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

<table>
<thead>
<tr>
<th>Major</th>
<th>Required program courses</th>
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| Biomedical                    | *BioE 310: Biological Systems Analysis*  
|                               | *BioE 325: Biotransport*  
|                               | *BioE 339: Biostatistics*  
|                               | *BioE 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 | 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  
| Industrial Engineering | IE 446: Quality Control and Reliability  
| | IE 472: Operations Research II  
| Mechanical Engineering | ME 308: Mechanical Vibrations  
| | ME 320: Mechanisms and Dynamics of Machinery  
| | ME 321: Heat Transfer  

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