

Summer 2020 Course List

Course Code	Credits	CRN	Part of Term	Course Name	Instructor	Day 1	Day 2	Lecture Start	Lecture Finish	Lab Start	Lab Finish	Course Description
AR231	3	1142	1st 5	Environmental Systems I	Daniela Deutsch	T	R	2:00PM	4:50PM			This course examines principles and practices of sustainable design through the introduction and application of natural systems within the framework of context and program.
AR232	3	1143	2nd 5	Environmental Systems II	Daniela Deutsch	T	R	2:00PM	4:50PM			The course introduces the building envelope seen as a direct mediator between human comfort and environmental factors by focusing on passive design principles for environmental systems.
AR271	3	1144	10WKS	Building Systems I	Dan Manlongat	M	W	1:00PM	1:50PM	2:00PM	2:50PM	The course provides a fundamental understanding of traditional construction materials and building systems, including their production and installation methods, while examining both environmental impact and performance characteristics.
AR5411	3	1145	10WKS	Visual Studies I: Visual Literacy	Miti Aiello	F		2:00PM	3:50PM	4:00PM	5:50PM	Students will practice fundamental approaches toward freehand design drawing, learning the historical and social uses thereof, as well as techniques for unique project ideation. The coursework establishes a rational basis in which to derive meaning from environments via seeing, representing, and imagining various possible built outcomes.
AR5441	3	1158	2nd 5	Advanced Presentation	Alan Rosenblum	M	W	3:30PM	6:20PM			This course is an introduction to the application of graphic representation in the design process, from ideation to rendering. The emphasis is on the generation of personal points of view (POVs) for the representation of information, space and form. The course presents 2D and 3D representation techniques including photo-composition, abstraction, mapping and diagramming, as well as the application of perspective and projection techniques to spatial visualization, for the advancement of the creative process.
AR551	3	1132	2nd 5	Management and Finance	Jorge Ozorno	T	R	9:00AM	11:50AM			This course investigates the process of development, from the design documentation stage of construction through tenant occupancy, with an understanding of pro forma, funding, and project costing.
AR595C5	3	1063	1st 5	GIS Mapping Technologies (Graduate Students Only)	Trevor Stine	M	W	9:00AM	11:50AM			Architects and construction managers with GIS (Geographic Information Systems) abilities have a valuable professional spatial analysis tool and higher understanding of the "the big picture". Combining spatial data and scientific formulas enable powerful visualization and understanding for site selection and analysis. This class will provide a solid understanding of GIS theory and application through the use of a free online Open Source GIS software platform.

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AR704	6	1131	10WKS	Design Studio	Blas Herrera	M	W	3:00PM	3:50PM	4:00PM	7:50PM	<p>This studio, the fourth and final part of the first-year sequence, directs its focus and inquiries toward the city, utilizing the design of urban housing as a programmatic vehicle and methodological backbone. Exercises focus on the study of the formant forces of architecture in relationship to architecture and to the larger context of the urban realm and its infrastructure, materialized through techniques that use emergent form generation, field conditions, and system analysis. A compressed level of programmatic complexity is followed, combined with a continuous dialogue between conceptual abstractions, representational techniques, and reality-based analysis. Representational techniques are advanced by the further introduction of hybrid manual/digital tools used as the basis of an analytical process for the generation of form and relationships. A collaborative design process is introduced, complementing previous processes of individual vision toward a design method based on participation, interaction, and negotiation.</p>
AR727	3	1148	10WKS	Structures III	Mitra Kanaani	T	R	4:00PM	5:20PM			<p>The course builds upon Structures II (AR726) by introducing students to the diagrams, formulas, and calculations associated with lateral-load structural systems. It emphasizes wind-load considerations and explores the principles and primary design criteria for long-span and form-resistive systems. The course includes material relating to the use of formulas in building codes, handbooks, and design tables as they relate to long-span design.</p>
AR763	3	1149	2nd 5	Architectural History III	Miti Aiello	T	R	1:00PM	3:50PM			<p>This course is a survey of major movements, styles, and trends that occurred from the 18th through the 20th centuries, including American architecture and various Western and non-Western styles.</p>
CDES110	3	1157	10WKS	Design Thinking	TBD	Asynchronous						<p>In this course, students examine design thinking methodologies, processes and tools, they explore design thinking theories, and how they can be applied to practical situations relevant to various academic disciplines and organizational roles. Among the topics covered are ideation, prototyping, iteration, and innovation. Students will also examine how they can harness the power of design thinking to create value for businesses, organizations, and society.</p>
CM153	3	1150	10WKS	Introduction to Construction Management	Dennis Selke	M	W	5:00PM	6:20PM			<p>This course is an introduction to the construction industry, the various types of construction, and the roles of the different professions involved. A brief description of the construction process is also provided. Students analyze the characteristics of an effective team model, review the role of a construction manager in the building team, and study the various career paths available to the construction management graduate.</p>

