

Bachelor of Architecture and M.U.D.

The New Jersey School of Architecture has established a dual degree program within the school that permits students to obtain a B.Arch. with a Master in Infrastructure Planning (M.I.P.). There is no reduction in the degree requirements for the professional degree in architecture. The dual degree program permits students to obtain an M.I.P. in substantially less time.

Up to 12 credits of graduate-level coursework may be applied to both the B.Arch. and M.I.P. 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 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 GRE during the senior or final undergraduate year.

B.Arch. Requirements

First Year

1st Semester		Credits
ARCH 195	Architecture Studio I	4
ARCH 110	Tools and Techniques I: Introduction to Architecture Thinking	3
ENGL 101	English Composition: Introduction to Academic Writing	3
CS 104	Computer Programming and Graphics Problems	3
MATH 107	University Mathematics A ⁱⁱ	3
FYS SEM	First-Year Student Seminar	0
Term Credits		16

2nd Semester

ARCH 196	Architecture Studio II	4
ARCH 156	Tools and Techniques II: Introduction to Architecture Making	3
ENGL 102	English Composition: Introduction to Writing for Research	3
MATH 105	Elementary Probability and Statistics ⁱⁱ	3
Social Sciences GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/social-science-ger/)		3
Term Credits		16

Second Year

1st Semester

ARCH 295	Architecture Studio III	4
ARCH 210	History of Architecture I	3
ARCH 223	Construction I	3
PHYS 102	General Physics I	3
PHYS 102A	General Physics I Lab	1
Term Credits		14

2nd Semester

ARCH 296	Architecture Studio IV	4
ARCH 211	History of Architecture II	3
ARCH 224	Construction II	3
Natural Science GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/natural-science-ger/)		3
History and Humanities GER 200 level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-200-level/)		3
Term Credits		16

Third Year

1st Semester

ARCH 395	Architecture Studio V	4
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ARCH 303	Structures I	3
ARCH 309	Environmental Control Systems I	3
ARCH 324	Landscape and Urbanism	3
History and Humanities GER 300+ level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/)		3
Term Credits		16
2nd Semester		
ARCH 396	Architecture Studio VI	4
ARCH 304	Structures II	3
ARCH 314	Environmental Control Systems II	3
ARCH Elective ⁱⁱⁱ		3
History and Humanities GER 300+ level (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/ger-300-level/)		3
Term Credits		16
Fourth Year		
1st Semester		
ARCH 495	Advanced Architecture Studio I	5
ARCH 472	Professional Practice I	3
ARCH Elective (Technology)		3
Humanities and Social Science Senior Seminar GER (http://catalog.njit.edu/undergraduate/academic-policies-procedures/general-education-requirements/hss-capstone/)		3
Term Credits		14
2nd Semester		
ARCH 463	Options Studio I	5
ARCH 475	Professional Practice II	3
ARCH Elective (Technology)		3
ARCH Elective ⁱⁱⁱ		3
Term Credits		14
Fifth Year		
1st Semester		
ARCH 595	Advanced Architecture Studio II	5
ARCH 561	Synthesis Seminar	3
ARCH Elective (History/Theory)		3
ARCH Elective ⁱⁱⁱ		3
Term Credits		14
2nd Semester		
ARCH 464 or ARCH 566	Option Studio II or Advanced Architectural Design Studio	5
ARCH Elective (History/Theory)		3
ARCH Elective ⁱⁱⁱ		3
ARCH Elective ⁱⁱⁱ		3
Term Credits		14
Total Credits		150

- i Students must maintain continuous enrollment in the HUM101/HUM102 sequence every Fall and Spring semester until successful completion.
- ii Students must maintain continuous enrollment in the Math sequence every Fall and Spring semester until successful completion.
- iii Courses listed under ARCH Elective (Technology) and ARCH Elective (History/Theory) can be counted as ARCH Electives.

ARCH Electives (Technology)

Code	Title	Credits
ARCH 301	Digital Modeling and Fabrication	3
ARCH 316	Structural Computer Applications BIM	3

ARCH 337	Building Information Modeling	3
ARCH 361	Adaptive Paradigms in Architecture	3
ARCH 423	Advanced Construction	3
ARCH 429	Advanced Structures	3
ARCH 461	Resilient Structural Design and Construction	3
ARCH 483	ST:	3
ARCH 537	Cable and Tension Structures	3
ARCH 538	Sustainable Architecture	3
ARCH 541	Material Systems in Design	3
ARCH 543	Lighting	3
ARCH 545	Case Studies in Architectural Technology	3
ARCH 546	Designing and Optimizing the Building Enclosure	3

ARCH Electives (History/Theory)

Code	Title	Credits
ARCH 331	Formal Principles of Landscape Design Traditions Across the Globe	3
ARCH 332	Architecture: Image and Word I	3
ARCH 333	Architecture: Image and Word II	3
ARCH 335	Digital Tectonics	3
ARCH 408	Investigations in the Contemporary Landscape	3
ARCH 530	Methods of Architectural Research	3
ARCH 531	History of Modern Architecture	3
ARCH 533	History of American Architecture	3
ARCH 534	Aspects of Urban + Suburban Form	3
ARCH 535	History of Architectural Ideas	3
ARCH 536	Landscape and American Culture	3
ARCH 557	Problems in Modern Housing	3
ARCH 559	Social Issues in Housing	3
ARCH 571	Sustainable City	3
ARCH 572	Mapping Urbanism	3
ARCH 574	Case Studies in Community and Urban Design	3
ARCH 576	Architecture of Utopia	3
ARCH 583	ST:	3
INT 350	History of Furniture	3

ARCH Electives

Code	Title	Credits
ARCH 283	Special Topics	3
ARCH 317	Advanced Architectural Graphics	3
ARCH 432	P3 Post Presentation Processing	3
AD 150	Color and Composition	3
AD 325	Entrepreneurship for Designers	3
AD 340	Photography and Imaging	3
DD 320	Robotics for Architects and Designers	3
DD 321	Interactive and Reactive Environments	3
DD 334	Simulated Environments	3
DD 449	Imaginary Worlds: Architecture in Motion Pictures	3
ID 340	Materials and Processes	3
ID 341	Sustainable Materials and Processes	3
ID 370	New Product Testing	3
INT 351	Furniture Design	3

M.U.D. Requirements

Required Courses

The following courses are required, subject to those waived in individual cases; however, no waivers will be given for studio courses. A typical full-time study plan over two semesters is shown below.

First Year

	Credits
1st Semester	
ARCH 601 Urban Design Studio	6
ARCH 636 History and Theory of Urban Planning and Design	3
ARCH 677 Geographic Information Systems	3
Urban Design Elective	3
Term Credits	15
2nd Semester	
ARCH 602 Urban Design Studio	6
ARCH 684 Topics of Sustainable Urbanism	3
ARCH 651 Public and Private Development	3
Urban Design Elective	3
Term Credits	15
Total Credits	30

¹ Or substitute selected with the approval of Graduate Advisor.