Bachelor of Architecture and M.B.A. in Management of Technology

The New Jersey School of Architecture and the School of Management have established a dual degree program that permits students to obtain a Bachelor of Architecture degree with a Master of Business Administration (M.B.A.) in Management of Technology.

There is no reduction in the degree requirements for the professional degree in architecture. The dual degree program permits students to obtain an M.B.A. in Management of Technology in substantially less time, in some cases with only one additional year of study. Up to 12 credits of graduate-level coursework may be applied to both the B.Arch. and M.B.A.

Students may take additional courses at the graduate level during their undergraduate career, but these courses do not count toward the undergraduate degree requirements and students are charged at the graduate course rate.

Eligible students should contact the Office of Graduate Studies in their junior or third year regarding the process for admission to the dual degree program. The Office of Graduate Studies will coordinate the process with the undergraduate program director in the New Jersey School of Architecture and later with the graduate advisor and the Office of Graduate Admissions as the student nears completion of the undergraduate degree. In order to be eligible for initial and continued participation in the dual degree program, the student must maintain a 3.0 cumulative GPA and take the GMAT during the senior or final undergraduate year. A GMAT score of 550 is required for admission to graduate study in the School of Management.

The M.B.A. in Management of Technology is a 60-credit program. However, 12 credits in management background courses are waived for architecture graduates. Therefore, in addition to completion of the architecture program requirements, the M.B.A. comprises 48 credits. Note: This program was under revision at press time. Students should contact their advisor, for the current curriculum.

B.Arch. Requirements

<table>
<thead>
<tr>
<th>First Year</th>
<th>Term Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1st Semester</strong></td>
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</tr>
<tr>
<td>ARCH 161 Intro Design and Digital Media</td>
<td>6</td>
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<tr>
<td>HUM 101 English Composition: Writing, Speaking, Thinking</td>
<td>3</td>
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<tr>
<td>MATH 113 Finite Mathematics and Calculus I</td>
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<tr>
<td>Physical Education</td>
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<td>FRSH SEM Freshman Seminar</td>
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<td><strong>Term Credits</strong></td>
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<tr>
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<tr>
<td>ARCH 156 Modes of Design Communication II</td>
<td>3</td>
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<tr>
<td>ARCH 164 Introduction to Design II</td>
<td>5</td>
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<tr>
<td>HUM 102 English Composition: Writing, Speaking, Thinking</td>
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<tr>
<td>MATH 105 Elementary Probability and Statistics</td>
<td>3</td>
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<td><strong>Term Credits</strong></td>
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<p>| Second Year                                     |              |
| <strong>1st Semester</strong>                                |              |
| ARCH 223 Construction I                         | 3            |
| ARCH 251 History of Architecture I              | 3            |
| ARCH 263 Architecture Studio I                   | 5            |
| PHYS 102 General Physics                        | 3            |
| PHYS 102A General Physics Laboratory            | 1            |
| Cultural History (lower-level) GUR Elective     | 3            |
| <strong>Term Credits</strong>                                | 18           |
| <strong>2nd Semester</strong>                                |              |
| ARCH 227 Environmental Control Systems I        | 3            |
| ARCH 229 Structures I                           | 3            |
| ARCH 252 History of Architecture II             | 3            |
| ARCH 264 Architecture Studio II                  | 5            |
| PHYS 103 General Physics                        | 3            |</p>
<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHYS 103A</td>
<td>General Physics Laboratory</td>
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**Third Year**

**1st Semester**

<table>
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<tbody>
<tr>
<td>ARCH 327</td>
<td>Environmental Control Systems II</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 329</td>
<td>Structures II</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 363</td>
<td>Architecture Studio III</td>
<td>5</td>
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<tr>
<td>ARCH 381</td>
<td>History of Architecture III</td>
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**Term Credits**

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<thead>
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<tbody>
<tr>
<td>Social Science (lower-level) GUR Elective</td>
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**2nd Semester**

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<tbody>
<tr>
<td>ARCH 323</td>
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<td>3</td>
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<tr>
<td>ARCH 364</td>
<td>Architecture Studio IV</td>
<td>5</td>
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<tr>
<td>ARCH 382</td>
<td>History of Architecture IV</td>
<td>3</td>
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<tr>
<td>CS 104</td>
<td>Computer Programming and Graphics Problems</td>
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**Term Credits**

<table>
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**Fourth Year**

**1st Semester**

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<tbody>
<tr>
<td>ARCH 423</td>
<td>Construction III</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 429</td>
<td>Structures III</td>
<td>3</td>
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<tr>
<td>ARCH 463</td>
<td>Option Studio 1</td>
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<tr>
<td>Design Elective</td>
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<tr>
<td>Open GUR Elective</td>
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**Term Credits**