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CM201	5	1066	10WKS	Construction Graphic and Documents	Steve Clayton	T	R	1:00PM	2:50PM	3:00PM	3:50PM	This course covers basic skills and techniques required to produce construction contract documents that conform to current building codes and standards, including working drawings, specifications, bid documents, addenda, and change orders.
CM202	5	1067	10WKS	Construction - Estimating	Momo Savovic	S		9:00AM	2:50PM			This course is an introduction to the basic concepts of construction management. Areas of focus include quantity analysis, productivity, work-activity sequencing, elementary bar chart and network scheduling, and simple computer applications specific to construction management.
CM306	5	1069	10WKS	Fundamentals of Construction Scheduling	Ron Sutliff	T		4:00PM	6:50PM			Various methods of calculating the construction schedule will be addressed and implications of scheduling changes will be considered. Students will have some exposure to the critical path method using manual and computer-aided models.
CM352	4	1035	10WKS	Construction Finance & Accounting	Momo Savovic	M	W	6:30PM	8:20PM			In this course, the student will study general business, accounting, and financial principles, as well as engineering economics, and how to adapt them to the unique characteristics of the construction industry. The course covers all of the key financial management principles needed by construction managers, addressing how they are applied in the construction industry and how they interact. Students learn how to account for the company's financial resources, how to manage the costs and profits of a construction company, how to manage the company's cash flows, how to evaluate different sources of funding a company's cash needs, and how to quantitatively analyze financial decisions.
CM595C	3	1106	2nd 5	Applications of Transdisciplinary Design in Construction	Steve Matley	M	W	4:00PM	5:50PM	6:00pm	7:50PM	This course combines multiple disciplines of architecture, construction management, interior design & architecture and other design disciplines to create a team project using design-build or Integrated project delivery systems. Using project requirements and criteria set forth by national design, architecture and construction management associations, student employ a transdisciplinary approach to deliver a complete project plan which includes: full concept design (site plan, floor plans, elevations, renderings, interior design, landscape design and digital/physical models), complete cost estimates, project schedule from feasibility to occupancy, construction site logistics plan, risk mitigation plan, safety plan, material selection, contract delivery system selection, contractor buy-out process, team organization/communication plan, and quality assurance plan. Some projects may also include entitlement or zoning plan, cash flow projections, marketing plan, development plan and project business plan with financial return projections. Presentations at national association conferences or competitions may be required as part of the project.

