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 126 credits is required for graduation.

### First Year

**1st Semester**
- **MATH 138** General Calculus I  
  Term Credits: 3
- **PHYS 102** General Physics  
  Term Credits: 3
- **PHYS 102A** General Physics Laboratory  
  Term Credits: 1
- **CS 106** Roadmap to Computing Engineers  
  Term Credits: 3
- **HUM 101** English Composition: Writing, Speaking, Thinking I  
  Term Credits: 3
- **MET 103** Engineering Graphics and Intro. to CAD  
  Term Credits: 2
- **FRSH SEM** Freshman Seminar  
  Term Credits: 0

**Second Semester**
- **ACCT 117** Survey of Accounting  
  Term Credits: 3
- **Technical Elective (100-200 level)**  
  Term Credits: 3
- **HUM 102** English Composition: Writing, Speaking, Thinking II  
  Term Credits: 3
- **EPS 202** Society, Technology, and the Environment  
  Term Credits: 3
- **CIMT 101** Introduction to Concrete  
  Term Credits: 3
- **Physical Education**  
  Term Credits: 1

**Term Credits**: 15

### Second Year

**1st Semester**
- **ACCT 215** Managerial Accounting I  
  Term Credits: 3
- **MGMT 290** Business Law I  
  Term Credits: 3
- **CIMT 205** Concrete Properties and Testing  
  Term Credits: 3
- **ECON 201** Economics  
  Term Credits: 3
- **MIS 245** Introduction to Management Information Systems  
  Term Credits: 3
- **Physical Education**  
  Term Credits: 1

**Term Credits**: 16

**2nd Semester**
- **CHEM 301** Chemical Technology  
  Term Credits: 3
- **Technical Elective (100-200 level)**  
  Term Credits: 3
- **CIMT 210** Concrete Applications I  
  Term Credits: 3
- **MATH 305** Statistics for Technology  
  Term Credits: 3
- **Select one of the following:**
  - **HUM 211** The Pre-Modern World
  - **HUM 212** The Modern World
  - **HIST 213** The Twentieth-Century World

**Term Credits**: 15

### Third Year

The curriculum for the third year is not detailed in the provided text.
1st Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MNET 420</td>
<td>Quality Systems</td>
<td>3</td>
</tr>
<tr>
<td>CET 313</td>
<td>Construction Procedures I</td>
<td>3</td>
</tr>
<tr>
<td>CIMT 305</td>
<td>Concrete Applications II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 352</td>
<td>Technical Writing</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>
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</table>

Term Credits 18

2nd Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<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 310</td>
<td>Concrete Products and Delivery</td>
<td>3</td>
</tr>
<tr>
<td>Humanities and Social Sciences (upper-level): GUR Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Technical Elective (300-400 level)</td>
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<td></td>
</tr>
<tr>
<td>MGMT 390</td>
<td>Principles of Management</td>
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</table>

Term Credits 18

Fourth Year

1st Semester

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<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>
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</table>

Term Credits 15

2nd Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Capstone Seminar Humanities and Social Sciences (upper-level) GUR</td>
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<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>
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<tr>
<td>CIMT 410</td>
<td>Senior Project in CIM</td>
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</tr>
<tr>
<td>CIMT 315</td>
<td>Concrete Construction Methods</td>
<td>3</td>
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</tbody>
</table>

Term Credits 15

Total Credits 128

Electives

Open Elective in Humanities and Social Sciences (upper-level) GUR

Select one of the following 300-level courses:

- ENG 3XX English course
- HIST 3XX History course
- LIT 3XX Literature course
- PHIL 3XX Philosophy course
- STS 3XX Science, Technology, and Society course
- SS 3XX Social Science course
- THTR 3XX Theater course
- ARCH 382 History of Architecture IV
- RUTG 3XX Approved 300-level course at Rutgers-Newark

Humanities and Social Sciences (upper-level) GUR

Select one of the following 300-level courses:

- LIT 3XX Literature course
- HIST 3XX History course
- PHIL 3XX Philosophy course
- STS 3XX Science, Technology, and Society course
- RUTG 3XX 300-level course at Rutgers-Newark approved by the Humanities department
Capstone Seminar in Humanities and Social Sciences (upper-level) GUR

Take one of the following. Honors College students take honors section:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSS 403</td>
<td>Humanities Senior Seminar - Literature</td>
</tr>
<tr>
<td>HSS 404</td>
<td>Humanities Senior Seminar - History</td>
</tr>
<tr>
<td>HSS 405</td>
<td>Humanities Senior Seminar - Philosophy</td>
</tr>
<tr>
<td>HSS 406</td>
<td>Humanities Senior Seminar - English</td>
</tr>
<tr>
<td>HSS 407</td>
<td>Humanities Senior Seminar - Theater</td>
</tr>
<tr>
<td>HSS 408</td>
<td>Humanities Senior Seminar - Science, Technology, and Society</td>
</tr>
<tr>
<td>HSS 409</td>
<td>Humanities Senior Seminar - Social Science</td>
</tr>
</tbody>
</table>

1 The department recommends telecommunications management technology option majors take ENG 352 Technical Writing to fulfill this requirement.

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 GUR.

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.