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<td>Design Elective</td>
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<td>Design Elective</td>
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<tr>
<td>HSS 4XX Capstone</td>
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**2nd Semester**

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<tbody>
<tr>
<td>ARCH 464</td>
<td>Option Studio II</td>
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<tr>
<td>ARCH 472</td>
<td>Architectural Programming and Project Development</td>
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<tr>
<td>Design Elective</td>
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</tr>
<tr>
<td>MGMT 390</td>
<td>Principles of Management</td>
<td>3</td>
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<td>LIT/HIST/PHIL/STS</td>
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**Term Credits**

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<tr>
<th>Subject Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Design Elective</td>
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<tr>
<td>Free Elective</td>
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**Fifth Year**

**1st Semester**

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<tr>
<td>ARCH 563</td>
<td>Comprehensive Studio I</td>
<td>5</td>
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<tr>
<td>ARCH 558</td>
<td>Professional Architectural Practice</td>
<td>3</td>
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<tr>
<td>Design Elective</td>
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<td>3</td>
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<tr>
<td>Design Elective</td>
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<tr>
<td>HSS 4XX Capstone</td>
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**Term Credits**

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<th>Course Title</th>
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<td>Free Elective</td>
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**2nd Semester**

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<tr>
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<tbody>
<tr>
<td>ARCH 561</td>
<td>Integrated Studio Seminar</td>
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<tr>
<td>ARCH 564</td>
<td>Comprehensive Studio II</td>
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<tr>
<td>Design Elective</td>
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**Term Credits**

<table>
<thead>
<tr>
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<th>Credits</th>
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<tbody>
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<td>Design Elective</td>
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**Total Credits**

<table>
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<th>Credits</th>
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<tbody>
<tr>
<td></td>
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1. ARCH 251 History of Architecture I satisfies 3 credits of the English Composition and Cultural History GUR for B.Arch. majors; ARCH 382 History of Architecture IV satisfies the Open Elective in Humanities and Social Sciences GUR for B.Arch. majors.
2. To be taken concurrently with comprehensive studio.
ARCH 565 Comprehensive Studio Lab must be taken concurrently with upper level studio ARCH 563 Comprehensive Studio I or ARCH 564 Comprehensive Studio II.

### Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Social Sciences (lower-level GUR)</strong></td>
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<tr>
<td>Select six credits from the following:</td>
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<tr>
<td>ECON 265</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>or R220 101</td>
<td>Intro To Econo-Micro</td>
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<tr>
<td>ECON 266</td>
<td>Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>or R220 102</td>
<td>Intro To Econ-Macro</td>
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<tr>
<td>EPS 202</td>
<td>Society, Technology, and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>STS 258</td>
<td>Technology, Society and Culture: A Global View</td>
<td>3</td>
</tr>
<tr>
<td>R070 203</td>
<td>Intro Phys Anth &amp; Arch</td>
<td>3</td>
</tr>
<tr>
<td>or R070 204</td>
<td>Intro Cultural Anthro</td>
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<tr>
<td>R790 201</td>
<td>American Government</td>
<td>3</td>
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<tr>
<td>or R790 202</td>
<td>America &amp; The World</td>
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<tr>
<td>R830 101</td>
<td>Principles Of Psychology I</td>
<td>3</td>
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<tr>
<td>or R830 102</td>
<td>Prin Of Psychology</td>
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<tr>
<td>R920 201</td>
<td>Intro Sociology I</td>
<td>3</td>
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<tr>
<td>or R920 202</td>
<td>Sociology II</td>
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<tr>
<td>R202 201</td>
<td>Intro Criminal Justice</td>
<td>3</td>
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<tr>
<td><strong>English Composition and Cultural History (lower-level) GUR</strong></td>
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<tr>
<td>HUM 211</td>
<td>The Pre-Modern World</td>
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<tr>
<td>HUM 212</td>
<td>The Modern World</td>
<td></td>
</tr>
<tr>
<td>HIST 213</td>
<td>The Twentieth-Century World</td>
<td></td>
</tr>
<tr>
<td><strong>Humanities and Social Sciences Electives (upper-level) GUR</strong></td>
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<td>3</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>LIT 3XX</td>
<td>Literature course</td>
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<tr>
<td>HIST 3XX</td>
<td>History course</td>
<td></td>
</tr>
<tr>
<td>PHIL 3XX</td>
<td>Philosophy course</td>
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<tr>
<td>R350 XXX</td>
<td>English Literature (STS approved) course</td>
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<tr>
<td>R352 XXX</td>
<td>American Literature (STS approved) course</td>
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<tr>
<td>R510 XXX</td>
<td>History (STS approved) course</td>
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<tr>
<td>R512 XXX</td>
<td>American History (STS approved) course</td>
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<tr>
<td>R730 XXX</td>
<td>Philosophy (STS approved) course</td>
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<tr>
<td><strong>Natural Sciences GUR</strong></td>
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<tr>
<td>Select at least seven credits, including a laboratory experience, from the following:</td>
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<tr>
<td><strong>Biology Courses</strong></td>
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<tr>
<td>R120 101</td>
<td>General Biology</td>
<td></td>
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<tr>
<td>R120 102</td>
<td>General Biology</td>
<td></td>
</tr>
<tr>
<td>R120 109</td>
<td>Basic Plant Science</td>
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<tr>
<td>R120 110</td>
<td>Basic Plant Sci Lab</td>
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<tr>
<td>R120 205</td>
<td>Environmental Issues</td>
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<tr>
<td>R120 206</td>
<td>General Horticulture</td>
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<tr>
<td>R120 207</td>
<td>Horticulture Lab</td>
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<tr>
<td>R120 208</td>
<td>Human Sexuality</td>
<td></td>
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<tr>
<td>R120 237</td>
<td>Environmental Microbiology</td>
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<tr>
<td>R120 241</td>
<td>Anatomy &amp; Physiology</td>
<td></td>
</tr>
<tr>
<td>R120 242</td>
<td>Anatomy &amp; Physiology</td>
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<tr>
<td><strong>Chemistry Courses</strong></td>
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<tr>
<td>CHEM 122</td>
<td>Fundamentals of Chemical Principles II</td>
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</table>
CHEM 124  General Chemistry Laboratory  
CHEM 125  General Chemistry I  
CHEM 126  General Chemistry II  

