B.S. in Concrete Industry Management

The Concrete Industry Management (CIM) program is designed to train and educate the student in the field of concrete industry by exposing the student to a multidisciplinary program which draws on management and technology to produce a well-rounded graduate who is able to enter a career in the concrete industry. The four-year Bachelor of Science degree program focuses on science, technology, management and production as well as the mandatory university courses in English, history and the humanities. The concrete industry is a $931 billion dollar industry which is eager to employ graduates, who are educated and trained, to manage, develop and own concrete industry businesses.

The objective of this program is to produce graduates grounded in the basics of concrete’s production techniques and its use in a multitude of construction applications. In addition, graduates acquire a minor in business administration.

The full four-year curriculum for the program is shown below. Students who wish to enter the program as a transfer student are typically students with an A.A.S. degree in Civil or Construction Engineering Technology and should have completed most or all of the courses, or their equivalents, in the first two years of the program as shown below. Students in other majors, such as Business, may have taken many of the required courses. In the case of all students, both four-year and transfer, a minimum of 120 credits is required for graduation.

(120 credits minimum)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 138</td>
<td>General Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 102</td>
<td>General Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 102A</td>
<td>General Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CS 106</td>
<td>Roadmap to Computing Engineers</td>
<td>3</td>
</tr>
<tr>
<td>HUM 101</td>
<td>English Composition: Writing, Speaking, Thinking I</td>
<td>3</td>
</tr>
<tr>
<td>MET 103</td>
<td>Engineering Graphics and Intro. to CAD</td>
<td>2</td>
</tr>
<tr>
<td>FRSH SEM</td>
<td>Freshman Seminar</td>
<td>0</td>
</tr>
<tr>
<td><strong>Term Credits</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>2nd Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 117</td>
<td>Survey of Accounting</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 301</td>
<td>Chemical Technology</td>
<td>3</td>
</tr>
<tr>
<td>HUM 102</td>
<td>English Composition: Writing, Speaking, Thinking II</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 290</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>CIMT 101</td>
<td>Introduction to Concrete</td>
<td>3</td>
</tr>
<tr>
<td><strong>Term Credits</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>2nd Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MIS 245</td>
<td>Introduction to Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>Technical Elective</td>
<td></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>ENG 352</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 305</td>
<td>Statistics for Technology</td>
<td>3</td>
</tr>
<tr>
<td>CIMT 305</td>
<td>Concrete Applications II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Term Credits</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Second Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 215</td>
<td>Managerial Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>CIMT 205</td>
<td>Concrete Properties and Testing</td>
<td>3</td>
</tr>
<tr>
<td>CIMT 210</td>
<td>Concrete Applications I</td>
<td>3</td>
</tr>
<tr>
<td>History and Humanities GER 200 level (<a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level">http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level</a>)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Technical Elective</td>
<td></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td><strong>Term Credits</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>2nd Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CET 313</td>
<td>Construction Procedures I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CET 313</td>
<td>Construction Procedures I</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>MGMT 390</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>CIMT 310</td>
<td>Concrete Products and Delivery</td>
<td>3</td>
</tr>
<tr>
<td>FIN 315</td>
<td>Fundamentals of Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>CET 323</td>
<td>Construction Safety</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Term Credits</td>
<td>15</td>
</tr>
<tr>
<td>2nd Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CET 314</td>
<td>Construction Procedures II</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 330</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>CIMT 315</td>
<td>Concrete Construction Methods</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>History and Humanities GER 300+ level (<a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level">link</a>)</td>
<td>3</td>
</tr>
<tr>
<td>MNET 420</td>
<td>Quality Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Term Credits</td>
<td>15</td>
</tr>
<tr>
<td>3rd Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CET 411</td>
<td>Cost Estimating</td>
<td>3</td>
</tr>
<tr>
<td>CET 415</td>
<td>Construction Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CIMT 405</td>
<td>Advanced Concrete Testing and Quality Assurance</td>
<td>3</td>
</tr>
<tr>
<td>CIMT 497</td>
<td>Co-op Work Experience I</td>
<td>3</td>
</tr>
<tr>
<td>Technical Elective (300-400 level)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Term Credits</td>
<td>15</td>
</tr>
<tr>
<td>2nd Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIMT 405</td>
<td>Senior Project in CIM</td>
<td>3</td>
</tr>
<tr>
<td>Technical Elective (300-400 level)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Term Credits</td>
<td>15</td>
</tr>
<tr>
<td>3rd Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities and Social Science Senior Seminar GER (<a href="http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/hss-capstone">link</a>)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CET 413</td>
<td>Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>MNET 414</td>
<td>Industrial Cost Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CIMT 410</td>
<td>Senior Project in CIM</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Technical Elective(300-400 level)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Term Credits</td>
<td>15</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>

**Free Electives**

Consult the program coordinator. Students transferring into this program with fewer than 9 credits in humanities/social science must take an appropriate humanities/social science course to fulfill the NJIT GER.

**Co-op**

Co-op is a required course in this program, and must be approved by the faculty advisor and Career Services.

This curriculum represents the maximum number of credits per semester for which a student is advised to register. A full-time credit load is 12 credits. First-year students are placed in a curriculum that positions them for success which may result in additional time needed to complete curriculum requirements. Continuing students should consult with their academic advisor to determine the appropriate credit load.