Phase **MSE 318** Characterization I Diagrams Ceramic MSC 258 **CHEM 103 CHEM 104** Materials **MSE 409 MSE 432** Introduction to Chemistry I Chemistry II Phase Corrosion and Differential Transformations Degradation of Equations **ME 210** Materials Manufacturing **MSE 204 MSE 310 ME 113** Processes **MSE 102 ME 203** Thermodynamics Kinetics and Computer Materials Thermodynamics and Phase Microstructural Aided Science and Equilibria Engineering Evolution Engineering Drawing -Orientation **MSE 324 MSE 405** ELECT. 5 **ECE 281** Introduction to **MSE 307** Casting and Departmental **ME 203 ESR 101 CENG 198** Solidification Polymer Science Electrical Elective III Materials Statics and Technology Introduction to Ethics and Circuits and Characterization II Social Instrumentation Computer Responsibility Programming + Lab **TURK 102 TURK 101 HIST 201 HIST 202** ELECT. 1 ELECT. 2 ELECT. 3 ELECT. 6 Turkish II Princ. of Ataturk Social Sciences Social Sciences Turkish I Princ. of Ataturk Departmental Departmental and Hist. of Elective Elective Elective I Elective IV and Hist, of Turkish Revol. I Turkish Revol. II **ENG 121 ENG 122 ENG 221 ENG 222** ELECT. 4 ELECT. 7 Academic Academic Academic Academic Departmental Engineering English I English II Writing Skills Presentation Skills Flective II Elective I Special Prerequisites

MSE 200: MSE 201 MSE 300: MSE 200