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CM601	6	1151	10WKS	Current Prac. in Const. Mgmt.	Debbie Phillips	Asynchronous							<p>This foundational course is an up-to-date review of current construction management methods, legal theory, and regulatory influences on a project. This course is a creatively presented overview of construction management, focusing on cost estimating and project scheduling as practiced by current professionals in the commercial sector. It is designed as a leveling course for students without a construction management undergraduate degree and a course to update construction management professionals on current practices, filling gaps in knowledge required for more advanced courses.</p>
CM602	6	1005	10WKS	Impl. Build. Info. Modeling	Rabi Sidawi	Asynchronous							<p>This course explores crucial construction tasks, such as estimating, staging, sustainability testing, multiple-model trade coordination, and digital detail resolution using building information modeling and other advanced computing methods. Legal controversies and regulatory issues are also included. This course is offered early in the program so that students will be able to use skills learned and appropriate software for the remainder of the program.</p>
CM603	6	1030	10WKS	Emerg. Trends in Proj. Mgmt.	Dia Hunter	Asynchronous							<p>This course exposes the student to innovative approaches in developing a construction project plan: defining and confirming the goals and objectives, identifying construction activities, and explaining how quality tasks can be planned and achieved. Students will also practice quantifying the resources needed and determining cash flow and a sound schedule for completion. Productivity measurements, including work sampling, crew balance charts, process charts, flow diagram, and others, are discussed. The course also includes external factors affecting labor productivity, such as change orders, overstaffing, stacking of trades, and weather. An integral part of this course is the impact of safety on productivity.</p>
CM604	6	1007	10WKS	Project Feasibility and Cost Controls	Andre Tejada	Asynchronous							<p>This course gives the student an understanding of how the use of capital is perceived by individual stakeholders in the built environment, why and how a financial feasibility assessment is performed, who should be involved, where and when it should be performed, what data should be used, and how financial assessments should be presented. Additionally, this course involves creative cost control discussions and legal and regulatory topics.</p>
CM651	6	1013	10WKS	Comm. Design & Const. Methods	Charner Rodgers	Asynchronous							<p>This is an advanced course designed so that the construction management student will have an understanding of various architecture design practices and management, including the materials and methods used in commercial construction. Discussions focus on the management point of view, allowing students to understand the overall commercial construction process, players, materials, and quality standards. Legal and regulatory issues associated with the implementation of the architect's design are also discussed.</p>

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CSC5401	3	1159	1st 5	Beginning 3-D Studio Max	Amin Espandiari	T	R	2:00PM	3:50PM	4:00PM	5:50PM	This course is a Beginner 3D computer modeling and rendering based on 3D studio max with a focus specifically on Interior design and rendering. Students learn how the strength of software is employed to assist the design and rendering process. Students will create wire-frame models using polygon and spline modeling techniques using 3-D studio max and compose fully rendered images using materials, texture maps, and lighting concepts. Digital Modeling will be explored both as a tool for the design process and as a state-of-the-art presentation technique.
CSC5411	3	1160	2nd 5	Advanced 3-D Studio Max	Amin Espandiari	T	R	2:00PM	3:50PM	4:00PM	5:50PM	This course is an Advanced 3D computer modeling and rendering based on 3D studio max with a focus specifically on Architectural form and Advanced rendering. Students learn how the strength of software is employed to assist the parametric design and advanced rendering process. Students learn to how use V-ray (most advanced rendering plugin) and forest pack (most advanced scattering plugin) to achieve high quality of visual art. Digital Modeling will be explored both as a tool for the design process and as a state-of-the-art presentation technique.
CSC595C	3	1161	2nd 5	Building Information Modeling - Introduction	Amin Espandiari	M	W	10:00AM	11:50AM	12:00PM	1:50PM	This course explores basic reactions of building systems and their interface within building operations and architectural design on Revit with a focus specifically on System and Performance analysis. Students learn how the strength of software is employed to assist the building system and performance process. Students will independently complete advanced plan, Section and elevation drawings along with 3D perspectives, axonometric, and presentation Drawings.
DES540	3	1153	1st 5	Multimedia	Philipp Bosshart	M	W	3:30PM	6:20PM			This course is an introduction into design thinking with an emphasis in iterative and generative modes of working. Various digital applications coupled with analogue techniques are investigated and tested. A series of short and multi-faceted design exercises explore the vast horizon of multi-media and its contemporary application.
DES545	3	1179	2nd 5	Page Layout	Soudabeh Memarzadeh	S		9:00AM	10:50AM	11:00AM	12:50PM	Layout design refers to the arrangement of text, images, and other elements on a page. The course explores grids versus templates, typography, type design, and logo design. Students will be introduced to large print publications, e-pub, and electronic page principles of design using Adobe Creative Suite (InDesign and Illustrator).

