



## Engineering Career Center

### Guaranteed Paid Internship Program - List of Required Courses – to be completed before placement

Major	Required program courses
Biomedical	BME 240: Modeling Physiological Data and Systems BME 250: Clinical Problems in Biomedical Engineering
Chemical Engineering	CHE 201: Introduction To Thermodynamics CHE 205: Computational Methods in Chemical Engineering CHEM 122: Matter and Energy CHEM 123: Foundations of Chemical Inquiry
Civil and Materials Engineering	CME 197: Intro to Civil Engineering CME 201: Statics <b>Plus, one of the following</b> CME 297: Civil & Environmental Drawing & Design or ME 250: Introduction to Engineering Design and Graphics
Computer Science CS+Design	CS 211: Programming Practicum CS 251: Data Structures
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 <b>Plus, one of the following</b> IDS 312: Business Project Management, or STAT 382: Statistical Methods and Computing
Electrical Engineering	ECE 115: Introduction to Electrical and Computer Engineering ECE 225: Circuit Analysis <b>Two among the following:</b> 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	ECE 115: Introduction to Electrical and Computer Engineering ECE 225: Circuit Analysis
Engineering Management	IE 446: Quality Control and Reliability FIN 300: Introduction to Finance
Environmental Engineering	CME 197: Intro to Civil Engineering CME 297: Civil & Environmental Drawing & Design CME 211: Fluid Mechanics & Hydraulics
Industrial Engineering	IE 446: Quality Control and Reliability IE 472: Operations Research II
Mechanical Engineering	ME 211: Fluid Mechanics I ME 320: Mechanisms and Dynamics of Machinery ME 347: Engineering Design and Graphics with Computer-Aided Design and Simulation

See <https://admissions.uic.edu/undergraduate/transfer-intent-enroll>

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