**Physics Courses**  
PHYS 102  General Physics  
PHYS 102A  General Physics Laboratory  
PHYS 103  General Physics  
PHYS 103A  General Physics Laboratory  
PHYS 111  Physics I  
PHYS 111A  Physics I Laboratory  
PHYS 121  Physics II  
PHYS 121A  Physics II Laboratory  
PHYS 202  Introductory Astronomy and Cosmology  
PHYS 202A  Astronomy and Cosmology Laboratory  
PHYS 203  The Earth in Space  
PHYS 203A  The Earth in Space Laboratory  

**Geology Courses**  
R460 101  Intro To The Earth  
R460 103  Planet Earth  
R460 104  Planet Earth Lab  
R460 206  Env Geology  
R460 207  Env Geology Lab  

**Open Elective in Humanities and Social Sciences (upper-level)**  
Select one of the following:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Year</th>
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<tbody>
<tr>
<td>ENG 3XX</td>
<td>English course</td>
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<tr>
<td>HSS 3XX</td>
<td>Social Sciences course</td>
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</tr>
<tr>
<td>THTR 3XX</td>
<td>Theater course</td>
<td>3</td>
</tr>
<tr>
<td>LIT 3XX</td>
<td>Literature course</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3XX</td>
<td>History course</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3XX</td>
<td>Philosophy course</td>
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</tr>
<tr>
<td>STS 3XX</td>
<td>Science, Technology and Society course</td>
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Any 300-level Rutgers-Newark courses in humanities, social sciences, fine arts, or performing arts  

1  Students may also take approved introductory courses at Rutgers-Newark.  

**M.B.A. in Management of Technology Requirements**  

**Architectural Management Requirements**  
ARCH 650  Economy of Building  
ARCH 651  Real Estate Analysis for Architects  
ARCH 652  Architectural Project Management  

**Technology Module - Core Courses**  
FIN 516  Principles of Financial Management  
MGMT 620  Management of Technology  
MGMT 625  Distribution Logistics  
MGMT 630  Decision Analysis  
MGMT 635  Data Mining and Analysis  
or MATH 661  Applied Statistics  
MIS 620  E-Commerce Technologies  
MIS 645  Information Systems Principles  

**Essential Business Processes - Core Courses**  
ACCT 615  Management Accounting
<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FIN 600</td>
<td>Corporate Finance I</td>
<td>3</td>
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<tr>
<td>FIN 618</td>
<td>Public and Private Financing of Urban Areas</td>
<td>3</td>
</tr>
<tr>
<td>HRM 601</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MRKT 620</td>
<td>Competing in Global Markets</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 680</td>
<td>Entrepreneurial Strategy</td>
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<tr>
<td>or MGMT 692</td>
<td>Strategic Management</td>
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**Total Credits** 48

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1. Nine required credits taken in the New Jersey School of Architecture constitute an area of concentration in architectural management and count toward both the B.Arch. and the M.B.A.