

Guaranteed Paid Internship Program in Summer List of Required Courses – to be completed before placement

Major	Required program courses
Biomedical	BME 310: Biological Systems Analysis BME 325: Biotransport BME 339: Biostatistics BME 332 or 430: Bioinstrumentation and Measurements I
Chemical Engineering	ChE 312: Transport Phenomena II ChE 313: Transport Phenomena III ChE 321: Chemical Reaction Engineering
Civil and Materials Engineering	CME 260: Properties of Materials CME 310: Design of Reinforced Concrete Structures CME 311: Water Resources Engineering
Computer Science	CS 341: Programming Language Design and Implementation CS 342: Software Design CS 361: Computer Systems CS 362: Computer Design
Computer Engineering	ECE 115: Introduction to Electrical and Computer Engineering ECE 225: Circuit Analysis: ECE 265: Introduction to Logic Design ECE 266: Introduction to Embedded Systems
Data Science	CS 251: Data Structures STAT 385: Elementary Statistical Techniques for Machine Learning & Big Data IDS: 312: Business Project Management Plus, one from the Concentration Bioinformatics: BioE 240 Computer Science: CS 377 Data Processing, Science & Engineering (ECE): ECE 310 Industrial Engineering: IE 345
Electrical Engineering	ECE 115: Introduction to Electrical and Computer Engineering ECE 225: Circuit Analysis Two among the following: ECE 265: Introduction to Logic Design ECE 266: Introduction to Embedded Systems ECE 310: Discrete and Continuous Signals and Systems ECE 322: Introduction to Electromagnetics and Applications ECE 340: Electronics I

Engineering Physics	<i>ECE 115: Introduction to Electrical and Computer Engineering</i> <i>ECE 225: Circuit Analysis</i>
Engineering Management	<i>IE 446: Quality Control and Reliability</i> <i>FIN 300: Introduction to Finance</i>
Industrial Engineering	IE 446: Quality Control and Reliability IE 472: Operations Research II
Mechanical Engineering	<i>ME 308: Mechanical Vibrations</i> <i>ME 320: Mechanisms and Dynamics of Machinery</i> <i>ME 321: Heat Transfer</i>

See https://admissions.uic.edu/undergraduate/transfer-intent-enroll Updated 1-10-24