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DES5561B	2	1128	10WKS	Internship	Dan Manlongat	F		1:00PM	1:50PM		<p>Student employment in community design offices is monitored according to the general intent of the Architectural Experience Program* (AXP). Class discussions focus on practice-related topics such as professional liability, quality control, and client relations. Students prepare an internship document containing an internship evaluation narrative and work samples. Enrollment in AXP is not required. Internships must have prior approval of the faculty advisor and the instructor and are supervised throughout the quarter. Although not required, NewSchool encourages architecture student interns to join the AXP, the structured internship process administered by the National Council of Architectural Registration Boards (NCARB). An AXP record is mandatory for professional licensure in most states.</p>
DES5561C	3	1129	10WKS	Internship	Dan Manlongat	F		1:00PM	1:50PM		<p>Student employment in community design offices is monitored according to the general intent of the Architectural Experience Program* (AXP). Class discussions focus on practice-related topics such as professional liability, quality control, and client relations. Students prepare an internship document containing an internship evaluation narrative and work samples. Enrollment in AXP is not required. Internships must have prior approval of the faculty advisor and the instructor and are supervised throughout the quarter. Although not required, NewSchool encourages architecture student interns to join the AXP, the structured internship process administered by the National Council of Architectural Registration Boards (NCARB). An AXP record is mandatory for professional licensure in most states.</p>
DES5561D	4	1075	10WKS	Internship	Dan Manlongat	F		1:00PM	1:50PM		<p>Student employment in community design offices is monitored according to the general intent of the Architectural Experience Program* (AXP). Class discussions focus on practice-related topics such as professional liability, quality control, and client relations. Students prepare an internship document containing an internship evaluation narrative and work samples. Enrollment in AXP is not required. Internships must have prior approval of the faculty advisor and the instructor and are supervised throughout the quarter. Although not required, NewSchool encourages architecture student interns to join the AXP, the structured internship process administered by the National Council of Architectural Registration Boards (NCARB). An AXP record is mandatory for professional licensure in most states.</p>

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DES5561E	5	1130	10WKS	Internship	Dan Manlongat	F		1:00PM	1:50PM			Student employment in community design offices is monitored according to the general intent of the Architectural Experience Program* (AXP). Class discussions focus on practice-related topics such as professional liability, quality control, and client relations. Students prepare an internship document containing an internship evaluation narrative and work samples. Enrollment in AXP is not required. Internships must have prior approval of the faculty advisor and the instructor and are supervised throughout the quarter. Although not required, NewSchool encourages architecture student interns to join the AXP, the structured internship process administered by the National Council of Architectural Registration Boards (NCARB). An AXP record is mandatory for professional licensure in most states.
DES5561F	6	1077	10WKS	Internship	Dan Manlongat	F		1:00PM	1:50PM			Student employment in community design offices is monitored according to the general intent of the Architectural Experience Program* (AXP). Class discussions focus on practice-related topics such as professional liability, quality control, and client relations. Students prepare an internship document containing an internship evaluation narrative and work samples. Enrollment in AXP is not required. Internships must have prior approval of the faculty advisor and the instructor and are supervised throughout the quarter. Although not required, NewSchool encourages architecture student interns to join the AXP, the structured internship process administered by the National Council of Architectural Registration Boards (NCARB). An AXP record is mandatory for professional licensure in most states.
DES595C1	3	1180	10WKS	Product Marketing for the Digital Age	Deny Ehrlich	T	R	10:00AM	11:50AM			If a creative designs within a vacuum, does it really make an impact? Regardless of the product or service you design, this course will teach you the foundations of marketing for new media. Through a series of case studies and brand-building exercises, learn how to craft your own attention-grabbing marketing campaign.
DES595C2	3	1181	10WKS	Psychology of Design	Bryan Rill	R		4:00PM	6:50PM			This course uses psychology to inform and inspire affective design. It introduces the biological and cultural factors that condition people's needs, expectations, and desires. Students will learn about the perceptual and social brain, as well as the semiotics of media content and its effects upon human psychology. Students will learn how to assess and design to specific user needs by working in teams to create businesses that use psychology in media design. Examples include consultancies, design firms, app developers, or analytical services.
DES595F	6	1093	10WKS	Design Summer Studio	TBD	M	W	1:00PM	1:50PM	2:00PM	5:50PM	The studio class explores design thinking and the design process as it applies to the creation of innovative experiences in the area of retail, exhibition or cultural experiences. The studio project involves design of interiors, products and digital media solutions as integrated elements of the experience.

