Freshman Year

46 credits

Cultures or General Courses (8)	Introduction of Engineering Technology (2) Elective courses (6)
Fundamental Courses (30)	Calculus(8) Physics & Lab (8) Chemistry& Lab (8) Biology(3) Engineering Statics(3)
Language (8)	English(4) Chinese(4)

Sophomore Year

35 credits

	Advanced Structure & Smart Control	Sustainable Chemical & Materials Science Smart Technology
Engineering Profession Courses (23)	Engineering Dynamics (3) Fluid Mechanics (3) Material Mechanics (3) Structure Analysis (3) Automation Control (3) Fundamental Electronics (3) Engineering Graphics / /(BIM or AutoCAD)(3) Lab. (3D Printing or PBL-Learning) (2)	Physical Chemistry + Lab (7) Organic Chemistry + Lab (7) Unit Operation I & II (6) Polymer Chemistry (3)
Engineering Cores (12)	Engineering Math. I (3) Engineering Materials (3) Material Science (3) Computer Programming (3)	

Junior Year

26+ credits

	Advanced Structure & Smart Control	Sustainable Chemical & Materials Science Smart Technology
Engineering Profession Courses (13)	**Mechanical Engineering** Manufacturing (3) Thermodynamics (3) Mechanical Design (3) Mechanical design and practice(4) **Civil & Construction Engineering** Soil Mechanics and Lab. (4) Reinforced Concrete Design (3) Foundation Engineering (3) Engineering Management (3)	Polymer Chemistry (3) Instrumental Analysis (3) Thermodynamics(3) Kinetics(3) Lab in Materials and Fabrication (1)
Elective Courses (12)	Advanced Structure & Robot and Control & Smart Technology Advanced Chemical & Material Engineering & Nanofabrication Technology Biomolecular and Medical Engineering	

Junior Year

18+ credits

	Advanced Structure & Smart Control	Sustainable Chemical & Materials Science Smart Technology
Engineering Profession Courses (13)	Undergraduate Thesis (6) Engineering Project & Practical Training (6) Elective Courses (12)	