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ENG310	3	1079	2nd 5	The Craft of Writing	Kate Sayre	T	R	9:00AM	11:50AM			In this course students will engage both critically and aesthetically with multiple genres of classic and contemporary writing. Students will examine works of fiction and nonfiction that exhibit an effective use of language as well as a focus on writing as a craft. Technique, style, and author intention will be investigated through student-focused workshops. Students will create their own original writing pieces, explore multiple strategies of process, and participate in peer review.
HUM360	3	1162	10WKS	Myths and Symbols	Bruce Matthes	W	Hybrid	11:30AM	12:50PM			In this course students examine both ancient and pre-industrial stories and learn to recognize the unifying motifs that they share with the myths of contemporary societies. Within a comparative framework the course uses diverse artifacts from anthropology, psychology, literature, and religion to discover questions of origin as the story of the hero unfolds. Through this process, students examine ways to organize and evaluate human experience as they cultivate diverse perspectives about themselves, others, and the world.
ID213	3	1154	10WKS	Lighting Design	Anjum Razvi	R		1:00PM	3:50PM			Students are introduced to lighting-design vocabulary, sources, systems, and luminaires. They will complete basic illumination calculations for interior lighting based on understanding human behaviors and social needs. Designs will be investigated for light as a form-giver to interiors as students integrate lighting with design of interior environments. Day lighting will be discussed as it relates to electric lighting. Virtual visits from lighting designers/educators from other cultures and countries will connect students to a global understanding of lighting design.
ID595C	3	1172	10WKS	Space Planning for Interiors	Denise Homme	T		1:00PM	3:50PM			The course introduces design thinking and the design process as it specifically relates to the organization and use of interior environments. Topics of focus include interior design programming, human anthropometrics and ergonomics, end-user needs and experience, and the use of schematics and ideation in the development and presentation of a space planning concept.
MD595C1	3	1173	10WKS	Sound Design	Genadi Radiul	T		1:00PM	4:50PM			This course is an introduction to sound design and sonic branding techniques. In this software-based course, students will learn how to edit sound and apply it for audio enhancement of their productions. Students will also learn how to produce appropriate audio effects and transitions in computer environment.
MD595C2	3	1174	10WKS	Photoshop from entry level to export	Chris Clark	M		1:00PM	4:50PM			In this course, students will learn and master Adobe Photoshop, the industry standard software for creative image compositing, retouching, animation and effects. Learning critical imaging fundamentals and correct production techniques, students will take their Photoshop skills from novice to ninja.
MD595C3	3	1175	10WKS	Illustrator from entry level to export	Chris Clark	W		1:00PM	4:50PM			In this course, students will learn critical vector art creation and manipulation skills while utilizing the industry-standard vector image design software, Adobe Illustrator. This is a must-have skillset for all design disciplines or anyone interested in digital illustration.

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MD595C5	3	1177	10WKS	Magazine Design	Yoav Herman	M		10:00AM	12:50PM		Magazines offer so many opportunities for designers to be creative in their choices of layout, colors, fonts, imagery and more. Learn how to put it all together and design a magazine of your choice. We will learn how to design a magazine layout and how to use the essential elements of an article - headline, sub-headlines, copy, quotes, and imagery. We will work on the cover design, learn to layout an article from start to finish, create a grid system and then break it. At the end you will walk away with some useful tools that can be applied to any publication design project.
MD595C6	3	1178	10WKS	Create your online portfolio	Yoav Herman	W		10:00AM	12:50PM		This course will prepare you for the transition to professional life by developing two important tools - your online portfolio website and your LinkedIn profile. When done right, these two assets can land you job interviews and sell you as a leading candidate for job openings in your field. Each student will work on creating their own individual portfolio, while building a professional online presence in LinkedIn. Building a pool of connections and developing mutual beneficial relationships is the next step, and a key to your career's success after graduation.
MTH171	3	1114	10WKS	Intermediate Algebra	Radostina Dimitrova	T	R	8:30AM	9:50AM		This course includes solving quadratic equations by graphing, factoring, completing the square, and using the quadratic formula; graphing polynomials; solving problems involving variation, rational functions, inverse functions, exponential functions, and logarithmic functions; solving inequalities; and complex numbers.
MTH172	3	1163	10WKS	Trigonometry	Radostina Dimitrova	M	W	10:00AM	11:20AM		This course includes solving right triangles using degree and radian measure, solving trigonometric equations, applications of trigonometric functions, vectors, and trigonometric form for complex numbers.
MTH174	3	1164	10WKS	Geometry	Radostina Dimitrova	M	W	11:30AM	12:50PM		This course provides students with the opportunity to broaden and deepen their understanding of Euclidean geometry usually encountered in a high school geometry course. The course extends the geometric experience to non-Euclidean topics and serves to unify the study of geometry as the result of a system of axioms.
PHL161	3	1165	2nd 5	Introduction to Philosophy	Adam Phillips	Asynchronous					Students are introduced to some of philosophy's crucial, elusive, and elucidating questions. Course exploration encompasses works in the early-Western tradition, Platonic and Aristotelian, then moves forward to Reform, modern, postmodern, and other contemporary expressions.
PSY595C	3	1166	2nd 5	Psychology of an Epidemic	Gary Burkholder	Asynchronous					In a world connected intricately through relatively unrestricted travel and commerce, the risk of epidemics and pandemics is high. This course examines the basic public health principles essential to understanding epidemics and disease spread and explanations for the variety of ways people react to them. Topics include anxiety and how individuals approach it; conspiracy theories; social psychological principles including decision-making, rumors, the role of social media; risk communication; and emotional distress.
RSH481	3	1156	10WKS	Introduction to Research	Trevor Stine	M	W	1:00PM	3:50PM		This course emphasizes the basic structural patterns of organization and substance fundamental to effective writing and logical thinking. The course focuses on the development of language exposition skills based on the rhetorical methods of description, narration, exemplification, comparison and contrast, classification, analysis, cause and effect, and argument and persuasion.

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RSH582	3	1167	10WKS	Research & Communication	Amy Alsup	M	W	10:00AM	11:20AM			This course concentrates on a major research thesis. Strategies for effectively communicating research ideas and data are explored through varying modalities of visual representation.
SCI170	3	1033	10WKS	Physics I	Radostina Dimitrova	T	R	10:00AM	10:50AM	11:00AM	11:50AM	This course covers fundamental principles of mechanics, vectors, particle kinematics, equilibrium of a rigid body, work and energy, linear momentum, rotational kinematics, and dynamics.
SCI270	3	1168	10WKS	Geology	Kevin Robinson	Asynchronous						This course examines natural forces including the physical nature of the earth, geotectonics, the importance of sustainability, and the exploitation of the environment.
SOC595C	3	1082	1st 5	GIS Mapping Technologies	Trevor Stine	M	W	9:00AM	11:50AM			Architects and construction managers with GIS (Geographic Information Systems) abilities have a valuable professional spatial analysis tool and higher understanding of the "the big picture". Combining spatial data and scientific formulas enable powerful visualization and understanding for site selection and analysis. This class will provide a solid understanding of GIS theory and application through the use of a free online Open Source GIS software platform.
SRO1000	0	1169		Student Readiness Orientation	George Welch	Asynchronous						The Student Readiness Orientation course is designed to help new students become familiar with the learning management system NewSchool uses, as well as how to participate in discussions and submit assignments.

The courses listed as Asynchronous will be taught using Blackboard, and no live lectures will be given.

Highlighting indicates courses that may be eligible for a 10% tuition discount. Visit <https://bit.ly/NewSchoolSummer2020> for more information.

Course list of 5/14/2020. Courses subject to change